

**Table 3 - price information to be published as referred to in Article 4 point (a)**

Size range 1: greater than EUR 0 and less than or equal to the Standard Market Size or the Size Specific to the financial instrument;

Size range 2: greater than the Standard Market Size or the Size Specific to the financial instrument and less than or equal to Large in Scale;

Size range 3: greater than Large in Scale.

Date	Financial Instrument Name	Time (T)	Size Range	All trades executed within first two minutes after time T		First transaction after time T (if no transactions within first two minutes after time T)						
				Simple average executed price (excluding commissions and accrued interest)	Total value executed	Price	Time of execution	Transaction Size	Trading System	Trading Mode	Trading platform	Best bid and offer or suitable reference price at time of execution
4/2/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Bitcoin	1:30:00 PM	1			4888.36	15:13:03	48.8836	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Litecoin	1:30:00 PM	1			70.83	15:29:47	2.8332	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF	9:30:00 AM	1			0.70747	9:42:30	0.0070747	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY	9:30:00 AM	1			78.659	10:46:45	0.78659	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY	11:30:00 AM	1			78.754	11:33:01	0.78754	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD	9:30:00 AM	1			0.70776	10:05:28	0.0070776	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF	9:30:00 AM	1			1.12637	9:41:59	0.0112637	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD	9:30:00 AM	1			1.49319	9:49:27	1.49319	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD	1:30:00 PM	1			1.49337	13:49:18	0.149337	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF	9:30:00 AM	1			1.11945	11:23:14	0.044778	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF	11:30:00 AM	1			1.12	13:14:19	0.0112	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP	11:30:00 AM	1			0.85859	13:00:00	0.0171718	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP	1:30:00 PM	1			0.85759	13:34:09	0.0171518	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY	9:30:00 AM	1			124.676	10:45:34	24.9352	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY	1:30:00 PM	1			124.712	14:10:22	2.49424	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD	9:30:00 AM	1			1.1101	10:09:54	0.022202	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD	11:30:00 AM	1			1.1392	11:42:18	0.11392	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD	1:30:00 PM	1			1.12063	15:24:44	0.224126	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD	1:30:00 PM	1			1.8395	14:46:52	0.018395	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY	9:30:00 AM	1	145.4003333	625221.43	145.267	9:58:49	145.267	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY	11:30:00 AM	1			145.411	12:12:06	15.99521	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY	1:30:00 PM	1			145.274	14:02:52	145.274	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD	1:30:00 PM	1			1.92424	14:53:17	0.96212	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD	9:30:00 AM	1			1.11563	9:40:01	0.0111563	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD	11:30:00 AM	1			1.30443	11:46:29	0.0260886	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD	1:30:00 PM	1			1.30398	14:20:08	0.0130398	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY	9:30:00 AM	1			75.424	9:40:32	0.75424	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD	11:30:00 AM	1			0.67696	11:37:15	0.0541568	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD	9:30:00 AM	1			1.33344	10:45:40	0.133344	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF	9:30:00 AM	1			0.99865	10:07:54	4.7635605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF	1:30:00 PM	1			0.99966	14:04:23	0.0099966	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/2/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY	1:30:00 PM	1			0.86697	13:34:50	0.0260091	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK	9:30:00 AM	1			9.3009	11:06:34	0.186018	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/2/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/2/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Bitcoin	11:30:00 AM	1			5065.36	13:05:26	50.6536	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Litecoin	11:30:00 AM	1			83.56	13:14:00	0.8356	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD	9:30:00 AM	1			0.71194	9:36:41	0.035597	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD	11:30:00 AM	1			0.71181	12:00:05	0.0142362	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD	1:30:00 PM	1			0.71161	13:59:06	0.0355805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DAX30.i	9:30:00 AM	1			11912.02	11:23:04	11912.02	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DAX30.i	11:30:00 AM	1			11915.27	11:37:02	11915.27	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD	11:30:00 AM	1			1.49674	11:57:25	0.1646414	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD	1:30:00 PM	1			1.49688	15:27:20	0.0149688	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF	9:30:00 AM	1			1.12024	9:51:20	0.0112024	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	EURCHF	11:30:00 AM	1			1.12045	12:20:41	0.134454	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF	1:30:00 PM	1			1.12093	13:59:37	0.0112093	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP	9:30:00 AM	1	0.85317	25.5951	1.33875	10:00:00	0.0133875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY	9:30:00 AM	1			125.282	10:45:29	1.25282	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY	1:30:00 PM	1			1.11223	14:18:09	0.0111223	Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD	9:30:00 AM	1			1.12223	9:33:05	0.0112223	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD	11:30:00 AM	1			1.1245	12:18:52	0.02249	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD	1:30:00 PM	1			1.12453	13:48:58	0.0224906	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD	1:30:00 PM	1			1.84814	14:32:26	0.184814	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF	1:30:00 PM	1			1.3108	14:32:24	0.144188	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY	9:30:00 AM	1			147	9:53:55	16.17	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY	11:30:00 AM	1			146.94	11:42:44	1.4694	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY	1:30:00 PM	1			146.704	14:40:19	1.46704	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD	9:30:00 AM	1			1.94354	10:02:22	1.94354	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD	9:30:00 AM	1	1.316133333	526.45333	1.11389	9:53:06	0.0111389	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD	11:30:00 AM	1			1.31819	12:46:24	0.0131819	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD	1:30:00 PM	1			1.31761	13:36:31	0.0395283	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD	1:30:00 PM	1			0.67898	13:59:45	0.0203694	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SPX500.i	11:30:00 AM	1			2880.6	12:21:59	2880.6	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD	9:30:00 AM	1			1.3303	10:07:29	0.106424	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD	11:30:00 AM	1			1.33036	11:52:13	0.199554	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD	1:30:00 PM	1			1.3315	15:16:10	0.199725	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD	3:30:00 PM	1	1.33105	399.315				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF	11:30:00 AM	1			1.01491	12:45:47	0.0101491	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/3/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY	9:30:00 AM	1	111.556	11155.6	111.518	10:22:34	66.9108	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY	11:30:00 AM	1			111.486	12:20:39	8.91888	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY	1:30:00 PM	1			111.494	14:34:37	111.494	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK	11:30:00 AM	1			8.5512	12:45:24	0.684096	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/3/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/3/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Bitcoin	1:30:00 PM	1			1.11512	13:34:12	0.0111512	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Litecoin	1:30:00 PM	1			85.77	13:34:07	0.8577	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD	11:30:00 AM	1			0.71085	11:46:57	0.014217	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	BCHUSD	1:30:00 PM	1			1.13823	14:54:12	0.0569115	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF	11:30:00 AM	1			0.74705	12:01:58	0.014941	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD	9:30:00 AM	1			1.12231	10:48:48	0.0112231	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF	9:30:00 AM	1			1.12224	10:49:03	1.12224	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP	9:30:00 AM	1			1.33875	10:00:00	0.0133875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP	11:30:00 AM	1			0.85337	11:46:18	0.0170674	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY	9:30:00 AM	1			125.118	11:00:34	1.25118	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY	11:30:00 AM	1			125.038	12:38:06	5.00152	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY	1:30:00 PM	1			125.09	14:17:59	1.2509	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD	11:30:00 AM	1			1.12289	12:36:15	0.0112289	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD	1:30:00 PM	1			1.12236	14:31:31	1.12236	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY	1:30:00 PM	1			146.33	14:25:00	441.9166	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD	9:30:00 AM	1			1.31791	10:06:57	0.0131791	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD	11:30:00 AM	1			1.11632	11:44:05	0.055816	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD	1:30:00 PM	1			1.31364	14:25:19	0.262728	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	GOLD	3:30:00 PM	1	1284.92	2569.84				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD	11:30:00 AM	1			1.3359	12:27:14	1.3359	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/4/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY	9:30:00 AM	1			111.372	11:03:31	1.11372	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY	11:30:00 AM	1			111.411	12:36:53	1.11411	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/4/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/4/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD	9:30:00 AM	1			0.71276	9:52:27	0.035638	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD	11:30:00 AM	1			0.71163	13:18:14	0.0355815	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD	1:30:00 PM	1			0.71154	15:20:02	0.0142308	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADDDK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADDDK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADDDK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADDDK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY	11:30:00 AM	1			83.526	13:29:59	1.67052	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY	1:30:00 PM	1	83.527	8352.7	83.456	15:11:23	1.66912	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF	11:30:00 AM	1			1.12312	13:08:20	0.0449248	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF	3:30:00 PM	1	1.12384	123.6224				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP	9:30:00 AM	1			0.85769	9:55:15	0.0171538	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY	9:30:00 AM	1			125.32	10:25:04	25.064	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD	9:30:00 AM	1			1.12334	9:32:23	0.112334	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD	11:30:00 AM	1			1.12253	11:43:05	0.2806325	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD	1:30:00 PM	1			1.12311	15:20:41	1.12311	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD	3:30:00 PM	1	1.124045	3934.1575				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY	9:30:00 AM	1			146.18	9:58:25	483.8558	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY	11:30:00 AM	1			146.06	12:03:49	458.6284	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD	9:30:00 AM	1			1.93728	10:22:02	0.0193728	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD	11:30:00 AM	1			1.94106	12:52:16	0.0194106	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD	9:30:00 AM	1			1.31004	10:58:03	0.1179036	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD	11:30:00 AM	1			1.11878	12:00:02	0.111878	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD	1:30:00 PM	1			1.30722	13:36:24	6.1962228	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/5/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD	1:30:00 PM	1			1.33727	13:59:29	0.0133727	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF	11:30:00 AM	1			1.00043	12:07:59	0.0100043	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY	9:30:00 AM	1			1.11536	10:00:26	0.0111536	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY	3:30:00 PM	1	111.59	2231800				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/5/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/5/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CL.f	1:30:00 PM	1			63.3	15:27:51	0.633	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD	9:30:00 AM	1			0.70977	10:27:34	0.070977	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD	11:30:00 AM	1			0.71022	12:00:09	0.0071022	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHF SEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD	9:30:00 AM	1			1.50145	10:28:00	0.150145	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF	1:30:00 PM	1			1.30023	14:06:10	0.3250575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP	9:30:00 AM	1			0.85992	9:44:07	0.85992	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP	11:30:00 AM	1			0.8615	13:21:30	0.01723	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY	11:30:00 AM	1	125.214	1252.14	125.21	11:52:41	1.2521	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY	1:30:00 PM	1			125.256	13:35:22	25.0512	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD	9:30:00 AM	1			1.12261	9:35:07	0.0112261	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD	11:30:00 AM	1	1.12313	123.5443	6217.7	11:38:46	62.177	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD	1:30:00 PM	1			1.12399	13:39:22	0.0112399	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY	9:30:00 AM	1			145.376	10:05:32	481.19456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY	1:30:00 PM	1			145.405	15:04:32	2.9081	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD	9:30:00 AM	1			1.30504	10:14:57	0.0130504	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD	11:30:00 AM	1			1.30621	11:48:03	0.0130621	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD	1:30:00 PM	1			1.30471	14:29:41	0.3261775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GOLD	9:30:00 AM	1			1296.24	11:16:50	12.9624	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	GOLD	11:30:00 AM	1			1298.05	12:10:18	12.9805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/8/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD	11:30:00 AM	1			1.33746	11:48:18	0.0133746	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD	1:30:00 PM	1			1.11895	14:20:58	0.0111895	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY	9:30:00 AM	1			1.01003	11:17:48	0.0101003	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY	11:30:00 AM	1			111.44	12:38:43	2.2288	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	USDJPY	1:30:00 PM	1			111.504	15:21:05	4.46016	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/8/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/8/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Bitcoin	9:30:00 AM	1			1.12641	11:00:57	0.0112641	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Bitcoin	11:30:00 AM	1			5279.86	12:32:14	52.7986	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD	9:30:00 AM	1			1.33875	10:00:00	0.0133875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD	11:30:00 AM	1			0.71462	11:48:33	0.0142924	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF	9:30:00 AM	1			0.75063	11:00:50	0.075063	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF	11:30:00 AM	1			0.75152	12:56:56	0.0075152	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF	1:30:00 PM	1			0.7522	14:33:52	0.015044	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY	9:30:00 AM	1			111.35	10:58:31	1.1135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY	1:30:00 PM	1			0.86742	13:37:13	0.0173484	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD	9:30:00 AM	1			1.57632	9:34:17	1.57632	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF	11:30:00 AM	1			1.12593	11:32:27	0.0900744	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF	1:30:00 PM	1			1.12688	13:43:39	0.1014192	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP	9:30:00 AM	1			0.86178	10:52:56	0.0086178	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP	11:30:00 AM	1			0.8602	11:45:00	0.8602	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP	1:30:00 PM	1			0.71111	15:11:06	0.0071111	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY	1:30:00 PM	1			125.502	13:59:10	1.25502	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD	9:30:00 AM	1			0.99869	10:07:36	0.299607	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD	9:30:00 AM	1			1.12621	9:36:55	0.0112621	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD	11:30:00 AM	1	1.12702	101.4318	0.65909	11:32:19	0.65909	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD	1:30:00 PM	1			1.12777	13:58:48	0.5074965	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF	9:30:00 AM	1			1.30549	11:12:01	0.0391647	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY	9:30:00 AM	1			1.11531	10:14:54	0.0111531	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY	11:30:00 AM	1			145.54	11:39:46	1.4554	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY	1:30:00 PM	1			145.35	15:00:30	4.3605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD	11:30:00 AM	1			1.93946	12:08:32	1.93946	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD	1:30:00 PM	1			1.93684	15:10:09	1.93684	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD	9:30:00 AM	1			1.3075	9:40:16	1.3075	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD	11:30:00 AM	1			1.3073	11:42:02	1.3073	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD	1:30:00 PM	1			1.30873	14:01:50	0.0130873	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GOLD	11:30:00 AM	1			1302.08	12:50:23	13.0208	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GOLD	1:30:00 PM	1			1304.43	15:21:11	13.0443	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD	1:30:00 PM	1			0.67455	14:57:43	0.13491	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/9/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SILVER	9:30:00 AM	1			15.28	11:24:41	1.2224	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD	9:30:00 AM	1			1.32978	9:47:01	0.0398934	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD	11:30:00 AM	1			1.26177	11:46:19	0.0126177	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD	1:30:00 PM	1			1.32905	14:53:42	0.26581	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF	11:30:00 AM	1			0.99851	11:46:48	0.0099851	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF	1:30:00 PM	1			1.12928	14:40:48	0.0225856	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY	9:30:00 AM	1			111.36	9:41:28	111.36	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY	11:30:00 AM	1	111.252	111252	111.363	11:45:07	1.11363	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK	9:30:00 AM	1			8.5331	10:49:17	0.682648	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	USDSEK	9:30:00 AM	1			9.2558	10:54:46	0.370232	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK	1:30:00 PM	1			9.243	13:42:02	0.36972	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/9/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/9/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD	11:30:00 AM	1			0.95237	11:36:32	0.0095237	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD	1:30:00 PM	1			0.95202	13:47:54	0.0095202	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD	11:30:00 AM	1			1.57647	11:48:19	0.0157647	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF	1:30:00 PM	1			1.12812	15:15:04	0.112812	Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP	9:30:00 AM	1			0.862	11:08:20	0.862	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP	11:30:00 AM	1			0.86213	11:33:11	0.86213	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY	9:30:00 AM	1			125.282	10:26:23	1.25282	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY	11:30:00 AM	1			125.312	12:49:21	10.02496	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD	9:30:00 AM	1			1.12664	9:32:49	0.0112664	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD	11:30:00 AM	1	1.126659375	180.2655	1.11429	11:38:23	0.0111429	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD	1:30:00 PM	1			1.12806	14:48:43	0.056403	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD	3:30:00 PM	1	1.12855	1918.535				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD	9:30:00 AM	1			1.83028	10:01:04	0.183028	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY	9:30:00 AM	1			145.257	10:53:27	2.90514	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY	11:30:00 AM	1	145.35	1453500	145.369	13:04:05	2.90738	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY	1:30:00 PM	1			145.458	13:36:46	2.90916	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD	9:30:00 AM	1			1.93643	10:00:22	0.968215	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD	1:30:00 PM	1			1.93764	14:26:17	0.96882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD	9:30:00 AM	1			1.3075	9:53:46	0.013075	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	GBPUSD	11:30:00 AM	1	1.30732	50985.48	1.3073	11:32:54	5.09847	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD	1:30:00 PM	1			1.3085	14:03:38	0.013085	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD	1:30:00 PM	1			0.67538	15:04:00	0.135076	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/10/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD	11:30:00 AM	1			1.13944	13:06:12	0.227888	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK	9:30:00 AM	1			9.2435	10:28:32	0.18487	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK	1:30:00 PM	1			1.26366	14:16:33	0.0126366	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/10/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/10/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY	9:30:00 AM	1			79.584	10:38:13	79.584	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY	1:30:00 PM	1			79.494	14:48:15	3.17976	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD	1:30:00 PM	1			0.71551	14:44:22	0.0143102	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY	9:30:00 AM	1			83.192	11:11:33	0.83192	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	CHF MXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF MXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD	9:30:00 AM	1			107.745	10:10:30	1.07745	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD	9:30:00 AM	1			1.5065	10:47:22	0.015065	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF	9:30:00 AM	1			1.13088	10:28:53	0.0113088	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF	11:30:00 AM	1			1.12999	12:13:40	0.0112999	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF	1:30:00 PM	1			1.13002	14:00:41	0.169503	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	EURGBP	9:30:00 AM	1			1.33875	10:00:00	0.0133875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP	1:30:00 PM	1			0.86119	15:06:48	0.86119	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY	9:30:00 AM	1			1.11513	10:31:27	0.0111513	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY	11:30:00 AM	1			125.312	12:47:21	5.01248	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY	1:30:00 PM	1			125.279	14:50:07	3.75837	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	EURUSD	9:30:00 AM	1			1.12841	10:09:18	0.0564205	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD	11:30:00 AM	1			1.1279	11:50:31	0.056395	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD	1:30:00 PM	1			1.1269	14:40:15	1.1269	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD	11:30:00 AM	1			1.74673	12:24:16	1.9039357	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF	11:30:00 AM	1			1.30928	12:01:01	0.9034032	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD	9:30:00 AM	1			1.3063	11:18:13	0.326575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD	11:30:00 AM	1			145.496	12:02:26	290.992	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GOLD	9:30:00 AM	1			1305.92	10:00:50	13.0592	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GOLD	11:30:00 AM	1			1305.32	13:13:45	13.0532	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GOLD	1:30:00 PM	1			1302.73	14:19:08	13.0273	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/11/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SPX500.i	1:30:00 PM	1			2895.4	14:00:26	2895.4	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD	9:30:00 AM	1			1.33545	10:51:00	0.0400635	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD	11:30:00 AM	1			1.33491	11:34:12	0.0533964	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	USDCHE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHE.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHE.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHE.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCHE.