Top 5 Reporting - Baader Bank Asset Management & Services

Period 1.1.2021 - 31.12.2021 Client Category: Professional Clients



Class of Instrument	Equit	ies - Shares and Depositary	Receipts witho	ut liquitdy band	
Notification if <1 average trade per business day in the previous year		Y			
	Proportion of volume	Proportion of orders			
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class		aggressive orders	directed orders
Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	45,84%	48,82%	6,81%	93,19%	0,00%
Morgan Stanley Europe SE, 54930056FHWP7GIWYY08 Joh. Berenberg, Gossler & Co. KG, 529900UC20D7ll24Z667	11,46% 10,92%	5,89% 0,32%	65,99% 47,83%	34,01% 52,17%	0,00%
Hauck Aufhaeuser Lampe Privatbank AG, 529900OOZP78CYPYF471	7,01%	5,05%	0,00%	100,00%	0,00%
J.P. Morgan SE, 549300ZK53CNGEEI6A29	4,40%	0,85%	48,63%	51,37%	0,00%
Class of Instrument Notification if <1 average trade per business day in the previous year	Equities - S	Shares and Depositary Rece	·	iquidity bands 5 an	d 6
Troundation in the day of the portion of the provided your					
	Proportion of volume traded as a percentage	Proportion of orders	Doroontogo of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	directed orders
Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	64,58%	76,11%	2,30%	97,70%	0,00%
Morgan Stanley Europe SE, 54930056FHWP7GIWYY08	6,17%	4,58%	67,28%	32,72%	0,00%
Hauck Aufhaeuser Lampe Privatbank AG, 529900OOZP78CYPYF471	5,68%	0,72%	0,09%	99,91%	0,00%
SANFORD C. BERNSTEIN LIMITED, 54930049G8WQ5OOUSD19 Jefferies GmbH, 5493004I3LZM39BWHQ75	3,79% 3,71%	1,20% 3,00%	32,30% 1,88%	67,70% 98,12%	0,00%
Jelienes Gillon, 349300413LZINI39BWNQ73	3,7176	3,00 %	1,0076	90,1276	0,00%
Class of Instrument	Fauities - S	Shares and Depositary Rece	inte: Tick eiza li	iguidity hands 3 an	d 4
Notification if <1 average trade per business day in the previous year	Equities - 3	N		iquidity ballus 3 all	u 4
Touristion if a furnings date per publicas day in the previous year					
	Proportion of volume	Proportion of orders	D 1	D	D '
Ton five execution vanues ranked in terms of trading values (deconding order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage o directed orders
Top five execution venues ranked in terms of trading volumes (descending order)					
Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Morgan Stanley Europe SE, 54930056FHWP7GIWYY08	40,40% 11,23%	34,86% 12,02%	13,24% 57,99%	86,76% 42,01%	0,00%
KEPLER CHEUVREUX, 9695005EOZG9X8IRJD84	10,22%	12,93%	66,52%	33,48%	0,00%
Skandinaviska Enskilda Banken AB, F3JS33DEI6XQ4ZBPTN86	8,60%	9,03%	53,53%	46,47%	0,00%
M.M.Warburg & CO (AG & Co.) Kommanditgesellschaft auf Aktien, MZI1VDH2BQLFZGLQDO60	6,34%	3,36%	3,09%	96,91%	0,00%
Class of Instrument	Equities - S	hares and Depositary Rece	eipts: Tick size li	quidity bands 1 an	d 2
Notification if <1 average trade per business day in the previous year		N			
	Proportion of volume	Proportion of orders			
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders
Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	66,07%	75,81%	2,29%	97,71%	0,00%
Morgan Stanley Europe SE, 54930056FHWP7GIWYY08	5,07%	3,27%	36,83%	63,17%	0,00%
UBS Europe SE, 5299007QVIQ7IO64NX37 Hauck Aufhaeuser Lampe Privatbank AG, 529900OOZP78CYPYF471	4,18% 2,99%	1,76% 0,54%	0,00%	100,00%	0,00%
Joh. Berenberg, Gossler & Co. KG, 529900UC2OD7II24Z667	2,85%	1,31%	69,04%	30,96%	0,00%
Class of Instrument		Debt Instrum	ents: Bonds		
Class of Instrument Notification if <1 average trade per business day in the previous year		Debt Instrum N			
	Proportion of volume				
Notification if <1 average trade per business day in the previous year	traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	aggressive orders	directed orders
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29	traded as a percentage of total in that class 9,52%	Proportion of orders executed as percentage of total in that class 8,28%	Percentage of passive orders 0,00%	aggressive orders 100,00%	directed orders
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528	traded as a percentage of total in that class 9,52% 6,48%	Proportion of orders executed as percentage of total in that class 8,28% 5,68%	Percentage of passive orders 0,00% 0,00%	aggressive orders 100,00% 100,00%	0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29	traded as a percentage of total in that class 9,52%	Proportion of orders executed as percentage of total in that class 8,28%	Percentage of passive orders 0,00%	aggressive orders 100,00%	0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04	traded as a percentage of total in that class 9,52% 6,48% 6,25%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,35%	Percentage of passive orders 0,00% 0,00% 0,00%	aggressive orders 100,00% 100,00% 100,00%	0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK18TE7UTXP528Y04 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,56% 5,56%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00%	aggressive orders 100,00% 100,00% 100,00% 100,00%	0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 61JCK1B7E7UTXP528Y04 BofA Securities Europe AG, 549300FH0WJAPEHTIQ77	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,56% 5,56%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,35% 5,68% 2,78%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0.00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97% 5,59%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,35% 6,68% 2,78%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0.00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,59% 5,59%	Proportion of orders executed as percentage of total in that class 5,68% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0.00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	directed orders 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK187E7UTXP528Y04 BofA Securities Europe SA, 549300FHPMUJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year	traded as a percentage of total in that 19,52% 9,52% 6,48% 6,25% 5,97% 7,59%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	directed orders 0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK55CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengeselischaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97% 