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Lighting 1 1 1 1<	directed Order Flow Citadel Securities			Market Orders	Market Orders(%)		Marketable Limit Orders(%)			Other Orders	Other Orders(%)	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for
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Equite transmit Equit Image	directed Order Flow Citadel Securities LIC(CDR6) VIRTU Americas, LLC(INTE) Jane Street Capital, LLC(INSS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM)		Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70	Market Orders 23 17 18 3 2 2 2 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00	0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 0.00 0.00 0.00	Limit Orders	Limit Orders(%) 0.00 16.67 16.67 0.00 33.33		0 0.00 8 75.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) C C C C C C C C C C C C C	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
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Option Contracts Control	directed Order Flow Cindel Securities LLC(CDR6) VIRTU Americas, LLC(MRT) Jane Street Capital, LLC(MST) UBS Securities, LLC(MSS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(FTMM) Instinet BiockCross(BLX) Chee EDGX US Equilies		Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35	Market Orders 23 17 18 3 2 2 0 0 0 0 0	36 51 26 98 28 57 4.76 3.17 0.00	0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00		0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Summary Summary <t< td=""><td>directed Order Flow Cindel Securities LLC(CMRG) VIRTU Americas, LLC(WRT) Jane Street capital, LLC(WRS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) Exchange(EDGA)</td><td></td><td>Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35</td><td>Market Orders 23 17 18 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>36 51 26 98 28 57 4.76 3.17 0.00</td><td>0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>100.00 0.00 0.00 0.00 0.00 0.00</td><td>Limit Orders</td><td>Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00</td><td></td><td>0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00</td><td>Paid/Received for Market Orders(USD) 0</td><td>Paid/Received for Market Orders(cents per</td><td>Paid/Received for Marketable Limit</td><td>Paid/Received for Marketable Limit Orders(cents per</td><td>Paid/Received for Non-Marketable</td><td>Paid/Received for Non-Marketable Limit Orders(cents</td><td>Paid/Received for</td><td>Paid/Received for Other Orders(cents</td></t<>	directed Order Flow Cindel Securities LLC(CMRG) VIRTU Americas, LLC(WRT) Jane Street capital, LLC(WRS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) Exchange(EDGA)		Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35	Market Orders 23 17 18 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36 51 26 98 28 57 4.76 3.17 0.00	0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00		0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Directed Orders as of All Orders as of All Orde	directed Order Flow Cinadel Securities (LLC(DRG) VIRTU Americas, LLC(WTF) Jane Street Capital, LLC(WST) UBS Securities, LLC(WSS) UBS Securities, LLC(WSS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(RSDQ) Instinet BlockCross(BUX) Choe EDGX US Exchange(EDGX) Exchange(EDGX)		Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35	Market Orders 23 17 18 3 2 2 2 0 0 0 0 0	36 51 26 98 28 57 4.76 3.17 0.00	0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00		0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Direct Orders 3/0 Non-Direct Non-Direct Orders 3/0 Non-Direct Non-Direct Non-Direct Non-Direct Non-Direct Non-Direct	directed Order Flow Cindel Securities (LC(CMR6) VIRTJ Americas, LLC(WRT) Jane Street Capital, LLC(WRT) Jane Street Capital, LLC(WRS) G1 Execution Services, LLC(ETMM) Services, LLC(ETMM) BiockCross(BLOC) Cose EDGX VD Equilies Exchange(EDGX) January 2022 Option Contracts		Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35	Market Orders 23 17 18 3 2 2 0 0 0 0 0	36 51 26 98 28 57 4.76 3.17 0.00	0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.000 16.67 