

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

Period 1.1.2022 - 31.12.2022
Client Category: Professional Clients



| Class of Instrument | | Equities - Shares and Depository Receipts without liquidity band | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 65,33% | 46,73% | 4,00% | 96,00% | 0,00% |
| UBS Europe SE, 5299007QVIQ71064NX37 | | 13,13% | 0,48% | 0,00% | 100,00% | 0,00% |
| KEPLER CHEUVREUX, 9695005EOZG9X8RJ84 | | 4,51% | 1,72% | 57,44% | 42,56% | 0,00% |
| Joh. Berenberg, Gossler & Co. KG, 529900UC2OD711242667 | | 3,47% | 3,64% | 68,97% | 31,03% | 0,00% |
| DBS Vickers Securities (Singapore) PTE LTD, 549300Q3JYO6S614573 | | 3,15% | 36,34% | 0,00% | 100,00% | 0,00% |

| Class of Instrument | | Equities - Shares and Depository Receipts: Tick size liquidity bands 5 and 6 | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 53,25% | 62,05% | 2,75% | 97,25% | 0,00% |
| Morgan Stanley Europe SE, 54930056FHWP7GIWY08 | | 10,18% | 11,23% | 71,07% | 28,93% | 0,00% |
| SANFORD C. BERNSTEIN LIMITED, 54930049G8WQ5OOU5D19 | | 8,17% | 2,21% | 48,02% | 51,98% | 0,00% |
| UBS Europe SE, 5299007QVIQ71064NX37 | | 2,64% | 1,08% | 34,86% | 65,14% | 0,00% |
| KEPLER CHEUVREUX, 9695005EOZG9X8RJ84 | | 2,43% | 3,31% | 67,17% | 32,83% | 0,00% |

| Class of Instrument | | Equities - Shares and Depository Receipts: Tick size liquidity bands 3 and 4 | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 41,84% | 33,67% | 7,69% | 92,31% | 0,00% |
| Morgan Stanley Europe SE, 54930056FHWP7GIWY08 | | 16,48% | 16,83% | 63,36% | 36,64% | 0,00% |
| KEPLER CHEUVREUX, 9695005EOZG9X8RJ84 | | 10,75% | 14,79% | 70,84% | 29,16% | 0,00% |
| SANFORD C. BERNSTEIN LIMITED, 54930049G8WQ5OOU5D19 | | 4,66% | 0,74% | 59,00% | 41,00% | 0,00% |
| Joh. Berenberg, Gossler & Co. KG, 529900UC2OD711242667 | | 4,33% | 5,99% | 76,01% | 23,99% | 0,00% |

| Class of Instrument | | Equities - Shares and Depository Receipts: Tick size liquidity bands 1 and 2 | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 60,07% | 51,87% | 4,81% | 95,19% | 0,00% |
| SANFORD C. BERNSTEIN LIMITED, 54930049G8WQ5OOU5D19 | | 6,84% | 3,47% | 8,24% | 91,76% | 0,00% |
| Morgan Stanley Europe SE, 54930056FHWP7GIWY08 | | 6,35% | 7,50% | 49,01% | 50,99% | 0,00% |
| KEPLER CHEUVREUX, 9695005EOZG9X8RJ84 | | 5,77% | 7,95% | 60,42% | 39,58% | 0,00% |
| Hauck Aufhaeuser Lampe Privatbank AG, 529900OOPZ78CYPYF471 | | 3,98% | 2,07% | 0,00% | 100,00% | 0,00% |

| Class of Instrument | | Debt Instruments: Bonds | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Tradition London Clearing Limited, 549300035Z3DHK2TAA54 | | 18,06% | 7,71% | 0,00% | 100,00% | 0,00% |
| Citigroup Global Markets Europe AG, 6TJCK1B7ETUTXP528Y04 | | 15,21% | 10,06% | 0,00% | 19,15% | 0,00% |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 12,26% | 19,06% | 0,00% | 94,38% | 0,00% |
| J.P. Morgan S.E., 549300ZK53CNGEEI6A29 | | 6,04% | 1,93% | 0,00% | 88,88% | 0,00% |
| Goldman Sachs International, W22LROWP2IHZNB6K528 | | 5,48% | 2,57% | 0,00% | 91,67% | 0,00% |