5,59%	Proportion of orders executed as percentage of total in that class 8.28% 5.68% 5.35% 2.78% Debt Instruments Y Proportion of orders executed as percentage of total in that class	Percentage of passive orders 0.00% 0.00% 0.00% 0.00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	directed orders 0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK187E7UTXP528Y04 BofA Securities Europe SA, 549300FHPMUJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year	traded as a percentage of total in that 19,52% 9,52% 6,48% 6,25% 5,97% 7,59%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK187E7UTXP528Y04 B0fA Securities Europe AG, 549300FH0WJAPEHTIQT7 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ606 Landesbank Hessen-Thuringen Girozentrale, DIZESSCFO5K3I5R58 DZ BANK AG Deutsche Zentral-Genosenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97% 5,59%	Proportion of orders executed as percentage of total in that class 5,68% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% C,00% C	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00%	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 61JCK187E7UTXP528Y04 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESi35472RHJ666 Landesbank Hessen-Thuringen Girozentrale, DIZESSCFO5K3I5R58	traded as a percentage of total in that 1.8 48% 6.25% 6.48% 5.59% 5.59%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18% 40,18% 18,75%	Percentage of passive orders 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 8 Percentage of aggressive orders N.A. N.A.	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 61JCK187E7UTXP528Y04 BofA Securities Europe AG, 549300F100V3APEHTIQT7 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ806 Landesbank Hessen-Thuringen Girozentrale, DIZESSCFO5K3I5R58 DZ BANK AG Deutsche Zentral-Genosenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97% 5,59% Proportion of volume traded as a percentage of total in that class 42,36% 21,30% 17,17%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,568% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18% 18,75% 25,00%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% E. Money Markets	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 8 Percentage of aggressive orders N.A. N.A. N.A. N.A.	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of directed orders N.A. N.A. N.A.
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W2ZLROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK187E7UTXP528Y04 BofA Securities Europe AG, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ606 Landesbank Hessen-Thuringen Girozentrale, DIZES5CFO5K3I5R58 DZ BANK AG Deutsche Girozentrale, GWZPZJM8XOY22M4GG883	raded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97% 5,59% 6,48% 6,225% 6,48% 6,225% 6,48% 6,225% 6,48% 6,21,30% 6,48% 6,4	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18% 18,75% 25,00% 8,93%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% *Money Markets Percentage of passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A.	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 8 Percentage of aggressive orders N.A. N.A. N.A. N.A.	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of directed orders N.A. N.A. N.A.
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W2ZLROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK187E7UTXP528Y04 BofA Securities Europe AG, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ606 Landesbank Hessen-Thuringen Girozentrale, DIZES5CFO5K3I5R58 DZ BANK AG Deutsche Girozentrale, GWZPZJM8XOY22M4GG883	raded as a percentage of total in that class 9,52% 6,48% 6,25% 5,59% 5,59% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,21,30% 6,21,30% 6,95% 6,95%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18% 18,75% 25,00% 8,93%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of passive orders N.A. N.A. N.A. N.A.	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% N.A. N.A. N.A. N.A. N.A. N.A.	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of directed orders N.A. N.A. N.A. N.A.
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 61JCK1B7E7UTXP52BY04 BofA Securities Europe AG, 549300FH0WJAPEHTIQT7 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESi35472RHJ606 Landesbank Hessen-Thuringen Girozentrale, DIZES5CFO5K3I5R58 DZ BANK AG Deutsche Zentral-Genosensenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27 DekaBank Deutsche Girozentrale, 0W2PZJM8XOY22M4GG883 Commerzbank Aktiengesellschaft, 851WYGNLUQLFZBSYGB56	raded as a percentage of total in that class 9,52% 6,48% 6,25% 5,59% 5,59% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,21,30% 6,21,30% 6,95% 6,95%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18% 18,75% 25,0% 8,93% 3,57%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0.00% *Money Markets Percentage of passive orders N.A. N.A. N.A. N.A. N.A. N.A.	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% N.A. N.A. N.A. N.A. N.A. N.A.	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of directed orders N.A. N.A. N.A. N.A.
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Clitgroup Global Markets Europe AG, 6T.JCK187E7UTXP528Y04 BofA Securities Europe AG, 549300FHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ606 Landesbank Hessen-Thuringen GirozentraleLandesbank Hessen-Thuringen Girozentrale, DIZES5CFO5K3I5R58 DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27 DekaBank Deutsche Girozentrale, 0W2PZJM8XOY22M4GG883 Commerzbank Aktiengesellschaft, 851WYGNLUQLFZBSYGB56	raded as a percentage of total in that class 9,52% 6,48% 6,25% 5,59% 5,59% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,21,30% 6,21,30% 6,95% 6,95%	Proportion of orders executed as percentage of total in that class 5,68% 5,68% 5,68% 2,78% Debt Instruments Y Proportion of orders executed as percentage of total in that class 40,18% 18,75% 25,00% 8,93% 3,57%	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0.00% *Money Markets Percentage of passive orders N.A. N.A. N.A. N.A. N.A. N.A.	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% N.A. N.A. N.A. N.A. N.A. N.A.	directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of directed orders N.A. N.A. N.A. N.A.