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY	9:30:00 AM	1			111.148	9:32:17	2.22296	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY	1:30:00 PM	1			1.13774	14:44:59	0.227548	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK	9:30:00 AM	1			9.2542	10:16:28	0.092542	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/11/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/11/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD	1:30:00 PM	1			1.06258	14:02:28	0.0106258	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD	11:30:00 AM	1			0.71609	11:58:43	0.071609	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD	1:30:00 PM	1			1.26643	15:04:37	0.0126643	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY	11:30:00 AM	1			1.26768	11:55:26	1.2803568	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY	1:30:00 PM	1			83.977	15:10:38	8.3977	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD	9:30:00 AM	1			1.5846	9:33:13	0.15846	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD	11:30:00 AM	1			6216.5	11:40:54	124.33	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD	1:30:00 PM	1			1.578	14:21:13	0.01578	Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP	9:30:00 AM	1			139.052	10:34:01	4.17156	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP	11:30:00 AM	1			1.13423	11:40:24	0.0113423	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP	1:30:00 PM	1			0.86459	13:48:08	0.86459	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY	9:30:00 AM	1			126.215	9:32:08	37.8645	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY	11:30:00 AM	1			126.47	11:34:38	37.941	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY	1:30:00 PM	1			126.708	14:08:06	1.26708	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD	9:30:00 AM	1			1.12826	9:39:55	0.225652	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD	11:30:00 AM	1	1.13011	339.033	1.13088	11:40:18	0.056544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD	1:30:00 PM	1			1.13071	13:44:27	0.0339213	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD	1:30:00 PM	1			1.82597	14:42:34	0.0912985	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF	11:30:00 AM	1			1.30853	11:39:06	0.9028857	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY	9:30:00 AM	1			146.028	10:25:24	2.92056	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY	11:30:00 AM	1			146.346	12:58:46	14.6346	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY	1:30:00 PM	1			146.637	15:04:33	14.6637	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD	11:30:00 AM	1			126.529	12:10:05	126.529	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD	9:30:00 AM	1			1.30594	10:00:57	0.0130594	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD	11:30:00 AM	1			1.30691	11:57:47	0.130691	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD	1:30:00 PM	1			1.30805	13:46:26	1.30805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY	1:30:00 PM	1			75.567	14:48:28	0.75567	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/12/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD	9:30:00 AM	1			1.33509	11:03:01	0.0801054	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	USDCAD	11:30:00 AM	1			1.33428	11:57:00	0.0133428	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD	1:30:00 PM	1			1.33267	14:28:02	0.0133267	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY	9:30:00 AM	1			111.883	10:08:09	2.23766	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY	11:30:00 AM	1			111.939	12:02:50	1.11939	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY	1:30:00 PM	1			1.11785	14:59:51	0.0111785	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/12/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/12/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD	9:30:00 AM	1			0.71765	10:24:30	0.129177	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	EURCHF	9:30:00 AM	1			0.89702	10:08:26	0.0089702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF	11:30:00 AM	1			1.13432	11:53:21	0.0340296	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP	9:30:00 AM	1			0.8646	10:04:03	0.8646	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP	11:30:00 AM	1			0.8638	11:43:49	0.8638	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP	1:30:00 PM	1			0.8631	13:43:19	0.8631	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD	9:30:00 AM	1			1.13095	9:33:23	0.0113095	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD	11:30:00 AM	1			1.13167	12:22:25	0.0565835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD	1:30:00 PM	1	1.13077	5653.85	1.13117	13:48:56	0.113117	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY	9:30:00 AM	1			146.661	10:40:37	7.33305	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY	3:30:00 PM	1	146.875	146875				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD	9:30:00 AM	1			1.93637	11:06:26	0.2130007	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD	1:30:00 PM	1			1.93905	14:18:24	0.969525	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD	9:30:00 AM	1			1.30805	10:00:06	0.0130805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD	1:30:00 PM	1			1.31153	13:54:34	0.131153	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD	1:30:00 PM	1			0.90083	13:52:15	0.0090083	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY	9:30:00 AM	1			75.744	10:48:44	0.75744	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD	9:30:00 AM	1			1.33391	9:45:04	0.0133391	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD	1:30:00 PM	1			0.69543	14:27:03	0.0069543	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF	9:30:00 AM	1			1.0008	10:49:31	0.020016	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF	1:30:00 PM	1			1.00321	13:38:21	0.501605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY	9:30:00 AM	1			111.9	10:00:52	2.238	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/15/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/15/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/15/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD	11:30:00 AM	1			1.3005	12:43:14	0.013005	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD	9:30:00 AM	1			0.71505	9:39:41	0.0357525	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD	11:30:00 AM	1	0.71474	428.844	0.71471	11:43:20	0.0142942	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD	1:30:00 PM	1			0.71624	14:53:03	0.0143248	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY	9:30:00 AM	1			83.575	9:58:41	83.575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY	11:30:00 AM	1			83.58	11:44:00	83.58	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY	11:30:00 AM	1			111.343	12:12:34	1.11343	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD	9:30:00 AM	1	1.5808175	4758.2607				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD	1:30:00 PM	1			1.57775	14:53:30	0.0157775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF	11:30:00 AM	1			1.13558	11:51:16	0.0454232	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP	9:30:00 AM	1			0.86368	9:56:39	0.86368	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP	11:30:00 AM	1			0.65558	12:13:59	0.032779	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP	1:30:00 PM	1			0.86348	14:04:24	0.86348	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY	9:30:00 AM	1			126.53	9:56:58	1.2653	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY	11:30:00 AM	1	126.569	126569	126.529	12:10:05	126.529	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY	1:30:00 PM	1			126.521	14:27:39	1.26521	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD	9:30:00 AM	1			1.67409	10:37:11	0.0669636	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD	11:30:00 AM	1			1.139	12:15:12	0.04556	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD	9:30:00 AM	1			1.13107	9:43:09	0.0565535	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD	11:30:00 AM	1			1.12915	12:14:33	0.0564575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD	1:30:00 PM	1			1.12991	13:44:33	0.0112991	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	GBPJPY	9:30:00 AM	1			146.472	9:57:10	1.46472	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY	11:30:00 AM	1			146.365	12:16:41	1.46365	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY	1:30:00 PM	1			146.411	13:44:13	1.46411	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD	9:30:00 AM	1			1.12702	9:53:53	0.0112702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD	11:30:00 AM	1			1.308	12:17:52	0.1308	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD	1:30:00 PM	1			1.30905	14:26:30	0.0130905	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GOLD	11:30:00 AM	1			1284.82	12:01:36	64.241	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	GOLD	3:30:00 PM	1	1279.925	7679.55				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD	9:30:00 AM	1			1.33946	9:39:38	0.133946	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD	11:30:00 AM	1			1.33955	11:33:08	0.0669775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD	1:30:00 PM	1			1.24296	14:31:55	0.0124296	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF	9:30:00 AM	1			146.417	10:05:16	1.46417	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF	11:30:00 AM	1			1.00351	11:45:23	0.0100351	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY	9:30:00 AM	1	111.948	111948	111.93	9:40:10	5.5965	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY	1:30:00 PM	1			111.935	14:41:38	1.11935	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/16/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/16/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/16/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD	1:30:00 PM	1			0.95872	14:46:24	0.0191744	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY	1:30:00 PM	1			80.5	14:46:25	1.61	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD	11:30:00 AM	1			1.83865	12:52:19	0.0183865	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD	1:30:00 PM	1			0.86603	14:46:27	0.0259809	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF	9:30:00 AM	1			0.75619	10:58:21	1.51238	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	CHFCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD	1:30:00 PM	1			1.12775	15:18:57	0.0112775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF	11:30:00 AM	1			1.13952	12:15:05	0.0113952	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF	1:30:00 PM	1			1.13144	13:41:47	0.0113144	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP	9:30:00 AM	1			0.8659	9:37:54	0.8659	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP	11:30:00 AM	1	0.8681	2604.3	0.86748	12:00:17	0.0260244	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP	1:30:00 PM	1			0.8664	13:42:41	0.8664	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY	9:30:00 AM	1			126.531	10:00:17	1.26531	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY	1:30:00 PM	1			126.635	14:35:02	1.26635	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD	11:30:00 AM	1			1.67854	11:59:06	0.0167854	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD	9:30:00 AM	1			1.13066	9:54:09	0.056533	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD	11:30:00 AM	1			1.13119	11:44:38	0.0565595	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD	1:30:00 PM	1			1.13059	15:00:25	0.565295	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD	9:30:00 AM	1			1.81354	10:56:17	0.0181354	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD	11:30:00 AM	1			1.8121	12:00:23	0.18121	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD	1:30:00 PM	1			1.81525	14:59:23	0.0181525	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY	9:30:00 AM	1			1.11389	9:53:06	0.0111389	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY	11:30:00 AM	1			145.94	12:24:58	145.94	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY	1:30:00 PM	1			146.214	14:48:10	1.46214	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD	9:30:00 AM	1			1.30562	9:50:42	0.0130562	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD	11:30:00 AM	1			1.30396	11:44:40	0.065198	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD	1:30:00 PM	1			1.11303	14:07:37	0.0111303	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GOLD	9:30:00 AM	1			1278.74	9:47:56	63.937	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD	1:30:00 PM	1			0.67324	14:36:11	0.0067324	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD	9:30:00 AM	1	1.33297	666.485	1.33316	9:51:57	0.266632	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD	11:30:00 AM	1			1.33187	11:33:14	0.0665935	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD	1:30:00 PM	1			1.33407	15:11:50	0.133407	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD	3:30:00 PM	1	1.33257	53302.8				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY	11:30:00 AM	1	112.055	224110	112.007	11:37:24	5.60035	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY	1:30:00 PM	1			1.11898	15:18:37	0.0111898	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/17/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/17/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/17/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD	9:30:00 AM	1			0.9592	10:00:40	0.9592	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD	1:30:00 PM	1			0.9578	14:52:58	0.9578	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD	1:30:00 PM	1			0.71634	14:21:48	0.071634	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHF SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP	9:30:00 AM	1			0.86619	9:59:08	0.259857	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP	11:30:00 AM	1			0.86493	12:00:13	0.0172986	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	EURGBP	1:30:00 PM	1			0.8646	15:11:56	0.8646	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY	9:30:00 AM	1			126.166	10:30:18	1.26166	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD	9:30:00 AM	1			1.67865	10:31:29	0.0167865	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD	1:30:00 PM	1			1.68068	13:39:21	0.0168068	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD	9:30:00 AM	1			1.13006	9:34:11	0.0113006	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD	11:30:00 AM	1			1.1259	11:51:39	0.011259	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	EURUSD	1:30:00 PM	1			1.12558	13:41:56	0.0112558	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD	3:30:00 PM	1	1.12417	112.417				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY	9:30:00 AM	1			145.615	11:00:20	291.23	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY	11:30:00 AM	1			145.637	13:01:14	29.1274	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD	9:30:00 AM	1			1.3025	10:30:29	0.02605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD	11:30:00 AM	1			1.3032	11:49:58	0.013032	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD	1:30:00 PM	1			304.82	13:51:53	27.4338	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GOLD	1:30:00 PM	1			1275.66	14:09:31	63.783	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY	9:30:00 AM	1			74.992	11:05:42	7.4992	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD	11:30:00 AM	1			0.67077	11:32:02	0.201231	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD	1:30:00 PM	1			0.89018	15:09:12	0.0178036	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD	9:30:00 AM	1			1.33618	11:26:51	0.0534472	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD	11:30:00 AM	1			1.00551	13:19:25	0.0100551	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD	1:30:00 PM	1			1.34757	15:03:17	0.673785	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF	9:30:00 AM	1			1.00969	10:01:28	0.4139729	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF	11:30:00 AM	1			1.12254	13:06:29	1.12254	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF	1:30:00 PM	1			1.012	15:15:23	0.01012	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY	9:30:00 AM	1			111.944	10:23:13	1.11944	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK	9:30:00 AM	1			139.84	10:58:00	48.944	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK	3:30:00 PM	1	9.319	2795.7				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/18/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/18/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/18/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP	11:30:00 AM	1			0.86464	12:37:16	0.0086464	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY	11:30:00 AM	1			125.829	12:54:20	251.658	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD	9:30:00 AM	1			1.1242	10:34:57	0.11242	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD	1:30:00 PM	1			1.12488	14:04:12	0.0449952	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY	1:30:00 PM	1			145.485	14:10:11	145.485	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD	9:30:00 AM	1			122.807	11:04:34	1.22807	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD	11:30:00 AM	1			1.9458	12:44:05	0.155664	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD	1:30:00 PM	1			1.30004	13:45:40	0.130004	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD	9:30:00 AM	1			1.33738	10:18:36	2.67476	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD	11:30:00 AM	1			1.33748	11:52:59	0.133748	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF	1:30:00 PM	1			1.01359	14:25:33	0.0101359	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY	1:30:00 PM	1			111.953	13:45:41	11.1953	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/19/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK	11:30:00 AM	1			9.2937	12:00:38	0.278811	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK	1:30:00 PM	1			9.2952	15:09:38	0.278856	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/19/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/19/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Bitcoin	11:30:00 AM	1			5352.76	12:41:05	53.5276	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CL.f	1:30:00 PM	1			65.48	13:57:51	0.6548	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD	9:30:00 AM	1			0.9549	9:34:56	0.9549	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD	11:30:00 AM	1			0.95287	12:57:20	0.95287	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY	11:30:00 AM	1			79.903	12:40:25	0.79903	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD	9:30:00 AM	1			1.06842	10:44:13	0.0106842	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD	9:30:00 AM	1			0.71391	10:33:40	0.0071391	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP	11:30:00 AM	1			0.8659	13:03:37	0.8659	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP	1:30:00 PM	1			0.86812	15:14:11	0.0173624	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY	11:30:00 AM	1			125.876	12:51:27	1.25876	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	EURNZD	11:30:00 AM	1			1.30236	12:50:36	0.1562832	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD	9:30:00 AM	1			1.12439	10:33:03	0.0112439	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD	11:30:00 AM	1			1.12421	11:36:25	0.112421	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD	1:30:00 PM	1			1.12459	14:28:44	1.12459	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD	11:30:00 AM	1			1.26716	12:41:03	0.0380148	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	GBPUSD	9:30:00 AM	1			1.29981	10:00:31	0.0129981	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD	11:30:00 AM	1			1.29915	12:01:07	0.0129915	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD	1:30:00 PM	1			63.61	14:33:17	0.6361	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD	11:30:00 AM	1			1.3363	12:49:15	1.349663	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD	1:30:00 PM	1			123.003	14:33:42	1.23003	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF	11:30:00 AM	1			1.01491	12:45:47	0.0101491	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/22/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/22/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/22/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD	9:30:00 AM	1			1.12702	9:53:53	0.0112702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD	1:30:00 PM	1			0.95048	13:55:51	1.330672	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY	1:30:00 PM	1			79.559	13:51:08	1.59118	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD	1:30:00 PM	1			0.71111	15:11:06	0.0071111	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP	9:30:00 AM	1			0.8661	10:04:09	0.8661	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP	11:30:00 AM	1			0.86562	12:51:52	0.0259686	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY	11:30:00 AM	1			125.865	13:10:54	1.25865	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD	3:30:00 PM	1	1.68895	16.8895				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD	9:30:00 AM	1			1.12443	9:53:43	0.0112443	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD	11:30:00 AM	1			1.12628	12:40:19	1.6556316	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD	1:30:00 PM	1			1.12479	13:51:26	0.0112479	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF	9:30:00 AM	1			1.32027	9:56:26	2.64054	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY	11:30:00 AM	1			145.55	13:02:40	2.911	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD	9:30:00 AM	1			1.94976	10:45:41	1.94976	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD	11:30:00 AM	1			1.95028	11:34:32	0.97514	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD	9:30:00 AM	1			1.29878	10:45:26	0.64939	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD	11:30:00 AM	1			1.3005	12:43:14	0.013005	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD	1:30:00 PM	1			1.30068	13:36:18	5.332788	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD	9:30:00 AM	1			1.33669	9:35:22	0.0133669	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD	1:30:00 PM	1			1.33809	15:06:50	1.33809	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	USDCHF	9:30:00 AM	1			1.01655	9:44:46	0.0101655	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF	11:30:00 AM	1			1.01863	11:58:37	0.1527945	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF	1:30:00 PM	1			1.01921	13:59:50	0.101921	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/23/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/23/2019	XAUUSD	11:30:00 AM	1			1273.43	11:58:08	12.7343	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/23/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ripple	9:30:00 AM	1			1.8676	11:19:47	0.18676	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY	9:30:00 AM	1			78.684	10:31:01	0.78684	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD	9:30:00 AM	1			1.06179	9:41:38	0.0106179	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD	11:30:00 AM	1			0.70465	11:33:52	0.211395	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DAX30.i	1:30:00 PM	1			12335.82	15:11:15	12335.82	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD	9:30:00 AM	1			1.50924	10:24:08	0.075462	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF	9:30:00 AM	1			1.14215	11:25:54	0.0571075	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF	11:30:00 AM	1			1.14199	12:40:26	0.0114199	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP	9:30:00 AM	1			0.86741	10:09:28	0.86741	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP	11:30:00 AM	1			0.86626	13:18:52	0.0086626	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD	9:30:00 AM	1			1.69247	10:23:30	1.5739971	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD	9:30:00 AM	1			1.12084	9:49:29	0.0112084	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD	11:30:00 AM	1			1.12154	12:11:20	0.224308	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD	1:30:00 PM	1			1.1206	14:07:34	0.11206	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY	1:30:00 PM	1			144.798	15:06:21	144.798	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD	9:30:00 AM	1			1.29283	9:35:36	0.0129283	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD	1:30:00 PM	1			1.29387	13:55:05	5.2919283	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	USDCAD	9:30:00 AM	1			1.34598	10:13:30	0.067299	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF	11:30:00 AM	1			1.01878	13:23:33	0.152817	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF	1:30:00 PM	1			1.01883	14:07:41	0.0509415	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY	11:30:00 AM	1			1.26467	12:11:00	0.0126467	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/24/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/24/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	XAUUSD	9:30:00 AM	1			1270.27	9:37:13	12.7027	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/24/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD	9:30:00 AM	1			0.70101	10:04:52	0.0070101	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD	1:30:00 PM	1			0.69693	15:00:01	0.0139386	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	CADJPY	11:30:00 AM	1			82.888	11:56:26	0.82888	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY	1:30:00 PM	1			109.555	14:54:33	1.09555	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF	11:30:00 AM	1			1.13672	12:00:49	0.113672	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP	9:30:00 AM	1			137.086	9:59:11	479.801	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP	11:30:00 AM	1			0.86533	13:14:25	0.0086533	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP	1:30:00 PM	1	0.86492	864.92	0.8642	14:24:42	0.8642	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	EURJPY	11:30:00 AM	1			124.829	11:56:31	1.24829	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY	1:30:00 PM	1			124.542	15:09:42	3.73626	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD	9:30:00 AM	1			1.69032	10:36:52	0.0676128	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD	11:30:00 AM	1			1.27413	11:56:35	1.27413	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD	9:30:00 AM	1	1.115271667	66.9163	1.11408	9:32:02	0.0111408	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD	11:30:00 AM	1	1.11374	66.8244	1.11385	11:32:15	0.0111385	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD	1:30:00 PM	1			1.11351	13:33:29	0.0111351	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD	3:30:00 PM	1	1.111740556	1300.7365				Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF	11:30:00 AM	1			1.26928	12:03:34	0.0126928	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY	9:30:00 AM	1			144.238	10:43:39	144.238	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY	11:30:00 AM	1			144.098	13:20:15	144.098	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD	1:30:00 PM	1			1.95418	14:41:02	0.97709	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD	1:30:00 PM	1			1.28745	14:25:37	0.0643725	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD	1:30:00 PM	1			0.89099	13:37:50	0.0089099	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD	1:30:00 PM	1			1.3508	14:46:15	0.6754	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF	9:30:00 AM	1			1.02063	10:29:20	0.0510315	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF	1:30:00 PM	1			1.02227	14:25:12	0.0511135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY	9:30:00 AM	1			0.99655	10:45:03	0.019931	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY	11:30:00 AM	1			111.87	12:53:01	1.1187	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY	1:30:00 PM	1			111.831	13:36:53	1.11831	Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/25/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK	9:30:00 AM	1			9.5295	10:44:11	0.095295	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/25/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/25/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD	11:30:00 AM	1			0.95036	12:44:40	0.0095036	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF	1:30:00 PM	1			1.2693	14:35:11	0.25386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	AUDJPY	11:30:00 AM	1			1.11426	12:09:19	0.0111426	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	AUDNZD	1:30:00 PM	1			1.05846	13:45:01	0.0105846	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD	11:30:00 AM	1			0.7037	11:53:48	0.07037	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF	1:30:00 PM	1			1.13737	15:10:27	0.2388477	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP	11:30:00 AM	1			0.86336	12:08:56	0.86336	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP	1:30:00 PM	1			0.86264	13:55:22	0.0086264	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP	3:30:00 PM	1	0.8628	862.8				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY	9:30:00 AM	1			124.421	11:17:04	6.22105	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY	11:30:00 AM	1			1.13102	11:47:21	0.056551	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD	11:30:00 AM	1			1.67502	12:51:08	0.0167502	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD	1:30:00 PM	1			1.67519	14:30:54	0.670076	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD	9:30:00 AM	1	1.11397125	89.1177	1.11406	9:32:01	0.0111406	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD	11:30:00 AM	1			1.11374	13:08:30	0.055687	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD	1:30:00 PM	1	1.113703333	33.4111	1.11362	13:34:32	0.0111362	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD	3:30:00 PM	1	1.111555082	678.0486				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD	9:30:00 AM	1			1.83504	11:17:00	0.091752	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF	9:30:00 AM	1			1.31805	11:13:36	0.026361	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY	9:30:00 AM	1			144.098	10:08:50	144.098	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	GBPNZD	9:30:00 AM	1			1.94212	10:23:07	0.0194212	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD	11:30:00 AM	1			1.94041	11:56:46	0.0194041	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD	1:30:00 PM	1			1.94164	14:00:54	0.194164	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD	11:30:00 AM	1			1.29109	12:23:09	0.0129109	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD	1:30:00 PM	1			1.2911	14:03:33	0.077466	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD	9:30:00 AM	1			0.66417	10:14:58	0.2191761	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF	11:30:00 AM	1			1.02002	13:08:37	0.051001	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF	1:30:00 PM	1			1.02161	14:10:19	0.510805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/26/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY	9:30:00 AM	1			1.27203	11:14:28	0.0636015	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY	1:30:00 PM	1			111.76	13:55:49	111.76	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY	3:30:00 PM	1	111.867	11522301				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/26/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/26/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY	9:30:00 AM	1			78.8	10:15:10	0.788	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADDDK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADDDK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADDDK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADDDK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	CHFCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY	9:30:00 AM	1			109.617	11:04:48	1.09617	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY	1:30:00 PM	1			109.516	15:14:21	5.4758	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF	1:30:00 PM	1			1.13854	13:40:48	0.056927	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP	9:30:00 AM	1			0.86268	9:50:59	0.86268	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP	11:30:00 AM	1			0.86267	11:50:06	0.86267	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD	9:30:00 AM	1			1.11625	10:51:03	0.0111625	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD	11:30:00 AM	1			1.11574	11:39:26	0.0111574	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD	1:30:00 PM	1			1.11494	13:52:03	0.0111494	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD	1:30:00 PM	1			1.83315	13:40:56	0.0916575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY	9:30:00 AM	1			1.3176	10:10:27	0.013176	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD	9:30:00 AM	1			1.29418	10:15:47	0.323545	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD	11:30:00 AM	1			1.29332	13:10:12	0.9829232	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	GBPUSD	1:30:00 PM	1			1.29243	13:41:20	0.646215	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GOLD	9:30:00 AM	1	1283.79	2567.58				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GOLD	11:30:00 AM	1			1283.1	12:29:26	12.831	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD	1:30:00 PM	1			0.66635	13:41:00	0.0333175	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD	1:30:00 PM	1			1.34701	13:41:04	0.134701	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF	1:30:00 PM	1			1.0199	13:45:57	0.010199	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/29/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY	1:30:00 PM	1			111.76	14:43:51	1.1176	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USD SGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	XAUUSD	9:30:00 AM	1			1281.7	11:24:25	140.987	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/29/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/29/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	AUDUSD	9:30:00 AM	1			1429.99	10:26:27	28.5998	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF	9:30:00 AM	1			0.75616	10:25:39	0.037808	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	CADCHF	11:30:00 AM	1			0.75855	13:07:18	0.0379275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY	1:30:00 PM	1			82.73	14:46:39	8.273	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	CHF MXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP	9:30:00 AM	1			0.86298	11:23:17	0.0172596	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	EURGBP	11:30:00 AM	1			0.85859	13:00:00	0.0171718	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP	1:30:00 PM	1			0.86214	13:58:33	0.86214	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY	11:30:00 AM	1			124.885	12:33:40	6.24425	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD	9:30:00 AM	1	1.11818	559.09	1.11865	10:01:55	0.0111865	Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	EURUSD	11:30:00 AM	1	1.120411667	1826.271	1.12026	11:43:04	0.056013	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD	1:30:00 PM	1			1.12123	14:12:33	0.1345476	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD	9:30:00 AM	1			1.84	11:15:42	4.2136	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY	9:30:00 AM	1			144.1	10:33:05	2.882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY	1:30:00 PM	1			144.708	13:48:07	2.89416	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD	11:30:00 AM	1			1.94466	12:21:16	0.0194466	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD	1:30:00 PM	1			1.94787	14:25:03	1.94787	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD	9:30:00 AM	1			1.29449	10:04:58	0.647245	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD	11:30:00 AM	1			1.29783	12:05:18	1.29783	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD	1:30:00 PM	1			1.3	13:51:58	0.013	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GOLD	9:30:00 AM	1			1284.04	10:49:59	12.8404	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY	9:30:00 AM	1			74.272	10:21:01	0.74272	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY	11:30:00 AM	1			74.337	12:21:25	0.74337	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD	1:30:00 PM	1			1.34324	15:07:25	0.67162	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD	3:30:00 PM	1	1.34523	108963.63				Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF	9:30:00 AM	1			1.01846	11:16:49	0.0101846	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF	11:30:00 AM	1	1.01753	1017.53				Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



