



Best Execution Quality Reporting 2019

Deutsche Bank (Suisse) S.A.

Disclosure document related to the Commission Delegated Regulation (EU) 2017/576 of 8 June 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council with regard to regulatory technical standards for the annual publication by investment firms of information on the identity of execution venues and on the quality of execution.

Commentary to accompany the RTS 28 Top 5 Venue Report for DB Suisse

Reporting Period: 01st Jan 2019 to 31st Dec 2019

In accordance with EU Commission Delegated Regulation 2017/576 of 8 June 2016 ("Regulatory Technical Standard (RTS) 28") supplementing MiFID (Directive 2014/65/EU), this document provides information on the top 5 venues / brokers (in terms of trading volumes) used by DB Suisse in calendar year 2019, to execute client orders. We also provide below information pertaining to the quality of execution obtained, as asked under Article 3(3) of RTS 28.

<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0576&from=EN>

As required under Article 3(3) of MiFID RTS 28	Instrument applicability	Commentary (as applicable to DB Suisse)
<p><i>a) an explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when making assessments of the quality of execution;</i></p>	<p>All</p>	<p>The execution factors and their relative importance are described in our Order Execution Policy. This can found here: https://deutschewealth.com/content/deutsche-wealth/en/articles/regulatory_information.html</p>
<p><i>(b) a description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;</i></p>	<p><i>Equities - Shares and Depositary Receipts</i></p>	<p>There are no close links, conflicts of interests, and common ownerships with respect to any external execution venue / broker used to execute orders. Some orders may be executed using DB AG (group parent entity) as the broker / counterparty, pursuant to application of Best Execution principles</p> <p>Execution is carried out solely against DB AG which is the group parent entity. Controls are in place to ensure that best results are obtained for the client on a consistent basis.</p> <p>All orders are routed to exchanges via the DB AG (group parent entity) platform. Best Execution monitoring controls are in place to ensure that orders are routed to exchange accurately and promptly.</p> <p>Any potential conflict of interest arising from fee payments is mentioned clearly to the client in the term sheet</p>
	<p><i>Exchange traded products</i></p>	
	<p><i>Debt Instruments</i></p>	
	<p><i>Structured Finance instruments</i></p>	
	<p><i>Other Instruments</i></p>	
	<p><i>Currency Derivatives - Futures and options admitted to trading on a trading venue</i></p>	
	<p><i>Currency Derivatives - Swaps, forwards and other currency derivatives</i></p>	
	<p><i>Interest Rates Derivatives - Swaps, forwards and other interest rates derivatives</i></p>	
	<p><i>Equity Derivatives - Swaps, forwards and other equity derivatives</i></p>	
	<p><i>Interest Rates Derivatives - Futures and options admitted to trading on a trading venue</i></p>	
<p><i>Commodity Derivatives - Futures and options admitted to trading on a trading venue</i></p>		
<p><i>Equity Derivatives - Futures and options admitted to trading on a trading venue</i></p>		
<p><i>Securitized Derivatives - Warrants and Certificate Derivatives</i></p>		

As required under Article 3(3) of MiFID RTS 28	Instrument applicability	Commentary (as applicable to DB Suisse)
(c) a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received;	<i>All (other than Securitised Derivatives)</i>	There are no specific arrangements with any external execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received.
	<i>Securitised Derivatives</i>	Structuring fees are paid by the issuer via invoice.
(d) an explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred;	All	No change in the list of execution venues occurred during the year.
(e) an explanation of how order execution differs according to client categorisation, where the firm treats such category of client differently and where it may affect the order execution arrangements;	All	For Best Execution principles, refer to Section 2.1.1 & 2.1.2 of the Order Execution Policy. This can be found here: https://deutschewealth.com/content/deutsche-wealth/en/articles/regulatory_information.html
(f) an explanation of when other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;	All	For Best Execution principles, refer to Section 2.1.1 & 2.1.2 of the Order Execution Policy. This can be found here: https://deutschewealth.com/content/deutsche-wealth/en/articles/regulatory_information.html
g) an explanation of how the investment firm has used any data or tools relating to the quality of execution including any data published under 27(10) (a) of Directive 2014/65/EU.	<i>All (other than Securitised Derivatives)</i>	Data under Article 27(10) (a) of Directive 2014/65/EU was not published during calendar year 2019. However, we have used other independent benchmarking tools to assess our execution prices against the average prevailing prices in the market. Such a benchmarking exercise helped us to assess the quality of execution by our brokers / counterparties and enabled us to optimize selection of the same to improve execution results.
	<i>Securitised Derivatives</i>	Data under Article 27(10)(a) of Directive 2014/65/EU was not published during calendar year 2019. Benchmarking was not used for structured products. However, quality of execution was ensured by obtaining, on average, pricing from three different counterparties for each trade.
h) an explanation of how the investment firm has used, if applicable, output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU which will allow for the development of enhanced measures of execution quality or any other algorithms used to optimize and assess execution performances.	All	Output of consolidated tape providers as per Article 65 of Directive 2014/65/EU was not available during 2019.