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Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZKS3CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 BofA Securities Europe AS, 549300FHOWJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ606 Landesbank Hessen-Thuringen GirozentraleLandesbank Hessen-Thuringen Girozentrale, DIZES5CFO5K3I5R58 DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27 DekaBank Deutsche Girozentrale, 0W2PZJM8XQY22M4GG883 Commerzbank Aktiengesellschaft, 851WYGNLUQLFZBSYGB56 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) UBS AG, BFM8T61CT2L1QCEMIK50 DZ BANK AG Zentral-Genossenschaftsbank, 529900HNOAA1KXQJUQ27 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year	traded as a percentage of total in that class 9,52% 6,48% 6,25% 5,97% 5,59% 5,59% 5,59% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,	Proportion of orders executed as percentage of total in that class 8.28% 5.68% 5.585% 2.78% Debt Instruments Proportion of orders executed as percentage of total in that class 40.18% 18.75% 25.00% 8.93% 3.57% Ivatives: Futures and Optic N Proportion of orders executed as percentage of total in that class 3.40% 3.57% Ivatives: Futures and Optic N Proportion of orders executed as percentage of total in that class 38.42% 31.13% 30.45% Derivatives: Swaps, forwar	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0.00% *Money Markets **Percentage of passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% S Percentage of aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	Percentage of directed orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A
Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) J.P. Morgan AG, 549300ZK53CNGEEI6A29 Goldman Sachs International, W22LROWP2IHZNBB6K528 Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 B0fA Securities Europe SA, 549300FH0WJAPEHTIQ77 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Landesbank Baden-Wurttemberg, B81CK4ESI35472RHJ606 Landesbank Hessen-Thuringen Girozentrale, Landesbank Hessen-Thuringen Girozentrale, DIZESSCFO5K3I5R58 DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27 DekaBank Deutsche Girozentrale, 0W2PZJM8XOY22M4GG883 Commerzbank Aktiengesellschaft, 851WYGNLUQLFZBSYGB56 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) UBS AG, BFM8T61CT2L1QCEMIK50 DZ BANK AG Zentral-Genossenschaftsbank, 529900HNOAA1KXQJUQ27 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year	traded as a percentage of total in that class (9,52%) 6,48% 6,25% 5,97% 5,59% 5,59% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48% 6,25% 6,48%	Proportion of orders executed as percentage of total in that class 8,28% 5,68% 5,68% 2,78% Debt Instruments Proportion of orders executed as percentage of total in that class 40,18% 25,00% 8,93% 3,57% Proportion of orders executed as percentage of total in that class 40,18% 18,75% 25,00% 6,93% 3,57% Proportion of orders executed as percentage of total in that class 13,13% 30,45% Derivatives: Swaps, forwar	Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0.00% *Money Markets **Percentage of passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% A s Percentage of aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	Percentage of directed orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% Percentage of directed orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A

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Class of Instrument	Credit Derivat	tives: Futures and Options	Admitted to Tra	ding on a Trading \	/enue
Notification if <1 average trade per business day in the previous year		<u>r</u>			
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	Percentage of
op five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed order
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument		Credit Derivatives: Ot	her dredit deriva	atives	
Notification if <1 average trade per business day in the previous year		Y	,		
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage of directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument	Currency Deriv	ratives: Futures and Options	s Admitted to Tr	rading on a Trading	Venue
lotification if <1 average trade per business day in the previous year		N	i		
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage of directed order
M.M. Warburg & CO (AG & Co.) Kommanditge, MZI1VDH2BQLFZGLQDO60	50,88%	38,30%	N.A.	N.A.	N.A
Baader Bank AG, 529900JFOPPEDUR61H13 ISBC Trinkaus & Burkhardt AG (Germany), MP6I5ZYZBEU3UXPYFY54	47,89% 1,23%	57,39% 4,31%	N.A. N.A.	N.A. N.A.	N.A N.A
13BC Hillinaus & Burkhalut AG (Germany), MF013Z1ZBE030AF1F134	1,2370	4,3176	IN.A.		IN.F
Class of Instrument	Currency	y Derivatives: Swaps, forwa	<u> </u>	urrency derivatives	3
Notification if <1 average trade per business day in the previous year		Υ			
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders		directed orders
Hauck & Aufhauser Privatbankiers KGaA, 529900OOZP78CYPYF471 I.P. Morgan AG, 549300ZK53CNGEEI6A29	56,91% 16,54%	53,78% 1,68%	N.A. N.A.	N.A. N.A.	N.A N.A
HSBC TRINKAUS & BURKHARDT AG, JUNT405OW8OY5GN4DX16	12,11%	12,61%	N.A.	N.A.	N.A
Bayerische Landesbank, VDYMYTQGZZ6DU0912C88 CACEIS BANK, 96950023SCR9X9F3L662	8,12% 2,43%	0,84% 6,72%	N.A.	N.A.	N.A N.A
STOLIO BINNI, 5000002000 NONOT OLOGE	2,4070	0,7270	14.7 (.	14.7 (.	14.7
Class of Instrument		Structured finan			
lotification if <1 average trade per business day in the previous year					
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class			directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument	Equity Derivat	tives: Futures and Options	Admitted to Tra	ding on a Trading	Venue
Notification if <1 average trade per business day in the previous year		N			
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	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
M.M.Warburg & CO (AG & Co.) Kommanditgesellschaft auf Aktien, MZI1VDH2BQLFZGLQDO60	67,66%	39,22%	N.A.	N.A.	N.A