4/30/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	USDJPY	9:30:00 AM	1			111.338	11:21:15	11.1338	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY	1:30:00 PM	1			111.253	14:14:17	1.11253	Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

4/30/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
4/30/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CL.f	11:30:00 AM	1			63.55	12:37:20	0.6355	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD	9:30:00 AM	1			0.70567	10:59:05	0.0070567	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	CHFJPY	11:30:00 AM	1			109.671	13:21:13	5.48355	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF	11:30:00 AM	1			1.14186	12:36:28	0.0456744	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP	9:30:00 AM	1			0.85945	11:22:00	0.0085945	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY	11:30:00 AM	1			125.152	12:49:25	62.576	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD	9:30:00 AM	1			1.12203	10:06:28	0.0112203	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD	11:30:00 AM	1			1.12278	11:50:41	0.112278	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD	1:30:00 PM	1			1.12315	14:32:32	0.0112315	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD	1:30:00 PM	1			1.85372	13:56:54	0.0370744	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY	9:30:00 AM	1			145.543	10:51:30	109.15725	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY	11:30:00 AM	1			145.496	12:02:26	290.992	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD	9:30:00 AM	1			1.30374	9:47:46	0.325935	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD	11:30:00 AM	1			0.88229	11:39:08	0.0088229	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD	1:30:00 PM	1			1.30669	13:36:06	0.2352042	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GOLD	9:30:00 AM	1			1280	10:16:14	25.6	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GOLD	1:30:00 PM	1			1281.95	14:08:57	25.639	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF	1:30:00 PM	1			0.67633	14:14:50	0.1014495	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SPX500.i	1:30:00 PM	1			2956.64	14:14:25	2956.64	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD	9:30:00 AM	1			1.33875	10:00:00	0.0133875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF	11:30:00 AM	1			1.017	12:00:30	0.01017	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/1/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/1/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/1/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CL.f	11:30:00 AM	1			62.98	13:12:26	0.6298	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD	1:30:00 PM	1			0.70153	15:26:12	0.0140306	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP	9:30:00 AM	1			0.85747	10:16:34	0.2143675	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD	9:30:00 AM	1			1.11974	9:40:08	0.0111974	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD	11:30:00 AM	1			1.12126	11:51:04	0.0112126	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD	1:30:00 PM	1			1.12008	13:50:42	0.0224016	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD	11:30:00 AM	1			1.75403	13:18:13	0.0350806	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY	9:30:00 AM	1	145.561	10917075	145.611	10:21:37	7.28055	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY	11:30:00 AM	1			145.569	11:59:20	145.569	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY	1:30:00 PM	1			145.433	14:09:21	109.07475	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD	9:30:00 AM	1			1.96958	9:55:13	0.0196958	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD	9:30:00 AM	1			1.30617	10:17:59	0.0130617	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD	11:30:00 AM	1			1.33176	13:00:17	0.133176	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD	1:30:00 PM	1			1.34663	14:00:25	0.0134663	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD	3:30:00 PM	1	1.30471	130.471				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD	9:30:00 AM	1	1.34325	2686.5				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF	11:30:00 AM	1			1.01973	13:08:23	0.101973	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/2/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY	9:30:00 AM	1			0.71478	9:56:59	0.0071478	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/2/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/2/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Bitcoin	1:30:00 PM	1			5981.61	14:58:29	598.161	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD	11:30:00 AM	1			0.69958	12:30:40	0.069958	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY	11:30:00 AM	1			82.805	13:02:58	0.82805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY	9:30:00 AM	1			109.323	10:31:07	5.46615	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY	11:30:00 AM	1			109.197	12:15:08	10.9197	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF	11:30:00 AM	1			1.13887	12:56:15	0.113887	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF	1:30:00 PM	1	1.13883	569.415	1.13803	14:52:06	0.113803	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP	11:30:00 AM	1			0.85859	13:00:00	0.0171718	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP	1:30:00 PM	1			1.12326	14:16:14	0.0224652	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY	9:30:00 AM	1			124.507	11:26:12	8.71549	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD	11:30:00 AM	1			1.68703	12:15:10	0.0843515	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD	1:30:00 PM	1	1.68697	35595.067				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD	9:30:00 AM	1			1.11635	10:04:36	0.0558175	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD	11:30:00 AM	1	1.11641	11.1641	1.11632	11:44:05	0.055816	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD	1:30:00 PM	1	1.11563	1785.008	0.99886	14:01:54	0.898974	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD	3:30:00 PM	1	1.113665	2271.8766				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD	9:30:00 AM	1			137.086	9:59:11	479.801	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD	1:30:00 PM	1	1.85694	185.694	1.85802	14:57:24	3.623139	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD	11:30:00 AM	1			1.75121	12:13:42	0.0875605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD	1:30:00 PM	1			1.7508	13:44:56	0.08754	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY	9:30:00 AM	1			1.26693	9:55:51	0.0253386	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	GBPJPY	11:30:00 AM	1			145.006	12:18:44	11.60048	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY	1:30:00 PM	1			1.11382	14:32:06	0.0111382	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD	9:30:00 AM	1			1.33875	10:00:00	0.0133875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD	11:30:00 AM	1			1.3005	12:26:56	0.13005	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD	1:30:00 PM	1	1.299625	54064.4	1.13096	13:45:45	0.0113096	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	NZDCAD	1:30:00 PM	1			0.89096	15:06:18	0.044548	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD	9:30:00 AM	1			0.6614	10:10:21	0.006614	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD	1:30:00 PM	1			0.66145	15:17:12	0.066145	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD	11:30:00 AM	1			1.3465	13:19:41	0.13465	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD	1:30:00 PM	1	1.34683	1346.83				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD	3:30:00 PM	1	1.3485	1348.5				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/3/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF	9:30:00 AM	1			1.02027	11:28:26	0.0102027	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY	9:30:00 AM	1			123.852	11:04:01	1.23852	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY	11:30:00 AM	1			111.521	11:32:36	5.57605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY	1:30:00 PM	1			1.11311	15:16:19	0.0111311	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY	3:30:00 PM	1	111.643	6720908.6				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK	11:30:00 AM	1			9.5848	12:49:45	0.095848	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/3/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	XAUUSD	11:30:00 AM	1			1270.62	13:09:06	12.7062	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	XAUUSD	1:30:00 PM	1			1.26879	14:35:50	0.1141911	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/3/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD	11:30:00 AM	1			1.05572	11:37:45	0.158358	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD	1:30:00 PM	1	0.69878	698.78				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF	9:30:00 AM	1			0.75416	11:06:08	0.037708	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADDDK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADDDK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADDDK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADDDK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY	1:30:00 PM	1			108.792	13:58:53	10.8792	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF	9:30:00 AM	1			1.13751	10:54:58	0.0568755	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP	9:30:00 AM	1			0.85291	9:58:34	0.85291	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP	1:30:00 PM	1			0.85603	15:00:00	0.085603	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY	9:30:00 AM	1			123.899	11:00:55	1.23899	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY	11:30:00 AM	1			145.569	11:59:20	145.569	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD	9:30:00 AM	1			1.11863	9:54:31	0.0111863	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD	11:30:00 AM	1			1.11969	12:44:11	0.0111969	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD	1:30:00 PM	1			1.11875	14:19:27	0.0335625	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD	9:30:00 AM	1			1.7672	10:30:48	0.26508	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD	1:30:00 PM	1			1.7655	14:17:31	0.264825	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY	9:30:00 AM	1			145.157	10:15:09	435.471	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY	1:30:00 PM	1			145.18	14:40:12	108.885	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD	9:30:00 AM	1			1.31236	11:09:54	0.0393708	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD	11:30:00 AM	1			1.31131	11:42:48	0.0131131	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD	1:30:00 PM	1			1.31051	13:35:03	1.1008284	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GOLD	1:30:00 PM	1			1280.63	14:44:39	12.8063	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD	1:30:00 PM	1			1.1269	14:40:15	1.1269	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/6/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD	9:30:00 AM	1			1.3479	10:53:38	0.067395	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD	1:30:00 PM	1			1.34806	15:15:10	0.0134806	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF	9:30:00 AM	1			0.69342	11:00:11	0.0554736	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF	11:30:00 AM	1			1.01738	11:59:21	0.0101738	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF	1:30:00 PM	1			1.01831	13:32:58	0.0101831	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY	1:30:00 PM	1			110.849	14:41:12	1.10849	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK	9:30:00 AM	1			9.5767	10:55:39	0.095767	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/6/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	XAUUSD	1:30:00 PM	1			1278.95	15:21:12	25.579	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/6/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Bitcoin	11:30:00 AM	1			6217.7	11:38:46	62.177	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD	9:30:00 AM	1			0.94392	10:51:18	0.0094392	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	AUDUSD	1:30:00 PM	1			0.70162	14:20:21	0.0070162	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHF SEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD	9:30:00 AM	1			1.50478	11:18:09	0.0150478	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF	9:30:00 AM	1			1.14068	10:28:17	0.0114068	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF	11:30:00 AM	1			1.14111	13:22:01	0.0114111	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP	1:30:00 PM	1			0.85603	15:00:00	0.085603	Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY	11:30:00 AM	1			123.792	12:02:24	6.1896	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY	1:30:00 PM	1			123.649	14:56:54	1.23649	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD	9:30:00 AM	1			1.69383	9:45:33	0.1185681	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD	1:30:00 PM	1			1.69514	15:08:30	0.084757	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD	9:30:00 AM	1			1.1202	10:49:49	0.05601	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD	11:30:00 AM	1			1.26121	12:01:48	0.0126121	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD	1:30:00 PM	1	1.12008	112.008	1.12461	14:14:54	0.0112461	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY	9:30:00 AM	1			144.876	11:04:22	2.89752	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY	11:30:00 AM	1			144.815	11:44:34	1.44815	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY	1:30:00 PM	1			144.7	14:15:15	2.894	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD	9:30:00 AM	1			1.98439	10:10:19	1.98439	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD	9:30:00 AM	1			1.31096	10:42:11	0.65548	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD	11:30:00 AM	1			1.30864	12:44:26	0.0130864	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD	1:30:00 PM	1	1.30838	10990.392	1.3075	14:39:37	0.013075	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GOLD	1:30:00 PM	1			1279.34	15:13:39	63.967	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY	11:30:00 AM	1			73.064	13:21:50	0.73064	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD	9:30:00 AM	1			0.66171	9:51:11	0.0066171	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD	1:30:00 PM	1			122.426	14:16:41	1.22426	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/7/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SPX500.i	11:30:00 AM	1			2921.39	12:03:03	2921.39	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD	1:30:00 PM	1			1.34684	15:09:23	0.67342	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF	1:30:00 PM	1			1.01925	13:57:29	0.0101925	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	USDJPY	1:30:00 PM	1			110.619	13:33:43	1.10619	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	XAUUSD	9:30:00 AM	1			0.99483	10:26:46	0.0099483	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/7/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/7/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CL.f	9:30:00 AM	1			61.64	10:54:32	0.6164	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CL.f	11:30:00 AM	1			61.56	11:51:01	0.6156	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CL.f	1:30:00 PM	1			61.42	14:24:35	1.2284	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF	1:30:00 PM	1			0.71248	13:45:19	0.0854976	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	AUDJPY	9:30:00 AM	1			77.309	10:39:01	3.86545	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY	11:30:00 AM	1			77.148	12:45:09	3.8574	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD	11:30:00 AM	1			0.70103	12:44:01	0.0140206	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY	11:30:00 AM	1			108.254	12:04:56	5.4127	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY	1:30:00 PM	1			108.002	15:24:22	5.4001	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD	1:30:00 PM	1			1.50746	15:05:50	0.0150746	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF	9:30:00 AM	1			1.14124	10:43:49	0.3880216	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP	9:30:00 AM	1			0.85806	9:42:06	0.0085806	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY	1:30:00 PM	1			81.564	13:53:36	0.81564	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD	9:30:00 AM	1			1.69967	10:16:05	0.0849835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD	1:30:00 PM	1			1.26503	13:54:57	0.0126503	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD	9:30:00 AM	1			1.12097	9:37:04	0.0112097	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD	11:30:00 AM	1			1.11994	11:41:05	0.0111994	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD	1:30:00 PM	1	1.11982	111.982	1.11968	13:34:02	0.0111968	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD	1:30:00 PM	1			1.75328	13:54:30	0.087664	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF	9:30:00 AM	1			1.32826	10:47:20	0.132826	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY	9:30:00 AM	1			143.722	11:23:06	7.1861	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY	11:30:00 AM	1			143.507	12:09:22	97.58476	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD	9:30:00 AM	1			1.30581	9:55:53	0.0130581	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD	11:30:00 AM	1			1.3035	12:16:14	0.013035	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD	1:30:00 PM	1			1.30057	13:39:31	0.0650285	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GOLD	11:30:00 AM	1			1289.41	12:54:54	12.8941	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	JP225.i	1:30:00 PM	1			21529.15	13:44:32	21529.15	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/8/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD	9:30:00 AM	1			1.34584	10:29:11	0.0134584	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD	11:30:00 AM	1			1.34784	13:07:33	0.943488	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD	1:30:00 PM	1			1.34662	15:00:52	0.067331	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF	11:30:00 AM	1	1.01758	1017.58				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY	9:30:00 AM	1			1.12069	10:01:57	0.1008621	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY	11:30:00 AM	1			110.098	12:14:01	44.0392	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY	1:30:00 PM	1			110.015	13:53:03	7.70105	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/8/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/8/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Bitcoin	9:30:00 AM	1			6264.3	10:54:41	62.643	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CL.f	1:30:00 PM	1			61.91	15:14:53	1.2382	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD	9:30:00 AM	1			0.94111	10:22:40	0.0470555	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF	9:30:00 AM	1			0.71066	10:22:28	0.71066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY	9:30:00 AM	1			76.478	10:50:48	0.76478	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD	9:30:00 AM	1			0.69679	11:11:47	0.0069679	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF	9:30:00 AM	1			1.14088	10:15:22	0.0114088	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF	1:30:00 PM	1			1.14002	14:20:26	0.0114002	Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP	9:30:00 AM	1			0.86093	11:23:35	0.0086093	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP	1:30:00 PM	1			0.8619	13:41:09	0.043095	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY	9:30:00 AM	1			123.05	9:43:22	6.1525	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD	9:30:00 AM	1			1.12011	10:06:03	0.0112011	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD	11:30:00 AM	1			1.26741	11:40:08	0.253482	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD	1:30:00 PM	1			1.11906	14:01:37	0.0111906	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD	3:30:00 PM	1	1.11972	111.972				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD	9:30:00 AM	1			1.75369	10:16:18	0.175369	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD	1:30:00 PM	1			1.75036	14:07:20	0.0525108	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF	9:30:00 AM	1			1.32748	9:39:03	0.132748	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF	11:30:00 AM	1			1.32219	11:41:14	0.0661095	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY	9:30:00 AM	1			142.879	10:15:58	10.00153	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY	11:30:00 AM	1			142.675	12:26:40	71.3375	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD	9:30:00 AM	1			1.30196	10:03:12	0.0260392	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	GBPUSD	11:30:00 AM	1			1.29853	11:32:51	1.29853	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD	1:30:00 PM	1			1.29844	13:35:25	1.29844	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GOLD	9:30:00 AM	1	1283.68	64.184				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/9/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD	9:30:00 AM	1			1.34887	9:37:53	0.0269774	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF	9:30:00 AM	1			1.01884	10:12:05	0.050942	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF	1:30:00 PM	1			1.0178	15:12:57	0.010178	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY	9:30:00 AM	1			109.679	10:25:25	43.8716	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK	9:30:00 AM	1			1.81521	10:32:06	0.0181521	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	XAUUSD	9:30:00 AM	1			1285	11:03:45	12.85	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/9/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/9/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY	1:30:00 PM	1	76.889	3844.45				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF	1:30:00 PM	1	0.75447	37.7235				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY	9:30:00 AM	1			81.618	10:16:00	4.0809	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY	11:30:00 AM	1			1.12456	12:32:21	0.0224912	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	CHF MXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF MXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF	9:30:00 AM	1			1.13902	10:46:14	0.0113902	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF	1:30:00 PM	1			1.13801	14:28:48	0.0113801	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF	3:30:00 PM	1	1.13681	11.3681				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	EURGBP	9:30:00 AM	1			0.86377	10:47:50	0.0086377	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY	9:30:00 AM	1			123.336	10:15:06	6.1668	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY	11:30:00 AM	1			123.367	12:15:36	6.16835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	EURUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD	11:30:00 AM	1			1.12304	12:01:29	0.0112304	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD	1:30:00 PM	1	1.12299	112.299	1.12289	13:40:52	0.0561445	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD	3:30:00 PM	1	1.1237	561.85				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD	9:30:00 AM	1			1.75046	10:53:12	0.175046	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF	1:30:00 PM	1			1.31793	15:11:20	0.0131793	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY	1:30:00 PM	1			142.775	15:11:47	1.42775	Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD	9:30:00 AM	1			1.30031	11:20:19	0.4160992	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD	11:30:00 AM	1	1.30225	4167.2	1.30074	12:13:24	0.0130074	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD	1:30:00 PM	1			1.30197	13:35:57	0.0650985	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY	9:30:00 AM	1			72.402	10:18:40	10.8603	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD	11:30:00 AM	1			0.6592	13:14:53	0.006592	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/10/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD	9:30:00 AM	1			0.88623	10:30:00	0.0177246	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD	1:30:00 PM	1			1.34663	14:00:25	0.0134663	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD	3:30:00 PM	1	1.34135	1341.35				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF	9:30:00 AM	1			1.01457	10:07:39	0.0507285	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	USDCHF	11:30:00 AM	1			1.01343	12:14:32	0.0506715	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF	1:30:00 PM	1			1.01327	14:54:42	0.0506635	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY	9:30:00 AM	1			109.79	9:44:54	7.6853	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY	11:30:00 AM	1			109.845	12:32:37	5.49225	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK	11:30:00 AM	1			9.6146	12:42:14	0.096146	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/10/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/10/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Bitcoin	11:30:00 AM	1			6217.7	11:38:46	62.177	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Bitcoin	1:30:00 PM	1			7242.7	14:51:38	7242.7	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD	9:30:00 AM	1			0.93625	10:23:54	0.11235	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD	11:30:00 AM	1			0.69813	11:49:28	0.069813	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD	1:30:00 PM	1			0.69693	15:00:01	0.0139386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF	1:30:00 PM	1			0.74902	15:21:03	0.0599216	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DAX30.i	9:30:00 AM	1			11970.85	10:47:05	11970.85	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD	11:30:00 AM	1			1.60954	12:40:14	0.080477	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF	11:30:00 AM	1			1.13373	11:33:31	0.0226746	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF	1:30:00 PM	1			1.13198	14:54:05	0.0226396	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP	1:30:00 PM	1			0.86265	14:00:01	0.017253	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD	11:30:00 AM	1			1.70495	12:37:22	0.0852475	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD	9:30:00 AM	1			1.12274	10:52:17	0.0898192	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD	11:30:00 AM	1			1.1233	11:44:50	0.022466	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD	1:30:00 PM	1			1.12341	14:09:36	0.0112341	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF	11:30:00 AM	1			1.31307	12:16:08	0.0656535	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY	9:30:00 AM	1			142.626	10:35:40	1.42626	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY	11:30:00 AM	1			142.718	12:14:48	428.154	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY	1:30:00 PM	1			142.74	13:39:27	428.22	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD	9:30:00 AM	1			1.1143	10:42:27	0.011143	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD	11:30:00 AM	1			1.30092	11:44:17	0.065046	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD	1:30:00 PM	1			1.30282	15:15:39	0.0130282	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GOLD	9:30:00 AM	1			0.86706	10:39:04	0.0520236	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/13/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD	9:30:00 AM	1			1.11472	10:35:44	0.0111472	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD	11:30:00 AM	1			0.65829	11:49:41	0.0065829	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD	1:30:00 PM	1			0.65792	13:45:03	0.0065792	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF	9:30:00 AM	1			1.01009	10:11:49	0.808072	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF	11:30:00 AM	1			1.00846	13:00:54	0.151269	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF	1:30:00 PM	1			1.11461	13:45:17	0.0334383	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY	1:30:00 PM	1			1.26916	15:10:59	0.0253832	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK	9:30:00 AM	1			126.531	10:00:17	1.26531	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/13/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	XAUUSD	9:30:00 AM	1			78.8	10:15:16	0.788	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/13/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Bitcoin	9:30:00 AM	1			8034.3	10:25:08	8034.3	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Bitcoin	11:30:00 AM	1			8156.9	11:36:29	12235.35	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Bitcoin	1:30:00 PM	1			8006.6	13:50:01	12009.9	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD	1:30:00 PM	1			1.05606	14:03:14	0.052803	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF	9:30:00 AM	1			1.11558	10:58:18	0.0111558	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY	9:30:00 AM	1			108.938	9:59:55	5.4469	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY	1:30:00 PM	1			0.89099	13:37:50	0.0089099	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF	11:30:00 AM	1			1.13241	13:12:03	0.0452964	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF	1:30:00 PM	1			1.13143	15:06:31	0.0113143	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP	11:30:00 AM	1			0.86718	13:26:41	0.0173436	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP	1:30:00 PM	1	0.867075	69.366	0.867	13:32:46	0.01734	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD	9:30:00 AM	1			1.12381	10:29:30	0.0112381	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD	11:30:00 AM	1			1.12407	12:02:46	0.0112407	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD	1:30:00 PM	1			1.12309	13:43:32	0.0224618	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD	9:30:00 AM	1			1.74212	10:53:10	0.1045272	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF	9:30:00 AM	1			1.30362	10:01:45	0.065181	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY	11:30:00 AM	1			142.088	12:27:47	284.176	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD	11:30:00 AM	1			1.96807	13:19:57	0.0984035	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD	9:30:00 AM	1			1.29526	9:42:58	0.0259052	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD	11:30:00 AM	1			1.122	12:14:22	0.1122	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GOLD	9:30:00 AM	1			1298.45	9:38:32	12.9845	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GOLD	11:30:00 AM	1			1297.92	12:38:58	12.9792	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY	9:30:00 AM	1			72.305	10:20:44	3.61525	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SILVER	9:30:00 AM	1			1.11416	9:32:58	0.0111416	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	UK100.i	9:30:00 AM	1			7196.87	9:38:49	7196.87	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD	9:30:00 AM	1			1.34702	11:04:04	0.0134702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF	9:30:00 AM	1			1.00787	10:46:05	0.1108657	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF	11:30:00 AM	1			1.00804	13:12:13	0.0201608	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY	9:30:00 AM	1			1.11432	9:52:56	0.0111432	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY	11:30:00 AM	1			109.627	11:39:37	109.627	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/14/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/14/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/14/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY	9:30:00 AM	1			75.824	10:39:48	0.75824	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD	11:30:00 AM	1			0.69181	13:26:40	0.0138362	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD	1:30:00 PM	1			0.69184	14:00:03	0.0138368	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY	9:30:00 AM	1			108.82	10:42:47	1.0882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY	11:30:00 AM	1			108.542	13:21:31	108.542	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD	9:30:00 AM	1			1.61911	10:56:36	0.0161911	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD	1:30:00 PM	1			1.61753	14:29:55	0.1294024	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD	1:30:00 PM	1			1.50771	15:02:14	0.150771	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP	9:30:00 AM	1			0.86834	10:08:17	0.0173668	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP	11:30:00 AM	1	0.868354	86.8354	0.86823	11:35:49	0.0173646	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP	1:30:00 PM	1	0.86778	52.0668	0.86772	13:32:27	0.0173544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP	3:30:00 PM	1	0.86955	86.955				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY	11:30:00 AM	1			1401.49	12:26:34	0	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY	1:30:00 PM	1			122.426	14:16:41	1.22426	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD	11:30:00 AM	1			1.7089	12:26:19	0.085445	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD	1:30:00 PM	1			109.864	15:02:32	1.09864	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD	9:30:00 AM	1			1.12047	10:17:04	0.0112047	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD	11:30:00 AM	1			1.12142	11:53:49	0.112142	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD	1:30:00 PM	1			0.86754	13:35:40	0.0173508	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD	1:30:00 PM	1			1.73803	14:37:26	0.0521409	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF	9:30:00 AM	1			1.29971	10:14:04	0.0129971	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY	1:30:00 PM	1			140.931	14:45:57	2.81862	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY	3:30:00 PM	1	140.549	281098				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	GBPNZD	11:30:00 AM	1			1.96901	12:26:04	0.0984505	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD	11:30:00 AM	1			1.29158	12:21:14	0.129158	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD	1:30:00 PM	1			1.12806	14:48:43	0.056403	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY	1:30:00 PM	1			0.86812	15:14:11	0.0173624	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD	1:30:00 PM	1			0.65518	13:44:28	0.0065518	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD	11:30:00 AM	1			1.3363	12:49:15	1.349663	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD	1:30:00 PM	1			1.34723	14:28:47	0.943061	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY	1:30:00 PM	1			109.379	14:45:40	8.75032	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY	3:30:00 PM	1	109.263	174820.8				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/15/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/15/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/15/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Bitcoin	9:30:00 AM	1			1.12443	9:53:43	0.0112443	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#CL.f	9:30:00 AM	1			62.75	11:28:18	0.6275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CL.f	1:30:00 PM	1			63.05	15:20:36	0.6305	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ethereum	9:30:00 AM	1			261.97	10:50:55	5.2394	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY	9:30:00 AM	1			75.702	9:40:13	0.75702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY	1:30:00 PM	1			75.965	14:17:43	3.79825	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD	11:30:00 AM	1			1.05245	12:36:43	0.526225	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	BCHUSD	9:30:00 AM	1			428.47	11:06:59	4.2847	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	CHFCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD	1:30:00 PM	1			1.61878	14:00:49	0.890329	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF	1:30:00 PM	1			1.13058	15:23:33	0.056529	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP	1:30:00 PM	1			0.87381	13:57:57	0.0436905	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY	9:30:00 AM	1			122.669	9:41:18	1.22669	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD	9:30:00 AM	1	1.12029	33.6087	1.12105	9:45:03	0.089684	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD	11:30:00 AM	1			1.12176	11:33:36	0.1233936	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD	1:30:00 PM	1			1.1207	14:29:35	0.179312	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD	9:30:00 AM	1			1.85885	9:41:46	0.0185885	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD	11:30:00 AM	1			107.697	12:13:27	2.15394	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD	11:30:00 AM	1			1.28427	11:43:29	0.0642135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY	1:30:00 PM	1			11478.65	13:42:44	229.573	Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD	1:30:00 PM	1			0.65746	13:43:22	0.0065746	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD	11:30:00 AM	1			1.34075	13:21:47	0.0134075	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY	1:30:00 PM	1			0.8668	15:24:57	0.060676	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/16/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/16/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/16/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Bitcoin	1:30:00 PM	1			81.477	15:07:24	0.81477	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CL.f	9:30:00 AM	1			121.25	10:15:04	36.375	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CL.f	11:30:00 AM	1			63.16	11:54:24	0.6316	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD	9:30:00 AM	1			0.68841	11:15:10	0.0068841	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	AUDUSD	11:30:00 AM	1			0.68806	12:07:18	0.068806	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF	9:30:00 AM	1			0.74852	11:12:19	0.0074852	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF	11:30:00 AM	1			0.74887	12:47:08	0.0374435	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY	11:30:00 AM	1			1.12082	12:47:12	0.0112082	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY	11:30:00 AM	1			108.532	12:29:43	108.532	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHF SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD	9:30:00 AM	1			1.62239	9:34:23	0.162239	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD	1:30:00 PM	1			1.50792	15:12:12	1.50792	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP	9:30:00 AM	1			0.87472	10:02:58	0.043736	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	EURGBP	1:30:00 PM	1			0.87614	14:50:40	0.0350456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY	1:30:00 PM	1			122.444	13:42:40	61.222	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD	9:30:00 AM	1			1.11833	10:02:59	0.0111833	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD	11:30:00 AM	1			1.11769	11:37:48	0.0111769	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	EURUSD	1:30:00 PM	1			0.86772	13:32:27	0.0173544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD	3:30:00 PM	1	1.11671	33.5013				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD	11:30:00 AM	1			1.12123	12:47:03	0.0112123	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY	11:30:00 AM	1			1.11387	11:32:18	0.0111387	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY	1:30:00 PM	1			139.531	14:51:14	2.79062	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD	11:30:00 AM	1			1.27695	12:24:17	0.127695	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD	1:30:00 PM	1	1.275306667	4208.512	1.27578	13:56:48	0.1403358	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD	11:30:00 AM	1			1.3155	12:07:22	0.013155	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD	1:30:00 PM	1			0.87452	13:33:40	0.0087452	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD	9:30:00 AM	1			1.34736	11:15:56	1.34736	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD	11:30:00 AM	1			1.34851	12:04:22	0.269702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD	1:30:00 PM	1			1.3487	13:43:27	0.40461	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF	9:30:00 AM	1			1.2675	9:59:27	0.0507	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF	11:30:00 AM	1			1.00958	12:09:36	0.0100958	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF	1:30:00 PM	1			1.01058	14:16:35	0.0101058	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY	9:30:00 AM	1			109.712	11:05:25	9.87408	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY	1:30:00 PM	1			109.61	14:30:52	18.6337	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK	11:30:00 AM	1			1.3363	12:49:15	1.349663	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK	1:30:00 PM	1			9.6415	14:10:48	0.096415	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/17/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/17/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/17/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Bitcoin	9:30:00 AM	1			7875.5	10:00:11	78.755	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CL.f	9:30:00 AM	1			1.12275	9:42:14	0.0112275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CL.f	11:30:00 AM	1			63.35	11:47:46	0.6335	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CL.f	1:30:00 PM	1			63.06	13:41:37	0.6306	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ethereum	11:30:00 AM	1			249.64	12:26:27	2.4964	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NG.f	1:30:00 PM	1			2.68	14:01:53	0.0268	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD	9:30:00 AM	1			0.93059	10:21:57	0.93059	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD	9:30:00 AM	1			0.69342	11:00:07	0.0554736	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD	11:30:00 AM	1			0.86748	12:00:17	0.0260244	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY	9:30:00 AM	1			82.031	10:49:00	82.031	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY	11:30:00 AM	1			108.986	12:21:05	1.08986	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF	11:30:00 AM	1			1.12631	13:07:05	0.0112631	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF	1:30:00 PM	1			1.12626	13:37:59	0.0112626	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP	9:30:00 AM	1			1.12781	10:54:34	0.563905	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY	11:30:00 AM	1			122.878	11:36:17	61.439	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD	9:30:00 AM	1			1.11565	9:53:39	0.0111565	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD	11:30:00 AM	1			0.89056	11:38:21	0.089056	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD	1:30:00 PM	1			1.11548	14:03:22	0.0111548	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD	9:30:00 AM	1			1.12287	11:23:47	0.0112287	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD	9:30:00 AM	1	1.7101	17.101	1.26693	9:55:51	0.0253386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF	9:30:00 AM	1			1.2877	10:04:01	0.25754	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF	11:30:00 AM	1			0.65457	11:35:20	0.65457	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD	9:30:00 AM	1			1.94677	10:38:58	0.194677	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD	9:30:00 AM	1			1.27275	9:38:22	0.025455	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD	11:30:00 AM	1			1.27501	11:34:30	1.2622599	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD	1:30:00 PM	1			1.27439	15:07:07	0.0509756	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD.fx	9:30:00 AM	1			1.27466	10:39:28	1.2874066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD.fx	11:30:00 AM	1			1.27531	11:35:22	1.2880631	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD.fx	1:30:00 PM	1			1.27426	14:48:35	1.2870026	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY	11:30:00 AM	1			71.889	13:21:48	0.71889	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD	11:30:00 AM	1			1.34399	13:04:55	0.0134399	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF	9:30:00 AM	1			1.01099	10:26:31	0.0101099	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF	11:30:00 AM	1			1.00997	11:39:49	0.0100997	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF	1:30:00 PM	1			1.00974	13:47:53	0.0100974	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY	9:30:00 AM	1			110.097	10:48:51	110.097	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY	11:30:00 AM	1	110.157	33047.1	110.052	13:05:19	1.10052	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY	1:30:00 PM	1			109.909	14:08:10	18.68453	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/20/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/20/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/20/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CL.f	11:30:00 AM	1			63.2	12:03:16	0.632	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CL.f	1:30:00 PM	1			63.61	14:33:17	0.6361	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY	9:30:00 AM	1			75.601	10:26:26	0.75601	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY	1:30:00 PM	1			75.794	13:35:06	0.75794	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD	11:30:00 AM	1			0.68846	12:54:10	0.413076	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD	1:30:00 PM	1			0.6878	13:36:48	0.006878	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF	9:30:00 AM	1			0.75407	9:46:26	0.75407	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY	1:30:00 PM	1			82.301	15:10:49	82.301	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD	11:30:00 AM	1			1.57798	12:09:57	0.0157798	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF	11:30:00 AM	1			1.12617	12:41:17	0.0112617	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	EURCHF	1:30:00 PM	1			1.12721	15:18:11	0.0112721	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP	9:30:00 AM	1			1.11563	9:40:01	0.0111563	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP	11:30:00 AM	1			0.87781	11:47:11	0.0087781	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP	1:30:00 PM	1			0.87601	15:14:04	0.0087601	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY	9:30:00 AM	1			122.74	10:23:10	12.274	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY	11:30:00 AM	1			122.672	11:47:28	122.672	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY	1:30:00 PM	1			0.86265	14:00:01	0.017253	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD	9:30:00 AM	1			1.71328	11:05:00	0.0171328	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD	9:30:00 AM	1	1.11473	222.946	1.11498	9:32:28	0.0111498	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD	11:30:00 AM	1			1.11444	11:35:09	0.0111444	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD	1:30:00 PM	1			1.11489	13:34:04	0.0334467	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD	1:30:00 PM	1			1.85071	15:12:15	0.0925355	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD	9:30:00 AM	1			1.7051	10:25:45	0.017051	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD	1:30:00 PM	1			1.70391	13:34:49	0.0170391	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY	9:30:00 AM	1			139.835	10:57:51	370.56275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY	11:30:00 AM	1			139.757	12:05:49	36.33682	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY	1:30:00 PM	1			140.673	15:20:46	14.0673	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD	9:30:00 AM	1			1.95105	10:30:54	0.195105	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD	1:30:00 PM	1			111.979	15:02:06	34.71349	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	GBPUSD	9:30:00 AM	1			1.27105	9:45:06	0.025421	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD	11:30:00 AM	1			1.26948	12:09:13	0.0126948	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD	1:30:00 PM	1			1.26945	14:01:30	0.380835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD	3:30:00 PM	1	1.27401	127.401				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD	11:30:00 AM	1			0.65051	11:40:39	0.0065051	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD	1:30:00 PM	1			0.65	13:33:10	0.0065	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD	9:30:00 AM	1			1.34249	9:45:13	0.0134249	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD	1:30:00 PM	1			1.34106	13:55:15	0.0134106	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF	9:30:00 AM	1			1.11412	9:32:56	0.0111412	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF	11:30:00 AM	1			1.00996	12:05:50	0.0100996	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF	1:30:00 PM	1			1.11352	13:41:53	0.0111352	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY	9:30:00 AM	1			110.19	9:34:47	1.1019	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY	1:30:00 PM	1			110.327	13:55:08	1.10327	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/21/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/21/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/21/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CL.f	9:30:00 AM	1			62.57	9:36:59	0.6257	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD	9:30:00 AM	1			0.68879	11:17:19	0.0275516	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD	9:30:00 AM	1			1.62242	9:52:21	0.730089	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF	1:30:00 PM	1			1.12583	14:33:16	0.0112583	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP	9:30:00 AM	1			0.87993	10:03:56	0.0087993	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP	11:30:00 AM	1			0.88146	12:38:05	0.0088146	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP	1:30:00 PM	1			0.88208	14:11:14	0.0705664	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY	9:30:00 AM	1			0.97313	10:15:00	0.0097313	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY	11:30:00 AM	1			123.233	11:37:30	123.233	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY	3:30:00 PM	1	123.258	1232580				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD	9:30:00 AM	1			0.98272	10:05:01	0.0196544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD	11:30:00 AM	1			1.11702	12:40:37	0.0111702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD	1:30:00 PM	1			1.11675	14:29:09	0.0111675	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD	9:30:00 AM	1			1.70012	10:02:05	0.0170012	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD	11:30:00 AM	1			1.69725	12:08:40	0.0169725	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY	9:30:00 AM	1			1.30774	10:00:04	0.65387	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	GBPJPY	1:30:00 PM	1			139.606	14:17:00	439.7589	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD	9:30:00 AM	1			1.95093	10:03:16	0.195093	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD	11:30:00 AM	1			1.94778	12:08:33	0.0194778	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD	9:30:00 AM	1			1.26942	9:35:40	0.0126942	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD	11:30:00 AM	1	1.267475	887.2325	1.26824	11:38:42	0.0887768	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD	1:30:00 PM	1			111.253	14:14:17	1.11253	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD	9:30:00 AM	1			1.34077	10:20:16	0.134077	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD	11:30:00 AM	1			1.33958	12:10:40	1.33958	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD	1:30:00 PM	1			1.33867	13:55:34	1.33867	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	USDCHF	9:30:00 AM	1			1.11968	11:27:54	0.0111968	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF	1:30:00 PM	1			1.00873	14:16:53	0.0100873	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY	9:30:00 AM	1			75.702	9:40:13	0.75702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY	11:30:00 AM	1	110.448	474926.4	1.12321	12:25:21	0.0112321	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY	1:30:00 PM	1			110.364	15:09:34	18.76188	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/22/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK	11:30:00 AM	1			1.12315	12:12:42	0.0112315	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/22/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/22/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD	11:30:00 AM	1			0.92552	12:31:28	0.555312	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD	9:30:00 AM	1			0.6875	10:56:11	0.34375	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF	1:30:00 PM	1			0.74773	15:15:18	0.0523411	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY	9:30:00 AM	1			0.86838	10:08:51	0.0173676	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD	9:30:00 AM	1			1.62186	11:25:34	0.162186	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD	11:30:00 AM	1			1.62121	11:56:13	0.7295445	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	EURAUD	1:30:00 PM	1			1.62027	14:30:12	0.810135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF	9:30:00 AM	1			1.12411	11:23:08	0.112411	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF	1:30:00 PM	1			1.12313	14:42:50	0.0112313	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY	9:30:00 AM	1			1.35451	10:06:49	1.35451	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY	11:30:00 AM	1			122.516	12:53:07	1.22516	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY	1:30:00 PM	1			122.546	13:39:57	1.22546	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD	9:30:00 AM	1			0.98272	10:05:01	0.0196544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD	9:30:00 AM	1			1.11431	9:33:48	0.0111431	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD	11:30:00 AM	1	1.11349	668.094	1.11423	11:45:41	0.0111423	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD	1:30:00 PM	1			1.11368	13:54:52	0.0111368	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD	9:30:00 AM	1			1.69715	10:37:52	0.0169715	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD	11:30:00 AM	1			1.698	11:38:54	0.01698	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY	9:30:00 AM	1	139.451	13945.1	1405.77	9:38:58	14.0577	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY	1:30:00 PM	1			139.098	13:37:43	6.9549	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD	9:30:00 AM	1	1.26378	6192.522	1.26296	9:33:53	0.0126296	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD	11:30:00 AM	1			1.26123	11:36:27	0.0126123	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD	1:30:00 PM	1			1.26503	13:54:57	0.0126503	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD	3:30:00 PM	1	1.26449	126.449				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GOLD	1:30:00 PM	1			1277.62	14:05:18	63.881	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY	11:30:00 AM	1			71.495	12:23:53	0.71495	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD	9:30:00 AM	1			0.8661	10:04:09	0.8661	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY	9:30:00 AM	1			110.277	9:47:52	27.56925	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY	11:30:00 AM	1			110.16	11:40:04	1.1016	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY	1:30:00 PM	1			110.132	14:15:10	49.5594	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/23/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/23/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	XAUUSD	1:30:00 PM	1			1.3169	14:00:17	0.013169	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/23/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ethereum	9:30:00 AM	1			1.1148	10:04:28	0.011148	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NG.f	1:30:00 PM	1			2.579	15:09:04	0.02579	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY	11:30:00 AM	1			75.563	12:43:48	151.126	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD	9:30:00 AM	1			0.68946	10:07:38	0.068946	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD	1:30:00 PM	1			0.712	13:52:22	0.712	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF	11:30:00 AM	1			0.7455	12:01:37	0.007455	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DAX30.i	11:30:00 AM	1			12042.67	11:33:19	12042.67	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD	9:30:00 AM	1			1.6243	9:48:42	0.48729	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD	1:30:00 PM	1			1.62144	14:52:17	0.486432	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF	9:30:00 AM	1			1.12201	10:28:06	0.0112201	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF	11:30:00 AM	1			1.12188	11:46:43	0.112188	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF	1:30:00 PM	1			1.12135	15:06:43	0.336405	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP	11:30:00 AM	1			0.88235	11:36:33	0.088235	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP	1:30:00 PM	1			0.88197	14:17:49	0.352788	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY	9:30:00 AM	1			122.702	9:39:06	36.8106	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	EURJPY	11:30:00 AM	1			122.743	13:17:21	18.41145	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD	9:30:00 AM	1	1.12032	336.096	109.499	9:36:25	1.09499	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD	11:30:00 AM	1	1.11929	895.432	1.11839	12:11:05	0.0894712	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD	3:30:00 PM	1	1.11981	4255.278				Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD	11:30:00 AM	1			1.84021	12:04:07	0.0184021	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	GBPCAD	11:30:00 AM	1			1.70827	12:03:48	0.0170827	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD	1:30:00 PM	1			1.70454	14:39:39	0.0170454	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF	9:30:00 AM	1			1.27034	10:36:55	0.0254068	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF	11:30:00 AM	1			1.27265	12:03:55	0.0127265	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY	9:30:00 AM	1			138.851	9:59:15	1.38851	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY	11:30:00 AM	1			139.025	12:03:41	1.39025	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY	1:30:00 PM	1			1.12672	15:10:48	0.0112672	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD	11:30:00 AM	1			1.94425	12:04:00	0.0194425	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD	9:30:00 AM	1			1.26875	9:37:51	0.0126875	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD	11:30:00 AM	1			1.26802	11:34:27	0.507208	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD	1:30:00 PM	1			1.26992	13:39:13	0.253984	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD	11:30:00 AM	1			0.87902	12:02:57	0.087902	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF	1:30:00 PM	1	0.65639	131.278				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY	11:30:00 AM	1			1.11528	13:08:38	0.0111528	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD	9:30:00 AM	1			0.65274	9:42:07	0.0065274	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD	11:30:00 AM	1			0.65306	12:28:25	0.0065306	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD	9:30:00 AM	1			1.3447	11:06:53	0.13447	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD	11:30:00 AM	1			1.26935	13:01:06	0.50774	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY	9:30:00 AM	1			109.5	9:36:00	10.95	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY	11:30:00 AM	1			109.618	12:28:37	1.09618	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY	1:30:00 PM	1			81.477	15:07:24	0.81477	Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/24/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	XAUUSD	9:30:00 AM	1			0.65454	10:48:54	0.196362	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/24/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/24/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Bitcoin	9:30:00 AM	1			108.298	9:53:47	1.08298	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Bitcoin	1:30:00 PM	1			0.71111	15:11:06	0.0071111	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ethereum	11:30:00 AM	1			267.96	11:45:04	267.96	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NG.f	1:30:00 PM	1			2.597	14:42:44	0.02597	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD	11:30:00 AM	1			1.05702	12:53:38	0.052851	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD	9:30:00 AM	1			0.69327	10:11:56	0.207981	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD	11:30:00 AM	1			0.69255	11:44:31	0.2423925	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF	1:30:00 PM	1			1.12558	15:10:53	0.112558	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP	9:30:00 AM	1			0.87938	10:14:20	0.2726078	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP	11:30:00 AM	1			1.28427	11:43:29	0.0642135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP	1:30:00 PM	1			0.88189	14:15:40	0.440945	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY	11:30:00 AM	1			122.596	11:43:17	24.5192	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY	1:30:00 PM	1			122.534	13:41:34	122.534	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD	9:30:00 AM	1			1.11995	10:28:16	0.22399	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD	11:30:00 AM	1			1.11933	11:32:09	1.11933	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD	1:30:00 PM	1			1.11933	14:32:52	0.0111933	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF	11:30:00 AM	1			1.27407	13:27:07	0.0127407	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY	9:30:00 AM	1			139.408	10:51:24	13.9408	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY	11:30:00 AM	1			138.832	13:09:46	2.77664	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY	1:30:00 PM	1			138.979	14:16:38	500.3244	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	GBPNZD	9:30:00 AM	1			1.94312	10:27:05	0.194312	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD	11:30:00 AM	1			1.9413	12:02:52	0.19413	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD	9:30:00 AM	1			1.27393	9:51:44	0.0509572	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD	11:30:00 AM	1	1.27171	12717.1	1.27092	11:56:27	1.27092	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD	1:30:00 PM	1			1.26905	14:15:24	1.26905	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD	9:30:00 AM	1			0.65454	10:48:54	0.196362	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD	11:30:00 AM	1			0.65457	11:35:20	0.65457	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD	1:30:00 PM	1			0.6545	14:33:29	0.006545	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD	9:30:00 AM	1			1.34363	10:01:43	0.671815	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD	11:30:00 AM	1			121.423	11:47:41	97.1384	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD	1:30:00 PM	1			1.34501	14:57:52	0.0134501	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF	9:30:00 AM	1			1.00476	11:04:28	0.100476	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF	11:30:00 AM	1			111.521	11:32:36	5.57605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/27/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY	11:30:00 AM	1			1.67502	12:51:08	0.0167502	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK	9:30:00 AM	1			9.5491	11:14:49	0.095491	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	USDSEK	11:30:00 AM	1			9.5605	13:07:30	0.095605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/27/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/27/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY	9:30:00 AM	1			75.673	11:06:12	22.7019	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY	11:30:00 AM	1	75.613	1512260				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD	9:30:00 AM	1			0.69216	11:08:16	0.276864	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADDDK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADDDK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADDDK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADDDK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	CHFCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD	9:30:00 AM	1			1.61419	9:39:36	0.0161419	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF	9:30:00 AM	1			1.12321	11:06:37	0.336963	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP	9:30:00 AM	1			0.88404	11:05:40	0.176808	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP	1:30:00 PM	1			0.86769	13:32:28	0.0173538	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD	9:30:00 AM	1			1.11827	9:50:46	0.0559135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD	11:30:00 AM	1			1.119	11:34:53	0.01119	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD	1:30:00 PM	1			1.11882	13:59:19	0.0111882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF	1:30:00 PM	1			1.27303	14:32:38	0.0127303	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY	9:30:00 AM	1			138.99	9:46:58	500.364	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY	11:30:00 AM	1			138.488	12:06:34	425.15816	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY	1:30:00 PM	1			138.528	14:31:09	41.5584	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD	9:30:00 AM	1			1.2682	9:35:02	0.050728	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD	11:30:00 AM	1			1.26778	12:36:09	0.0126778	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	GBPUSD	1:30:00 PM	1	1.26673	126.673	1.11989	13:48:34	0.111989	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY	9:30:00 AM	1			71.805	9:42:11	0.71805	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD	9:30:00 AM	1			0.65521	11:06:28	0.196563	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD	1:30:00 PM	1			0.65433	15:29:39	0.327165	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SPX500.i	11:30:00 AM	1			2822.49	13:20:49	2822.49	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SPX500.i	1:30:00 PM	1			2832.29	14:58:56	2832.29	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD	9:30:00 AM	1			1.34475	11:09:28	1.3581975	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD	11:30:00 AM	1			1.34542	11:32:08	1.34542	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF	9:30:00 AM	1			1.00392	11:07:09	0.602352	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF	1:30:00 PM	1	1.00392	100.392	1.00479	14:16:37	0.0100479	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/28/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY	9:30:00 AM	1			109.417	10:16:21	1.09417	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY	11:30:00 AM	1			109.278	11:32:23	1.09278	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY	1:30:00 PM	1			109.386	13:38:57	1.09386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USD SGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/28/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/28/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CL.f	11:30:00 AM	1			57.91	12:41:26	0.5791	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Litecoin	11:30:00 AM	1			113.85	12:57:00	2.277	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#Litecoin	1:30:00 PM	1	115.7	2.314				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#NG.f	11:30:00 AM	1			2.602	12:57:40	0.02602	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD	1:30:00 PM	1			1.06115	15:22:31	0.0106115	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD	11:30:00 AM	1			0.6917	11:50:15	0.20751	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	CHF MXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DAX30.i	9:30:00 AM	1			11918.77	9:54:02	11918.77	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP	9:30:00 AM	1			0.88185	10:11:35	0.088185	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	EURGBP	11:30:00 AM	1			0.88292	12:42:46	0.0088292	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY	11:30:00 AM	1			121.886	11:38:02	1.21886	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD	9:30:00 AM	1			1.11664	9:45:10	0.0111664	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	EURUSD	11:30:00 AM	1			1.11551	11:50:10	0.446204	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD	1:30:00 PM	1	1.11561	111.561	1.11544	13:36:39	0.0111544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD	1:30:00 PM	1			1.82516	14:34:56	0.0182516	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY	9:30:00 AM	1			1.34006	10:10:44	0.0804036	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY	11:30:00 AM	1			138.155	11:40:21	424.13585	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD	9:30:00 AM	1			1.26571	9:34:08	0.379713	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD	11:30:00 AM	1			1.26418	12:00:54	0.0126418	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD	1:30:00 PM	1			1.26446	14:06:25	0.4172718	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD	11:30:00 AM	1			0.65151	12:42:09	0.0065151	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SPX500.i	11:30:00 AM	1			2786.14	13:01:58	2786.14	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF	11:30:00 AM	1			1.12628	12:42:12	1.6105804	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/29/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	USDJPY	9:30:00 AM	1			109.205	10:54:00	1.09205	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY	11:30:00 AM	1			1.26508	13:12:50	0.0126508	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY	1:30:00 PM	1	109.372	10937.2				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/29/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/29/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ethereum	9:30:00 AM	1			285.68	9:55:22	28.568	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ethereum	11:30:00 AM	1			1.30899	12:00:01	0.0261798	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD	9:30:00 AM	1			0.93647	10:12:13	0.187294	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD	11:30:00 AM	1			0.93543	11:54:56	0.280629	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF	9:30:00 AM	1			0.69969	10:11:31	0.139938	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF	1:30:00 PM	1			1.11661	14:16:03	0.0111661	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY	9:30:00 AM	1			76.111	10:11:41	15.2222	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD	9:30:00 AM	1			1.06333	10:12:31	0.212666	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD	9:30:00 AM	1			0.69343	10:11:06	0.138686	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD	11:30:00 AM	1			0.69272	12:31:07	0.138544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD	9:30:00 AM	1			1.71311	10:11:58	0.0342622	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY	11:30:00 AM	1			122.222	13:00:50	1.22222	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD	9:30:00 AM	1			1.11301	10:12:27	0.0333903	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD	11:30:00 AM	1			1.11438	12:59:20	0.055719	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD	1:30:00 PM	1			1.13144	13:41:47	0.0113144	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD	9:30:00 AM	1			1.82103	10:12:52	0.364206	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY	9:30:00 AM	1			138.663	9:44:27	425.69541	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD	9:30:00 AM	1			126.595	10:12:17	63.2975	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD	11:30:00 AM	1			1.26299	11:56:23	1.26299	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD	1:30:00 PM	1			1.26231	14:50:00	0.0126231	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD	9:30:00 AM	1			1.35066	9:49:04	0.0135066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD	11:30:00 AM	1			1.34925	12:53:29	0.0134925	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	USDCAD	1:30:00 PM	1			1.34955	15:08:43	0.0134955	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF	9:30:00 AM	1			1.00882	10:12:21	0.100882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF	11:30:00 AM	1			1.0095	12:45:05	0.10095	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/30/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY	9:30:00 AM	1			109.821	10:23:55	2.19642	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY	11:30:00 AM	1			109.735	12:29:58	2.1947	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/30/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/30/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CL.f	11:30:00 AM	1			55.44	11:59:25	0.5544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	AUDCAD	11:30:00 AM	1			0.93747	13:23:44	0.187494	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD	1:30:00 PM	1			0.93661	13:42:58	0.0093661	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY	1:30:00 PM	1			75.208	14:56:50	0.75208	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD	1:30:00 PM	1			0.69082	13:51:16	0.0069082	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY	11:30:00 AM	1			80.294	12:20:17	6.42352	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY	1:30:00 PM	1			108.167	14:30:16	10.8167	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD	9:30:00 AM	1			1.50785	9:59:26	1.50785	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD	11:30:00 AM	1			110.098	12:14:01	44.0392	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	EURCHF	11:30:00 AM	1			1.12026	13:25:14	0.112026	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF	1:30:00 PM	1			1.11989	13:48:34	0.111989	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP	11:30:00 AM	1			0.88517	12:21:09	0.88517	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP	1:30:00 PM	1			1.33067	14:38:50	0.0133067	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY	11:30:00 AM	1			121.264	12:35:40	12.1264	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY	1:30:00 PM	1			121.214	13:48:35	12.1214	Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD	9:30:00 AM	1			1.11396	10:42:40	0.0111396	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD	11:30:00 AM	1			1.11521	12:05:35	0.2118899	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD	1:30:00 PM	1			1.131	13:45:36	0.01131	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD	11:30:00 AM	1			1.81988	12:37:06	0.363976	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF	11:30:00 AM	1			1.258	12:40:51	0.3774	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY	9:30:00 AM	1			0.86662	10:14:46	0.0519972	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY	11:30:00 AM	1			137.078	12:15:57	13.7078	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY	1:30:00 PM	1			136.868	14:02:29	158.76688	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD	1:30:00 PM	1			1.93073	15:01:13	1.158438	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD	9:30:00 AM	1			1.62239	9:34:23	0.162239	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD	11:30:00 AM	1			1.26138	11:57:57	0.252276	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD	1:30:00 PM	1			1.11445	13:48:39	0.0334335	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD	3:30:00 PM	1	1.25803	2641.863				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD	1:30:00 PM	1			0.8821	14:59:28	0.8821	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY	1:30:00 PM	1			0.86683	15:25:00	0.0606781	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD	1:30:00 PM	1			0.65077	13:43:20	0.0065077	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SPX500.i	11:30:00 AM	1			2756.02	13:07:12	2756.02	Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD	9:30:00 AM	1			1.35451	10:06:49	1.35451	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD	11:30:00 AM	1			1.35448	12:21:01	1.35448	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD	3:30:00 PM	1	1.355026667	298105.87				Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF	11:30:00 AM	1			1.00586	11:32:43	0.201172	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



5/31/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY	9:30:00 AM	1			1.11509	10:11:23	0.0111509	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY	11:30:00 AM	1	108.815	87052	1.26264	12:04:32	0.063132	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK	9:30:00 AM	1			9.5521	10:33:17	0.95521	Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

5/31/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
5/31/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Bitcoin	9:30:00 AM	1			8535.1	11:13:11	85.351	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Bitcoin	1:30:00 PM	1			8561.41	14:06:00	85.6141	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CL.f	11:30:00 AM	1			53.63	12:12:31	0.5363	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NG.f	11:30:00 AM	1			2.44	12:49:12	0.0244	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD	11:30:00 AM	1			1.12167	11:34:43	0.0560835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DAX30.i	11:30:00 AM	1			11718.61	13:11:38	58593.05	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD	9:30:00 AM	1			1.60781	11:03:57	3.21562	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD	1:30:00 PM	1			1.60754	13:58:40	3.21508	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF	9:30:00 AM	1			1.1138	10:18:00	0.022276	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP	9:30:00 AM	1			0.88346	10:18:17	0.0265038	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP	11:30:00 AM	1			0.88359	12:41:00	0.0265077	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP	1:30:00 PM	1			0.88481	14:07:26	0.0265443	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY	9:30:00 AM	1			120.996	9:44:22	36.2988	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY	1:30:00 PM	1			123.003	14:33:42	1.23003	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD	9:30:00 AM	1			1.11653	9:48:53	1.6859603	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD	11:30:00 AM	1			1.12323	12:25:24	0.0112323	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD	1:30:00 PM	1			1.11875	14:19:27	0.0335625	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY	9:30:00 AM	1			137.018	10:55:37	597.39848	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	GBPJPY	11:30:00 AM	1			136.792	11:34:46	466.46072	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY	1:30:00 PM	1			136.684	14:54:29	125.74928	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD	11:30:00 AM	1			1.26457	12:23:57	0.0252914	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD	1:30:00 PM	1			1.26354	14:34:47	0.0252708	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GOLD	9:30:00 AM	1			1310	9:36:56	13.1	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GOLD	1:30:00 PM	1			1317.89	15:17:57	13.1789	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD	9:30:00 AM	1			1.11335	11:21:58	0.0111335	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	NZDUSD	11:30:00 AM	1			0.65515	11:38:13	0.0065515	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD	1:30:00 PM	1			0.65642	14:37:44	0.0065642	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD	9:30:00 AM	1			1.3515	10:56:14	2.703	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD	1:30:00 PM	1			1.3501	14:59:43	0.67505	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/3/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF	9:30:00 AM	1			0.99869	10:07:36	0.299607	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF	11:30:00 AM	1			1.26663	12:39:31	0.0126663	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF	1:30:00 PM	1			0.87381	13:58:01	0.0436905	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK	9:30:00 AM	1			6.6915	11:07:06	0.66915	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK	1:30:00 PM	1			6.6668	15:22:44	0.66668	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY	9:30:00 AM	1			108.39	9:37:46	1.0839	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY	11:30:00 AM	1			108.318	12:16:05	2.16636	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/3/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/3/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#CL.f	11:30:00 AM	1			0.65457	11:35:20	0.65457	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CL.f	1:30:00 PM	1			52.54	14:10:58	0.5254	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#Ripple	11:30:00 AM	1			0.4148	12:44:09	0.012444	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADDDK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADDDK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADDDK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADDDK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DAX30.i	11:30:00 AM	1			11891.79	12:17:55	59458.95	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD	9:30:00 AM	1			1.61318	10:07:55	3.22636	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD	9:30:00 AM	1			1.01457	10:07:39	0.0507285	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD	11:30:00 AM	1			1.12473	11:55:08	6.7258854	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD	1:30:00 PM	1			1.12563	13:57:01	0.2138697	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD	9:30:00 AM	1			1.70168	10:33:25	0.3233192	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY	1:30:00 PM	1			137.102	14:44:50	126.13384	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD	9:30:00 AM	1			1.26834	10:21:22	0.1141506	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD	11:30:00 AM	1			1.26527	11:40:30	1.26527	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD	1:30:00 PM	1			1.26894	13:52:23	0.0126894	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/4/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD	9:30:00 AM	1			1.34259	10:10:20	1.3560159	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD	11:30:00 AM	1			1.34296	13:26:09	1.34296	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD	1:30:00 PM	1			1.34418	15:16:56	1.3576218	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF	9:30:00 AM	1			0.99266	9:34:46	0.297798	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF	11:30:00 AM	1			0.9945	12:06:52	0.29835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY	9:30:00 AM	1			107.905	9:44:39	129.486	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY	1:30:00 PM	1			108.24	15:19:44	101.7456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/4/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/4/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CL.f	11:30:00 AM	1			53.03	12:21:15	0.5303	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	AUDUSD	1:30:00 PM	1			0.69858	14:32:56	0.0069858	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY.fx	11:30:00 AM	1			109.132	12:08:34	1.09132	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHF SEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF	11:30:00 AM	1			0.89487	13:07:10	0.0089487	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	EURJPY	9:30:00 AM	1			121.952	11:11:54	1.21952	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY	11:30:00 AM	1			122.181	13:07:26	1.22181	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY	1:30:00 PM	1			122.104	13:37:26	1.22104	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD	9:30:00 AM	1			1.12605	10:00:07	0.0112605	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD	11:30:00 AM	1			1.12794	11:45:03	1.1166606	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD	1:30:00 PM	1	1.12743	112.743	1.12667	13:52:08	0.0112667	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY	1:30:00 PM	1			137.457	15:27:10	30.24054	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD	9:30:00 AM	1			1.27035	9:45:53	0.0127035	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD	11:30:00 AM	1			1.12776	12:45:41	0.056388	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD	1:30:00 PM	1			1.27093	13:37:42	0.0127093	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD	3:30:00 PM	1	1.273655	382.0965				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF.fx	9:30:00 AM	1			136.891	10:28:30	1.36891	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF.fx	11:30:00 AM	1			0.65908	12:08:39	0.0065908	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY	11:30:00 AM	1			71.924	13:26:15	0.71924	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD	11:30:00 AM	1			0.66425	12:43:28	0.0066425	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD	1:30:00 PM	1			0.86652	13:36:40	0.0259956	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/5/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SPX500.i	11:30:00 AM	1			2817.08	11:34:34	2817.08	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF	1:30:00 PM	1			0.98975	15:19:57	0.2276425	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY	9:30:00 AM	1			108.098	10:05:04	134.04152	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY	11:30:00 AM	1			108.303	11:32:35	134.29572	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	USDJPY	1:30:00 PM	1			108.333	15:15:05	5416.65	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY.fx	11:30:00 AM	1			108.331	13:19:13	2.16662	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY.fx	1:30:00 PM	1			108.188	15:15:08	2.16376	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/5/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/5/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY.fx	11:30:00 AM	1			75.492	12:23:51	0.75492	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD	11:30:00 AM	1			0.69856	12:22:38	0.3772224	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD	1:30:00 PM	1			0.6979	13:39:45	0.34895	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF.fx	11:30:00 AM	1			0.7418	12:22:57	0.007418	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF.fx	1:30:00 PM	1			0.74034	15:07:47	0.0074034	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFMTN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP	11:30:00 AM	1			0.85929	11:54:44	0.0085929	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP	1:30:00 PM	1			0.88411	14:19:51	0.0088411	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY	9:30:00 AM	1	121.358	1213.58	121.304	9:33:54	121.304	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY	1:30:00 PM	1			121.358	14:45:11	1.21358	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD	9:30:00 AM	1			1.12332	10:41:02	0.28083	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD	1:30:00 PM	1			1.12358	13:39:58	0.56179	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY	9:30:00 AM	1			1.7198	10:19:35	0.034396	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY	1:30:00 PM	1			137.381	13:32:48	10.99048	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD	9:30:00 AM	1			1.12653	9:46:15	0.0112653	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD	11:30:00 AM	1			1.26816	11:52:22	1.2808416	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD	1:30:00 PM	1			1.27	14:19:40	0.7366	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD	11:30:00 AM	1			0.66252	13:05:44	0.198756	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY.fx	9:30:00 AM	1			11.487	11:02:05	0.22974	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY.fx	11:30:00 AM	1			11.463	12:02:51	0.22926	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/6/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD	9:30:00 AM	1			1.3417	10:05:06	1.3417	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF	11:30:00 AM	1			1.13021	12:49:13	0.0113021	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF	1:30:00 PM	1			1.68068	13:39:21	0.0168068	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY	9:30:00 AM	1			108.151	10:02:02	27.03775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY	11:30:00 AM	1			108.202	12:00:28	1.08202	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY	1:30:00 PM	1			108.171	15:22:35	1.08171	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY.fx	9:30:00 AM	1			108.199	10:25:20	2.16398	