

Class of Instrument	Bond				
Notification if <1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of direct orders
JP Morgan Securities PLC (K6Q0W1PS1L1O4IQL9C32)	23.63%	20.57%	N/A	N/A	N/A
Citigroup Global Markets LTD (XKZZ2JZF41MRHTR1V493)	14.53%	13.48%	N/A	N/A	N/A
DAVY (63540061DPCBNMCGRY22)	12.08%	3.55%	N/A	N/A	N/A
Deutsche Bank AG (7LTWFZYICNSX8D621K86)	10.61%	6.38%	N/A	N/A	N/A
SC Lowy Asset Management (254900QF4TEKQYQAYH56)	9.77%	2.84%	N/A	N/A	N/A

Class of Instrument	Equity				
Notification if <1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of direct orders
Morgan Stanley & Co. International PLC (4PQUHN3JPFQFNF3BB653)	34.46%	25.64%	N/A	N/A	N/A
Citigroup Global Markets LTD (XKZZ2JZF41MRHTR1V493)	15.37%	2.56%	N/A	N/A	N/A
Churchill Capital UK, Ltd (2138009SC6TLNRKYIH33)	14.82%	6.41%	N/A	N/A	N/A
JP Morgan Securities PLC (K6Q0W1PS1L1O4IQL9C32)	11.64%	28.21%	N/A	N/A	N/A
Liberum Capital LTD (213800U6KUF87S1KCC03)	5.96%	1.28%	N/A	N/A	N/A

Class of Instrument	Contract for Difference				
Notification if <1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of direct orders
Citigroup Global Markets LTD (XKZZ2JZF41MRHTR1V493)	57.35%	24.29%	N/A	N/A	N/A
Goodbody Stockbroker Nominees LTD (635400DNPHTL1M6LKY67)	12.52%	24.29%	N/A	N/A	N/A
Credit Suisse Securities (Europe) LTD (DL6FFRRLF74S01HE2M14)	10.78%	2.86%	N/A	N/A	N/A
Bank of America Merrill Lynch International LTD (EYKN6VOZCB8VD9IULB80)	6.18%	15.71%	N/A	N/A	N/A
Barclays Capital Securities LTD (K9WDOH4D2PYBSLSOB484)	5.31%	8.57%	N/A	N/A	N/A

Class of Instrument	Equity Derivative Swaps and other equity derivatives				
Notification if <1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of direct orders
Deutsche Bank AG (7LTFWZYICNSX8D621K86)	30.73%	29.17%	N/A	N/A	N/A
Bank of America Merrill Lynch International LTD (EYKN6VOZCB8VD9IULB80)	26.92%	12.50%	N/A	N/A	N/A
Jeffries International LTD (S5THZMDUJCTQZBTRVI98)	25.85%	8.33%	N/A	N/A	N/A
JP Morgan Securities PLC (K6Q0W1PS1L1O4IQL9C32)	6.99%	2.08%	N/A	N/A	N/A
Exane Derivatives SNC (2FL5XIC1B8Q6HNGN6A35)	5.52%	41.67%	N/A	N/A	N/A

Class of Instrument	Equity Derivative Option and Futures admitted to trading on a trading venue				
Notification if <1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of direct orders
Deutsche Bank AG (7LTWFZYICNSX8D621K86)	70.22%	75.00%	N/A	N/A	N/A
Jeffries International LTD (S5THZMDUJCTQZBTRVI98)	29.78%	25.00%	N/A	N/A	N/A