Baader Bank AG, 529900JFOPPEDUR61H13 JBS AG, BFM8T61CT2L1QCEMIK50	31,54% 0,30%	26,30% 29,14%	N.A.	N.A. N.A.	N.A N.A
J.P. MORGAN AG, 549300ZK53CNGEEI6A29 ODDO BHF Aktiengesellschaft, 529900XLAZ15LYK8XK27	0,22% 0,14%	0,02% 0,16%	N.A.	N.A.	N.A N.A
SEES BIT Finding GOOD BITTE TO ETHORIZE	0,1470	0,1070	14.7 (.	14.7 (.	14.7
Class of Instrument	_		d .4b	4-4-4	
Notification if <1 average trade per business day in the previous year		Equity Derivatives: Swaps a		derivatives	
touncation if a verage trade per business day in the previous year					
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
IDO AO DEMOTO COTO COCEMUSEO	of total in that class	total in that class	passive orders	aggressive orders	directed order
					directed order
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JNICREDIT BANK AG, 2ZCNRR8UK83OBTEK2170	of total in that class 26,99% 15,53% 14,02%	total in that class 26,00% 16,00% 13,50%	passive orders N.A. N.A. N.A.	n.A. N.A. N.A.	N.A N.A N.A
REDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 NINCREDIT BANK AG, 2ZCNRR8UK830BTEK2170 NNP Paribas, ROMUWSFPU8MPRO8K5P83	of total in that class 26,99% 15,53%	total in that class 26,00% 16,00%	passive orders N.A. N.A.	aggressive orders N.A. N.A.	N.A N.A N.A N.A
REDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 NINCREDIT BANK AG, 2ZCNRR8UK830BTEK2170 NNP Paribas, ROMUWSFPU8MPRO8K5P83	of total in that class 26,99% 15,53% 14,02% 11,89%	total in that class 26,00% 16,00% 13,50% 12,00%	passive orders N.A. N.A. N.A. N.A.	N.A. N.A. N.A. N.A. N.A.	N.A N.A N.A N.A
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JNICREDIT BANK AG, 2ZCNRR8JUK83OBTEK2170 BNP Paribas, R0MUWSFPU8MPRO8K5P83 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54%	total in that class 26,00% 16,00% 13,50% 12,00% 10,50%	passive orders N.A. N.A. N.A. N.A. N.A.	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A.	N.A N.A N.A N.A
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JNICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 SNP Paribas, ROMUWSFPU8MPROBK5P83 3ofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54%	total in that class 26,00% 16,00% 13,50% 12,00%	passive orders N.A. N.A. N.A. N.A. N.A.	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A.	N.A N.A N.A N.A
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JNICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INIP Paribas, ROMUWSFPU8MPROBK5P83 INIP Paribas, ROMUWSFPU8MPROBK5P83 INIP SECURITIES Europe SA, 549300FH0WJAPEHTIQ77	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54%	total in that class 26,00% 16,00% 13,50% 12,00% 10,50%	passive orders N.A. N.A. N.A. N.A. N.A.	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A.	N.A N.A N.A N.A
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 INICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 SNP Paribas, R0MUWSFPU8MPRO8K5P83 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year	of total in that class 26,99% 15,53% 14,02% 9,54% Sec	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Parameter of the control of the cont	aggressive orders N.A. N.A. N.A. N.A. N.A. Percentage of	directed orders N.A N.A N.A N.A N.A
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JNICREDIT BANK AG, Z2CNRRBUK83OBTEK2170 SNP Paribas, ROMUWSFPUSMPRO8K5F83 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Presentage of passive orders	aggressive orders N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders	directed orders N.A N.A N.A N.A N.A N.A Orders Percentage of directed orders
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 INICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 SNP Paribas, R0MUWSFPU8MPRO8K5P83 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	of total in that class 26,99% 15,53% 14,02% 9,54% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82%	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50%	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Orderificator	aggressive orders N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders 100,00%	Percentage o directed orders N.A. N.A. N.A. N.A. N.A. On the control of the contr
CIREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 SNP Paribas, ROMUWSFPU8MPROBK5P83 30fA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) HSBC TRINIKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Tredit Suisse Securities (Europe) Limited, DL6FFRRIF74S01HE2M14	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 20,95%	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% Curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17%	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Orders Percentage of passive orders 0,00% 0,00% 0,00%	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. 100.00% 100.00% 100.00%	Percentage of directed orders
CIEDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 INICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INICREDIT BANK AG, 2ZCNRR8UK80BTEK2170 INICREDIT BANK AG, 2ZCNRRBUK80BTEK2170 INICREDIT BANK AG	of total in that class 26,99% 15,53% 14,02% 9,54% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82%	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50%	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Orderificator	aggressive orders N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders 100,00%	Percentage of directed orders
IREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INP Paribas, R0MUWSFPU8MPROBKSP83 IofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Iotification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) ISBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Isaader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Credit Suisse Securities (Europe) Limited, DI6FFRRLF74S01HE2M14 ISBS Europe SE, 5299007QVIQ7IO64NX37	of total in that class 26,99% 15,53% 14,02% 9,54% 9,54% 9,54% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 20,95% 6,55% 6,55%	total in that class 26,00% 16,00% 13,50% 13,50% 10,50% 2uritized Derivatives: Warrat Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67%	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Orderification	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. 100,000 100,00% 100,00% 100,00%	Percentage of directed orders Parameter of the control of the con
DREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INNP Paribas, R0MUWSFPU8MPRO8K5P83 30fA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year fop five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktiengesellschaft, 529900.FOPPEDUR61H13 Tredit Suisse Securities (Europe) Limited, D46FFRLF74S01HE2M14 JBS Europe SE, 5299007QVIQ71064NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 20,95% 6,55% 6,55%	total in that class 26,00% 16,00% 13,50% 13,50% 10,50% 2uritized Derivatives: Warrat Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67%	passive orders	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. 100.00% 100.00% 100.00% 100.00%	Percentage of directed orders Parameter of the control of the con
IREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRRBUK830BTEK2170 INP Paribas, R0MUWSFPU8MPROBKSP83 IofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Iotification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) ISBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Isaader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Tedil Suisse Securities (Europe) Limited, DL6FFRRLF74S01HE2M14 JBS Europe SE, 5299007QVIQ7IO64NX37 andesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 20,95% 6,55% 6,55%	total in that class	passive orders	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. 100.00% 100.00% 100.00% 100.00%	Percentage of directed orders
DREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INNP Paribas, ROMUWSFPU8MPRO8K5P83 30fA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year For prive execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Terdit Suisse Securities (Europe) Limited, DL6FFRRLF74S01HE2M14 JBS Europe SE, 5299007QVIQ7IO64NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 6,55% 6,55%	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67% 4,17% Securitized Derivatives: Ott	passive orders	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. 100.00% 100.00% 100.00% 100.00%	Percentage of directed orders
DREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JNICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INN Paribas, ROMUWSFPU8MPROBK5P83 IND Paribas, ROMUWSFPU8MPROBK5P83 IND STATEMENT STATEME	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 20,95% 6,55% 6,55% Proportion of volume traded as a percentage of total and the class of the c	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67% 4,17% Securitized Derivatives: Ott	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders	Percentage of directed order 0,009 0,009 0,009
DREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 SNP Paribas, ROMUWSFPU8MPRO8K5P83 30fA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Saader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Toeld Suisse Securities (Europe) Limited, DL6FFRRF74S01HE2M14 JBS Europe SE, 5299007QVIQ/T064NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606 Class of Instrument Notification if <1 average trade per business day in the previous year	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 20,95% 6,55% Proportion of volume traded as a percentage of total in that class	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67% 4,17% Proportion of orders executed as percentage of total in that class	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00%	aggressive orders N.A. N.A. N.A. N.A. N.A. A.A. N.A. A.A. N.A. A.A. A.A	Percentage of directed order
IREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INP Paribas, R0MUWSFPU8MPRO8K5P83 IofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Iotification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) ISBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Isaader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Tedit Suisse Securities (Europe) Limited, DL6FFRRF74S01HE2M14 JBS Europe SE, 5299007QVIQ7IO64NX37 andesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606 Class of Instrument Iotification if <1 average trade per business day in the previous year	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 34,76% 24,82% 20,95% 6,55% 6,55% Proportion of volume traded as a percentage of total and the class of the c	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67% 4,17% Securitized Derivatives: Ott	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders	Percentage of directed order
DREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INNP Paribas, ROMUWSFPU8MPROBKSP83 SofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W8075GN4DX16 Sabader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Tredit Suisse Securities (Europe) Limited, DL6FFRRLF74S01HE2M14 JBS Europe SE, 5299007QVIQ/IO64NX37 JBS Europe SE, 5299007QVIQ/IO64NX37 JBS Europe SE, 5299007QVIQ/IO64NX37 JBS Europe SI, 5299007QVIQ/IO64NX37 JBS Europe SI, 5299007QVIQ/IO64NX37 JBS Europe SI, 5499007QVIQ/IO64NX37 JBS Europe SI, 5499007QVIQ/IO	of total in that class	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 16,67% 4,17% Proportion of orders executed as percentage of total in that class	passive orders N.A. N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders 100,00% 100,00% 100,00% 100,00%	Percentage of directed orders
DREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 JINICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 INNP Paribas, ROMUWSFPU8MPRO8K5P83 30fA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktiengesellschaft, 529900/FOPPEDUR61H13 Toredit Suisse Securities (Europe) Limited, DLEFFRRLF74S01HE2M14 JBS Europe SE, 5299007QVIQ/T064NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Class of Instrument	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 4,76% 24,82% 6,55% 6,55% Proportion of volume traded as a percentage of total in that class	total in that class 26,00% 16,00% 13,50% 13,50% 12,00% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 4,17% Securitized Derivatives: Ott Y Proportion of orders executed as percentage of total in that class 100,00%	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00%	Percentage o directed orders