16.67 0.000 33.33 0.000		0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Total Monore Orders O	directed Order Flow Cinadel Securities (LLC(DRG) VIRTU Americas, LLC(WTF) Jane Street Capital, LLC(WST) UBS Securities, LLC(WSS) UBS Securities, LLC(WSS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(RSDQ) Instinet BlockCross(BUX) Choe EDGX US Exchange(EDGX) Exchange(EDGX)		Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35	Market Orders 23 17 18 3 2 2 2 0 0 0 0 0	36 51 26 98 28 57 4.76 3.17 0.00	0rders 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 0.00 0.00 0.00 0.00 0.00	Lunit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00		0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Order Outder Outder </td <td>directed Order Flow Cindel Securities (LC(CMR6) VIRTJ Americas, LLC(WRT) Jane Street Capital, LLC(WRT) Jane Street Capital, LLC(WRS) G1 Execution Services, LLC(ETMM) Services, LLC(ETMM) BiockCross(BLOC) Cose EDGX VD Equilies Exchange(EDGX) January 2022 Option Contracts</td> <td>Orders 24 21 19 4 2 2 2 1 1</td> <td>Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35</td> <td>223 177 188 3 2 0 0 0 0 0 0</td> <td>36 51 26 98 28 57 4.76 3.17 0.00</td> <td>0rders</td> <td>100.00 0.00 0.00 0.00 0.00 0.00</td> <td>Limit Orders</td> <td>Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00</td> <td>> C > C Other Orders as %</td> <td>0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00</td> <td>Paid/Received for Market Orders(USD) 0</td> <td>Paid/Received for Market Orders(cents per</td> <td>Paid/Received for Marketable Limit</td> <td>Paid/Received for Marketable Limit Orders(cents per</td> <td>Paid/Received for Non-Marketable</td> <td>Paid/Received for Non-Marketable Limit Orders(cents</td> <td>Paid/Received for</td> <td>Paid/Received for Other Orders(cents</td>	directed Order Flow Cindel Securities (LC(CMR6) VIRTJ Americas, LLC(WRT) Jane Street Capital, LLC(WRT) Jane Street Capital, LLC(WRS) G1 Execution Services, LLC(ETMM) Services, LLC(ETMM) BiockCross(BLOC) Cose EDGX VD Equilies Exchange(EDGX) January 2022 Option Contracts	Orders 24 21 19 4 2 2 2 1 1	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35	223 177 188 3 2 0 0 0 0 0 0	36 51 26 98 28 57 4.76 3.17 0.00	0rders	100.00 0.00 0.00 0.00 0.00 0.00	Limit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00	> C > C > C > C > C > C > C > C > C > C > C Other Orders as %	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
0 0.00 </td <td>directed Order Flow (Cradel Securities LLC(CM6) (WTRU Americas, LLC(WTR) Jane Street Capital, LLC(WTS) Jane Street Capital, LLC(WSS) G1 Execution Services, LLC(URSM) HANSDAQ Execution Services, LLC(URSMQ) Interfactors(EUKS) Charl Editors(EUKS) Charl Editors(EUKS) Equilia Exchange(EDGS) January 2022 Option Contracts Summary Total Non-Directed</td> <td>Orders 24 21 19 4 2 2 1 19 4 2 2 1 1 1 1 1 1 1 1 1 1 1</td> <td>Orders(%) 32.43 32.83 25.68 5.41 2.70 2.70 1.35 1.35</td> <td>233</td> <td></td> <td>0rders</td> <td>100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.</td> <td>Limit Orders C C C C C C C C C C C C C C C C C C C</td> <td>Umit Orders(%) 0.00 16.67 16.67 16.67 0.00 33.33 0.000 16.67</td> <td>) C , , , , , , , , , , , Other Orders as % Other Orders as %</td> <td>0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00</td> <td>Paid/Received for Market Orders(USD) 0</td> <td>Paid/Received for Market Orders(cents per</td> <td>Paid/Received for Marketable Limit</td> <td>Paid/Received for Marketable Limit Orders(cents per</td> <td>Paid/Received for Non-Marketable</td> <td>Paid/Received for Non-Marketable Limit Orders(cents</td> <td>Paid/Received for</td> <td>Paid/Received for Other Orders(cents</td>	directed Order Flow (Cradel Securities LLC(CM6) (WTRU Americas, LLC(WTR) Jane Street Capital, LLC(WTS) Jane Street Capital, LLC(WSS) G1 Execution Services, LLC(URSM) HANSDAQ Execution Services, LLC(URSMQ) Interfactors(EUKS) Charl Editors(EUKS) Charl Editors(EUKS) Equilia Exchange(EDGS) January 2022 Option Contracts Summary Total Non-Directed	Orders 24 21 19 4 2 2 1 19 4 2 2 1 1 1 1 1 1 1 1 1 1 1	