

Class of Instrument	AA99					
	Equity instruments- Shares and share cer	tificates				
Tick Size	not used					
Information on whether	an average of $< 1$ trade per business day wa	as executed in the previous	s year Y			
	enues 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
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	AA99							
	Equity instruments- Shares and share cer	rtificates						
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 N								
Top five execution v	enues 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		
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	97,61%	96,09%	100,00%	0,00%	100,00%		
UBS Europe SE (52990	07QVIQ7IO64NX37)	2,20%	3,11%	100,00%	0,00%	100,00%		
Jefferies GmbH (549300	04I3LZM39BWHQ75)	0,19%	0,79%	100,00%	0,00%	100,00%		



Class of Instrument	AA99							
	Equity instruments- Shares and share cer	rtificates						
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 v	enues 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		
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	96,22%	98,28%	100,00%	0,00%	100,00%		
Jefferies GmbH (54930	04I3LZM39BWHQ75)	3,66%	1,13%	100,00%	0,00%	100,00%		
UBS Europe SE (52990	07QVIQ7IO64NX37)	0,12%	0,59%	100,00%	0,00%	100,00%		



Class of Instrument	AA99					
	Equity instruments- Shares and share ce	rtificates				
Tick Size	liquidity band E and liquidity band F					
Information on whether	an average of $< 1$ trade per business day w	as executed in the previou	s year N			
Top five execution ve	enues 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
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	91,59%	94,57%	100,00%	0,00%	100,00%
UBS Europe SE (529900	07QVIQ7IO64NX37)	6,20%	4,27%	100,00%	0,00%	100,00%
Jefferies GmbH (549300	)4I3LZM39BWHQ75)	2,09%	1,14%	100,00%	0,00%	100,00%
J P Morgan SE FFM (54	9300ZK53CNGEEI6A29)	0,12%	0,01%	100,00%	0,00%	100,00%
BNY Mellon SA/NV Fra	ankfurt (MMYX0N4ZEZ13Z4XCG897)	0,00%	0,00%	100,00%	0,00%	100,00%



Class of Instrument	AB99					
	Equity instruments- Shares and share cer	tificates				
Tick Size	not used					
Information on whether	an average of $< 1$ trade per business day wa	s executed in the previous	s year Y			
	enues 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
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	AB99					
	Equity instruments- Shares and share cer	tificates				
Tick Size	liquidity band A and liquidity band B					
Information on whether	an average of $< 1$ trade per business day wa	s executed in the previous	s year Y			
	enues 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
Jefferies GmbH (549300	4I3LZM39BWHQ75)	69,73%	5,15%	100,00%	0,00%	100,00%
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	30,27%	94,85%	100,00%	0,00%	100,00%



Class of Instrument	AB99					
	Equity instruments- Shares and share cer	tificates				
Tick Size	liquidity band C and liquidity band D					
nformation on whether	an average of $< 1$ trade per business day wa	s executed in the previous	syear Y			
	enues 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
Iorgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	AB99					
	Equity instruments- Shares and share cert	tificates				
Tick Size	liquidity band E and liquidity band F					
Information on whether a	in average of $< 1$ trade per business day was	s executed in the previous	s year Y			
	nues 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
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



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							
	enues 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	
Flow Traders B V (54930	00CLJI9XDH12XV51)	39,52%	33,39%	100,00%	0,00%	100,00%	
Jane Street Financial Ltd	. (549300ZHEHX8M31RP142)	32,29%	40,88%	100,00%	0,00%	100,00%	
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	13,14%	12,10%	100,00%	0,00%	100,00%	
Optiver V.O.F. (7245009	PKRYSAYB2QCC29)	9,44%	9,84%	100,00%	0,00%	100,00%	
Soc Gen Paris (O2RNE8	IBXP4R0TD8PU41)	3,40%	2,22%	100,00%	0,00%	100,00%	



