# Best Execution Quality Reporting 2023 Deutsche Bank (Suisse) S.A.

("DB Suisse" hereafter)

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 2023 to 31st Dec 2023

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 2023, 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)
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;	All	The execution factors and their relative importance are described in our Order Execution Policy. This can found here: https://deutschewealth.com/content/deutschewealth/en/articles/regulatory_information.html
	Equities - Shares and Depositary Receipts	There are no close links, conflicts of interests, and common ownerships with
	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)	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 /
	Debt Instruments	counterparty, pursuant to application of
	Structured Finance instruments	Best Execution principles. For certain
	Other Instruments	products DB Suisse will offer the opportunity to DB affiliates to match the
(b) a description of any close links, conflicts of interests, and common ownerships with respect to any	Currency Derivatives - Futures and options admitted to trading on a trading venue	best price received through the request for quote process for the relevant product, and if so enable DB Suisse to offer the DB
ownerships with respect to any execution venues used to execute orders;	Currency Derivatives - Swaps, forwards, and other currency derivatives	affiliate product. Whilst aware of potential conflicts of interest in using affiliates to execute your transactions, DB Suisse will seek to mitigate such conflicts through our monitoring and review program when deploying this process.
	Interest Rates Derivatives - Swaps, forwards, and other interest rates derivatives	Execution is carried out solely against DB AG which is the group parent entity. Controls are in place to ensure that best
	Equity Derivatives - Swaps, forwards, and other equity derivatives	results are obtained for the client on a consistent basis.

As required under Article 3(3) of MiFID RTS 28	Instrument applicability	Commentary (as applicable to DB Suisse)
	Interest Rates Derivatives - Futures and options admitted to trading on a trading venue Commodity Derivatives - Futures and options admitted to trading on a trading venue Equity Derivatives - Futures and options admitted to trading on a trading venue	All orders are routed to the exchange via either the DB AG (group parent entity) platform or via Bloomberg EMSX. Best Execution monitoring controls are in place to ensure that orders are routed to exchange accurately and promptly.
	Securitized Derivatives - Warrants and Certificate Derivatives	Any potential conflict of interest arising from fee payments is mentioned clearly to the client in the term sheet
(c) a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or	All (other than Securitized Derivatives)	There are no specific arrangements with any external execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received.
non-monetary benefits received;	Securitised Derivatives	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 categorization, 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/deutschewealth/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/deutschewealth/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.	All (other than Securitised Derivatives)	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.

As required under Article 3(3) of MiFID RTS 28	Instrument applicability	Commentary (as applicable to DB Suisse)
	Securitised Derivatives	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 has not been utilized for the 2023 reporting year.

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 2023 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 (from 0 to 79 trades per day)

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%	0.76%	0.71%	0.00%

**LEGAL UNIT** 529900BXKPMXQTRE1V05

CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)

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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
INSTINET PACIFIC LIMITED	549300RI6VZUNIR81J81	26.28%	36.69%	-	-	0.00%
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	19.69%	19.02%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	10.63%	6.30%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	9.43%	3.41%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	9.42%	8.35%	-	-	0.00%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)

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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders		
INSTINET PACIFIC LIMITED	549300RI6VZUNIR81J81	26.28%	36.69%	-	-	0.00%		
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	19.69%	19.02%	-	-	0.00%		
UBS Switzerland AG	549300WOIFUSNYH0FL22	10.63%	6.30%	-	-	0.00%		
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	9.43%	3.41%	-	-	0.00%		
Goldman Sachs International	W22LROWP2IHZNBB6K528	9.42%	8.35%	-	-	0.00%		
LEGAL UNIT	529900BXKPMXQTRE1V05							
CLASS OF INSTRUMENT	S OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)							
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA	RN							
Client Type	Retail							

	Execution Venue	LEI		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%	8.36%	7.86%	0.00%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)

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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	16.91%	20.93%	-	-	0.10%
BERNSTEIN AUTONOMOUS LLP	213800LBM6PT85IGM996	16.43%	0.64%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	13.49%	15.60%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	11.28%	3.75%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	11.04%	15.93%	-	-	0.00%

LEGAL UNIT 529900BXKPMXQTRE1V05

CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)

