



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AA99  
Equity instruments- Shares and share certificates

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XLON London (EUL)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %



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# Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AA99  
Equity instruments- Shares and share certificates

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed 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
XNYS New York (NYSE) (NAY)	40,67 %	26,48 %	100,00 %	0,00 %	100,00 %
XNGS New York - NASDAQ (NAD)	28,75 %	23,81 %	100,00 %	0,00 %	100,00 %
XAMS Amsterdam (ENA)	11,13 %	16,95 %	100,00 %	0,00 %	94,38 %
XETR XETRA (EDE)	9,30 %	16,00 %	100,00 %	0,00 %	7,14 %
XSWX Zürich (ESE)	4,31 %	13,71 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AA99  
Equity instruments- Shares and share certificates

Tick Size liquidity band C and liquidity band D

Information on whether an average of < 1 trade per business day was executed 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
XETR XETRA (EDE)	35,91 %	41,89 %	100,00 %	0,00 %	46,00 %
XSWX Zürich (ESE)	20,58 %	20,28 %	100,00 %	0,00 %	100,00 %
XPAR Paris (EFP)	11,87 %	8,01 %	100,00 %	0,00 %	100,00 %
XDUB Dublin (EYD)	9,35 %	11,76 %	100,00 %	0,00 %	98,28 %
XVTX Zurich - Swiss Blue (ESZ)	3,53 %	7,30 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AA99  
Equity instruments- Shares and share certificates

Tick Size liquidity band E and liquidity band F

Information on whether an average of < 1 trade per business day was executed 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
XETR XETRA (EDE)	29,56 %	24,54 %	100,00 %	0,00 %	55,85 %
XNYS New York (NYSE) (NAY)	15,45 %	18,43 %	100,00 %	0,00 %	100,00 %
XPAR Paris (EFP)	12,86 %	10,73 %	100,00 %	0,00 %	96,76 %
XNGS New York - NASDAQ (NAD)	9,49 %	12,14 %	100,00 %	0,00 %	100,00 %
XLON London (EUL)	7,34 %	7,93 %	100,00 %	0,00 %	100,00 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AB99  
Equity instruments- Shares and share certificates

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed 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
XNGS New York - NASDAQ (NAD)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AB99  
Equity instruments- Shares and share certificates

Tick Size liquidity band C and liquidity band D

Information on whether an average of < 1 trade per business day was executed 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
XNYS New York (NYSE) (NAY)	37,08 %	33,33 %	100,00 %	0,00 %	100,00 %
XFRA Frankfurt (EDF)	34,07 %	33,33 %	100,00 %	0,00 %	50,00 %
XETR XETRA (EDE)	28,85 %	33,33 %	100,00 %	0,00 %	0,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AB99  
Equity instruments- Shares and share certificates

Tick Size liquidity band E and liquidity band F

Information on whether an average of < 1 trade per business day was executed 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
XETR XETRA (EDE)	50,54 %	66,67 %	100,00 %	0,00 %	0,00 %
XSTO Stockholm (SSS)	49,46 %	33,33 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AC99  
Exchange traded products (ETPs)Exc

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XETR XETRA (EDE)	64,45 %	86,75 %	100,00 %	0,00 %	75,33 %
BRFQ BLOCKMATCH MTF RFQ (BRFQ)	18,81 %	8,24 %	100,00 %	0,00 %	100,00 %
XLON London (EUL)	14,77 %	3,77 %	100,00 %	0,00 %	100,00 %
CHIX London - Chi-X Europ (EUI)	1,22 %	0,40 %	100,00 %	0,00 %	100,00 %
XSWX Zürich (ESE)	0,59 %	0,58 %	100,00 %	0,00 %	100,00 %





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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AD99  
other instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XVTX Zurich - Swiss Blue (ESZ)	85,33 %	80,00 %	100,00 %	0,00 %	100,00 %
XSWX Zürich (ESE)	14,67 %	20,00 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument AE99  
other instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XSUX Zürich (ESE)	51,50 %	22,73 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	48,49 %	63,64 %	100,00 %	0,00 %	100,00 %
XMAD Madrid (EEM)	0,01 %	9,09 %	100,00 %	0,00 %	50,00 %
XMCE Madrid-Soc.d.Bolsas (EES)	0,00 %	4,55 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BA10  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XOFF Bloomberg (BLOM)	95,79 %	78,21 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	2,35 %	10,78 %	100,00 %	0,00 %	93,94 %
XFRA Frankfurt (EDF)	1,72 %	10,89 %	100,00 %	0,00 %	48,00 %
DUSA Düsseldorf (EDD)	0,14 %	0,11 %	100,00 %	0,00 %	100,00 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BA11  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XOFF Bloomberg (BLOM)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BA12  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XSTU Stuttgart (EDS)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BA13  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XOFF Bloomberg (BLOM)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BA14  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XOFF Bloomberg (BLOM)	70,11 %	45,59 %	100,00 %	0,00 %	99,59 %
XSTU Stuttgart (EDS)	22,35 %	41,53 %	100,00 %	0,00 %	99,11 %
XFRA Frankfurt (EDF)	7,54 %	12,88 %	100,00 %	0,00 %	26,79 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BA15  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XOFF Bloomberg (BLOM)	61,76 %	25,77 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	28,71 %	59,79 %	100,00 %	0,00 %	100,00 %
XFRA Frankfurt (EDF)	9,20 %	14,09 %	100,00 %	0,00 %	0,00 %
XMUN München (EDM)	0,33 %	0,34 %	100,00 %	0,00 %	100,00 %





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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BE21  
securitized derivatives

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XSTU Stuttgart (EDS)	98,56 %	93,25 %	100,00 %	0,00 %	98,64 %
XFRA Frankfurt (EDF)	1,44 %	6,75 %	100,00 %	0,00 %	18,75 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BE23  
securitized derivatives

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XFRA Frankfurt (EDF)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument BE99  
securitized derivatives

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
DUSA Düsseldorf (EDD)	98,19 %	95,12 %	100,00 %	0,00 %	94,87 %
XSTU Stuttgart (EDS)	1,81 %	4,88 %	100,00 %	0,00 %	100,00 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument      BF99  
Exchange traded products (ETPs)

Tick Size                not used

Information on whether an average of < 1 trade per business day was executed 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
XETR XETRA (EDE)	100,00 %	100,00 %	100,00 %	0,00 %	53,54 %



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## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument C999  
no specific classification

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XSTU Stuttgart (EDS)	92,74 %	66,67 %	100,00 %	0,00 %	100,00 %
XHAM Hamburg (EDH)	7,26 %	33,33 %	100,00 %	0,00 %	100,00 %



## Top 5 venue reporting regarding MIFID II retail clients financial year 2019

Class of Instrument CA99  
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
XOFF Bloomberg (BLOM)	100,00 %	100,00 %	100,00 %	0,00 %	100,00 %