

Top five execution venues

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	39,4%	55,5%	0,0%	0,1%	75,8%
XETRA - REGULIERTER MARKT (XETA)	13,8%	14,0%	27,1%	59,4%	99,8%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	5,7%	6,4%	0,0%	0,1%	28,9%
BOERSE DUESSELDORF - QUOTRIX - REGULIERTER MARKT	4,6%	4,4%	0,0%	0,1%	9,3%
XETRA - FREIVERKEHR (XETB)	2,8%	4,2%	29,3%	56,0%	99,8%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	44,1%	61,1%	0,0%	0,1%	76,2%
XETRA - REGULIERTER MARKT (XETA)	16,4%	18,0%	40,1%	50,7%	99,9%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	2,5%	3,6%	0,0%	0,1%	53,5%
BOERSE STUTTGART - FREIVERKEHR (STUB)	2,3%	3,2%	0,0%	0,1%	98,6%
BOERSE FRANKFURT - REGULIERTER MARKT (FRAA)	2,2%	3,1%	0,0%	0,1%	93,3%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	24,1%	56,6%	0,0%	0,1%	84,1%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	3,1%	10,2%	0,0%	0,1%	92,8%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	2,7%	4,8%	0,0%	0,1%	36,0%
BOERSE STUTTGART - FREIVERKEHR (STUB)	2,1%	5,0%	0,1%	0,2%	96,2%
XETRA - REGULIERTER MARKT (XETA)	2,1%	5,1%	42,4%	46,0%	99,6%

Class of Instrument	Debt instruments Bonds				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	56,7%	4,4%	0,6%	0,8%	93,3%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	12,1%	36,5%	0,0%	0,1%	10,6%
BOERSE STUTTGART - FREIVERKEHR (STUB)	11,4%	22,1%	0,1%	0,1%	82,2%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	4,3%	17,1%	0,0%	0,1%	82,4%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	2,9%	8,0%	0,0%	0,1%	94,2%

Class of Instrument	Debt instruments Money markets instruments				
Notification if < 1 average trade per business day in the previous year	N				

Top five investment firms

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ICF BANK AG Wertpapierhandelsbank (529900E89HA1I45HB613)	17,3%	1,7%	0,0%	0,1%	62,9%
VIRTU ITG EUROPE LIMITED (213800EEC95PRUCEUP63)	0,3%	0,4%	0,1%	0,2%	99,4%
VIRTU FINANCIAL IRELAND LIMITED (549300XGSLFGN1IGYC71)	0,2%	0,3%	0,0%	0,0%	100,0%
UBS Europe SE (5299007QVIQ7IO64NX37)	0,1%	0,0%	0,0%	0,0%	100,0%
DZ PRIVATBANK S.A. (SVY0KHTJZBP60K295346)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ICF BANK AG Wertpapierhandelsbank (529900E89HA1I45HB613)	24,3%	1,8%	0,0%	0,1%	82,5%
VIRTU FINANCIAL IRELAND LIMITED (549300XGSLFGN1IGYC71)	0,1%	0,1%	0,0%	0,0%	100,0%
VIRTU ITG EUROPE LIMITED (213800EEC95PRUCEUP63)	0,0%	0,0%	0,0%	0,0%	66,7%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ICF BANK AG Wertpapierhandelsbank (529900E89HA1I45HB613)	58,4%	8,5%	0,0%	0,0%	57,1%
VIRTU ITG EUROPE LIMITED (213800EEC95PRUCEUP63)	0,2%	0,2%	0,1%	0,1%	99,4%
VIRTU FINANCIAL IRELAND LIMITED (549300XGSLFGN1IGYC71)	0,0%	0,0%	0,0%	0,0%	100,0%
Raiffeisen Centrobank AG (529900M2F7D5795H1A49)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Debt instruments Bonds				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ICF BANK AG Wertpapierhandelsbank (529900E89HA1I45HB613)	0,1%	0,2%	0,0%	0,0%	60,5%
Landesbank Baden-Württemberg (B81CK4ESI35472RHJ606)	0,0%	0,0%	0,0%	0,0%	100,0%
INTESA SANPAOLO BANK LUXEMBOURG (549300H62SNDRT0PS319)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Debt instruments Money markets instruments				
Notification if < 1 average trade per business day in the previous year	N				

Top five execution venues

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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	95,8%	5,7%	2,4%	6,0%	85,5%
BOERSE STUTTGART - FREIVERKEHR (STUB)	2,6%	60,6%	0,1%	0,0%	41,0%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	1,1%	29,4%	0,0%	0,0%	52,8%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	0,1%	0,1%	0,0%	0,0%	0,0%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	0,0%	0,1%	0,0%	0,0%	100,0%

Top five investment firms

Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Boerse Stuttgart cats GmbH (529900TW3YXY9C6T1G09)	0,0%	2,3%	0,0%	0,0%	100,0%
Bank Vontobel AG (549300L7V4MGECYRM576)	0,0%	0,1%	0,0%	0,0%	100,0%