Orders(%) 32.43 32.83 25.68 5.41 2.70 2.70 1.35 1.35	233		0rders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Limit Orders C C C C C C C C C C C C C C C C C C C	Umit Orders(%) 0.00 16.67 16.67 16.67 0.00 33.33 0.000 16.67) C , , , , , , , , , , , Other Orders as % Other Orders as %	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Normer Normer<	directed Order Flow (Cradel Securities LLC(CM6) (WTRU Americas, LLC(WTR) Jane Street Capital, LLC(WTS) Jane Street Capital, LLC(WSS) G1 Execution Services, LLC(URSM) HANSDAQ Execution Services, LLC(URSMQ) Into Actional (LLC(WSM) Exchange (EDGN) January 2022 Option Contracts Summary Total Non-Directed	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 1 1 1 1	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67 10.00	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Normer Normer<	directed Order Flow (Cradel Securities LLC(CM6) (WTRU Americas, LLC(WTR) Jane Street Capital, LLC(WTS) Jane Street Capital, LLC(WSS) G1 Execution Services, LLC(URSM) HANSDAQ Execution Services, LLC(URSMQ) Into Actional (LLC(WSM) Exchange (EDGN) January 2022 Option Contracts Summary Total Non-Directed	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 1 1 1 1	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67 10.00	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Directed Non-Directed State of the	directed Order Flow Cinded Securities LLC(CMRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIST) UBS Securities, LLC(WISS) UBS Securities, LLC(WISS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) Exchange(EDK) Disolates Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Summary Total Non-Directed Orders 0	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 1 1 1 1	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67 10.00	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Directed Non-Directed State of the	directed Order Flow (Cradel Securities LLC(CM6) (WTRU Americas, LLC(WTR) Jane Street Capital, LLC(WTS) Jane Street Capital, LLC(WSS) G1 Execution Services, LLC(URSM) HANSDAQ Execution Services, LLC(URSMQ) Into Actional (LLC(WSM) Exchange (EDGN) January 2022 Option Contracts Summary Total Non-Directed	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 Non-Directed Orders as % of All Orders % of All	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Non-Direct Mono-Direct Mono-Dir	directed Order Flow Cinded Securities LLC(CMRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIST) UBS Securities, LLC(WISS) UBS Securities, LLC(WISS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) Exchange(EDK) Disolates Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Summary Total Non-Directed Orders 0	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 Non-Directed Orders as % of All Orders % of All	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Umit Orders(cents)))))))))))))))))))	Paid/Received for	Paid/Received for Other Orders(cents
Venue No-Directed No-Directed No-Marketable	directed Order Flow Cinded Securities LLC(CMRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIST) UBS Securities, LLC(WISS) UBS Securities, LLC(WISS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) Exchange(EDK) Disolates Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Summary Total Non-Directed Orders 0	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 Non-Directed Orders as % of All Orders % of All	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per hundred shares) C C C C C C C C C C C C C C C	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Umit Orders(cents)))))))))))))))))))	Paid/Received for	Paid/Received for Other Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