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Class of Instrument	AC99					
	Exchange traded products (ETPs)Exc					
Tick Size	liquidity band A and liquidity band B					
Information on whether	an average of $< 1$ trade per business day wa	as executed in the previous	s year N			
	enues 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
Flow Traders B V (5493)	00CLJI9XDH12XV51)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	AD99						
	other instruments						
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 N							
Top five execution venues ranked in terms of trading volumes (descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage of directed orders							
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	AE99					
	other instruments					
Tick Size	not used					
nformation on whether a	an average of $< 1$ trade per business day was	s executed in the previous	syear N			
	nues 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
lorgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	AE99						
	other instruments						
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 classProportion of orders executed as percentage of total in that classPercentage of aggressive ordersPercentage of directed orders							
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%	



Class of Instrument	AE99					
	other instruments					
Tick Size	liquidity band C and liquidity band D					
Information on whether a	an average of $< 1$ trade per business day wa	s executed in the previous	s year N			
	nues 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
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



BA10					
Debt instruments					
not used					
In average of $< 1$ trade per business day wa	s executed in the previou	s year N			
nues 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
EU (6TJCK1B7E7UTXP528Y04)	22,81%	22,71%	100,00%	0,00%	100,00%
X3CZP3CK64YBHON1LE12)	15,89%	14,69%	100,00%	0,00%	100,00%
UWSFPU8MPRO8K5P83)	11,54%	11,57%	100,00%	0,00%	100,00%
nd (2G5BKIC2CB69PRJH1W31)	11,08%	10,97%	100,00%	0,00%	100,00%
FZYICNSX8D621K86)	5,88%	5,15%	100,00%	0,00%	100,00%
	Debt instruments not used in average of < 1 trade per business day wa nues ranked in terms of trading volumes (descending order) EU (6TJCK1B7E7UTXP528Y04) CUWSFPU8MPRO8K5P83) ad (2G5BKIC2CB69PRJH1W31)	Debt instruments not usedan average of < 1 trade per business day was executed in the previou	Debt instruments not usedan average of < 1 trade per business day was executed in the previous year	Debt instruments not used an average of < 1 trade per business day we executed in the previour NNmess ranked in terms of trading volumes (descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that classPercentage of passive ordersEU (6TJCK1B7E7UTXP528Y04)22,81%22,71%100,00%GCZP3CK64YBHON1LE12)15,89%14,69%100,00%JWSFPU8MPR08K5P83)11,54%11,57%100,00%ad (2G5BKIC2CB69PRJH1W31)11,08%10,97%100,00%	Debt instruments not used an average of < 1 trade per business day was executed in the previous realNNRecentage of secuted as a percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersEU (6TJCK1B7E7UTXP528Y04)22,81%22,71%100,00%0,00%G3CZP3CK64YBHON1LE12)15,89%14,69%100,00%0,00%JWSFPU8MPR08K5P83)11,54%11,57%100,00%0,00%ad (2G5BKIC2CB69PRJH1W31)11,08%10,97%100,00%0,00%



ebt instruments t used verage of $< 1$ trade per business day was ranked in terms of trading volumes cending order)	Proportion of volume	year Y Proportion of orders			
rerage of $< 1$ trade per business day was ranked in terms of trading volumes	Proportion of volume				
ranked in terms of trading volumes	Proportion of volume		D. C.		
		Proportion of orders	D ( )		
	traded as a percentage of total in that class	executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
ZK53CNGEEI6A29)	24,28%	22,74%	100,00%	0,00%	100,00%
P4R0TD8PU41)	19,05%	18,01%	100,00%	0,00%	100,00%
(6TJCK1B7E7UTXP528Y04)	13,61%	12,66%	100,00%	0,00%	100,00%
(IQ7IO64NX37)	9,99%	9,30%	100,00%	0,00%	100,00%
TCNSX8D621K86)	5,01%	3,13%	100,00%	0,00%	100,00%
	94R0TD8PU41) (6TJCK1B7E7UTXP528Y04) IQ7IO64NX37)	P4R0TD8PU41) 19,05% (6TJCK1B7E7UTXP528Y04) 13,61% IQ7IO64NX37) 9,99%	4R0TD8PU41) 19,05% 18,01%   (6TJCK1B7E7UTXP528Y04) 13,61% 12,66%   IQ7IO64NX37) 9,99% 9,30%	4R0TD8PU41)19,05%18,01%100,00%(6TJCK1B7E7UTXP528Y04)13,61%12,66%100,00%IQ7IO64NX37)9,99%9,30%100,00%	4R0TD8PU41)19,05%18,01%100,00%0,00%(6TJCK1B7E7UTXP528Y04)13,61%12,66%100,00%0,00%IQ7IO64NX37)9,99%9,30%100,00%0,00%



