Date : 2024-01-22

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 24A15-PTH04
Customer Identification : Ylang Ylang Extra - Madagascar - Y20106R
Type : Essential Oil
Source : *Cananga odorata var. genuina (Ylang-ylang)*
Customer : Plant Therapy

Checked an approved by:

Alexis St-Gelais, Ph. D., Chimiste 2013-174

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.

Méthode certifiée ISO 17025:2017 Certified method

Laboratoire PhytoChemia

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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 : Sylvain Mercier, M. Sc., Chimiste 2014-005
Date : 2024-01-18

Physicochemical data

Refractive index : 1.4995 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2024-01-16

Conclusion

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

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Analysis Summary - Consolidated Contents

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

Identification	%	Class
2-Methyl-3-buten-2-ol	0.01	Aliphatic alcohol
Ethyl acetate	0.01	Aliphatic ester
Pentanal	tr	Aliphatic aldehyde
Isobutyl acetate	tr	Aliphatic ester
Hexanal	0.01	Aliphatic aldehyde
Octane	0.01	Alkane
Butyl acetate	0.01	Aliphatic ester
Hexanol	0.01	Aliphatic alcohol
Isoamyl acetate	0.02	Aliphatic ester
2-Methylbutyl acetate	0.02	Aliphatic ester
3-Methyl-3-butenyl acetate	0.08	Aliphatic ester
Heptanal	tr	Aliphatic aldehyde
Amyl acetate	tr	Aliphatic ester
Prenyl acetate	0.30	Aliphatic ester
α-Pinene	0.22	Monoterpene
Camphene	0.01	Monoterpene
Benzaldehyde	0.04	Simple phenolic
β-Pinene	0.08	Monoterpene
Sabinene	0.01	Monoterpene
6-Methyl-5-hepten-2-one	0.03	Aliphatic ketone
Myrcene	0.14	Monoterpene
(3*Z*)-Hexenyl acetate	0.11	Aliphatic ester
para-Methylanisole	5.03	Simple phenolic
para-Cymene	0.02	Monoterpene
Limonene	0.04	Monoterpene
1,8-Cineole	0.21	Monoterpenic ether
Benzyl alcohol	0.05	Simple phenolic
Benzeneacetaldehyde	0.01	Simple phenolic
(*Z*)-β-Ocimene	0.01	Monoterpene
(*E*)-β-Ocimene	0.02	Monoterpene
cis-Sabinene hydrate	0.02	Monoterpenic alcohol
cis-Linalool oxide (fur.)	0.03	Monoterpenic alcohol
trans-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
para-Cresol	0.04	Simple phenolic
Methyl benzoate	2.66	Phenolic ester
Nonanal	0.05	Aliphatic aldehyde
Linalool	11.53	Monoterpenic alcohol
Benzeneacetonitrile	0.02	Simple phenolic
ortho-Dimethoxybenzene	0.04	Simple phenolic
Benzyl acetate	4.58	Phenolic ester