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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
SIX SIS AG	549300A3XI3YWROC2J57	18.33%	78.87%	8.36%	7.86%	0.10%
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	13.81%	4.42%	-	-	0.00%
BERNSTEIN AUTONOMOUS LLP	213800LBM6PT85IGM996	13.42%	0.14%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	11.02%	3.30%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	9.22%	0.79%	_	_	0.00%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y Client Type Retail

Execution Venue	LEI		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%	0.11%	0.10%	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(A) Equities - Shares and De	pository Receipts - Tick s	size liquidity bands 5 and 6	5 (from 2000 trade	s per day)	
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA	RN					

Client Type Retail

Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	22.02%	24.48%	-	-	0.20%
UBS Switzerland AG	549300WOIFUSNYH0FL22	15.93%	6.12%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	12.93%	13.39%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	9.94%	3.92%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	9.32%	15.06%	-	-	0.00%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)

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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	22.02%	24.48%	-	-	0.20%
UBS Switzerland AG	549300WOIFUSNYH0FL22	15.93%	6.12%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	12.93%	13.39%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	9.94%	3.92%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	9.32%	15.06%	-	-	0.00%

LEGAL UNIT 529900BXKPMXQTRE1V05
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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	7.37%	6.32%	-	-	0.00%
BARCLAYS CAPITAL SECURITIES LIMITED	K9WDOH4D2PYBSLSOB484	7.35%	3.39%	-	-	0.00%
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	7.00%	6.80%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	6.94%	3.87%	-	-	0.00%
WELLS FARGO BANK NATIONAL ASSOCIATION	KB1H1DSPRFMYMCUFXT09	6.62%	1.85%	-	-	0.00%



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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	17.66%	22.61%	-	-	0.00%
Nomura International PLC	DGQCSV2PHVF7I2743539	13.31%	9.55%	-	-	0.00%
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	11.03%	4.96%	-	-	0.00%
WELLS FARGO BANK NATIONAL ASSOCIATION	KB1H1DSPRFMYMCUFXT09	9.39%	21.28%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPFGFNF3BB653	8.01%	4.59%	-	-	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 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 o	other interest rate derivati	ives		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA	RY					
Client Type	Retail					
Execution Venue / Executing Broker	LEI		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%



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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE	7LTWFZYICNSX8D621K86	27.16%	30.19%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	17.89%	16.80%	-	-	0.00%
сіті	XKZZ2JZF41MRHTR1V493	11.27%	4.17%	-	-	0.00%
HSBC	MP6I5ZYZBEU3UXPYFY54	9.80%	17.38%	-	-	0.00%
SOGN	O2RNE8IBXP4R0TD8PU41	7.60%	6.60%	-	-	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	27.16%	30.19%	-	-	0.00%
JPMC	7H6GLXDRUGQFU57RNE97	17.89%	16.80%	-	-	0.00%
сп	XKZZ2JZF41MRHTR1V493	11.27%	4.17%	-	-	0.00%
HSBC	MP6I5ZYZBEU3UXPYFY54	9.80%	17.38%	-	-	0.00%
SOGN	O2RNE8IBXP4R0TD8PU41	7.60%	6.60%	-	-	0.00%



529900BXKPMXQTRE1V05 **LEGAL UNIT** 

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	99.61%	98.06%	-	-	0.00%
US BANK NATIONAL ASSOCIATION	6BYL5QZYBDK8S7L73M02	0.17%	0.24%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPFGFNF3BB653	0.12%	0.24%	-	-	0.00%
UBS AG	BFM8T61CT2L1QCEMIK50	0.06%	0.73%	-	-	0.00%
BRIDPORT & CIE SA	213800VGFKO4K5IJUI20	0.02%	0.48%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					
CLASS OF INSTRUMENT	(F) Equity Derivatives - Futu	res and options admitte	d to trading on a trading v	enue		
NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	RN					
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%	-	-	0.33%



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 Trades executed as a % of total		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) Cocurities of Derivatives	Warrants and Cortificat	o Dorivativos			

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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	46.45%	21.49%	-	-	0.00%
BNP PARIBAS	6EWKU0FGVX5QQJHFGT48	8.43%	10.46%	-	-	0.00%
	R0MUWSFPU8MPRO8K5P83	0.38%	0.71%	-	-	0.00%
BARCLAYS CAPITAL SECURITIES LIMITED	K9WDOH4D2PYBSLSOB484	8.63%	13.17%	-	-	0.00%
Société Générale SA	O2RNE8IBXP4R0TD8PU41	5.17%	4.41%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPFGFNF3BB653	5.15%	5.05%	-	-	0.00%