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/6/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/6/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/7/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/7/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CL.f	1:30:00 PM	1			0.99536	13:56:55	0.0099536	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY	11:30:00 AM	1			75.66	11:49:21	22.698	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD	9:30:00 AM	1			0.69647	10:53:04	0.208941	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD	1:30:00 PM	1			0.6964	15:15:19	0.013928	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF	1:30:00 PM	1			1.26887	13:50:07	1.26887	Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD	9:30:00 AM	1			1.707	9:50:18	0.01707	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD	9:30:00 AM	1			1.12919	10:48:01	0.0338757	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD	11:30:00 AM	1			1.13066	12:35:12	0.113066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD.fx	9:30:00 AM	1			1.12987	10:32:52	0.0112987	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD.fx	1:30:00 PM	1			1.13056	14:09:25	0.0113056	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD	9:30:00 AM	1			1.27083	9:56:35	0.0635415	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	GBPUSD	11:30:00 AM	1	1.27183	68678.82	1.27	11:32:55	0.0635	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD	1:30:00 PM	1			1.26788	13:55:19	0.760728	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD	9:30:00 AM	1			0.6615	10:53:19	0.19845	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD	1:30:00 PM	1			0.66128	14:16:50	0.066128	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/10/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD	11:30:00 AM	1			1.32716	12:10:02	0.066358	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD	1:30:00 PM	1			1.3272	14:10:41	1.3272	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF	9:30:00 AM	1			0.99129	10:55:43	0.594774	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF	11:30:00 AM	1			0.99022	11:49:02	0.594132	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF	1:30:00 PM	1			0.99069	13:56:32	0.594414	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY	9:30:00 AM	1			1.12331	10:01:02	0.0112331	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY	1:30:00 PM	1			108.635	13:49:54	1.08635	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY.fx	11:30:00 AM	1			108.612	11:58:39	1.08612	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	XAUUSD	9:30:00 AM	1			1326.97	10:28:34	13.2697	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/10/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/10/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CL.f	1:30:00 PM	1			1.11679	15:11:44	0.0111679	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NG.f	1:30:00 PM	1			2.358	13:59:22	0.02358	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD	9:30:00 AM	1			0.6955	10:11:08	0.006955	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD.fx	1:30:00 PM	1			0.69543	14:27:03	0.0069543	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	CADPLN	1:30:00 PM	1			2.8447	15:09:21	4.409285	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	CHF MXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF MXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF.fx	1:30:00 PM	1			1.30706	15:08:44	0.130706	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP	11:30:00 AM	1			0.89056	11:38:21	0.089056	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY	9:30:00 AM	1			1.12692	10:24:57	0.0112692	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY	11:30:00 AM	1			123.013	12:43:08	1.23013	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY	1:30:00 PM	1			0.88205	14:33:28	0.17641	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	EURUSD	9:30:00 AM	1			1.13198	9:50:02	0.282995	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD	11:30:00 AM	1			1.67854	11:59:06	0.0167854	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD	1:30:00 PM	1			121.946	14:05:06	1.21946	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD	11:30:00 AM	1			1.82583	11:33:13	0.182583	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY	11:30:00 AM	1			137.968	11:33:22	11.03744	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	GBPNZD.fx	9:30:00 AM	1			1.92132	9:50:04	0.0384264	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD	9:30:00 AM	1			1.2695	10:34:00	0.05078	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD	11:30:00 AM	1	1.27007	1270.07	1.11381	11:32:16	0.0111381	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD	1:30:00 PM	1	1.272025	636.0125	1.27054	14:12:54	0.254108	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD.fx	11:30:00 AM	1			1.27209	13:20:53	0.0127209	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GOLD	9:30:00 AM	1			1326.18	10:18:19	13.2618	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY.fx	1:30:00 PM	1			71.532	15:07:51	1.43064	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD	11:30:00 AM	1			0.65909	11:32:19	0.65909	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD	1:30:00 PM	1			1.57751	14:53:56	0.0157751	Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/11/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD.fx	11:30:00 AM	1			0.65884	12:35:04	0.0131768	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD	9:30:00 AM	1			1.3255	10:22:04	2.651	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD	11:30:00 AM	1			1.32591	11:34:33	2.65182	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD.fx	1:30:00 PM	1			1.32608	14:19:45	0.0132608	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF	9:30:00 AM	1			0.9905	9:38:00	0.009905	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	USDCHF	11:30:00 AM	1			0.99204	13:11:06	0.545622	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF.fx	11:30:00 AM	1			0.99137	13:23:36	0.0099137	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF.fx	1:30:00 PM	1			0.99158	13:34:06	0.0099158	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY	11:30:00 AM	1			108.691	11:38:00	43.4764	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY.fx	1:30:00 PM	1			108.766	15:02:24	1.08766	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	XAUUSD	11:30:00 AM	1			1321.13	12:04:40	13.2113	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/11/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/11/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CL.f	1:30:00 PM	1			52.18	13:45:00	0.5218	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD.fx	9:30:00 AM	1			0.92375	10:02:56	0.018475	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD	11:30:00 AM	1			0.69523	11:59:03	0.417138	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY.fx	11:30:00 AM	1			1305.32	13:13:45	13.0532	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY.fx	1:30:00 PM	1			81.492	13:54:16	0.81492	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY.fx	11:30:00 AM	1			109.147	12:43:46	1.09147	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY.fx	1:30:00 PM	1			109.053	13:43:01	1.09053	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY	9:30:00 AM	1			122.759	10:10:24	1.22759	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY	11:30:00 AM	1			122.678	11:57:54	73.6068	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY.fx	9:30:00 AM	1			122.783	10:23:53	1.22783	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY.fx	11:30:00 AM	1			122.662	12:34:15	1.22662	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD	1:30:00 PM	1			1.72091	15:27:30	0.0172091	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD	9:30:00 AM	1			1.13372	10:03:27	0.1360464	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD	11:30:00 AM	1			1.13383	11:47:17	0.0113383	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD	1:30:00 PM	1	1.13196	33.9588	1.13188	13:36:49	0.0113188	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD	3:30:00 PM	1	1.134	2835				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD.fx	1:30:00 PM	1			1.13199	14:02:27	0.0113199	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD	11:30:00 AM	1			1.30864	12:44:26	0.0130864	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF.fx	11:30:00 AM	1			1.26405	13:12:27	0.0126405	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF.fx	1:30:00 PM	1			1.26533	14:06:17	0.0126533	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD	3:30:00 PM	1	1.93599	193.599				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD	9:30:00 AM	1			1.1101	10:09:54	0.022202	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD	11:30:00 AM	1			1.27413	11:56:35	1.27413	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD	1:30:00 PM	1			1.27527	13:35:24	0.0127527	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD	3:30:00 PM	1	1.275	637.5				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD.fx	9:30:00 AM	1			1.27326	10:44:55	0.0127326	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD.fx	1:30:00 PM	1			0.87452	13:33:40	0.0087452	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/12/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD	9:30:00 AM	1			0.65812	10:03:31	0.065812	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD	11:30:00 AM	1			0.65807	11:58:02	0.197421	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SPX500.i	1:30:00 PM	1			2881.46	13:49:33	2881.46	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD	9:30:00 AM	1			1.32935	9:48:32	0.398805	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	USDCAD	11:30:00 AM	1			1.32988	11:56:08	2.65976	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD	1:30:00 PM	1			1.32956	14:25:47	0.398868	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF	9:30:00 AM	1			0.99062	10:06:04	0.0099062	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF.fx	1:30:00 PM	1			0.99422	14:51:44	0.0099422	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY	9:30:00 AM	1			108.391	10:43:11	54.1955	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY	11:30:00 AM	1			108.294	12:14:18	1.08294	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY	1:30:00 PM	1			1.11346	13:36:11	0.0111346	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/12/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/12/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD.fx	9:30:00 AM	1			0.92066	10:44:33	0.0092066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD.fx	11:30:00 AM	1			0.91995	12:01:51	0.0091995	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD.fx	1:30:00 PM	1			0.85759	13:34:09	0.0171518	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF.fx	11:30:00 AM	1			0.68575	12:19:26	0.0068575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD	11:30:00 AM	1			0.69066	12:07:55	0.0069066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD	1:30:00 PM	1			0.69048	13:49:36	0.0069048	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY.fx	1:30:00 PM	1			81.564	13:53:14	0.81564	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP.fx	9:30:00 AM	1			0.89199	10:17:28	0.0089199	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY.fx	9:30:00 AM	1			122.333	10:24:23	1.22333	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY.fx	1:30:00 PM	1			122.44	13:57:52	1.2244	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD.fx	1:30:00 PM	1			1.72059	14:41:25	0.0344118	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD	9:30:00 AM	1			139.052	10:34:01	4.17156	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD	11:30:00 AM	1			1.12903	12:50:19	0.0112903	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD	1:30:00 PM	1			1.12898	13:42:31	0.169347	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD	3:30:00 PM	1	1.12909	13661.989				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	EURUSD.fx	11:30:00 AM	1			1.12896	13:16:50	0.0112896	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD.fx	1:30:00 PM	1			1.12955	15:00:54	0.0112955	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY.fx	9:30:00 AM	1			1.31774	10:10:06	0.0131774	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD.fx	11:30:00 AM	1			1.92916	12:27:11	0.0192916	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD.fx	1:30:00 PM	1			1.93404	15:04:21	0.0193404	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD	9:30:00 AM	1			1.26771	10:00:15	0.0253542	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD	11:30:00 AM	1			1.26741	11:40:08	0.253482	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD	1:30:00 PM	1			1.26721	13:41:12	0.0126721	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD.fx	9:30:00 AM	1			1.26698	10:30:13	0.0126698	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD.fx	11:30:00 AM	1			1.26673	13:04:32	0.0126673	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD	11:30:00 AM	1			0.65626	12:02:00	0.7940746	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD	3:30:00 PM	1	0.65655	7944.255				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD.fx	11:30:00 AM	1			0.65656	11:58:17	0.0065656	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SPX500.i	9:30:00 AM	1			2882.92	10:33:20	2882.92	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SPX500.i	1:30:00 PM	1			2889.87	13:55:09	2889.87	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD	11:30:00 AM	1			1.33206	11:48:52	0.7859154	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD	1:30:00 PM	1			1.33037	13:50:20	1.3436737	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD.fx	9:30:00 AM	1			1.33218	10:17:37	0.0133218	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD.fx	11:30:00 AM	1			1.33155	12:32:30	0.0133155	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD.fx	1:30:00 PM	1			1.33082	13:39:11	0.0133082	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF	9:30:00 AM	1			0.99586	10:02:00	0.0298758	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF	11:30:00 AM	1			0.99254	11:49:45	0.5855986	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF.fx	9:30:00 AM	1			0.99552	10:12:22	0.0099552	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY	11:30:00 AM	1			108.391	11:51:36	108.391	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY	1:30:00 PM	1			108.5	13:37:25	16.275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY.fx	11:30:00 AM	1			108.446	13:18:39	1.08446	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY.fx	1:30:00 PM	1			108.468	13:38:32	1.08468	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/13/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/13/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/13/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Bitcoin	9:30:00 AM	1			1.11492	10:29:53	0.0111492	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CL.f	9:30:00 AM	1			52.19	10:49:52	1.0438	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF.fx	1:30:00 PM	1			0.74625	14:35:52	0.0074625	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCHF.fx	3:30:00 PM	1	0.74697	1493.94				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADPLN	3:30:00 PM	1	2.8318	35963.86				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD.fx	9:30:00 AM	1			1.63389	9:58:52	0.0163389	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD.fx	11:30:00 AM	1			1.63456	12:01:22	0.0163456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF.fx	1:30:00 PM	1			1.12123	14:48:16	0.0112123	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP	9:30:00 AM	1			1.31616	9:48:00	0.0789696	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY	9:30:00 AM	1			122.175	11:17:16	1.22175	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY	1:30:00 PM	1			121.88	14:20:52	1.2188	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD	9:30:00 AM	1			137.14	9:59:28	1.3714	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD	11:30:00 AM	1			0.86213	11:33:11	0.86213	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD	1:30:00 PM	1			1.12425	13:57:38	0.0112425	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD	3:30:00 PM	1	1.125413333	4051.488				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD.fx	9:30:00 AM	1			1.1281	9:56:12	0.011281	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD.fx	11:30:00 AM	1			1.12606	12:14:36	0.0112606	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD.fx	1:30:00 PM	1			1.12571	14:05:24	0.0112571	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	GBPAUD	1:30:00 PM	1			1.83132	14:54:11	0.183132	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	GBPJPY	9:30:00 AM	1			137.086	9:59:11	479.801	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY	11:30:00 AM	1			136.96	11:45:01	13.696	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY.fx	9:30:00 AM	1			137.08	10:47:44	1.3708	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY.fx	11:30:00 AM	1			136.765	12:14:08	1.36765	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY.fx	1:30:00 PM	1			136.775	14:49:30	1.36775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD	9:30:00 AM	1			1.26707	9:50:06	0.0126707	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD	11:30:00 AM	1			1.265	12:10:03	0.01265	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD	1:30:00 PM	1			1.26327	14:02:02	0.0126327	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD	3:30:00 PM	1	1.26364	37.9092				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GOLD	9:30:00 AM	1			1355.68	10:30:09	108.4544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GOLD	11:30:00 AM	1			1354.85	13:23:25	40.6455	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD	1:30:00 PM	1			1.33376	15:02:00	0.0133376	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD.fx	9:30:00 AM	1			1.33382	10:52:39	0.0133382	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD.fx	11:30:00 AM	1			1.33417	11:38:44	0.0133417	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	USDCAD.fx	1:30:00 PM	1			1.33414	13:58:46	0.0133414	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF	11:30:00 AM	1			0.99627	12:14:30	0.0199254	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF.fx	9:30:00 AM	1			0.98272	10:05:01	0.0196544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF.fx	11:30:00 AM	1			0.99559	12:31:22	0.0099559	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCHF.fx	3:30:00 PM	1	0.99691	996.91				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY	9:30:00 AM	1			108.2	10:01:41	2.164	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY	11:30:00 AM	1			108.232	11:32:57	27.058	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY	1:30:00 PM	1			108.253	14:22:58	135.31625	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY.fx	11:30:00 AM	1			108.237	12:03:42	1.08237	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/14/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/14/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/14/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#CL.f	9:30:00 AM	1			52.61	10:08:38	0.5261	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CL.f	1:30:00 PM	1			52.26	15:01:25	0.5226	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NG.f	1:30:00 PM	1			2.371	15:22:02	0.02371	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD	9:30:00 AM	1			0.92239	10:36:14	0.1014629	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	AUDCAD.fx	11:30:00 AM	1			0.9219	11:47:52	0.009219	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD.fx	1:30:00 PM	1			0.9214	15:14:06	0.009214	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF.fx	9:30:00 AM	1			0.68638	10:35:49	0.0068638	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF.fx	1:30:00 PM	1			0.68614	14:07:06	0.0068614	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD	11:30:00 AM	1			0.68747	11:44:56	0.0068747	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	CHFCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DAX30.i	9:30:00 AM	1			12085.18	11:04:30	24170.36	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD.fx	9:30:00 AM	1			1.63078	11:15:04	0.0163078	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD.fx	11:30:00 AM	1	1.6315	1631.5	1.63131	11:40:58	0.0163131	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD.fx	1:30:00 PM	1			1.63469	14:52:25	0.0163469	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD.fx	9:30:00 AM	1			1.50339	10:16:59	0.0300678	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP	9:30:00 AM	1			0.89121	10:01:21	0.0534726	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP	11:30:00 AM	1			0.89067	12:02:16	0.0356268	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP.fx	9:30:00 AM	1			62.55	9:55:43	0.6255	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP.fx	1:30:00 PM	1			0.89108	14:22:25	0.0089108	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY	1:30:00 PM	1			121.914	13:58:21	1.21914	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURJPY.fx	1:30:00 PM	1			1.12359	14:20:15	0.0224718	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD	11:30:00 AM	1			1.72169	11:55:56	0.0172169	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD	1:30:00 PM	1			1.7241	13:32:07	0.017241	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD	9:30:00 AM	1	1.12048	56.024	1.12038	9:32:32	0.056019	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD	11:30:00 AM	1			1.12149	11:57:08	0.0112149	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD	3:30:00 PM	1	1.12402	224.804				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD.fx	9:30:00 AM	1			1.12166	11:01:46	0.0112166	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD.fx	1:30:00 PM	1			1.12316	15:08:41	0.0224632	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURUSD.fx	3:30:00 PM	1	1.1245	1124.5				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD	9:30:00 AM	1			1.82994	10:19:40	0.0182994	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF.fx	1:30:00 PM	1			1.25691	14:36:53	0.0125691	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY	9:30:00 AM	1			136.577	10:12:59	109.2616	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY	1:30:00 PM	1			0.86235	14:01:17	0.051741	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD	9:30:00 AM	1			1.11597	9:54:16	0.0111597	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD	11:30:00 AM	1			1.25865	11:54:15	0.25173	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD	1:30:00 PM	1			1.25932	14:08:02	0.0125932	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GOLD	1:30:00 PM	1			1336.67	15:01:31	13.3667	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD.fx	11:30:00 AM	1			0.87346	12:15:48	0.0087346	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD	11:30:00 AM	1			0.65111	11:45:09	0.0065111	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF	11:30:00 AM	1			0.99928	12:33:03	0.49964	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF	1:30:00 PM	1			0.99886	14:01:54	0.898974	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF	3:30:00 PM	1	0.99705	8973.45				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY	9:30:00 AM	1			108.613	10:03:33	2.17226	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY	1:30:00 PM	1			1.13132	13:43:18	0.0113132	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/17/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/17/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/17/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Bitcoin	9:30:00 AM	1			0.86823	10:14:42	0.0173646	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CL.f	9:30:00 AM	1			52.04	11:10:11	0.5204	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CL.f	11:30:00 AM	1			0.65143	12:02:48	0.0130286	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#NG.f	1:30:00 PM	1			2.386	15:00:24	0.02386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY	9:30:00 AM	1			73.933	10:27:08	3.69665	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY	11:30:00 AM	1			1.12101	11:59:31	0.0336303	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	AUDUSD	11:30:00 AM	1			1.12304	12:01:29	0.0112304	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD	1:30:00 PM	1			0.68449	14:28:05	2.73796	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF.fx	9:30:00 AM	1			0.74289	10:20:14	0.0074289	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY	1:30:00 PM	1			80.655	14:23:38	40.3275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFMXN	9:30:00 AM	1			19.2168	11:02:38	17.679456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHF SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CZKJPY	9:30:00 AM	1			1.11343	11:21:56	0.0111343	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CZKJPY	1:30:00 PM	1			4.735	15:10:08	45.456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DAX30.i	1:30:00 PM	1			12228.82	14:20:32	24457.64	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD	1:30:00 PM	1			1.63634	13:38:45	0.0163634	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP	9:30:00 AM	1			0.89584	9:39:16	0.044792	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP	11:30:00 AM	1			0.89268	12:01:15	0.803412	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	EURGBP	1:30:00 PM	1			0.89353	13:38:39	0.0446765	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY	9:30:00 AM	1			11.487	11:02:05	0.22974	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY.fx	9:30:00 AM	1			121.544	11:01:10	1.21544	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD	9:30:00 AM	1			1.12391	10:00:09	0.2809775	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD	11:30:00 AM	1			1.11878	12:00:02	0.111878	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	EURUSD	1:30:00 PM	1			1.11987	13:55:47	0.111987	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPAUD.fx	1:30:00 PM	1			1.82924	14:54:54	0.0365848	Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF.fx	9:30:00 AM	1			19.2168	11:02:38	17.679456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY	11:30:00 AM	1			135.749	11:58:14	475.1215	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY	1:30:00 PM	1			135.48	15:05:27	67.74	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD	9:30:00 AM	1			1.25398	10:34:04	0.0125398	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD	11:30:00 AM	1			1.25343	12:19:58	0.0125343	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD	1:30:00 PM	1			1.25289	13:38:27	0.3883959	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD.fx	9:30:00 AM	1			1.25346	11:01:01	0.0125346	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GOLD	1:30:00 PM	1			1349.67	14:30:24	26.9934	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD.fx	11:30:00 AM	1			0.8746	13:25:51	0.008746	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	NZDCAD.fx	1:30:00 PM	1			0.8737	13:47:17	0.008737	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF.fx	1:30:00 PM	1			0.65032	15:07:26	0.0065032	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCZK	1:30:00 PM	1			14.872	13:57:22	21.71312	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDNOK	9:30:00 AM	1			5.6737	11:08:24	9.702027	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	NZDUSD.fx	11:30:00 AM	1	0.65052	1301.04	0.65062	11:35:14	0.0065062	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD.fx	1:30:00 PM	1			0.6508	13:52:05	0.006508	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD	9:30:00 AM	1			1.11793	11:19:04	0.0223586	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD	11:30:00 AM	1			1.9413	12:02:52	0.19413	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD	1:30:00 PM	1			1.34208	13:50:06	1.610496	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF	11:30:00 AM	1			138.097	12:01:21	441.9104	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF.fx	11:30:00 AM	1			0.99938	11:32:24	0.0099938	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY	9:30:00 AM	1			108.298	9:53:29	1.08298	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/18/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/18/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/18/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CL.f	9:30:00 AM	1			54.25	10:07:26	0.5425	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CL.f	11:30:00 AM	1			54.15	13:14:09	0.5415	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD	11:30:00 AM	1			0.68717	11:47:19	0.549736	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD.fx	11:30:00 AM	1			0.68697	11:58:18	0.0068697	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF.fx	11:30:00 AM	1			0.74644	11:39:00	0.0074644	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF.fx	1:30:00 PM	1			0.7455	13:58:35	0.007455	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY	1:30:00 PM	1			1.116	15:17:09	0.01116	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF	1:30:00 PM	1			1.1176	13:59:05	0.05588	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP.fx	1:30:00 PM	1			0.89018	15:09:12	0.0178036	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY	11:30:00 AM	1			121.423	11:47:41	97.1384	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD	9:30:00 AM	1			1.12033	11:08:07	0.560165	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD	11:30:00 AM	1			1.11992	12:15:41	0.0111992	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD	1:30:00 PM	1			1.12013	13:44:59	0.0224026	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD	9:30:00 AM	1			1.11457	11:24:44	0.0111457	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD	9:30:00 AM	1			1.678	10:14:38	0.0839	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY	1:30:00 PM	1			136.453	13:46:56	2.72906	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD	9:30:00 AM	1			1.25637	11:08:36	0.0125637	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD	11:30:00 AM	1			1.25829	12:42:18	0.0503316	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD	1:30:00 PM	1			1.12479	13:51:29	0.0112479	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GOLD	11:30:00 AM	1			1.11453	11:48:00	0.0111453	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCAD.fx	3:30:00 PM	1	0.87099	6967.92				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF.fx	11:30:00 AM	1			0.65143	12:02:48	0.0130286	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD.fx	9:30:00 AM	1			0.65202	11:28:10	0.0065202	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD	11:30:00 AM	1			1.33728	12:32:13	0.0133728	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	USDCAD	3:30:00 PM	1	1.336625714	202512.16				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF	9:30:00 AM	1			0.99939	9:56:08	0.799512	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF	11:30:00 AM	1			0.99887	11:41:40	0.0199774	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF	1:30:00 PM	1			140.673	15:20:46	14.0673	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF.fx	11:30:00 AM	1			0.99891	11:53:35	0.0099891	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY	9:30:00 AM	1			126.531	10:00:17	1.26531	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY	11:30:00 AM	1			108.442	11:45:59	54.221	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY	3:30:00 PM	1	108.452	325356				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/19/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/19/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/19/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CL.f	9:30:00 AM	1			55.59	9:58:19	0.5559	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CL.f	11:30:00 AM	1			55.51	13:07:38	0.5551	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CL.f	1:30:00 PM	1			55.89	14:32:39	1.1178	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/20/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/20/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/20/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD	9:30:00 AM	1			1.25328	11:02:43	0.0125328	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD.fx	11:30:00 AM	1			0.69191	12:12:36	0.0138382	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	AUDUSD.fx	1:30:00 PM	1			0.69266	15:17:39	0.0138532	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCHF.fx	1:30:00 PM	1			0.74832	14:50:32	0.0149664	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY.fx	1:30:00 PM	1			81.802	15:27:37	1.63604	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A