direct ref	directed Order Flow Cinded Securities LLC(CMRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIST) UBS Securities, LLC(WISS) UBS Securities, LLC(WISS) G1 Execution Services, LLC(ETMM) NASDAQ Execution Services, LLC(ETMM) Exchange(EDK) Disolates Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Exchange(EDK) Choe EDGK US Summary Total Non-Directed Orders 0	Orders 24 21 19 4 2 2 1 1 1 1 1 1 1 Non-Directed Orders as % of All Orders % of All	Orders(%) 32.43 28.38 25.68 5.41 2.70 2.70 1.35 1.35 Total Market Orders	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Umit Orders	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 16.67 16.67	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD)	Paid/Received for Market Orders(cents per hundred shares) 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orden(USD)	Paid/Received for Paid/Received	Paid/Recived for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
refune yold	directed Order Flow (Cradel Securities (LLC(DRG) WITU Americas, LLC(WITE) Jane Street Capital, LLC(WISS) G1 Execution Services, LLC(WISS) G1 Execution Services, LLC(WISS) Instinet Exchange(EDGX) BiockCrossBio(EDGX) Sommary Total Non-Directed Orders 0 Venues	Orders 24 21 19 4 22 2 1 1 1 2 2 1 1 0 0 0 0 0 0 0 0 0 0	Orders(%) 32.43 32.83 25.68 5.41 2.70 2.70 1.35 1.35 1.35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	223 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.51 26.98 28.57 4.76 3.17 0.00 0.00 0.00 0.00 0.00	Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Limit Orders	Umit Orders(%) 0 0.00 16.67 16.67 16.67 0.00 133.33 0.000 16.67 16.7 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	> C > C > C > C > C > C > C > C > C > C Other Orders as % Other Orders as % Orders	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per hundred shares) C C C C C C C C C C C C C C C	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0	Paid/Received for Paid/Received for Data State Data Sta	Paid/Received for Non-Marketable Umit Orders(cents)))))))))))))))))))	Paid/Recived for Other Orders(USD) 0	Paid/Received for Other Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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76 100.0 68 89.47 1 1.12 5 6.58 2 2.63 <th< th=""> <th< th=""> <t< td=""><td>directed Order Flow (Citadel Securities LLC(CMRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIRT) G1 Execution Services, LLC(ETMM) Services, LLC(ETMM) Services, LLC(RSOQ) Instinet BiockCross(BLKX) Choe EOGX VIC Equilies Echange(EDGX) January 2022 Option Contracts Summary Total Non-Directed Orders Venues Venue Non- directed Order Flow February 2022 S&P 500 Stocks Summary</td><td>Orders 24 21 19 4 2 2 2 1 1 2 2 1 1 1 1 1 1</td><td>Orders(%) 32.43 32.83 25.68 5.41 2.70 1.35 1.35 Total Market Orders 0 Non-Directed</td><td>23 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Contemporation Contemporation Contemporatio Contemporation Contemporation Contemporation Contemp</td><td>orders</td><td>100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.</td><td>Limit Orders C C C C C C C C C C C C C C C C C C C</td><td>Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 10.67 10.00</td><td>Conter Orders Other Other Other Order Other Other</td><td>0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00</td><td>Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Paid/Received for Market Orders(cents per hundred shares) Comparison Compari</td><td>Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Paid/Received for Non-Marketable Limit Orden(USD)</td><td>Paid/Received for Non-Marketable Limit Orders(cents)))))))))))))))))))</td><td>Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Paid/Received for Other Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></t<></th<></th<>	directed Order Flow (Citadel Securities LLC(CMRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIRT) G1 Execution Services, LLC(ETMM) Services, LLC(ETMM) Services, LLC(RSOQ) Instinet BiockCross(BLKX) Choe EOGX VIC Equilies Echange(EDGX) January 2022 Option Contracts Summary Total Non-Directed Orders Venues Venue Non- directed Order Flow February 2022 S&P 500 Stocks Summary	Orders 24 21 19 4 2 2 2 1 1 2 2 1 1 1 1 1 1	Orders(%) 32.43 32.83 25.68 5.41 2.70 1.35 1.35 Total Market Orders 0 Non-Directed	23 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Contemporation Contemporatio Contemporation Contemporation Contemporation Contemp	orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Limit