| Class of Instrument | | Debt Instruments: Money Markets | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main, 529900HNOAA1KXQJUQ27 | | 54,10% | 44,83% | N.A. | N.A. | N.A. |
| Landesbank Baden-Wuerttemberg, B81Ck4E5i35472RHJ606 | | 22,22% | 27,59% | N.A. | N.A. | N.A. |
| DekaBank Deutsche Girozentrale, 0W2PZJMSXCY22M4G6883 | | 14,10% | 13,79% | N.A. | N.A. | N.A. |
| Landesbank Hessen-Thueringen Girozentrale, DZE555CF0SK3ISR58746 | | 4,76% | 5,17% | N.A. | N.A. | N.A. |
| LGT Bank (Schweiz) AG, 5493007X1V6FZD1ZPT38 | | 4,64% | 5,75% | N.A. | N.A. | N.A. |

| Class of Instrument | | Interest Rate Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|--|--|---|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 86,35% | 60,59% | N.A. | N.A. | N.A. |
| DZ BANK AG Zentral-Genossenschaftsbank, 529900HNOAA1KXQJUQ27 | | 10,83% | 20,38% | N.A. | N.A. | N.A. |
| UBS AG, BFM8T61CT2L1QCCEMIK50 | | 2,82% | 19,03% | N.A. | N.A. | N.A. |

| Class of Instrument | | Interest Rate Derivatives: Swaps, forwards, and other interest rates derivatives | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| J.P. Morgan AG, 549300ZK53CNGEEI6A29 | | 54,13% | 66,67% | N.A. | N.A. | N.A. |

| Class of Instrument | | Credit Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Credit Derivatives: Other credit derivatives | | | | |
|--|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| Goldman Sachs Bank Europe SE, 8IBZUGJ7JPLH368JE346 | | 100,00% | 100,00% | N.A. | N.A. | N.A. |

| Class of Instrument | | Currency Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Baader Bank AG, 529900JFOPPEDUR61H13 | | 66.31% | 83.77% | N.A. | N.A. | N.A. |
| M.M. Warburg & CO (AG & Co.) Kommanditgesellschaft auf Aktien, MZI1VDH2BQLFZGLQDO60 | | 33.21% | 15.12% | N.A. | N.A. | N.A. |
| DZ BANK AG Zentral-Genossenschaftsbank, 529900HNOAA1KXQJUQ27 | | 0.46% | 0.94% | N.A. | N.A. | N.A. |

| Class of Instrument | | Currency Derivatives: Swaps, forwards, and other currency derivatives | | | | |
|---|--|---|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Structured finance instruments | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Equity Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | N | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Baader Bank AG, 529900JFOPPEDUR61H13 | | 70.97% | 55.73% | N.A. | N.A. | N.A. |
| M.M. Warburg & CO (AG & Co.) Kommanditgesellschaft auf Aktien, MZI1VDH2BQLFZGLQDO60 | | 27.20% | 16.32% | N.A. | N.A. | N.A. |
| UBS AG, BFM8T61CT2L1QCEMIK50 | | 1.63% | 24.03% | N.A. | N.A. | N.A. |
| DZ BANK AG Zentral-Genossenschaftsbank, 529900HNOAA1KXQJUQ27 | | 0.14% | 3.83% | N.A. | N.A. | N.A. |
| VP Bank AG, MI3TLH110D58ORE24Q14 | | 0.04% | 0.08% | N.A. | N.A. | N.A. |

| Class of Instrument | | Equity Derivatives: Swaps and other equity derivatives | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| UNICREDIT BANK AG, 2ZCNRR8UK83OBTEK2170 | | 20.85% | 19.21% | N.A. | N.A. | N.A. |
| Barclays Bank Ireland Public Limited Company, 2G5BKIC2CB69PRJH1W31 | | 19.28% | 21.19% | N.A. | N.A. | N.A. |
| Credit Suisse Bank (Europe), S.A., 959800TMGPWX7NYM4R72 | | 16.59% | 19.21% | N.A. | N.A. | N.A. |
| UBS AG, BFM8T61CT2L1QCEMIK50 | | 8.45% | 7.28% | N.A. | N.A. | N.A. |
| BoFA Securities Europe SA, 549300FH0WJAPHEHTIQ77 | | 8.03% | 8.61% | N.A. | N.A. | N.A. |