6/20/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CZKJPY	11:30:00 AM	1			4.761	12:32:25	109.12212	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DAX30.i	11:30:00 AM	1			12419.38	11:34:28	24838.76	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD.fx	9:30:00 AM	1			1.13092	9:36:40	0.0113092	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD.fx	1:30:00 PM	1			1.48897	14:49:07	0.0446691	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP	1:30:00 PM	1			0.99522	14:03:00	0.99522	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY	11:30:00 AM	1			121.65	11:42:12	1.2165	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY.fx	11:30:00 AM	1			121.805	12:33:41	2.4361	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY.fx	1:30:00 PM	1			121.905	14:25:22	2.4381	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD.fx	9:30:00 AM	1			1.71311	10:11:58	0.0342622	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD	9:30:00 AM	1			0.86619	10:00:01	0.0173238	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD	11:30:00 AM	1			1.11433	11:38:24	0.0111433	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD	1:30:00 PM	1			1.12998	13:42:49	0.0112998	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD.fx	9:30:00 AM	1			1.12952	11:17:57	0.0225904	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURUSD.fx	1:30:00 PM	1			1.1314	14:24:00	0.022628	Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/20/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY	9:30:00 AM	1			137	11:13:08	2.74	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY	1:30:00 PM	1			136.769	14:16:05	478.6915	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY.fx	9:30:00 AM	1			136.891	10:28:30	1.36891	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	GBPUSD	9:30:00 AM	1			1.30258	10:31:00	0.0521032	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD	11:30:00 AM	1			1.27176	11:36:51	0.063588	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD	1:30:00 PM	1			1.1244	13:58:17	0.05622	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GOLD	9:30:00 AM	1			1380.65	10:37:32	69.0325	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GOLD	11:30:00 AM	1			1380.6	11:34:11	13.806	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/20/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD	1:30:00 PM	1			0.65866	14:01:31	0.197598	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD	9:30:00 AM	1			1.32095	11:25:20	0.0132095	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD	11:30:00 AM	1			109.627	11:39:37	109.627	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD	1:30:00 PM	1			1.3196	13:37:32	0.39588	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY	9:30:00 AM	1			107.616	9:35:13	1.07616	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY	11:30:00 AM	1			107.839	11:43:19	1.07839	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/20/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	XAUUSD	1:30:00 PM	1			1380.22	14:19:11	41.4066	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/20/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/20/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CL.f	9:30:00 AM	1			57.23	10:33:57	0.5723	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CL.f	11:30:00 AM	1			57.53	13:16:51	0.5753	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ethereum	9:30:00 AM	1			285.56	11:22:42	8.5668	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY	11:30:00 AM	1			74.234	12:02:22	0.74234	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD	1:30:00 PM	1			1.05237	14:43:26	0.0105237	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK	9:30:00 AM	1			123.336	10:15:06	6.1668	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD	9:30:00 AM	1			0.69224	9:39:56	0.034612	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD	1:30:00 PM	1			0.69176	13:53:11	0.0415056	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY	9:30:00 AM	1			1.13209	10:30:36	0.0566045	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY.fx	11:30:00 AM	1			81.55	13:05:21	1.631	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	CHFSEK	9:30:00 AM	1			0.85573	10:15:01	0.0256719	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD.fx	9:30:00 AM	1			0.88623	10:30:00	0.0177246	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD.fx	11:30:00 AM	1			1.63501	13:24:11	0.0163501	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD.fx	1:30:00 PM	1			1.63651	14:12:10	0.0163651	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF	9:30:00 AM	1			1.11196	10:49:36	0.0111196	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF	1:30:00 PM	1			1.1106	13:33:42	0.011106	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP.fx	11:30:00 AM	1			0.8925	12:56:57	0.008925	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY	9:30:00 AM	1			121.25	10:15:04	36.375	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD.fx	9:30:00 AM	1			1.7198	10:19:35	0.034396	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD	9:30:00 AM	1			1.1147	9:34:51	0.011147	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD	11:30:00 AM	1			1.12343	11:39:47	0.0112343	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD	1:30:00 PM	1			1.13167	13:35:11	0.0113167	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD.fx	1:30:00 PM	1			1.27527	13:35:24	0.0127527	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD	9:30:00 AM	1			1.67252	11:23:32	0.0167252	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF	1:30:00 PM	1			1.24296	14:31:55	0.0124296	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF.fx	9:30:00 AM	1			1.24845	10:52:28	0.024969	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF.fx	11:30:00 AM	1			1.24641	11:42:15	0.0249282	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF.fx	1:30:00 PM	1			1.24292	14:06:22	0.0248584	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY	9:30:00 AM	1			136.223	10:14:32	408.669	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY	11:30:00 AM	1			136.117	12:23:48	544.468	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	GBPJPY	1:30:00 PM	1			136.157	13:43:03	1.36157	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD	9:30:00 AM	1			1.92956	11:23:26	0.0192956	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD	9:30:00 AM	1			1.26912	9:55:10	0.380736	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD	11:30:00 AM	1			1.26837	11:39:25	0.0126837	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD	1:30:00 PM	1			1.26722	13:51:06	0.1647386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD.fx	11:30:00 AM	1			1.26627	13:22:37	0.0253254	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD.fx	1:30:00 PM	1			1.11882	13:59:19	0.0111882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GOLD	9:30:00 AM	1			1390.98	9:44:36	111.2784	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GOLD	1:30:00 PM	1			1392.24	13:32:39	41.7672	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD	3:30:00 PM	1	1.320195	8713.287				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	USDCHF	9:30:00 AM	1			0.98298	10:35:00	0.0196596	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF	11:30:00 AM	1			0.86784	12:52:54	0.0173568	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF	1:30:00 PM	1			0.98101	15:25:01	0.0098101	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF.fx	9:30:00 AM	1			0.98249	10:04:40	0.0196498	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF.fx	11:30:00 AM	1	0.98272	1965.44				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY	9:30:00 AM	1			107.388	11:22:43	1.07388	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY	1:30:00 PM	1			107.509	14:33:02	1.07509	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/21/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/21/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/21/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Bitcoin	11:30:00 AM	1			10899.16	11:37:49	108.9916	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CL.f	11:30:00 AM	1			58.01	12:20:37	1.1602	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ripple	9:30:00 AM	1			1.33976	10:34:38	0.066988	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD.fx	11:30:00 AM	1			0.91619	12:18:26	0.0091619	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY	9:30:00 AM	1			74.645	11:18:52	7.4645	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD.fx	11:30:00 AM	1			1.12453	12:41:12	0.112453	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD.fx	1:30:00 PM	1			1.05159	13:34:59	0.0105159	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD	9:30:00 AM	1			1.50261	11:21:12	0.150261	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD	1:30:00 PM	1			1.5028	15:14:36	0.15028	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP	9:30:00 AM	1			0.8934	10:25:15	0.17868	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD	9:30:00 AM	1			1270.27	9:37:13	12.7027	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD	11:30:00 AM	1			1.1392	11:42:18	0.11392	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD	1:30:00 PM	1			1.12026	14:52:36	0.224052	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD.fx	9:30:00 AM	1			1.1378	10:27:18	0.022756	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF.fx	11:30:00 AM	1			1.24362	11:33:58	0.0248724	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY.fx	9:30:00 AM	1			136.711	10:58:08	1.36711	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD	9:30:00 AM	1			1.92655	11:23:59	0.0963275	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD	1:30:00 PM	1			1.93058	14:53:43	0.096529	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD	9:30:00 AM	1			1.27331	10:30:01	0.0127331	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD	11:30:00 AM	1			1.2742	11:32:48	0.19113	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD	1:30:00 PM	1			1.27537	14:16:42	0.1913055	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GOLD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GOLD	11:30:00 AM	1			1406.59	12:58:43	14.0659	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF.fx	1:30:00 PM	1			0.6439	14:08:26	0.012878	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	USDCAD	9:30:00 AM	1			1.31927	9:59:46	0.0131927	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD	11:30:00 AM	1			1.31843	11:32:32	0.0131843	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD	1:30:00 PM	1	1.318195	2636.39	1.31796	13:34:01	0.0131796	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF	11:30:00 AM	1			0.9756	11:40:01	0.009756	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY	9:30:00 AM	1			0.8618	11:29:18	0.8618	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY	11:30:00 AM	1			107.415	12:04:33	10.7415	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY	1:30:00 PM	1			107.323	13:32:08	1.07323	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/24/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/24/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	XAUUSD	11:30:00 AM	1			1404.54	12:17:16	14.0454	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/24/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Bitcoin	1:30:00 PM	1			11478.65	13:42:44	229.573	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Litecoin	1:30:00 PM	1			130.77	15:24:27	2.6154	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD.fx	11:30:00 AM	1			0.91825	13:25:54	0.0091825	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD.fx	1:30:00 PM	1			0.91801	13:33:55	0.0183602	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD.fx	9:30:00 AM	1			1.04793	10:23:38	0.0209586	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY.fx	9:30:00 AM	1			81.135	10:29:28	0.81135	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY.fx	9:30:00 AM	1			110.036	9:57:03	2.20072	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD	9:30:00 AM	1	1.63866	163.866				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD.fx	9:30:00 AM	1			1.63736	9:59:09	0.0327472	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD	1:30:00 PM	1			1.49965	13:41:54	0.149965	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP	9:30:00 AM	1			0.89242	9:59:00	0.0178484	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP	1:30:00 PM	1			0.89452	15:01:21	0.0089452	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	EURGBP.fx	9:30:00 AM	1			0.71276	9:52:27	0.035638	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY	1:30:00 PM	1			0.86694	13:35:08	0.0260082	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY.fx	11:30:00 AM	1			121.879	12:34:40	1.21879	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD	11:30:00 AM	1			1.71389	13:03:47	0.1371112	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD	9:30:00 AM	1			1.13947	10:26:03	0.1937099	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	EURUSD.fx	9:30:00 AM	1			1.1386	10:45:16	0.011386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD.fx	11:30:00 AM	1			1.13834	12:42:57	0.0227668	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD.fx	9:30:00 AM	1			1.83466	9:58:36	0.0183466	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD.fx	11:30:00 AM	1			1.82939	12:33:01	0.0182939	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD.fx	1:30:00 PM	1			1.83009	13:36:35	0.0366018	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF.fx	9:30:00 AM	1			1.24464	11:26:18	0.0124464	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF.fx	1:30:00 PM	1			0.89482	15:02:17	0.0089482	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY.fx	11:30:00 AM	1	136.606	136606				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPMXN	9:30:00 AM	1			1.26572	10:56:55	1.2783772	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD	9:30:00 AM	1			1.27602	9:57:06	0.0255204	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD	11:30:00 AM	1			1.27612	13:03:36	0.7529108	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD	1:30:00 PM	1			1.27432	14:03:07	0.1019456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD.fx	11:30:00 AM	1			1.27626	12:20:03	0.0127626	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD.fx	1:30:00 PM	1			0.89492	15:02:18	0.0089492	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GOLD	9:30:00 AM	1			1429.99	10:26:27	28.5998	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	GOLD	1:30:00 PM	1			1430.58	13:33:00	14.3058	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD	9:30:00 AM	1			1.31795	10:10:02	0.0131795	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD	11:30:00 AM	1			1.31732	11:56:56	0.0131732	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD	1:30:00 PM	1			1.31711	13:59:32	0.0131711	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF	9:30:00 AM	1			0.97313	10:15:00	0.0097313	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF	11:30:00 AM	1			0.976	12:50:20	0.02928	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF	3:30:00 PM	1	0.97462	97.462				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY	9:30:00 AM	1			106.988	10:30:47	4.27952	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY	11:30:00 AM	1			107.085	11:33:24	4.2834	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY	1:30:00 PM	1			106.946	13:36:20	1.06946	Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/25/2019	USDJPY	3:30:00 PM	1	107.066	10706.6				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	XAUUSD	9:30:00 AM	1			0.75407	9:46:26	0.75407	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/25/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/25/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Bitcoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CL.f	9:30:00 AM	1	59.11	591.1	1.34077	10:23:21	1.34077	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CL.f	11:30:00 AM	1			58.78	12:03:01	1.1756	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF.fx	1:30:00 PM	1			0.68244	14:07:35	0.0136488	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY	9:30:00 AM	1			1.13086	9:46:11	0.0113086	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDNZD.fx	3:30:00 PM	1	1.04506	2090.12				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY	11:30:00 AM	1			81.825	12:27:54	0.81825	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADNOK	11:30:00 AM	1			6.4648	12:10:17	8.792128	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF.fx	1:30:00 PM	1			1.11114	15:21:52	0.0222228	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP	9:30:00 AM	1			0.89702	10:08:26	0.0089702	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP	11:30:00 AM	1			0.89583	12:26:55	0.179166	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP	1:30:00 PM	1	0.89415	44.7075				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY	9:30:00 AM	1			122.161	10:28:10	1.22161	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY	11:30:00 AM	1			122.25	12:07:04	1.2225	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY.fx	9:30:00 AM	1			122.135	10:36:01	3.66405	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD	9:30:00 AM	1			1.11542	9:37:43	0.055771	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD	11:30:00 AM	1			1.13607	13:00:25	0.0113607	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD	1:30:00 PM	1			1.13648	14:33:19	0.0113648	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD.fx	9:30:00 AM	1			1.13584	9:52:31	0.0227168	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD.fx	9:30:00 AM	1			1.81656	10:15:57	0.0363312	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD.fx	1:30:00 PM	1			1.81909	13:38:43	0.0181909	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF	1:30:00 PM	1			1.23966	14:09:17	0.0123966	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	GBPCHF.fx	1:30:00 PM	1			1.24009	13:56:42	0.0248018	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD	9:30:00 AM	1			1.26709	10:04:55	0.0126709	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD	11:30:00 AM	1			1.26882	12:18:40	0.0126882	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD	3:30:00 PM	1	1.26825	1395.075				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD.fx	9:30:00 AM	1			1.26693	9:55:51	0.0253386	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD.fx	1:30:00 PM	1			1.26941	13:56:53	0.0126941	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GOLD	9:30:00 AM	1			1405.77	9:38:58	14.0577	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GOLD	11:30:00 AM	1			1410.74	11:42:24	70.537	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GOLD	1:30:00 PM	1			1405.35	14:07:02	70.2675	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY	1:30:00 PM	1			71.907	14:09:07	0.71907	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDNOK	9:30:00 AM	1			5.6679	11:11:50	4.194246	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD.fx	1:30:00 PM	1			0.66797	14:18:39	0.0133594	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SILVER	9:30:00 AM	1			15.43	10:24:09	0.1543	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SPX500.i	11:30:00 AM	1			2934.95	12:14:54	2934.95	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD	9:30:00 AM	1			1.31711	9:33:01	0.0131711	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD	11:30:00 AM	1			1.31586	12:07:16	0.0131586	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD	1:30:00 PM	1			1.31512	14:45:17	0.0131512	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF	9:30:00 AM	1			0.97483	10:22:00	0.0097483	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF	11:30:00 AM	1			0.74705	12:01:58	0.014941	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/26/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY	9:30:00 AM	1			107.46	10:05:36	1.0746	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY	11:30:00 AM	1			107.69	12:13:38	1.0769	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY.fx	11:30:00 AM	1			107.697	12:13:27	2.15394	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY.fx	1:30:00 PM	1			1.11348	14:03:23	0.0111348	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/26/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/26/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Bitcoin	11:30:00 AM	1			11543.3	12:12:03	230.866	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ethereum	9:30:00 AM	1			1.11429	11:27:57	0.0111429	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ethereum	11:30:00 AM	1			1.93013	12:55:19	0.0193013	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ethereum	1:30:00 PM	1			313.69	13:51:22	3.1369	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Litecoin	9:30:00 AM	1			116.04	9:41:11	3.4812	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD.fx	9:30:00 AM	1			1.0472	9:38:39	0.020944	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD	1:30:00 PM	1			0.6991	14:07:52	0.034955	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	BCHUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADDDK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADDDK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADDDK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADDDK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	CHFCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY	11:30:00 AM	1			110.23	12:13:28	11.023	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	CHFNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	EURCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP	9:30:00 AM	1			0.89565	9:39:24	0.0089565	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP	11:30:00 AM	1			0.89527	12:18:24	0.0089527	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP.fx	9:30:00 AM	1			0.895	10:20:30	0.0179	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD	9:30:00 AM	1			1.13575	9:55:19	0.0113575	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD	11:30:00 AM	1			1.13699	13:07:31	0.227398	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD	1:30:00 PM	1			1.1368	13:36:07	0.11368	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD.fx	9:30:00 AM	1			1.81527	10:31:42	0.0363054	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD.fx	11:30:00 AM	1			1.12373	13:11:42	0.0112373	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD.fx	1:30:00 PM	1			1.81647	14:41:48	0.0181647	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD	9:30:00 AM	1			1.66485	9:52:57	0.0166485	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD	1:30:00 PM	1			1.66937	13:53:13	0.0166937	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	GBPCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF	9:30:00 AM	1			1.24308	9:52:51	0.0124308	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF.fx	9:30:00 AM	1			1.12633	9:41:00	0.0112633	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY	9:30:00 AM	1			137.018	9:52:14	1.37018	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD.fx	9:30:00 AM	1			1.89611	11:10:29	0.0189611	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD	9:30:00 AM	1			1.26733	9:36:21	0.633665	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	GBPUSD	1:30:00 PM	1			1.27019	14:28:58	0.381057	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD.fx	9:30:00 AM	1			1.2684	10:55:57	0.025368	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GOLD	9:30:00 AM	1			1404.99	9:33:03	70.2495	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GOLD	11:30:00 AM	1			1402.33	12:21:11	14.0233	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF	11:30:00 AM	1			0.65558	12:13:59	0.032779	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF.fx	9:30:00 AM	1			0.65465	10:50:11	0.013093	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF.fx	1:30:00 PM	1			0.6543	14:37:07	0.013086	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD	11:30:00 AM	1			0.66879	12:00:26	0.0066879	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SILVER	9:30:00 AM	1			15.185	11:07:04	0.75925	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SILVER	1:30:00 PM	1			15.245	14:01:34	0.76225	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD	9:30:00 AM	1			1.3122	10:30:39	0.13122	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD	11:30:00 AM	1			1.31316	13:04:12	0.0262632	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD	1:30:00 PM	1			1.1237	15:29:34	0.011237	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD.fx	9:30:00 AM	1			1.3122	10:39:12	0.026244	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF	9:30:00 AM	1			1.0171	10:03:44	1.0171	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF	11:30:00 AM	1			0.9782	12:54:00	0.009782	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF	1:30:00 PM	1			0.97783	13:36:44	0.097783	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF.fx	11:30:00 AM	1			0.97781	13:01:55	0.0195562	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/27/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY	11:30:00 AM	1			107.948	12:47:24	1.07948	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY.fx	11:30:00 AM	1			107.939	12:01:18	1.07939	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD RUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD RUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD RUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD RUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USD SGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/27/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/27/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAPL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAPL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAPL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AAPL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ADBE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ADBE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ADBE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ADBE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#AIG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AIG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AIG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AIG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMZN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMZN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMZN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AMZN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AXP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AXP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AXP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#AXP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BABA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#BABA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BABA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BABA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BAC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BAC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BAC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BAC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BARC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BARC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BARC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BARC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BHP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BHP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BHP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BHP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BIDU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BIDU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BIDU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BIDU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Bitcoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Bitcoin	11:30:00 AM	1			11581.65	11:43:35	347.4495	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#Bitcoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Bitcoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BLT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BLT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BLT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BLT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BTA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BTA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BTA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#BTA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#C	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#C	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#C	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	#C	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CAT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CAT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CAT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CAT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CHL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CHL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CHL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CHL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CL.