Class of Instrument	Interest rates derivatives Futures and options 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	67,9%	50,0%	0,0%	0,0%	100,0%

Class of Instrument	Interest rates derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Interest rates derivatives Swaps, forwards, and other interest rates 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Interest rates derivatives Swaps, forwards, and other interest rates derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five execution venues

Class of Instrument	Credit derivatives Futures and options 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Credit derivatives Other credit 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Currency derivatives Futures and options 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Currency derivatives Swaps, forwards, and other currency 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	N				

Top five investment firms

Class of Instrument	Credit derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Credit derivatives Other credit derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Currency derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Currency derivatives Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	N				

Top five execution venues

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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	82,8%	10,2%	0,0%	4,2%	74,7%
BOERSE STUTTGART - FREIVERKEHR (STUB)	4,6%	22,8%	0,0%	0,0%	37,1%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	4,2%	20,7%	0,0%	0,0%	21,5%
BOERSE FRANKFURT - REGULIERTER MARKT (FRAA)	0,8%	4,7%	0,0%	0,0%	45,5%
BOERSE MUENCHEN - FREIVERKEHR (MUNB)	0,7%	21,5%	0,0%	0,0%	79,3%

Top five investment firms

Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ICF BANK AG Wertpapierhandelsbank (529900E89HA1145HB613)	0,3%	4,9%	0,0%	0,0%	100,0%

Class of Instrument	Equity derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
EUREX DEUTSCHLAND (XEUR)	48,3%	77,3%	67,1%	28,7%	100,0%

Class of Instrument	Equity derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five execution venues

Class of Instrument	Equity derivatives 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BOERSE STUTTGART - FREIVERKEHR (STUB)	45,2%	54,6%	0,0%	0,1%	87,6%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	23,2%	29,3%	0,0%	0,1%	88,5%
XETRA - REGULIERTER MARKT (XETA)	9,2%	2,6%	25,0%	62,3%	99,7%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	8,9%	3,4%	0,0%	0,1%	7,7%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	3,8%	2,8%	0,0%	0,1%	99,1%

Class of Instrument	Securitized Derivatives Other securitized 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Commodities derivatives and emission allowances derivatives Options 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Commodities derivatives and emission allowances derivatives Other commodities derivatives and emission allowances derivatives				
Notification if < 1 average trade per business day in the previous year	Y				

Top five investment firms

Class of Instrument	Equity derivatives Swaps and other equity derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Boerse Stuttgart cats GmbH (529900TW3YXY9C6T1G09)	1,0%	2,0%	0,0%	0,0%	99,8%
Bank Vontobel AG (549300L7V4MGECYRM576)	0,2%	0,0%	0,0%	0,0%	100,0%
JANE STREET FINANCIAL LIMITED (549300ZHEHX8M31RP142)	0,2%	0,1%	0,0%	0,0%	98,6%
BNP Paribas Emissions- und Handelsgesellschaft mbH	0,1%	0,0%	0,0%	0,0%	100,0%
CREDIT SUISSE SECURITIES SOCIEDAD DE VALORES SOCIEDAD ANONIMA	0,1%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Securitized Derivatives Other securitized derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Commodities derivatives and emission allowances derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Commodities derivatives and emission allowances derivatives Other commodities derivatives and emission allowances derivatives				
Notification if < 1 average trade per business day in the previous year	Y				

Top five execution venues

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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five investment firms

Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Top five execution venues

Class of Instrument	Contracts 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if < 1 average trade per business day in the previous year	N				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	39,7%	37,6%	0,0%	0,1%	5,8%
XETRA - REGULIERTER MARKT (XETA)	25,2%	21,0%	15,4%	64,7%	99,3%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	13,4%	24,0%	0,0%	0,1%	99,1%
BOERSE STUTTGART - FREIVERKEHR (STUB)	3,8%	4,8%	0,1%	0,1%	98,9%
BOERSE FRANKFURT - REGULIERTER MARKT (FRAA)	1,4%	3,1%	0,0%	0,1%	99,8%

Class of Instrument	Emission allowances				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Other instruments
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Top five investment firms

Class of Instrument	Contracts for difference				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ICF BANK AG Wertpapierhandelsbank (529900E89HA1145HB613)	2,1%	0,4%	0,0%	0,0%	73,4%
Flow Traders B.V. (549300CLJ19XDH12XV51)	1,8%	1,2%	0,1%	0,1%	99,3%
JANE STREET FINANCIAL LIMITED (549300ZHEHX8M31RP142)	1,1%	1,4%	0,1%	0,2%	99,1%
Optiver V.O.F. (7245009KRYSAYB2QCC29)	0,7%	0,7%	0,2%	0,5%	97,5%
COMMERZBANK Aktiengesellschaft (851WYGNLUQLFZBSYGB56)	0,4%	0,4%	0,0%	0,0%	100,0%

Class of Instrument	Emission allowances				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms 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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Other instruments
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