Class of Instrument Pop five execution venues ranked in terms of trading volumes (descending order) BESC TRINKAUS & BURKHARDT AG, JUNT4050W8075GN4DX16 Baader Bank Akliengesellschaft, 529900/FOPPEDUR61H13 Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Akliengesellschaft, 529900/FOPPEDUR61H13 Terdit Suisse Securities (Europe) Limited, DL6FFRRLF74S01HE2M14 JBS Europe SE, 5299007QVIQ/TIO64NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606 Class of Instrument Notification if <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) Class of Instrument Notification If <1 average trade per business day in the previous year Fop five execution venues ranked in terms of trading volumes (descending order) Class of Instrument	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 4,76% 24,82% 6,55% 6,55% Proportion of volume traded as a percentage of total in that class	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 20,00% 20,	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00%	directed orders N.A N.A N.A N.A N.A O.A O.A O.A O.A O.A O.A O.A O.A O.A O
UBS AG, BFM8T61CT2L1QCEMIK50 CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 UNICREDIT BANK AG, 2ZCNRR8UK830BTEK2170 BNP Paribas, R0MUWSFPU8MPRO8K5P83 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktlengesellschaft, 529900FOPPEDUR61H13 Credit Suisse Securities (Europe) Limited, DL6FFRRLF74S01HE2M14 UBS Europe SE, 5299007QV171064NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04 Class of Instrument Notification if <1 average trade per business day in the previous year	of total in that class	total in that class 26,00% 16,00% 13,50% 13,50% 10,50% 10,50% curitized Derivatives: Warran Y Proportion of orders executed as percentage of total in that class 8,33% 37,50% 4,17% 4,17% Securitized Derivatives: Ott Y Proportion of orders executed as percentage of total in that class 100,00% Modifies derivatives and en tions and Futures admitted Y Proportion of orders	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00% 0,00% 0,00% 0,00% 0,00% 0,00%	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. A.A. N.A. A.A. N.A. A.A. A.A	Percentage of directed orders Percentage of directed orders O,00% O,00% Percentage of directed orders O,00% O,00%
CREDIT SUISSE SECURITIES SOCIEDAD DE VAL, 959800TMGPWX7NYM4R72 UNICREDIT BANK AG, ZZCNRR8UK83OBTEK2170 BNP Paribas, R0MUWSFPUBMPROBK5P83 BofA Securities Europe SA, 549300FH0WJAPEHTIQ77 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) HSBC TRINKAUS & BURKHARDT AG, JUNT4050W80Y5GN4DX16 Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 Credit Suisse Securities (Europe) Limited, DL6FFRRLF74S01HE2M14 UBS Europe SE, 5299007QVIQ7IO64NX37 Landesbank Baden-Wuerttemberg, B81CK4ESI35472RHJ606 Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) Citigroup Global Markets Europe AG, 6TJCK1B7E7UTXP528Y04	of total in that class 26,99% 15,53% 14,02% 11,89% 9,54% Sec Proportion of volume traded as a percentage of total in that class 4,76% 24,82% 6,55% 6,55% Proportion of volume traded as a percentage of total in that class	total in that class 26,00% 16,00% 13,50% 12,00% 10,50% 20,00% 20,	passive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of passive orders 0,00% 0,00	aggressive orders N.A. N.A. N.A. N.A. N.A. N.A. Percentage of aggressive orders 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00% 100,00%	Percentage o 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			′		
		executed as percentage of	Percentage of		Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders
N.A.	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		Y				
	Proportion of volume	Proportion of orders				
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of	
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders	
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Class of Instrument	Exchange Traded Products					
Class of illstrument	(Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				modities)	
Notification if <1 average trade per business day in the previous year		Y	<i>'</i>			
	Proportion of volume	Proportion of orders				

	(Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year		Υ	'		
	Proportion of volume	Proportion of orders			
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders
ODDO BHF Aktiengesellschaft, 529900XLAZ15LYK8XK27	97,31%	2,81%	0,00%	100,00%	0,00%
Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	2,57%	91,40%	9,79%	90,21%	0,00%
ODDO BHF SCA, 969500219DJHZ3449O66	0,08%	1,99%	0,00%	100,00%	0,00%
Joh. Berenberg, Gossler & Co. KG, 529900UC2OD7II24Z667	0,04%	3,33%	68,83%	31,17%	0,00%
Kreissparkasse Koeln, 529900RTSGHDD7OOSO86	0,00%	0,48%	0,00%	100,00%	0,00%

Class of Instrument	Emission allowances				
Notification if <1 average trade per business day in the previous year		Y	·		
	Proportion of volume	Proportion of orders			
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders
N.A.	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		Y				
	Proportion of volume	Proportion of orders				
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of	
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders	
Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13	92,66%	90,12%	0,00%	100,00%	0,00%	
DBS VICKERS SECURITIES (SINGAPORE) PTE LTD, 54930003J3Y06S614573	0,07337261	0,09876543	0	1	0	

Class of Instrument	Securities financing transactions (SFTs) for all classes of instruments*			
Notification if <1 average trade per business day in the previous year	Υ			
Top five execution venues ranked in terms of trading volumes (descending order)	volume traded as	orders executed		
N.A.	N.A.	N.A.		