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CL.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CL.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CL.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CMCSA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CMCSA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CMCSA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CMCSA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#CVX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CVX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CVX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#CVX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DIS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DIS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DIS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DIS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DWDP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DWDP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DWDP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#DWDP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#EBAY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#EBAY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#EBAY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#EBAY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ethereum	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#Ethereum	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ethereum	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ethereum	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#F	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#F	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#F	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#F	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FCX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FCX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FCX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FCX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FDX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FDX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FDX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FDX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FSLR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FSLR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#FSLR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#FSLR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GEN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GEN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GEN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GEN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GILD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GILD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GILD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GILD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GOOG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GOOG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GOOG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GOOG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#GS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GSK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GSK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GSK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#GSK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HAL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HAL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HAL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HAL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HPQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HPQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HPQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HPQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#HSBA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HSBA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HSBA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#HSBA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IBM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IBM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IBM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IBM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ILMN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ILMN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ILMN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ILMN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#INTC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#INTC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#INTC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#INTC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#IP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JCP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#JCP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JCP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JCP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JNJ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JNJ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JNJ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JNJ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JPM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JPM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JPM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#JPM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KHC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KHC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KHC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KHC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#KO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Litecoin	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Litecoin	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#Litecoin	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Litecoin	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LLOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LLOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LLOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LLOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LNKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LNKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LNKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#LNKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MCD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MCD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MCD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MCD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MDLZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MDLZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MDLZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	#MDLZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MGM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MGM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MGM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MGM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MMM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MMM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MMM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MMM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MON	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MON	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MON	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MON	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#MRVL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRVL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRVL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MRVL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MSFT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MSFT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MSFT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MSFT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MU	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MU	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MU	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#MU	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NFLX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NFLX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NFLX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NFLX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NG.f	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#NG.f	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NG.f	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NG.f	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NKE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NKE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NKE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NKE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NTDOY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NTDOY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NTDOY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#NTDOY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORAN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORAN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORAN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORAN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORCL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORCL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#ORCL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ORCL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PBR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PBR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PBR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PBR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PEP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PEP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PEP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PEP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PFE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PFE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PFE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PFE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PG	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PG	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PG	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#PG	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#POT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#POT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#POT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#POT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QCOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QCOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QCOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QCOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QQQ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QQQ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QQQ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#QQQ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ripple	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ripple	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ripple	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#Ripple	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#S	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#S	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#S	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#S	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SBUX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SBUX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SBUX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SBUX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#SNE	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SNE	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SNE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SNE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#SPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#T	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#T	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#T	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#T	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TEVA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TEVA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TEVA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TEVA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRI	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRI	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRI	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRI	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRV	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#TRV	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRV	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TRV	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSCO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSCO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSCO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSCO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSLA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSLA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSLA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TSLA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TWTR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TWTR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TWTR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#TWTR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UBS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UBS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UBS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UBS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UL	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UL	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#UL	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UL	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UPS	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UPS	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UPS	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UPS	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UTX	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UTX	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UTX	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#UTX	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#V	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#V	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#V	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#V	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VOD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VOD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VOD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VOD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VZ	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VZ	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#VZ	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	#VZ	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WDC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WDC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WDC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WDC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WFC	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WFC	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WFC	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WFC	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WMT	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WMT	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WMT	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#WMT	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#XOM	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#XOM	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#XOM	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#XOM	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#YHOO	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#YHOO	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#YHOO	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#YHOO	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	#ZNGA	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ZNGA	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ZNGA	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	#ZNGA	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD	1:30:00 PM	1			0.91598	15:23:46	0.0091598	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	AUDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	AUDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	AUDNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	AUDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD	11:30:00 AM	1			0.70167	11:43:22	0.0350835	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD.fx	9:30:00 AM	1			0.70147	10:57:36	0.0140294	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD.fx	11:30:00 AM	1			0.7008	13:00:09	0.014016	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUS200.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUS200.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUS200.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	AUS200.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	BCHUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	BCHUSD	11:30:00 AM	1			436.3	13:09:43	8.726	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	BCHUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	BCHUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	CADCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	CADHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	CADPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CADZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	CHFDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	CHF MXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF MXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF MXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF NOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF PLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF SEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHF SEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	CHFSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CHFZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CZKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CZKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CZKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	CZKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DAX30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DAX30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DAX30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	DAX30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DJ30.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DJ30.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DJ30.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DJ30.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DKKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DKKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DKKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	DKKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	EURCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF	11:30:00 AM	1			10908.65	12:58:34	109.0865	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF.fx	9:30:00 AM	1			1.10982	10:06:38	0.0221964	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	EURGBP	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURGBP.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	EURHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY	9:30:00 AM	1			122.549	10:02:10	1.22549	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	EURNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	EURRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD	9:30:00 AM	1			1.13814	10:00:56	0.1024326	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	EURUSD	11:30:00 AM	1			1.13894	11:42:58	0.056947	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD	1:30:00 PM	1			1.13788	14:24:37	0.1365456	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD.fx	9:30:00 AM	1			1.13782	9:45:12	0.0341346	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	EURZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	GBPAUD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPAUD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD.fx	9:30:00 AM	1			1.65848	11:28:04	0.0165848	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD.fx	11:30:00 AM	1	1.658825	6635.3	1.66085	12:02:08	0.033217	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD.fx	1:30:00 PM	1			1.66076	14:01:11	0.0332152	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF	9:30:00 AM	1			1.23441	11:07:38	0.0617205	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF	1:30:00 PM	1			1.238	14:26:46	0.0619	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	GBPCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY	9:30:00 AM	1	136.5215	122869.35	136.39	10:39:16	5.4556	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY	1:30:00 PM	1			1.12085	14:00:29	0.022417	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	GBPJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY.fx	11:30:00 AM	1			136.466	12:18:39	1.36466	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	GBPNZD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPNZD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	GBPSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD	9:30:00 AM	1			1.26806	10:02:43	0.0126806	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD	11:30:00 AM	1	1.2682	12682	1.2742	11:32:48	0.19113	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD	1:30:00 PM	1			1.2687	14:22:10	0.038061	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GBPZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	GBPZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GOLD	9:30:00 AM	1			1412.84	10:17:16	28.2568	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GOLD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GOLD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	GOLD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HKDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HUFJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HUFJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HUFJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	HUFJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	JP225.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	JP225.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	JP225.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	JP225.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	MXNJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	MXNJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	MXNJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	MXNJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NASDAQ.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NASDAQ.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NASDAQ.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NASDAQ.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NOKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	NZDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCHF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	NZDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY.fx	9:30:00 AM	1			72.231	10:58:42	1.44462	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	NZDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	NZDUSD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD.fx	1:30:00 PM	1			0.67127	15:27:46	0.0134254	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDUSD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	NZDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SEKJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SGDJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SGDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SGDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SGDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SILVER	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	SILVER	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SILVER	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SILVER	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SPX500.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SPX500.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SPX500.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	SPX500.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	UK100.i	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	UK100.i	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	UK100.i	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	UK100.i	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD	1:30:00 PM	1			1.30849	15:29:54	2.224433	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD	3:30:00 PM	1	1.308004	463033.42				Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCAD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHF	9:30:00 AM	1			1.26641	10:47:18	0.0379923	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHF	11:30:00 AM	1			0.9753	12:56:49	0.048765	Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	USDCHE	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHE	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHE.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHE.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHE.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCHE.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDCZK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDDKK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A



6/28/2019	USDDKK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHKD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDHUF.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDINR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDINR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDINR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDINR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	USDJPY	9:30:00 AM	1			107.665	10:43:30	5.38325	Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDMXN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	USDNOK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDNOK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDPLN.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDRUB	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDRUB	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDRUB	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDRUB	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	USDSEK.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSEK.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDSGD.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	USDZAR.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	XAUUSD	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	XAUUSD	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	XAUUSD	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A

6/28/2019	XAUUSD	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY.fx	9:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY.fx	11:30:00 AM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY.fx	1:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A
6/28/2019	ZARJPY.fx	3:30:00 PM	1						Continuous Quote Driven	N/A	ELECTRONIC	N/A