

Date : 2026-09-01

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 26H04-PTH02

Customer Identification : Coriander - Turkey - CK0115

Type : Essential Oil

Source : *Coriandrum sativum*

Customer : Plant Therapy

Checked and approved by:

Sylvain Mercier, M. Sc., Chimiste 2014-005

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

This report is an update of the version first issued on 2026-08-10 to make a modification in the sample identification section.

GAS CHROMATOGRAPHIC ANALYSIS

Method : PC-MAT-014 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID

✖ISO

Results : See analysis summary (next page)

Analyst : Jean-Christophe Fortin, M. Sc.

Date : 2026-08-06

PHYSICOCHEMICAL DATA

Refractive index : 1.4757 ± 0.0003 (20 °C)

Method : PC-MAT-016 - Measure of the refractive index of a liquid.

Analyst : Cindy Caron B. Sc.

Date : 2026-08-04

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.

ANALYSIS SUMMARY - CONSOLIDATED CONTENTS

New readers of similar reports are encouraged to read table footnotes at least once.

Identification	%	Class
Methyl 2-methylbutyrate	0.01	Aliphatic ester
Hexanol	0.01	Aliphatic alcohol
Tricyclene	0.02	Monoterpene
α -Thujene	0.04	Monoterpene
α -Pinene	5.59	Monoterpene
Camphene	0.87	Monoterpene
Sabinene	0.30	Monoterpene
β -Pinene	0.52	Monoterpene
6-Methyl-5-hepten-2-one	0.04	Aliphatic ketone
Myrcene	0.98	Monoterpene
6-Methyl-5-hepten-2-ol	0.05	Aliphatic alcohol
α -Phellandrene	0.02	Monoterpene
Δ^3 -Carene	0.01	Monoterpene
α -Terpinene	0.04	Monoterpene
<i>para</i> -Cymene	1.17	Monoterpene
β -Phellandrene	0.12	Monoterpene
Limonene	2.36	Monoterpene
1,8-Cineole	0.03	Monoterpenic ether
(Z)- β -Ocimene	0.02	Monoterpene
(E)- β -Ocimene	0.03	Monoterpene
γ -Terpinene	4.46	Monoterpene
<i>cis</i> -Sabinene hydrate	0.06	Monoterpenic alcohol
<i>cis</i> -Linalool oxide (fur.)	0.14	Monoterpenic alcohol
Terpinolene	0.56	Monoterpene
<i>trans</i> -Linalool oxide (fur.)	0.11	Monoterpenic alcohol
Linalool	74.01	Monoterpenic alcohol
Camphor	4.24	Monoterpenic ketone
Isopulegol	0.04	Monoterpenic alcohol
Citronellal	0.01	Monoterpenic aldehyde
Pinocarvone	0.01	Monoterpenic ketone
Borneol	0.14	Monoterpenic alcohol
<i>cis</i> -Linalool oxide (pyr.)	0.02	Monoterpenic alcohol
Terpinen-4-ol	0.12	Monoterpenic alcohol
Nonanol	0.01	Aliphatic alcohol
<i>para</i> -Cymen-8-ol	0.02	Monoterpenic alcohol
α -Terpineol	0.25	Monoterpenic alcohol
Myrtenal	0.03	Monoterpenic aldehyde
Myrtenol	0.03	Monoterpenic alcohol
Verbenone	0.03	Monoterpenic ketone
Octyl acetate	0.02	Aliphatic ester

Nerol	0.03	Monoterpenic alcohol
Citronellol	0.05	Monoterpenic alcohol
Neral	0.02	Monoterpenic aldehyde
Geraniol	1.14	Monoterpenic alcohol
(2E)-Decenal	0.02	Aliphatic aldehyde
Geranial	0.03	Monoterpenic aldehyde
Decanol	0.02	Aliphatic alcohol
Myrtenyl acetate	0.08	Monoterpenic ester
Citronellyl acetate	0.02	Monoterpenic ester
Neryl acetate	0.03	Monoterpenic ester
<i>trans</i> -Myrtanyl acetate	0.01	Monoterpenic ester
Geranyl acetate	1.90	Monoterpenic ester
β -Caryophyllene	0.05	Sesquiterpene
Consolidated total	99.89	