LEGAL UNIT 529900BXKPMXQTRE1V05
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%



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 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%	22.65%	21.29%	0.00%
LEGAL UNIT CLASS OF INSTRUMENT	529900BXKPMXQTRE1V05 (I) Exchange traded products	s (Exchange traded fund	s, exchange traded notes	and exchange trac	ded 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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
ABN	AMRO CLEARING BANK N.V.	G8ZTNESVNKW4NN761W05	24.78%	12.59%	-	-	0.00%
Bern	er Kantonalbank AG	4T0J6O251JXNEB0VEZ08	0.13%	0.06%	-	-	0.00%
BERN	NSTEIN AUTONOMOUS LLP	213800LBM6PT85IGM996	1.81%	0.13%	-	-	0.00%
BRID	PORT & CIE SA	213800VGFKO4K5IJUI20	0.07%	0.06%	-	-	0.00%
CAN	ACCORD GENUITY LIMITED	ZBU7VFV5NIMN4ILRFC23	4.25%	3.09%	-	-	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	Retail

Execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
ABN AMRO CLEARING BANK N.V.	G8ZTNESVNKW4NN761W05	22.05%	5.99%	-	-	0.00%
Berner Kantonalbank AG	4T0J6O251JXNEB0VEZ08	20.27%	64.16%	-	-	0.00%
BERNSTEIN AUTONOMOUS LLP	213800LBM6PT85IGM996	19.33%	19.19%	-	-	0.00%
BRIDPORT & CIE SA	213800VGFKO4K5IJUI20	18.24%	4.05%	-	-	0.00%
CANACCORD GENUITY LIMITED	ZBU7VFV5NIMN4ILRFC23	5.23%	0.85%	-	-	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05					

CLASS OF INSTRUMENT 529900BXKPMXQTRE1V05
(J) Other instruments

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N

Client Type Retail

E	execution Venue / Executing Broker (ranked by Volume in descending order)	LEI		Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DE	EUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	47.64%	92.28%	-	-	0.00%
UE	3S AG	BFM8T61CT2L1QCEMIK50	46.73%	5.66%	-	-	0.00%
Cit	tigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	2.73%	0.13%	-	-	0.00%
BA	ARCLAYS CAPITAL SECURITIES LIMITED	K9WDOH4D2PYBSLSOB484	0.88%	0.45%	-	-	0.00%
RB	C Europe Limited	TXDSU46SXBWIGJ8G8E98	0.56%	0.19%	-	-	0.00%

# For Professional Clients:



0.00%

0.00%

0.00%

0.00%

LEGAL UNIT 529900BXKPMXQTRE1V05

CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)

549300RI6VZUNIR81J81

8NAV47T0Y26Q87Y0QP81

549300WOIFUSNYH0FL22

549300XG5LFGN1IGYC71

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y

INSTINET PACIFIC LIMITED

VIRTU FINANCIAL IRELAND LIMITED

**UBS Switzerland AG** 

Merrill Lynch, Pierce, Fenner & Smith Incorporated

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%	0.35%	0.33%	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIO Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De DUS YEAR N Professional	pository Receipts - Tick s	ize liquidity bands 1 and 2	2 (from 0 to 79 tra	des per day)	
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
CANTOR FITZGERALD FUROPE	549300KM6VUHPKOLOX53	35.36%	12.12%	_	_	0.00%

16.71%

11.50%

8.68%

7.62%

24.52%

7.93%

5.20%

20.78%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N

Executing Broker (ranked by Volume in descending order)	LEI	•	Proportion of Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	35.36%	12.12%	-	-	0.00%
INSTINET PACIFIC LIMITED	549300RI6VZUNIR81J81	16.71%	24.52%	-	-	0.00%
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	11.50%	7.93%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	8.68%	5.20%	-	-	0.00%
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	7.62%	20.78%	-	-	0.00%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)

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%	6.28%	5.90%	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (A) Equities - Shares and De R N Professional	pository Receipts - Tick s	ize liquidity bands 3 and 4	(from 80 to 1999	trades per day)	
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
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	55.01%	15.88%	-	-	0.00%
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	15.63%	23.78%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	10.61%	3.09%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	6.65%	4.56%	-	-	0.00%
						0.0070