Orders C C C C C C C C C C C C C C C C C C C	Umit Orders(%) 0.00 16.67 16.67 0.00 33.33 0.00 16.67 10.67 10.00	Conter Orders Other Other Other Order Other Other	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per hundred shares) Comparison Compari	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orden(USD)	Paid/Received for Non-Marketable Limit Orders(cents)))))))))))))))))))	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	directed Order Flow (Citadel Securities (LLC(DRG) VIRTU Americas, LLC(WIRT) Jane Street Capital, LLC(WIST) UBS Securities, LLC(WISS) G1 Execution Services, LLC(ETMM) Services, LLC(ETMM) Exertises, LLC(WISS) G1 Execution Services, LLC(WISDQ) Instinet Exchange(EDGK) Execution Services, LLC(WISDQ) Instinet Exchange(EDGK) Exchange(EDGK) Explanary 2022 Option Contracts Option Contracts Summary Venues Ve	Orders 24 21 19 4 2 2 1 1 2 2 1 1 Non-Directed Orders as % of All Orders Non-Directed Orders of All Orders 1 1 1 1 1 1 1 1 1 1 1 1 1	Orders(%) 32.43 32.83 25.68 5.41 2.70 2.70 1.35 1.35 1.35 0 1.35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 17 18 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0		Orders Marketable Limit Orders a Marketable Jimit Orders a Marketable		Umit Orders	Umit Orders(%)	Other Orders as % Other Orders as %	0 0.00 8 75.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per hundred shares) Comparison Compari	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orden(USD)	Paid/Received for Non-Marketable Limit Orders(cents)))))))))))))))))))	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Venues Marka Mark	directed Order Flow (Citadel Securities (LLC(DKG)) VIRTU Americas, LLC(NTE) Jane Street Capital, LLC(NTE) Jane Street Capital, LLC(NTS) G1 Execution Services, LLC(ETMM) Services, LLC(NSOQ) Instinet BiockCross(BLKX) Choe EOGX VC Exchange(EDGX) January 2022 Option Contracts Summary Total Non-Directed Orders Venue - Non- directed Order Flow February 2022 S&P 500 Stocks Summary- Total Non-Directed Orders	Orders 24 21 19 4 2 2 1 1 1 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Orders(%) 32.43 32.83 25.68 5.41 2.70 2.70 1.35 Total Market Orders Non-Directed Orders(%) Total Market Orders	23 17 18 18 3 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Limit Orders	Umit Orders(%)	Other Orders as % of Non-Directed Other Orders	0 0.00 0 75.00 0 0.00 0 0.0	Paid/Received for Market Orders(USD) 0	Paid/Received for Market Orders(cents per hundred shares) Comparison Compari	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orden(USD)	Paid/Received for Non-Marketable Limit Orders(cents) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	directed Order Flow (Cadel Securities (LLC(DRG)) VIRTU Americas, LLC(NRS) UIRTU Americas, LLC(NRS) INES Securites, LLC(NRS) G1 Execution Services, LLC(ETMM) BiosCcross(BLKX) Cone EDGX VS Services, LLC(NSDQ) Instinet BiosCcross(BLKX) Cone EDGX VS Cone E	Orders 24 21 19 4 2 2 1 1 1 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Orders(%) 32.43 32.83 25.68 5.41 2.70 2.70 1.35 Total Market Orders Non-Directed Orders(%) Total Market Orders	23 17 18 18 3 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Orders	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Limit Orders	Umit Orders(%)	Other Orders as % of Non-Directed Other Orders	0 0.00 0 75.00 0 0.00 0 0.0	Paid/Received for Market Orders(USD) 0 0 0 0 0 0 0 0 0	Paid/Received for Market Orders(cents per hundred shares) Comparison Compari	Paid/Received for Marketable Limit Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Marketable Limit Orders(cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Non-Marketable Limit Orden(USD)	Paid/Received for Non-Marketable Limit Orders(cents) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Paid/Received for Other Orders(USD) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Paid/Received for Other Orders/cents per hundred shares) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Venue - Non- directed Order Flow Citadel Securities	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD	Net Payment Paid/Received for Market Orders(cents per) hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)			Net Payment Paid/Received for Other Orders(cents per hundred shares)