The following tables provide information on the top five execution venues / executing brokers (by proportion of volume traded as a % of total volume) used by DB Suisse in calendar year 2019 for executing orders from clients in various classes of Financial Instruments. A machine readable version of these tables (CSV format) has also been made available separately.

https://deutschewealth.com/content/deutschewealth/en/articles/regulatory_information.html

The terms "Execution Venue" and "Executing Broker" as used in the tables below imply "Execution" and "Transmission" of orders respectively.

For Retail Clients

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	0.90%	1.38%	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR						
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	38.69%	75.48%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	12.41%	15.66%	7.43%	4.64%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.01%	1.87%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.94%	2.60%	-	-	0.00%
Nomura Bank (Schweiz) AG	549300FPTTLE2R9UEE81	0.71%	0.43%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWFZYICNSX8D621K86	38.65%	74.19%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	12.39%	15.39%	7.43%	4.64%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.01%	1.84%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.94%	2.56%	-	-	0.00%
Nomura Bank (Schweiz) AG	549300FPTTLE2R9UEE81	0.71%	0.42%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	30.98%	47.66%	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWFZYICNSX8D621K86	56.23%	79.41%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	4.33%	4.18%	3.50%	2.19%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	2.22%	4.36%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.21%	1.01%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRL74S01HE2M14	0.50%	1.43%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	54.75%	41.98%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	4.22%	2.21%	3.50%	2.19%	0.00%
SIX SIS AG	549300A3X13YWROC2J57	2.63%	47.14%	30.98%	47.66%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	2.16%	2.30%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	1.18%	0.53%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3X13YWROC2J57	100.00%	100.00%	21.52%	58.76%	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	65.61%	90.01%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	5.77%	2.43%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	4.98%	2.66%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	2.57%	0.43%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	2.38%	0.20%	1.93%	1.21%	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	52.33%	16.16%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	20.24%	82.04%	21.52%	58.76%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	4.60%	0.44%	-	-	0.00%
UBS Switzerland AG	549300W0IFUSNYH0FL22	3.98%	0.48%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	2.05%	0.08%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Bonds					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
HSBC BANK PLC	MP6I5ZYBUEU3UXPYFY54	6.99%	4.58%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	6.56%	5.24%	-	-	0.00%
UBS Limited	REYPIEJN7XZHSUI0N355	5.95%	7.60%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	5.63%	3.88%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	5.34%	4.00%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTRE1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Money Market Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Coöperatieve Rabobank U.A.	DG3RU1DBUFHT4ZF9WN62	18.39%	4.87%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	14.63%	13.50%	-	-	0.00%
BNP PARIBAS	R0MUWSPFU8MPRO8K5P83	10.46%	9.73%	-	-	0.00%
Nomura International PLC	DGQCSV2PHVF7I2743539	8.19%	8.63%	-	-	0.00%
The Toronto-Dominion Bank	PT3QB789TSUIDF371261	7.56%	4.55%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(C) 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					
Client Type	Retail					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(C) Interest Rate Derivatives - Swaps, forwards and other interest rate derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Retail					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(D) 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					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE	7LTWFZYICNSX8D621K86	33.20%	61.08%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	19.94%	20.63%	-	-	0.00%
CITI	XKZZ2JZF41MRHTR1V493	15.05%	1.04%	-	-	0.00%
SOGN	O2RNE8IBXP4R0TD8PU41	6.16%	2.00%	-	-	0.00%
UBS	BFM8T61CT2L1QCEMIK50	5.11%	3.79%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(D) Currency Derivatives - Swaps, forwards and other currency derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE	7LTWFZYICNSX8D621K86	19.00%	16.78%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	10.57%	9.52%	-	-	0.00%
UBS	BFM8T61CT2L1QCCEMIK50	10.36%	9.14%	-	-	0.00%
GOLDMAN	W22LROWP2IHZNBB6K528	10.23%	9.17%	-	-	0.00%
RBS	21380078CCZSEIIKA41	9.63%	9.35%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(E) Structured Finance Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	98.60%	96.78%	-	-	0.00%
BRIDPORT & CIE SA	213800VGFKO4K5IJUI20	0.41%	0.38%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	0.38%	0.76%	-	-	0.00%
BCP Securities, LLC	2549006Q2SCXK1988H68	0.18%	0.38%	-	-	0.00%
Standard Chartered Bank	RILFO74KP1CM8P6PCT96	0.10%	0.38%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(F) 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					
Client Type	Retail					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Swaps and other equity derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Retail					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(G) Securitised Derivatives - Warrants and Certificate Derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	21.85%	33.65%	-	-	0.00%
BARCLAYS BANK PLC	G5GSEF7VJP5I7OUK5573	12.26%	5.07%	-	-	0.00%
BNP PARIBAS	R0MUWSFPU8MPRO8K5P83	11.15%	13.43%	-	-	0.00%
Nomura International PLC	DGQCSV2PHVF7I2743539	9.17%	3.63%	-	-	0.00%
Société Générale SA	O2RNE8IBXP4R0TD8PU41	9.05%	5.31%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(H) Commodities Derivatives - Futures and options admitted to trading on a trading venue					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	39.11%	24.37%	0.00%