tr: The compound has been detected below 0.005% of the total signal

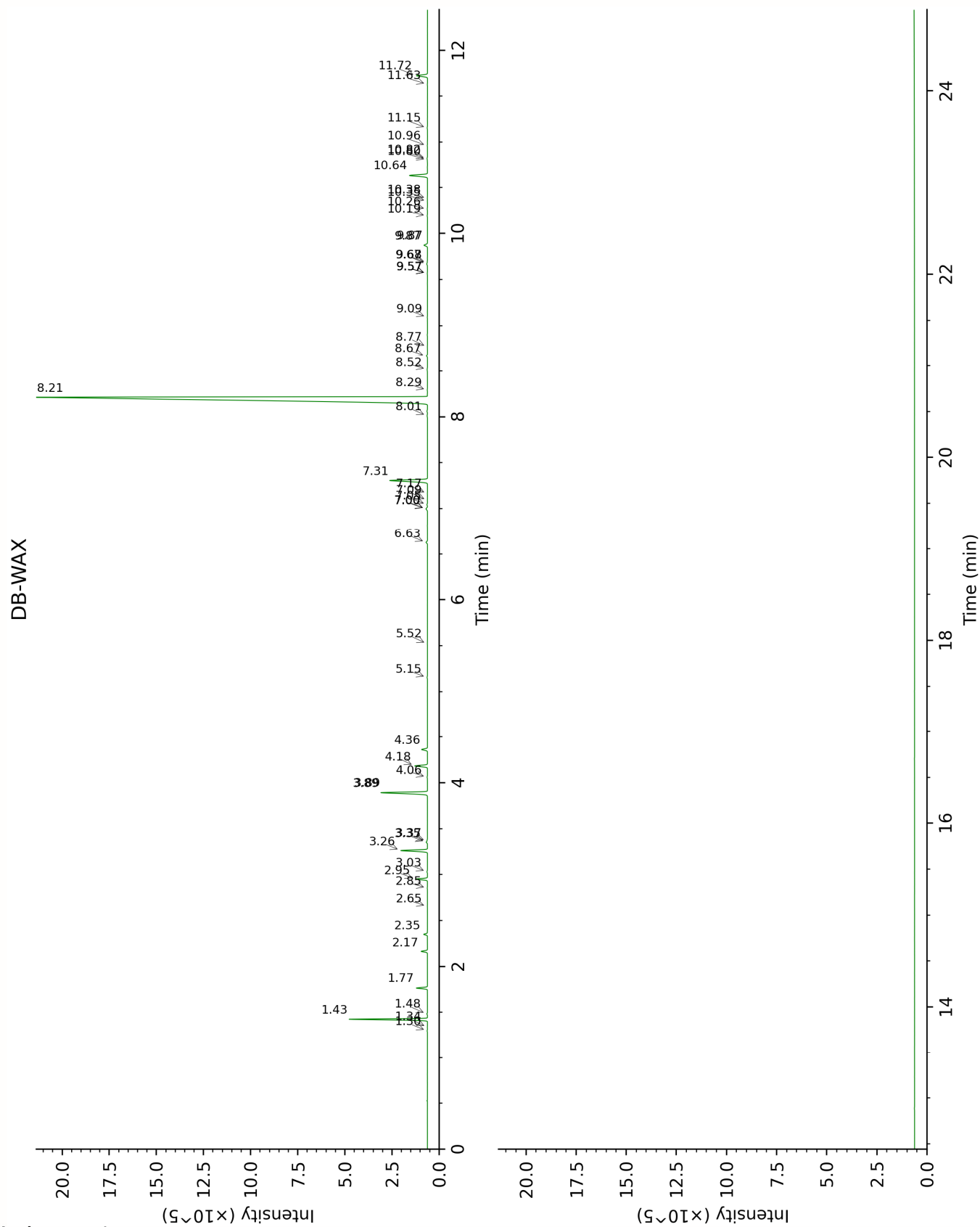
Note: no correction factor was applied

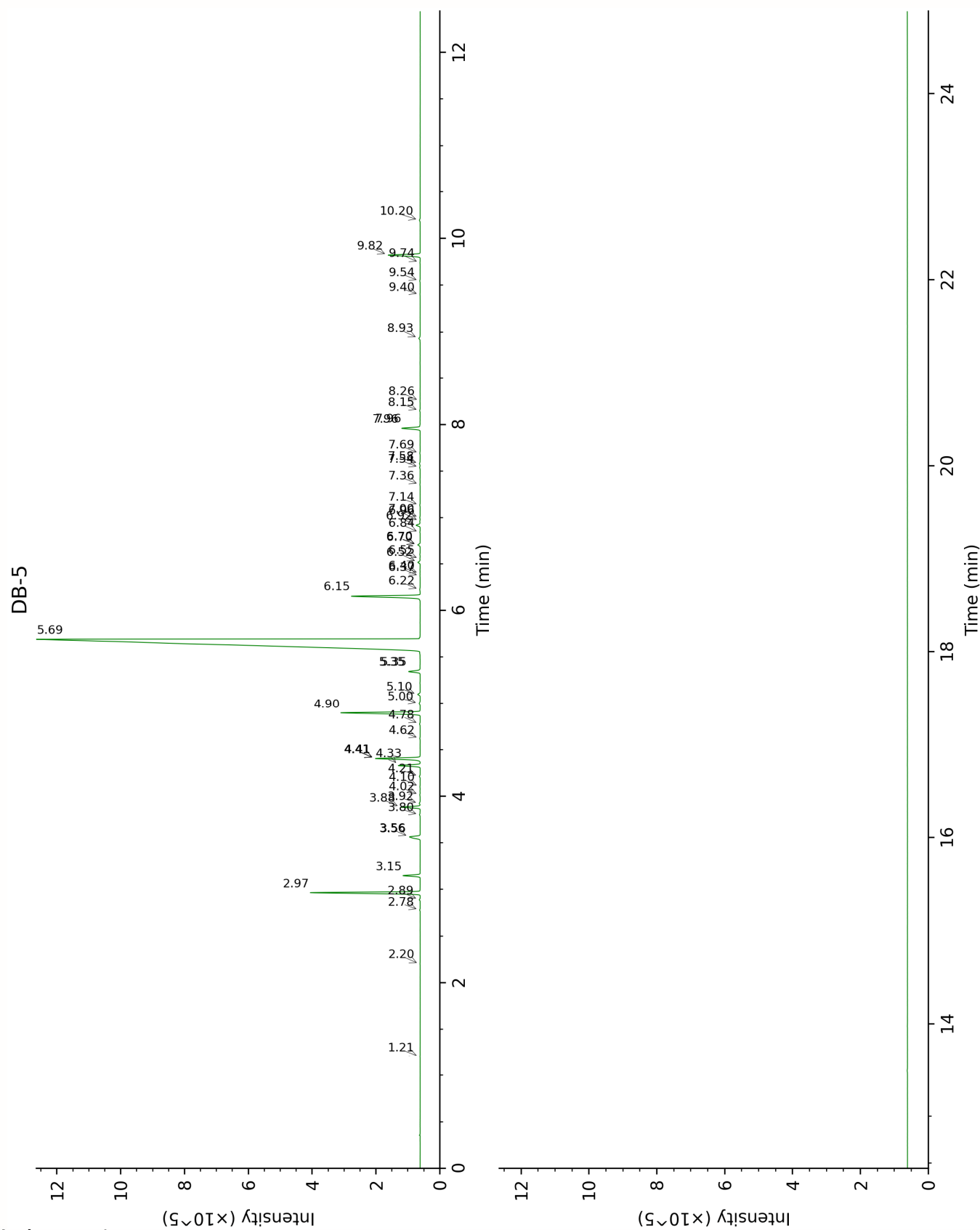
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the chromatograms in this report to access the full untreated data and perform their own calculations if needed.

Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

Bracketed value ([xx]): A bracketed percent value indicate that two or more compound percentage could not be solved due to coelution.

This page was intentionally left blank. The following pages present the complete data of the analysis.