LLC(CDRG) VIRTU Americas,	3	5 42.	2	9 42.65	i C	0.	10	4 36	36	2 66	.67 (0 0	0 0	0	0
LLC(NITE) Jane Street Capital.	1	8 21.0	59 1	8 26.47	r c	0.1	10	0 0	.00	0 0	.00 (0 0	0	0 0
LLC(JNST)	1	6 19.	18 1	5 22.06	i 1	100.	10	0 0	.00	0 0	.00						0	0 0
G1 Execution																		
Services, LLC(ETMM)		5 6.1)2	5 7.35	5 C	0.	10	0 0	.00	0 0	.00 (0 0				0 0	0	0 0
NASDAQ Execution																		
Services, LLC(NSDQ) Instinet		4 4.1	32	0.00) (0.	10	4 36	36	0 0	.00						0	0 0
BlockCross(BLKX)		1 1.:	20	0 0.00) (0.1	10	0 0	00	1 33	33						0	0 0
Cboe EDGX US Equities																		
Exchange(EDGX) Members		1 1.:	20	0 0.00	0 0	0.1		1 9	.09	0 0	.00 (1	<u> </u>		0 0	0	0	0
Exchange(MEMX) New York Stock		1 1.:	20	0 0.00) (0.	10	1 9	.09	0 0	.00					0 0	0	0
Exchange(NYSE)		1 1.:	20	0.00	o c	0.	10	1 9	.09	0 0	.00						0	0
UBS Securities, LLC(UBSS)		1 1.:	20	1 1.47	, c	0.1	10	0 0	.00	0 0	.00						0	0 0
February 2022																		
Non-S&P 500 Stocks Summary					-		-				-			-		-		
	Non-Directed Orders as % of All Orders	Total Market Orde	Market Orders as % of Non-Directed rs Orders	Total Marketable Limit Orders	Marketable Limit Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % o Non-Directed Orders	of Total Other Order	Other Orders as % of Non-Directed 's Orders									
37		0	7 72.9	7 2	5.41	1	4 10.	31	4 10.	81								
Venues																		
Venue - Non- directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USD	Net Payment Paid/Received for Market Orders(cents per) hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)		Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Citadel Securities LLC(CDRG)	1	4 37.1	1	4 51.85		0.	10	0 0	.00	0 0	00						0	
VIRTU Americas, LLC(NITE)		2 32.4		6 22.22		2 100.		0 0		4 100				Ì				
Jane Street Capital, LLC(JNST)		4 10.3		4 14.81		0.		0 0		0 0								
G1 Execution		4 10.		4 14.01		0.1		0 0		0 0		, , , , , , , , , , , , , , , , , , ,	,		<u> </u>			
Services, LLC(ETMM)		3 8.	11	3 11.11	. c	0.1	10	0 0	.00	0 0	.00					0 0	0	0 0
Cboe EDGX US Equities																		
Exchange(EDGX)		2 5.4	11	0 0.00	0 0	0.1	10	2 50	.00	0 0	.00 0					0 0	0	0 0
NASDAQ Execution																		
Services, LLC(NSDQ) February 2022		2 5.4	11	0 0.00	0 0	0.1	10	2 50	00	0 0	00 (0 0	0	0
Option Contracts			_						_									
Summary							Non-Marketable											
Total Non-Directed	Non-Directed Orders as % of All		Market Orders as % of Non-Directed	Total Marketable	Marketable Limit Orders as % of Non-		Limit Orders as % of Non-Directed	of	Other Orders as % of Non-Directed									
Orders 2	Orders 100.0	Total Market Orde	rs Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	0rders 1 50.0	Total Other Order	o Orders	00								
Venues																		
Venue - Non-	Non-Directed	Non-Directed			Marketable Limit		Non-Marketable	Non-Marketable			Net Payment Paid/Received for	Net Payment Paid/Received for Market Orders(cents per	Net Payment Paid/Received for Marketable Limit	Net Payment Paid/Received for Marketable Limit Orders(cents per	Net Payment Paid/Received for Non-Marketable		Net Payment Paid/Received for	Net Payment Paid/Received for Other Orders(cents
directed Order Flow Citadel Securities	Orders	Orders(%)	Market Orders	Market Orders(%)	Orders	Marketable Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Other Orders(%)	Market Orders(USD) hundred shares)	Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares)	Other Orders(USD)	per hundred shares)
LLC(CDRG) Morgan Stanley &		1 50.0	00	0 0.00	1	100.	10	0 0	.00	0 0	00					0 0	0	0
Company LLC(MSCO)		1 50.0	20	0 0.00		0.	10	1 100	00	0 0								
March 2022		50.0		0.00	, 0	0.1		1 100		0					-		0	0
S&P 500 Stocks Summary																		
Total Non-Directed Orders 37	Orders	Total Market Orde	Market Orders as % of Non-Directed rs Orders 27 72.9	Total Marketable Limit Orders	Marketable Limit Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders 3 8.	Total Other Order	Other Orders as % of Non-Directed orders 6 16.									