LEGAL UNIT	529900BXXPMXQTR1V05					
CLASS OF INSTRUMENT	(I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	39.62%	58.40%	-	-	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	25.75%	15.64%	-	-	0.00%
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	13.00%	12.32%	-	-	0.00%
CANACCORD GENUITY LIMITED	ZBU7V5NIMN4ILRFC23	6.07%	6.29%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.09%	1.75%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTR1V05					
CLASS OF INSTRUMENT	(I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	29.14%	30.01%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	26.46%	48.61%	39.11%	24.37%	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	18.94%	8.04%	-	-	0.00%
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	9.56%	6.33%	-	-	0.00%
CANACCORD GENUITY LIMITED	ZBU7V5NIMN4ILRFC23	4.47%	3.23%	-	-	0.00%

LEGAL UNIT	529900BXXPMXQTR1V05					
CLASS OF INSTRUMENT	(J) Other instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Retail					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LWTFZYICNSX8D621K86	85.97%	96.70%	-	-	0.00%
UBS AG	BFM8T61CT2L1QCCEMIK50	12.02%	0.98%	-	-	0.00%
BARCLAYS BANK PLC	G5GSEF7VJP5I7OUK5573	1.16%	1.07%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	0.63%	1.13%	7.27%	28.29%	0.00%
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	0.12%	0.03%	-	-	0.00%

For Professional Clients:

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	1.18%	1.82%	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	51.43%	66.67%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	36.10%	28.32%	3.76%	2.35%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	4.82%	1.50%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	3.67%	0.38%	-	-	0.00%
UBS Securities LLC	T6FIZBDPKLYJKFCRVK44	1.97%	0.25%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTR1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	51.02%	57.08%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	35.82%	24.25%	3.76%	2.35%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	4.78%	1.29%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	3.65%	0.32%	-	-	0.00%
UBS Securities LLC	T6FIZBDPKLYJKFCRVK44	1.95%	0.21%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	5.94%	9.14%	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	79.99%	74.60%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	5.33%	2.41%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	4.00%	5.21%	1.27%	0.79%	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	3.37%	2.63%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.28%	2.47%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	78.95%	66.44%	-	-	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	5.27%	2.15%	-	-	0.00%
INSTINET EUROPE LIMITED	213800MXAKR2LA1VBM44	3.95%	4.64%	1.27%	0.79%	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	3.32%	2.34%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.24%	2.20%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	4.48%	12.24%	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	87.68%	88.18%	-	-	0.04%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	3.56%	2.14%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.18%	5.93%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	2.51%	2.14%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	0.63%	0.19%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) 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					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	79.57%	52.46%	-	-	0.04%
SIX SIS AG	549300A3XI3YWROC2J57	9.25%	40.51%	4.48%	12.24%	0.00%
KCG EUROPE LIMITED	549300346EFUPFCXJT79	3.23%	1.27%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	2.89%	3.53%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	2.28%	1.27%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Bonds					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	14.87%	4.91%	-	-	0.00%
HSBC BANK PLC	MP6I5YZBEU3UXPYFY54	5.93%	5.53%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPF6FNF3BB653	5.45%	9.68%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	5.41%	3.67%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	5.09%	5.91%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(B) Debt Instruments - Money Market Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Nomura International PLC	DGQCSV2PHVF7I2743539	41.48%	7.41%	-	-	0.00%
HSBC BANK PLC	MP6I5YZBEU3UXPYFY54	15.59%	3.70%	-	-	0.00%
ICBC Standard Bank PLC	F01VVKN4DRF2NWKQ283	11.51%	11.11%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	9.94%	25.93%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	5.24%	7.41%	-	-	0.00%

LEGAL UNIT	529900BXXKPMXQTR1V05					
CLASS OF INSTRUMENT	(C) 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					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(C) Interest Rate Derivatives - Swaps, forwards and other interest rate derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(E) Structured Finance Instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWFZYICNSX8D621K86	81.84%	81.82%	-	-	0.00%
Oppenheimer & Co. Inc.	254900VH02JQR2L8XD64	10.76%	9.09%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	5.01%	4.55%	-	-	0.00%
BRIDPORT & CIE SA	213800VGFKO4K5IU120	2.39%	4.55%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(F) 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					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Swaps and other equity derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTFWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(G) Securitised Derivatives - Warrants and Certificate Derivatives					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	46.22%	73.89%	-	-	0.00%
Nomura International PLC	DGQCSV2PHVF7I2743539	31.80%	1.05%	-	-	0.00%
BNP PARIBAS	R0MUWSFPU8MPRO8K5P83	16.61%	9.21%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	1.36%	7.69%	3.54%	84.91%	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	0.91%	0.47%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	21.89%	13.63%	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Flow Traders B.V.	549300CLJ19XDH12XV51	32.01%	5.96%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	23.21%	83.89%	-	-	0.00%
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	23.14%	5.64%	-	-	0.00%
CANACCORD GENUITY LIMITED	ZBU7V5NIMN4ILRFC23	12.32%	1.76%	-	-	0.00%
Credit Suisse Securities (Europe) Limited	DL6FFRRL74S01HE2M14	3.70%	1.12%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(I) Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	N					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
Flow Traders B.V.	549300CLJI9XDH12XV51	27.04%	4.46%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	19.60%	62.88%	-	-	0.00%
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	19.55%	4.22%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	15.53%	25.04%	21.89%	13.63%	0.00%
CANACCORD GENUITY LIMITED	ZBU7V5NIMN4ILRFC23	10.41%	1.32%	-	-	0.00%

LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(J) Other instruments					
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	Y					
Client Type	Professional					
Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI	Proportion of Volume traded as a % of total	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
UBS AG	BFM8T61CT2L1QCCEMIK50	91.11%	19.18%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	4.56%	40.41%	-	-	1.69%
SIX SIS AG	549300A3XI3YWROC2J57	3.66%	38.36%	10.73%	41.71%	0.00%
Commerzbank Aktiengesellschaft	851WYGNLUQLFZBSYGB56	0.28%	0.68%	-	-	0.00%
Flow Traders B.V.	549300CLJI9XDH12XV51	0.25%	0.68%	-	-	0.00%