^{*} In 2021 no securities financing transaction (SFTs) were made in none of the instrument classes

Top 5 Reporting (Venues) - Baader Bank Asset Management & Services

Period 1.1.2021 - 31.12.2021 Client Category: Professional Clients



Class of Instrument Notification if <1 average trade per business day in the previous year	Equiti	ies - Shares and Depositary Y		ut liquitdy band	
Tourisdador il 41 decrago addo por business day il the provious year	Proportion of volume	Proportion of orders			
To the second or second of the form of the discount of the second of the	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order) MarketAxess NL B.V. (OTF), MANL, 5299000UYW66L5LT560	of total in that class 100,00%	total in that class 100,00%	passive orders N.A.	aggressive orders N.A.	directed orders 0,00%
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of Instrument Notification if <1 average trade per business day in the previous year	Equities - S	hares and Depositary Rece	•	quidity bands 5 an	d 6
The second secon	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	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
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Oleve of the terror with	Filia 0	harman and Barran Harma Barran	data. Tiele elec I	landalle banda O an	4.4
Class of Instrument Notification if <1 average trade per business day in the previous year	Equities - S	hares and Depositary Rece	•	Iquidity bands 3 an	a 4
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	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
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of Instrument	Familiae C	hares and Depositary Rece	into Tiek eine I	iniciality bands 4 an	40
Notification if <1 average trade per business day in the previous year	Equities - 3	naies and Depositary Rece		iquiuity ballus 1 all	u z
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	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
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of instrument		Debt Instrum	ents: Bonds		
Notification if <1 average trade per business day in the previous year		N	l		
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class		aggressive orders	directed orders
Bloomberg Trading Facility B.V. (MTF), BTFE, 254900QBKK4WBSO3GE51	98,22%	95,88%	0,00%	9,57%	0,00%
MarketAxess NL B.V. (OTF), MANL, 5299000UUYW66L5LT560 N.A.	1,78% N.A.	4,12% N.A.	0,00% N.A.	0,63% N.A.	0,00% N.A.
Class of Instrument Notification if <1 average trade per business day in the previous year		Debt Instruments	: Money Market	3	
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	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
MarketAxess NL B.V. (OTF), MANL, 5299000UUYW66L5LT560	100,00% N.A.	100,00%	N.A.	N.A. N.A.	N.A.
N.A.	N.A.	N.A.	N.A.	IN.A.	N.A.
Class of Instrument	Interest Rate Deri	vatives: Futures and Option	ons Admitted to	Trading on a Tradii	ng Venue
Notification if <1 average trade per business day in the previous year		N	I		
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order) N.A.	of total in that class	total in that class	passive orders N.A.		directed orders N.A.
NA.	N.A.	N.A.	N.A.	IV.A.	N.A.
Class of Instrument	Interset Pate	Derivatives: Swaps, forwar	rds and other in	iterest rates derivat	tives
Notification if <1 average trade per business day in the previous year	interest Nate	Derivatives. Onaps, forma	ius, una ouici n		
		Y	, and other n		
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	Percentage of
	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	directed orders
	Proportion of volume traded as a percentage	Proportion of orders executed as percentage of	Percentage of	Percentage of	
N.A.	Proportion of volume traded as a percentage of total in that class N.A.	Proportion of orders executed as percentage of total in that class	Percentage of passive orders N.A.	Percentage of aggressive orders N.A.	directed orders N.A.
Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument Notification if <1 average trade per business day in the previous year	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat	Proportion of orders executed as percentage of total in that class N.A.	Percentage of passive orders N.A.	Percentage of aggressive orders N.A.	directed orders N.A.
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Proportion of orders executed as percentage of	Percentage of passive orders N.A. Admitted to Tra	Percentage of aggressive orders N.A. ding on a Trading V	N.A. /enue Percentage of
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Y Proportion of orders	Percentage of passive orders N.A. Admitted to Tra	Percentage of aggressive orders N.A.	directed orders N.A.
N.A. Class of Instrument	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivati Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class N.A. ives: Futures and Options Proportion of orders executed as percentage of total in that class	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders	Percentage of aggressive orders N.A. ding on a Trading V	N.A. /enue Percentage of directed orders
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivati Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Y Proportion of orders executed as percentage of total in that class N.A. Credit Derivatives: Ot	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A.	N.A. /enue Percentage of directed orders
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage of total in that class N.A.	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Proportion of orders executed as percentage of total in that class N.A. Credit Derivatives: Ot	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A.	N.A. /enue Percentage of directed orders
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument Notification if <1 average trade per business day in the previous year	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage of total in that class N.A. Proportion of volume traded as a percentage of total and the class of total in that class are percentage of total as a percentage traded as a percentage	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Proportion of orders executed as percentage of total in that class N.A. Credit Derivatives: Ott Proportion of orders executed as percentage of total in that class	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva Percentage of	Percentage of aggressive orders N.A. ding on a Trading \ Percentage of aggressive orders N.A.	directed orders N.A. /enue Percentage of directed orders N.A. Percentage of
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivati Proportion of volume traded as a percentage of total in that class N.A. Proportion of volume traded of total in that class N.A.	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Proportion of orders executed as percentage of total in that class N.A. Credit Derivatives: Ot	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva Percentage of	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A. N.A.	directed orders N.A. /enue Percentage of directed orders N.A.
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A.	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage of total in that class N.A. Proportion of volume traded as a percentage of total in that class N.A.	Proportion of orders executed as percentage of total in that class N.A. Proportion of orders executed as percentage of total in that class total in that class N.A. Credit Derivatives: Ot Proportion of orders executed as percentage of total in that class N.A. N.A. N.A. N.A. N.A.	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva Percentage of passive orders N.A.	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A. titives Percentage of aggressive orders N.A.	Percentage of directed orders N.A. Percentage of directed orders N.A. Percentage of directed orders N.A.
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage of total in that class N.A. Proportion of volume traded as a percentage of total in that class N.A.	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Proportion of orders executed as percentage of total in that class N.A. Credit Derivatives: Ot Proportion of orders executed as percentage of total in that class N.A. Proportion of orders executed as percentage of total in that class N.A.	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva Percentage of passive orders N.A. S Admitted to Tra	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A. titives Percentage of aggressive orders N.A.	Percentage of directed orders N.A. Percentage of directed orders N.A. Percentage of directed orders N.A.