CLASS OF INSTRUMENT

(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N

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
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8NAV47T0Y26Q87Y0QP81	49.98%	6.31%	-	-	0.00%
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	14.20%	9.45%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	9.64%	1.23%	-	-	0.00%
SIX SIS AG	549300A3XI3YWROC2J57	9.14%	60.25%	6.28%	5.90%	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	6.04%	1.81%	-	-	0.00%



529900BXKPMXQTRE1V05 LEGAL UNIT

(A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day) CLASS OF INSTRUMENT

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%	0.10%	0.09%	0.00%
LEGAL UNIT	529900BXKPMXQTRE1V05			.,,		
CLASS OF INSTRUMENT  NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEA	(A) Equities - Shares and De R N	pository Receipts - Tick s	ize liquidity bands 5 and 6	(from 2000 trade	es per day)	
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
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	18.78%	23.91%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	17.88%	1.64%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	15.75%	15.12%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	12.75%	9.06%	_	_	0.000/
		12.7570	310070		_	0.00%



CLASS OF INSTRUMENT (A) Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N

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
VIRTU FINANCIAL IRELAND LIMITED	549300XG5LFGN1IGYC71	18.72%	23.57%	-	-	0.00%
CANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	17.82%	1.62%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	15.70%	14.90%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	12.71%	8.93%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	9.59%	15.75%	-	-	0.00%



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 Trades executed as a % of total	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	9.87%	7.41%	-	-	0.00%
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	8.57%	6.22%	-	-	0.00%
BNP PARIBAS	R0MUWSFPU8MPRO8K5P83	7.47%	7.15%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPFGFNF3BB653	6.90%	8.08%	-	-	0.00%
Goldman Sachs International	W22LROWP2IHZNBB6K528	6.06%	3.99%	-	-	0.00%

LEGAL UNIT 529900BXKPMXQTRE1V05

CLASS OF INSTRUMENT (B) Debt Instruments - Money Market Instruments

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y

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	25.66%	21.89%	-	-	0.00%
Nomura International PLC	DGQCSV2PHVF7I2743539	14.14%	10.65%	-	-	0.00%
RBC Europe Limited	TXDSU46SXBWIGJ8G8E98	10.11%	6.51%	-	-	0.00%
Morgan Stanley & Co. International PLC	4PQUHN3JPFGFNF3BB653	8.35%	2.37%	-	-	0.00%
WELLS FARGO BANK NATIONAL ASSOCIATION	KB1H1DSPRFMYMCUFXT09	6.45%	14.79%	-	-	0.00%



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

Execution Venue / Executing Broker	LEI		Proportion of Trades executed as a % of total		Percentage of Aggressive orders	Percentage of Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%



LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	529900BXKPMXQTRE1V05 (C) Interest Rate Derivatives	- Swaps, forwards and o	ther interest rate derivati	ves		
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	7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%
LEGAL UNIT CLASS OF INSTRUMENT NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Client Type	529900BXKPMXQTRE1V05 (E) Structured Finance Instru Y Professional	ments				
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
Execution Venue / Executing Broker  DEUTSCHE BANK AKTIENGESELLSCHAFT	LE 7LTWFZYICNSX8D621K86	•	•	-	Aggressive	_
	7LTWFZYICNSX8D621K86  529900BXKPMXQTRE1V05 (F) Equity Derivatives - Futur	traded as a % of total	executed as a % of total	Passive orders	Aggressive	Directed orders
DEUTSCHE BANK AKTIENGESELLSCHAFT  LEGAL UNIT  CLASS OF INSTRUMENT  NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR	7LTWFZYICNSX8D621K86  529900BXKPMXQTRE1V05 (F) Equity Derivatives - Futur	traded as a % of total  100.00%  res and options admitted  Proportion of Volume	executed as a % of total	Passive orders  - enue  Percentage of	Aggressive	Directed orders