BA13					
Debt instruments					
not used					
In average of $< 1$ trade per business day wa	as executed in the previou	s year Y			
	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
93006QMFDDMYWIAM13)	17,09%	15,31%	100,00%	0,00%	100,00%
300ZK53CNGEEI6A29)	13,30%	11,80%	100,00%	0,00%	100,00%
(BFXS5XCH7N0Y05NIXW11)	10,26%	8,91%	100,00%	0,00%	100,00%
FZYICNSX8D621K86)	7,09%	6,22%	100,00%	0,00%	100,00%
7QVIQ7IO64NX37)	5,08%	4,45%	100,00%	0,00%	100,00%
	Debt instruments not used	Debt instruments not usedan average of < 1 trade per business day was executed in the previou	Debt instruments not used an average of < 1 trade per business day was executed in the previous yearYnues ranked in terms of trading volumes (descending order)Proportion of volume traded as a percentage of total in that classProportion of orders executed as percentage of total in that class93006QMFDDMYWIAM13)17,09%15,31%9300ZK53CNGEEI6A29)13,30%11,80%(BFXS5XCH7N0Y05NIXW11)10,26%8,91%FZYICNSX8D621K86)7,09%6,22%	Debt instruments not usedan average of <1 trade per business day we secuted in the previour Y	Debt instruments not used an average of < 1 trade per business day was executed in the previous real (descending order)Proportion of volume traded as a percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersP3006QMFDDMYWIAM13)17,09%15,31%100,00%0,00%BFXS5XCH7N0Y05NIXW11)10,26%8,91%100,00%0,00%FZYICNSX8D621K86)7,09%6,22%100,00%0,00%



Class of Instrument	BA14					
	Debt instruments					
Tick Size	not used					
Information on whether a	in average of $< 1$ trade per business day wa	s executed in the previous	s year N			
	nues 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
Jane Street Financial Ltd.	(549300ZHEHX8M31RP142)	12,38%	11,74%	100,00%	0,00%	100,00%
Goldman Sachs Bk Europ	be SE (8IBZUGJ7JPLH368JE346)	8,04%	8,02%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTW	FZYICNSX8D621K86)	7,65%	7,60%	100,00%	0,00%	100,00%
DZ Bank AG (529900HN	IOAA1KXQJUQ27)	5,75%	5,75%	100,00%	0,00%	100,00%
P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	5,49%	5,59%	100,00%	0,00%	100,00%



Class of Instrument	BA15					
	Debt instruments					
Tick Size	not used					
Information on whether a	an average of $< 1$ trade per business day wa	s executed in the previous	s year N			
-	nues 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
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	37,96%	82,77%	100,00%	0,00%	100,00%
RBC Capital Markets Eu	rope (549300SXSTGQY3EA1B18)	9,96%	1,68%	100,00%	0,00%	100,00%
Landesbk Baden-Württ S	tgt (B81CK4ESI35472RHJ606)	8,89%	2,09%	100,00%	0,00%	100,00%
Citigroup Global Markets	s EU (6TJCK1B7E7UTXP528Y04)	5,78%	0,92%	100,00%	0,00%	100,00%
Toronto Dominion Bk Ld	ln (PT3QB789TSUIDF371261)	4,46%	1,59%	100,00%	0,00%	100,00%