FULL ANALYSIS DATA

Methyl 2-methylbutyrate	Column DB-WAX			Column DB-5		
	1.34	977.9	0.01	1.20	775.7	0.01
Hexanol	5.52	1325.1	0.01	2.20	873.4	0.01
Tricyclene	1.30	971.7	0.02	2.78	919.1	0.02
α -Thujene	1.48	999.2	0.04	2.89	926.6	0.04
α -Pinene	1.43	991.8	5.56	2.97	931.7	5.59
Camphene	1.77	1026.7	0.87	3.15	944.0	0.87
Sabinene	2.35	1084.0	0.30	3.56*	972.0	[0.82]
β -Pinene	2.16	1065.8	0.52	3.56*	972.0	[0.82]
6-Methyl-5-hepten-2-one	5.15	1299.1	0.04	3.80	988.0	0.04
Myrcene	2.95	1133.5	0.98	3.88	993.5	0.98
6-Methyl-5-hepten-2-ol	7.05	1434.4	0.05	3.92	996.2	0.05
α -Phellandrene	2.85	1125.8	0.02	4.02	1002.4	0.02
Δ^3 -Carene	2.66	1110.3	0.01	4.10	1008.1	0.01
α -Terpinene	3.03	1139.7	0.05	4.21	1015.1	0.04
<i>para</i> -Cymene	4.18	1228.0	1.18	4.33	1022.6	1.17
β -Phellandrene	3.35	1165.1	0.12	4.40*	1027.3	[2.51]
Limonene	3.26	1157.9	2.36	4.40*	1027.3	[2.51]
1,8-Cineole	3.37	1166.1	0.03	4.40*	1027.3	[2.51]
(<i>Z</i>)- β -Ocimene	3.89*	1206.7	[4.46]	4.62	1041.0	0.02
(<i>E</i>)- β -Ocimene	4.06	1218.9	0.04	4.78	1050.9	0.03
γ -Terpinene	3.89*	1206.7	[4.46]	4.90	1058.6	4.46
<i>cis</i> -Sabinene hydrate	7.00*	1430.9	[0.18]	5.00	1065.3	0.06
<i>cis</i> -Linalool oxide (fur.)	6.63	1403.7	0.15	5.10	1071.5	0.14
Terpinolene	4.36	1241.2	0.56	5.35*	1087.2	[0.66]
<i>trans</i> -Linalool oxide (fur.)	7.00*	1430.9	[0.18]	5.35*	1087.2	[0.66]
Linalool	8.22	1521.2	73.82	5.69	1109.4	74.01
Camphor	7.31	1453.6	4.20	6.15	1139.4	4.24
Isopulegol	8.29	1527.2	0.03	6.22	1143.9	0.04
Citronellal	7.09	1437.8	0.01	6.37	1153.3	0.01
Pinocarvone	8.01	1505.7	0.06	6.40	1155.4	0.01
Borneol	9.87*	1650.8	[0.36]	6.52	1163.1	0.14
<i>cis</i> -Linalool oxide (pyr.)	10.38	1691.5	0.02	6.55	1165.5	0.02
Terpinen-4-ol	8.67	1556.0	0.12	6.70*	1175.3	[0.14]
Nonanol	9.57*	1626.2	[0.03]	6.70*	1175.3	[0.14]
<i>para</i> -Cymen-8-ol	11.63	1797.0	0.03	6.84	1184.4	0.02
α -Terpineol	9.87*	1650.8	[0.36]	6.92	1189.5	0.25

Myrtenal	8.77	1563.7	0.02	6.96	1192.3	0.03
Myrtenol	10.96	1740.4	0.03	7.00	1194.9	0.03
Verbenone	9.68	1635.7	0.02	7.14	1203.6	0.03
Octyl acetate	7.16	1443.1	0.02	7.36	1218.6	0.02
Nerol	11.15	1756.6	0.04	7.54	1231.0	0.03
Citronellol	10.82	1728.5	0.05	7.58	1234.1	0.05
Neral	9.57*	1626.2	[0.03]	7.69	1241.5	0.02
Geraniol	11.72	1805.2	1.14	7.96*	1259.9	[1.11]
(2E)-Decenal	9.09	1588.4	0.02	7.96*	1259.9	[1.11]
Geranial	10.19	1676.4	0.03	8.15	1272.8	0.03
Decanol	10.80	1727.2	0.02	8.26	1280.0	0.02
Myrtenyl acetate	9.67	1634.4	0.08	8.93	1323.1	0.08
Citronellyl acetate	9.57*	1626.2	[0.03]	9.40	1356.5	0.02
Neryl acetate	10.26	1682.2	0.03	9.54	1366.9	0.03
trans-Myrtanyl acetate	10.35	1689.0	0.01	9.74	1380.8	0.01
Geranyl acetate	10.64	1713.2	1.90	9.82	1386.7	1.90
β-Caryophyllene	8.52	1544.4	0.06	10.20	1413.8	0.05
Total reported		99.68%			99.85%	

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, only the first one is taken into account in the consolidated total

†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied
R.T.: Retention time (minutes)
R.I.: Retention index