

retail clients

Class of Instrument	Equities — Shares & Depositary Receipts Tick size liquidity bands 5 and 6 (from 2 000 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 <input checked="" type="checkbox"/>	Percentage of directed orders
NEW YORK STOCK EXCHANGE, INC. (XNYS)	69,45%	69,14%	0,00%	100,00%	N.A.
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	27,76%	26,70%	0,00%	100,00%	N.A.
TOKYO STOCK EXCHANGE (XTKS)	2,02%	2,90%	0,00%	100,00%	N.A.
TORONTO STOCK EXCHANGE (XTSE)	0,47%	0,88%	0,00%	100,00%	N.A.
SINGAPORE EXCHANGE (XSES)	0,17%	0,25%	0,00%	100,00%	N.A.

Class of Instrument	Equities — Shares & Depositary Receipts Tick size liquidity bands 3 and 4 (from 80 to 1 999 trades per day)				
Notification if < 1 average trade per business day in the previous year	J				
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 ⁷	Percentage of directed orders
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	77,56%	56,06%	0,00%	100,00%	N.A.
EURONEXT - EURONEXT AMSTERDAM (XAMS)	7,26%	10,61%	0,00%	100,00%	N.A.
SIX SWISS EXCHANGE - BLUE CHIPS SEGMENT (XVTX)	5,88%	12,12%	0,00%	100,00%	N.A.
SIX SWISS EXCHANGE (XSWX)	3,74%	10,61%	0,00%	100,00%	N.A.
NASDAQ COPENHAGEN A/S (XCSE)	2,70%	6,06%	0,00%	100,00%	N.A.

Class of Instrument	Equities — Shares & Depositary 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 ^⑦	Percentage of directed orders
LONDON STOCK EXCHANGE (XLON)	24,68%	23,35%	0,00%	100,00%	N.A.
EURONEXT - EURONEXT PARIS (XPAR)	16,56%	18,56%	0,00%	100,00%	N.A.
XETRA (XETR)	9,77%	8,68%	0,00%	100,00%	N.A.
NASDAQ STOCKHOLM AB (XSTO)	7,01%	6,29%	0,00%	100,00%	N.A.
ELECTRONIC SHARE MARKET (MTAA)	5,92%	7,19%	0,00%	100,00%	N.A.

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
BLOOMBERG TRADING FACILITY LTD. (BMTF)	100,00%	100,00%	0,00%	100,00%	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Debt instruments Money markets instruments				
Notification if < 1 average trade per business day in the previous year	J				
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 ⁷	Percentage of directed orders
BLOOMBERG TRADING FACILITY LTD. (BMTF)	100,00%	100,00%	0,00%	100,00%	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name und Kennung (MIC oder LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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	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)	77,81%	46,74%	0,00%	100,00%	N.A.
CHICAGO BOARD OF TRADE (XCBT)	8,76%	25,78%	0,00%	100,00%	N.A.
MONTREAL EXCHANGE THE / BOURSE DE MONTREAL (XMOD)	4,61%	10,76%	0,00%	100,00%	N.A.
OSAKA EXCHANGE (XOSE)	3,50%	5,95%	0,00%	100,00%	N.A.
ICE FUTURES EUROPE - FINANCIAL PRODUCTS DIV (IFLL)	3,17%	7,08%	0,00%	100,00%	N.A.

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	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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	N.A.				
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
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	credit derivatives Other credit derivatives				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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	J				
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
CHICAGO MERCANTILE EXCHANGE (XCME)	100,00%	100,00%	0,00%	100,00%	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	currency derivatives Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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	J				
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 ⁷	Percentage of directed orders
HONG KONG FUTURES EXCHANGE LTD. (XHKF)	29,22%	13,33%	0,00%	100,00%	N.A.
CBOE FUTURES EXCHANGE (XCBF)	24,80%	32,73%	0,00%	100,00%	N.A.
EUREX DEUTSCHLAND (XEUR)	23,32%	29,70%	0,00%	100,00%	N.A.
CHICAGO MERCANTILE EXCHANGE (XCME)	13,88%	19,39%	0,00%	100,00%	N.A.
ICE FUTURES U.S. (IFUS)	8,77%	4,24%	0,00%	100,00%	N.A.

Class of Instrument	Equity Derivatives Swaps and other equity derivatives				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year	N.A.				
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
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Securitized Derivatives Other securitized derivatives				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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	N.A.				
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
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Contracts for difference				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

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
BLOOMBERG TRADING FACILITY LTD. (BMTF)	100,00%	100,00%	0,00%	100,00%	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Emission allowances				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Other instruments				
Notification if < 1 average trade per business day in the previous year	N.A.				
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 <input type="checkbox"/>	Percentage of directed orders
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.
Name and venue identifier(MIC or LEI)	N.A.	N.A.	N.A.	N.A.	N.A.