| Class of Instrument | | Securitized Derivatives: Warrants and Certificate Derivatives | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 100.00% | 100.00% | 0.00% | 100.00% | 0.00% |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Securitized Derivatives: Other Securitized Derivatives | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Commodities derivatives and emission allowances Derivatives: Options and Futures admitted to trading on a trading venue | | | | |
|---|--|---|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Commodities derivatives and emission allowances Derivatives: Other commodities derivatives and emission allowances derivatives | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| 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 | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities) | | | | |
|---|--|---|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 95.88% | 99.50% | 26.27% | 73.73% | 0.00% |
| ODDO BHF SCA, 9695002I9DJHZ3449O66 | | 4.12% | 0.50% | 0.00% | 100.00% | 0.00% |
| N.A. | | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | Emission allowances | | | | |
|---|--|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | | Y | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| 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 | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| BOFA SECURITIES Europe SA5, 49300FH0WJAPHEHTIQ77 | | 59.48% | 99.25% | 48.48% | 51.52% | 0.00% |
| Baader Bank Aktiengesellschaft, 529900JFOPPEDUR61H13 | | 0.40518 | 0.00751 | 0.00% | 100.00% | 0.00% |

| Class of Instrument | Securities financing transactions (SFTs) for all classes of instruments | | |
|---|---|--|--|
| Notification if <1 average trade per business day in the previous 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 | Proportion of orders executed as percentage of total in that class |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | |
| N.A. | N.A. | N.A. | N.A. |

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

Period 1.1.2022 - 31.12.2022
Client Category: Professional Clients



| Class of Instrument | Equities - Shares and Depository Receipts without liquidity band | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Equities - Shares and Depository Receipts: Tick size liquidity bands 5 and 6 | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Equities - Shares and Depository Receipts: Tick size liquidity bands 3 and 4 | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Equities - Shares and Depository Receipts: Tick size liquidity bands 1 and 2 | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Debt Instruments: Bonds | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | N | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| Bloomberg Trading Facility B.V. (MTF), BTFE, 254900QBKK4WBSO3GE51 | 91,40% | 82,99% | 0,00% | 9,58% | 0,00% |
| MarketAxess NL B.V. (OTF), MANL, 529900UUYW66L5LT560 | 8,60% | 17,01% | 0,00% | 0,43% | 0,00% |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Debt Instruments: Money Markets | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| Bloomberg Trading Facility B.V. (MTF), BTFE, 254900QBKK4WBSO3GE51 | 100,00% | 100,00% | N.A. | N.A. | 0,00% |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Interest Rate Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|---|---|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Interest Rate Derivatives: Swaps, forwards, and other interest rates derivatives | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Credit Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | Credit Derivatives: Other credit derivatives | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | 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 |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| Bloomberg Trading Facility B.V. (MTF), BTFE, 254900QBKK4WBSO3GE51 | 100,00% | 100,00% | 0,00% | 2,94% | 0,00% |

| Class of Instrument | Currency Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|
| Notification if <1 average trade per business day in the previous year | Y | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|--|
| Currency Derivatives: Swaps, forwards, and other currency derivatives | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| N | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| Bloomberg Trading Facility B.V. (MTF), BTFE, 254900QBKK4WBSO3GE51 | 69,65% | 65,80% | 0,00% | 100,00% | N.A. | |
| Bloomberg Trading Facility Limited, BMTF, 549300ROEJDDAXM6LU05 | 30,35% | 34,20% | 0,00% | 100,00% | N.A. | |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Structured finance instruments | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Equity Derivatives: Futures and Options Admitted to Trading on a Trading Venue | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Equity Derivatives: Swaps and other equity derivatives | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Securitized Derivatives: Warrants and Certificate Derivatives | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Securitized Derivatives: Other Securitized Derivatives | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Commodities derivatives and emission allowances Derivatives: Options and Futures admitted to trading on a trading venue | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|--|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Commodities derivatives and emission allowances Derivatives: Other commodities derivatives and emission allowances derivatives | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | 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 | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities) | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

| Class of Instrument | | | | | | |
|---|--|--|------------------------------|---------------------------------|-------------------------------|------|
| Emission allowances | | | | | | |
| Notification if <1 average trade per business day in the previous year | | | | | | |
| Y | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | 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 | | | | | | |
| Top five execution venues ranked in terms of trading volumes (descending order) | | | | | | |
| | Proportion of volume traded as a percentage of total in that class | Proportion of orders executed as percentage of total in that class | Percentage of passive orders | Percentage of aggressive orders | Percentage of directed orders | |
| N.A. | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |

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