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage of total in that class N.A. Proportion of volume traded as a percentage of total in that class N.A. Currency Deriv.	Proportion of orders executed as percentage of total in that class N.A. Proportion of orders executed as percentage of total in that class total in that class N.A. Credit Derivatives: Ot Y Proportion of orders executed as percentage of total in that class N.A. Y Proportion of orders executed as percentage of total in that class N.A. N.A.	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit deriva Percentage of passive orders N.A. S Admitted to Tra	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A. titives Percentage of aggressive orders N.A.	Percentage of directed orders N.A. Percentage of directed orders N.A. Percentage of directed orders N.A.
N.A. Class of Instrument Notification if <1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order) N.A. Class of Instrument	Proportion of volume traded as a percentage of total in that class N.A. Credit Derivat Proportion of volume traded as a percentage of total in that class N.A. Proportion of volume traded as a percentage of total in that class N.A.	Proportion of orders executed as percentage of total in that class N.A. Ives: Futures and Options Proportion of orders executed as percentage of total in that class N.A. Credit Derivatives: Ot Proportion of orders executed as percentage of total in that class N.A. Proportion of orders executed as percentage of total in that class N.A.	Percentage of passive orders N.A. Admitted to Tra Percentage of passive orders N.A. her dredit derivation Percentage of passive orders N.A. Percentage of passive orders N.A.	Percentage of aggressive orders N.A. ding on a Trading \(\) Percentage of aggressive orders N.A. titives Percentage of aggressive orders N.A.	Percentage of directed orders N.A. Percentage of directed orders N.A. Percentage of directed orders N.A.

Class of Instrument	Cumana	· Davissatissas Susana famus			
Class of Instrument Notification if <1 average trade per business day in the previous year	Currenc	/ Derivatives: Swaps, forwa		currency derivatives	3
	Proportion of volume	Proportion of orders			
	traded as a percentage	executed as percentage of		Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order) Bloomberg Trading Facility B.V. (MTF), 254900QBKK4WBSO3GE51	of total in that class 100,00%	total in that class	passive orders N.A.	aggressive orders 100,00%	directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of Instrument		Structured finar	nce instruments		
Notification if <1 average trade per business day in the previous year		١	(
	Proportion of volume	Proportion of orders	D	D	D
Top five execution venues ranked in terms of trading volumes (descending order)	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
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of Instrument	Equity Deriva	tives: Futures and Options		ding on a Trading	Venue
Notification if <1 average trade per business day in the previous year		ı	1		
	Proportion of volume	Proportion of orders	Davasatas of	Davantana of	Davaantawa
Fop five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage o directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument	E	equity Derivatives: Swaps	and other equity	derivatives	
lotification if <1 average trade per business day in the previous year		N	1		
	Proportion of volume	Proportion of orders	_		
Op five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage of directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument	Sec	uritized Derivatives: Warra	nts and Certifica	ate Derivatives	
lotification if <1 average trade per business day in the previous year		١	1		
	Proportion of volume	Proportion of orders			
op five execution venues ranked in terms of trading volumes (descending order)	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
A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument		Securitized Derivatives: Ot	her Securitized	Derivatives	
Notification if <1 average trade per business day in the previous year		١	1		
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage of directed orders
v.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of Instrument		modities derivatives and er tions and Futures admitted			
Notification if <1 average trade per business day in the previous year			/	adding volido	
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage of directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Class of Instrument		modities derivatives and er ommodities derivatives an			
Notification if <1 average trade per business day in the previous year		\	1		
	Proportion of volume	Proportion of orders	Describe *	Da/	Description
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage o directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Class of Instrument		Contracts fo	or difference		
otification if <1 average trade per business day in the previous year		,	1		
	Proportion of volume	Proportion of orders	D 1	D	D '
Op five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage o directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A
lass of Instrument	(Exchange Trade	Exchange Tra d Funds, Exchange Traded		nange Traded Com	modities)
otification if <1 average trade per business day in the previous year	\go .1uuc		/	J	
	Proportion of volume	Proportion of orders	D 1	D	D '
op five execution venues ranked in terms of trading volumes (descending order)	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 o directed orders
.A.	N.A.	N.A.	N.A.	N.A.	N.A
lass of Instrument		Emission a	allowances		
otification if <1 average trade per business day in the previous year		Y	1		
	Proportion of volume	Proportion of orders			
Top five execution venues ranked in terms of trading volumes (descending order)	traded as a percentage of total in that class	executed as percentage of total in that class		Percentage of aggressive orders	Percentage o
V.A.	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	Y				
	Proportion of volume	Proportion of orders			
	traded as a percentage	executed as percentage of	Percentage of	Percentage of	Percentage of
Top five execution venues ranked in terms of trading volumes (descending order)	of total in that class	total in that class	passive orders	aggressive orders	directed orders
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Class of Instrument	Securities financing transactions (SFTs) for a	Securities financing transactions (SFTs) for all classes of instruments*			
Notification if <1 average trade per business day in the previous year	Υ				
Top five execution venues ranked in terms of trading volumes (descending order)	volume traded as	orders executed			
N.A.	N.A.	N.A.			

^{*} In 2021 no securities financing transaction (SFTs) were made in none of the instrument classes