CLASS OF INSTRUMENT (F) Equity Derivatives - Swaps and other equity derivatives

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR Y

LEI		•		Percentage of Aggressive orders	Percentage of Directed orders
7LTWFZYICNSX8D621K86	100.00%	100.00%	-	-	0.00%
529900BXKPMXQTRE1V05					
(G) Securitised Derivatives - Warrants and Certificate Derivatives					
: <b>Y</b>					
Professional					
	7LTWFZYICNSX8D621K86  529900BXKPMXQTRE1V05 (G) Securitised Derivatives -	TLTWFZYICNSX8D621K86 100.00%  529900BXKPMXQTRE1V05  (G) Securitised Derivatives - Warrants and Certificates	traded as a % of total executed as a % of total  7LTWFZYICNSX8D621K86 100.00% 100.00%  529900BXKPMXQTRE1V05 (G) Securitised Derivatives - Warrants and Certificate Derivatives  Y	TLTWFZYICNSX8D621K86 100.00% 100.00% -  529900BXKPMXQTRE1V05 (G) Securitised Derivatives - Warrants and Certificate Derivatives	LEI Proportion of Volume traded as a % of total executed as a % of total executed as a % of total Passive orders  7LTWFZYICNSX8D621K86 100.00% 100.00%  529900BXKPMXQTRE1V05 (G) Securitised Derivatives - Warrants and Certificate Derivatives

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	70.74%	19.77%	-	-	0.00%
BNP PARIBAS	6EWKU0FGVX5QQJHFGT48	7.22%	6.84%	-	-	0.00%
	R0MUWSFPU8MPRO8K5P83	0.46%	1.14%	-	-	0.00%
Goldman Sachs International	N9FYJ29MC81JI74MJE92	2.54%	1.14%	-	-	8.33%
	W22LROWP2IHZNBB6K528	3.27%	2.28%	-	-	0.00%
BARCLAYS CAPITAL SECURITIES LIMITED	K9WDOH4D2PYBSLSOB484	3.64%	2.66%	-	-	0.00%
Bank Vontobel AG	549300L7V4MGECYRM576	2.32%	5.32%	_	-	0.00%



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

	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
S	IX SIS AG	549300A3XI3YWROC2J57	100.00%	100.00%	9.76%	9.17%	0.00%



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
Α	ABN AMRO CLEARING BANK N.V.	G8ZTNESVNKW4NN761W05	36.42%	8.12%	-	-	0.00%
C	ANACCORD GENUITY LIMITED	ZBU7VFV5NIMN4ILRFC23	2.22%	0.91%	-	-	0.00%
C	ANTOR FITZGERALD EUROPE	549300KM6VUHPKQLQX53	3.28%	0.25%	-	-	0.00%
C	itigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	0.13%	0.10%	-	-	0.00%
G	Goldman Sachs International	W22LROWP2IHZNBB6K528	1.63%	1.02%	-	-	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

Percentage of Proportion of Volume Proportion of Trades Percentage of Percentage of Execution Venue / Executing Broker (ranked by Volume in descending order) LEI Aggressive traded as a % of total executed as a % of total Passive orders **Directed orders** orders Jane Street Financial Limited 549300ZHEHX8M31RP142 35.71% 10.87% 0.00% ABN AMRO CLEARING BANK N.V. G8ZTNESVNKW4NN761W05 31.70% 5.90% 0.00% SIX SIS AG 549300A3XI3YWROC2J57 12.97% 27.41% 9.76% 9.17% 0.00% VIRTU FINANCIAL IRELAND LIMITED 549300XG5LFGN1IGYC71 9.06% 45.36% 0.00% **CANTOR FITZGERALD EUROPE** 549300KM6VUHPKQLQX53 2.86% 0.18% 0.00%



LEGAL UNIT 529900BXKPMXQTRE1V05
CLASS OF INSTRUMENT (J) Other instruments

NOTIFICATION IF < 1 AVERAGE TRADE PER BUSINESS DAY IN THE PREVIOUS YEAR N

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	73.74%	50.82%	-	-	0.00%
RBC Europe Limited	TXDSU46SXBWIGJ8G8E98	4.59%	3.28%	-	-	0.00%
Jane Street Financial Limited	549300ZHEHX8M31RP142	4.40%	1.64%	-	-	0.00%
UBS Switzerland AG	549300WOIFUSNYH0FL22	3.86%	3.28%	-	-	0.00%
BARCLAYS CAPITAL SECURITIES LIMITED	K9WDOH4D2PYBSLSOB484	2.83%	1.64%	-	-	0.00%