Venues	100.0			-	2.70			-										
											Net Payment	Net Payment Paid/Received for Market	Net Payment Paid/Received for	Net Payment Paid/Received for Marketable Limit	Net Payment Paid/Received for	Net Payment Paid/Received for Non-Marketable	Net Payment	Net Payment Paid/Received for
Venue - Non- directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Paid/Received for Market Orders(USD	Orders(cents per) hundred shares)	Marketable Limit Orders(USD)	Orders(cents per hundred shares)	Non-Marketable Limit Orders(USD)		Paid/Received for Other Orders(USD)	Other Orders(cents per hundred shares)
Citadel Securities						1												

	Orders as % of All		of Non-Directed		Orders as % of Non-		Non-Directed		of Non-Directed									
Orders C	Orders 100.00	Total Market Orders 59		Limit Orders	Directed Orders 1.49	Total Non-Marketable Limit Orders	Orders 0.00	Total Other Orders	Orders 10.45									
67	100.00	59	88.06	1	1.49	0	0.00	/	10.45									
Venues																		
												Net Payment		Net Payment		Net Payment		
											Net Payment	Paid/Received for Market	Net Payment Paid/Received for	Paid/Received for Marketable Limit	Net Payment Paid/Received for	Paid/Received for Non-Marketable	Net Payment	Net Payment Paid/Received for
	Non-Directed	Non-Directed			Marketable Limit		Non-Marketable	Non-Marketable			Paid/Received for	Orders(cents per	Marketable Limit	Orders(cents per	Non-Marketable	Limit Orders(cents	Paid/Received for	Other Orders(cents
directed Order Flow C Citadel Securities	Orders	Orders(%)	Market Orders	Market Orders(%)	Orders	Marketable Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Other Orders(%)	Market Orders(USD	hundred shares)	Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares)	Other Orders(USD)	per hundred shares)
LLC(CDRG)	26	38.81	24	40.68	0	0.00	0	0.00	2	28.57	, .			. c	0	0	0	0
VIRTU Americas, LLC(NITE)		23.88	11	18.64		100.00		0.00		57.14								
Jane Street Capital,	16	23.88	11	18.64	1	100.00	0	0.00	4	57.14					0	0	0	0
LLC(JNST)	13	19.40	13	22.03	0	0.00	0	0.00	0	0.00	0 0		0 0	C	0	0	0	0
G1 Execution																		
Services, LLC(ETMM)		13.43																
	9	13.43	8	13.56	0	0.00	0	0.00	1	14.29			0 0	0	0	0	0	0
Two Sigma	9	15.45	8	13.56	0	0.00	0	0.00	1	14.29			o c	c	0	0		
Two Sigma Securities, LLC(SOHO)	9	4.48	3	5.08	0	0.00		0.00		0.00					0	0	0	0
Two Sigma Securities, LLC(SOHO) March 2022	3		3		0)	c	0	0	0	0
Two Sigma Securities, LLC(SOHO)	3		3		0										0 0	0	0	0
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary	3		3		0	0.00	0 Non-Marketable	0.00	0						0 0	0	0	0
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary	9 3 Non-Directed Orders as % of All		3 Market Orders as %	5.08	0 0 Marketable Limit Orders as % of Non-	0.00	0 Non-Marketable Limit Orders as % of	0.00	0 Other Orders as %)	0 0	0	0	0
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary Total Non-Directed C	Orders as % of All Orders		of Non-Directed Orders	5.08 Total Marketable Limit Orders	Orders as % of Non- Directed Orders	0.00	0 Non-Marketable Limit Orders as % of Non-Directed Orders	0.00	0 Other Orders as % of Non-Directed Orders	0.00					0 0	0	0	0