BD21					
Equity derivatives					
not used					
an average of $< 1$ trade per business day wa	s executed in the previous	s year Y			
enues 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
9300ZK53CNGEEI6A29)	100,00%	100,00%	100,00%	0,00%	100,00%
	Equity derivatives not used an average of < 1 trade per business day wa enues ranked in terms of trading volumes (descending order)	Equity derivatives not used an average of < 1 trade per business day was executed in the previou enues ranked in terms of trading volumes (descending order) Proportion of volume traded as a percentage of total in that class	Equity derivatives   not used   an average of < 1 trade per business day was executed in the previous year	Equity derivatives   not used   an average of < 1 trade per business day was executed in the previous year	Equity derivatives not used an average of < 1 trade per business day was executed in the previous year Y enues ranked in terms of trading volumes (descending order) Proportion of volume traded as a percentage of total in that class Proportion of orders of total in that class of total in that class Proportion of orders trade date as percentage of passive orders Percentage of passive orders of total in that class Proportion of total Proportion of to



Class of Instrument	BD99					
	other derivatives					
Tick Size	not used					
Information on whether	an average of $< 1$ trade per business day was	s executed in the previous	s year Y			
	enues 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
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	BE21					
	securitized derivatives					
Tick Size	not used					
Information on whether	an average of $< 1$ trade per business day wa	s executed in the previous	s year Y			
	enues 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
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	BE99					
	securitized derivatives					
Tick Size	not used					
Information on whether	an average of $< 1$ trade per business day wa	as executed in the previou	s year Y			
	enues 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
Raiffeisen Bank Intern. A	AG (9ZHRYM6F437SQJ6OUG95)	45,66%	44,24%	100,00%	0,00%	100,00%
Erste Group Bank AG W	ien (PQOH26KWDF7CG10L6792)	42,35%	45,33%	100,00%	0,00%	100,00%
HSBC Continental Europ	be SA (F0HUI1NY1AZMJMD8LP67)	8,92%	7,61%	100,00%	0,00%	100,00%
UBS Europe SE (529900	07QVIQ7IO64NX37)	2,95%	2,54%	100,00%	0,00%	100,00%
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	0,12%	0,28%	100,00%	0,00%	100,00%
Morgan Stanley Europe S	SE (54930056FHWP7GIWYY08)	0,12%	0,28%	100,00%	0,00%	100,00%



Class of Instrument	BF99					
	Exchange traded products (ETPs)					
Tick Size	not used					
Information on whether	an average of $< 1$ trade per business day wa	s executed in the previous	s year Y			
	enues 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
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Class of Instrument	BF99					
	Exchange traded products (ETPs)					
Tick Size	liquidity band A and liquidity band B					
Information on whether	an average of $< 1$ trade per business day wa	as executed in the previous	s 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 classProportion of orders executed as percentage of total in that classPercentage of passive ordersPercentage of aggressive ordersPercentage directed or						
Morgan Stanley Europe	SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



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							
-	nues 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	
Vestima CBL (54930001	L514RA0SXJJ44)	98,87%	98,36%	100,00%	0,00%	100,00%	
Metzler AG (529900IOG	1ENLW4SUU53)	1,13%	1,64%	100,00%	0,00%	100,00%	



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 N							
	nues 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	
J P Morgan SE FFM (549	9300ZK53CNGEEI6A29)	39,98%	40,40%	100,00%	0,00%	100,00%	
Citigroup Global Markets	s EU (6TJCK1B7E7UTXP528Y04)	16,54%	16,38%	100,00%	0,00%	100,00%	
Deutsche Bk Ffm (7LTW	FZYICNSX8D621K86)	13,66%	13,66%	100,00%	0,00%	100,00%	
BofA Securities Europe S	SA (549300FH0WJAPEHTIQ77)	7,73%	7,73%	100,00%	0,00%	100,00%	
Barclays Bank PLC Irela	nd (2G5BKIC2CB69PRJH1W31)	4,61%	4,62%	100,00%	0,00%	100,00%	



Class of Instrument	CB99						
	Other instruments						
Tick Size	not used						
Information on whether an average of $< 1$ trade per business day was executed in the previous year N							
	nues 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	
Vestima CBL (5493000L	L514RA0SXJJ44)	99,98%	99,93%	100,00%	0,00%	100,00%	
Metzler AG (529900IOG	1ENLW4SUU53)	0,02%	0,07%	100,00%	0,00%	100,00%	