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary Total Non-Directed C	Orders as % of All	4.48	of Non-Directed	5.08 Total Marketable Limit Orders	Orders as % of Non-	0.00	0 Non-Marketable Limit Orders as % of Non-Directed	0.00	0 Other Orders as % of Non-Directed	0.00						0	0	0
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary Total Non-Directed C	Orders as % of All Orders	4.48	of Non-Directed Orders	5.08 Total Marketable Limit Orders	Orders as % of Non- Directed Orders	0.00	0 Non-Marketable Limit Orders as % of Non-Directed Orders	0.00	0 Other Orders as % of Non-Directed Orders	0.00					0	0	0	0
Two Sigma Securities, LLC(50H0) March 2022 Option Contracts Summary Total Non-Directed Orders 1	Orders as % of All Orders	4.48	of Non-Directed Orders	5.08 Total Marketable Limit Orders	Orders as % of Non- Directed Orders	0.00	0 Non-Marketable Limit Orders as % of Non-Directed Orders	0.00	0 Other Orders as % of Non-Directed Orders	0.00						0	0	0
Two Sigma Securities, LLC(50H0) March 2022 Option Contracts Summary Total Non-Directed Orders 1	Orders as % of All Orders	4.48	of Non-Directed Orders	5.08 Total Marketable Limit Orders	Orders as % of Non- Directed Orders	0.00	0 Non-Marketable Limit Orders as % of Non-Directed Orders	0.00	0 Other Orders as % of Non-Directed Orders	0.00			0 C	Net Payment Paid/Bec-lued for	Net Payment	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 0
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary Total Non-Directed C Orders 1 Venues	Orders as % of All Orders 100.00	4.48	of Non-Directed Orders	5.08 Total Marketable Limit Orders	Orders as % of Non- Directed Orders 0.00	0.00	0 Non-Marketable Limit Orders as % of Non-Directed Orders	0.00 Total Other Orders 0	0 Other Orders as % of Non-Directed Orders	0.00) (Paid/Received for Market) C	Net Payment Paid/Received for Marketable Limit	0 0	Paid/Received for Non-Marketable	0 0	0 0 Net Payment Paid/Received for
Two Sigma Securities LLC(SOHO) March 2022 Option Contracts Summary Total Non-Directed Orders Venues	Orders as % of All Orders 100.00 Non-Directed	4.48 Total Market Orders 1 Non-Directed	of Non-Directed Orders 100.00	5.08 Total Marketable Limit Orders 0	Orders as % of Non- Directed Orders 0.00 Marketable Limit	0.00 Total Non-Marketable Limit Orders 0	0 Non-Marketable Limit Orders as % of Non-Directed Orders 0.00	0.00 Total Other Orders 0 Non-Marketable	0 Other Orders as % of Non-Directed Orders 0.00	0.00) (Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
Two Sigma Securities, LLC(SOHO) March 2022 Option Contracts Summary Total Non-Directed C Orders 1 Venues	Orders as % of All Orders 100.00 Non-Directed	4.48 Total Market Orders 1	of Non-Directed Orders 100.00	5.08 Total Marketable Limit Orders	Orders as % of Non- Directed Orders 0.00 Marketable Limit	0.00	0 Non-Marketable Limit Orders as % of Non-Directed Orders 0.00	0.00 Total Other Orders 0 Non-Marketable	0 Other Orders as % of Non-Directed Orders	0.00) (Paid/Received for Market Orders(cents per	Paid/Received for	Paid/Received for Marketable Limit	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable	Paid/Received for	Paid/Received for