para-Cresyl acetate	0.07	Phenolic ester
Ethyl benzoate	0.08	Phenolic ester
Terpinen-4-ol	0.01	Monoterpenic alcohol
α-Terpineol	0.24	Monoterpenic alcohol
Methylchavicol	0.19	Phenylpropanoid
Nerol	0.04	Monoterpenic alcohol
Neral	0.04	Monoterpenic aldehyde
Phenylethyl acetate	0.08	Phenolic ester
Geraniol	1.97	Monoterpenic alcohol
Chavicol	0.01	Phenylpropanoid
Geranial	0.12	Monoterpenic aldehyde
(*E*)-Anethole	0.10	Phenylpropanoid
1-Nitro-2-phenylethane	0.12	Simple phenolic
(*E*)-Cinnamyl alcohol	0.02	Phenylpropanoid
4-Vinylguaiacol	0.02	Simple phenolic
Bicycloelemene	0.04	Sesquiterpene
Benzyl butyrate	0.07	Phenolic ester
α-Cubebene	0.10	Sesquiterpene
Eugenol	0.65	Phenylpropanoid
Neryl acetate	0.04	Monoterpenic ester
α-Ylangene	0.10	Sesquiterpene
α-Copaene	0.63	Sesquiterpene
β-Bourbonene	0.02	Sesquiterpene
β-Cubebene	0.11	Sesquiterpene
Geranyl acetate	11.79	Monoterpenic ester
β-Elemene	0.24	Sesquiterpene
Cyperene	0.04	Sesquiterpene
Vanillin	0.01	Simple phenolic
Isocaryophyllene	0.01	Sesquiterpene
Methyleugenol	0.04	Phenylpropanoid
β-Caryophyllene	8.21	Sesquiterpene
Caryophylla-4(12),8(13)-diene	0.04	Sesquiterpene
β-Copaene	0.24	Sesquiterpene
Aromadendrene	0.04	Sesquiterpene
α-Guaiene	0.01	Sesquiterpene
Isogermacrene D	0.02	Sesquiterpene
(*E*)-Cinnamyl acetate	1.02	Phenylpropanoid ester
9-epi-Isocaryophyllene	0.03	Sesquiterpene
trans-Muurola-3,5-diene	0.08	Sesquiterpene
(*E*)-Isoeugenol	0.15	Phenylpropanoid
α-Humulene	2.38	Sesquiterpene
cis-Cadina-1(6),4-diene	0.05	Sesquiterpene
cis-Muurola-4(15),5-diene	0.10	Sesquiterpene
Unknown	0.02	Unknown
trans-Cadina-1(6),4-diene	0.13	Sesquiterpene

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γ-Muurolene	1.33	Sesquiterpene
Germacrene D	9.79	Sesquiterpene
trans-Muurola-4(15),5-diene	0.03	Sesquiterpene
Prenyl benzoate	0.59	Phenolic ester
epi-Cubebol	0.06	Sesquiterpenic alcohol
Bicyclogermacrene	0.66	Sesquiterpene
Viridiflorene	0.05	Sesquiterpene
(3*Z*,6*E*)-α-Farnesene	0.04	Sesquiterpene
α-Muurolene	0.70	Sesquiterpene
δ-Guaiene	0.35	Sesquiterpene
Unknown	0.44	Sesquiterpene
δ-Amorphene	0.25	Sesquiterpene
Cubebol	0.07	Sesquiterpenic alcohol
(3*E*,6*E*)-α-Farnesene	3.85	Sesquiterpene
γ-Cadinene	0.69	Sesquiterpene
trans-Calamenene	0.14	Sesquiterpene
Zonarene	0.15	Sesquiterpene
δ-Cadinene	2.00	Sesquiterpene
trans-Cadina-1,4-diene	0.12	Sesquiterpene
α-Cadinene	0.19	Sesquiterpene
α-Calacorene	0.05	Sesquiterpene
cis-Dracunculifoliol	0.02	Sesquiterpenic alcohol
α-Elemol	0.11	Sesquiterpenic alcohol
Germacrene B	0.05	Sesquiterpene
(*E*)-Nerolidol	0.10	Sesquiterpenic alcohol
(3*Z*)-Hexenyl benzoate	0.03	Phenolic ester
Germacrene D-4-ol	0.04	Sesquiterpenic alcohol
Spathulenol	0.10	Sesquiterpenic alcohol
Caryophyllene oxide	0.50	Sesquiterpenic ether
Caryophyllene oxide isomer	0.08	Sesquiterpenic ether
10-epi-Junenol	0.05	Sesquiterpenic alcohol
trans-Dracunculifoliol	0.06	Sesquiterpenic alcohol
Unknown	0.04	Sesquiterpenic alcohol
Unknown	0.09	Oxygenated sesquiterpene
Humulene epoxide I	0.02	Sesquiterpenic ether
Guaiol	0.07	Sesquiterpenic alcohol
Copaborneol	0.05	Sesquiterpenic alcohol
Humulene epoxide II	0.14	Sesquiterpenic ether
1,10-diepi-Cubenol	0.09	Sesquiterpenic alcohol
Junenol	0.22	Sesquiterpenic alcohol
(*E*)-Isoeugenyl acetate	0.03	Phenylpropanoid ester
1-epi-Cubenol	0.23	Sesquiterpenic alcohol
γ-Eudesmol	0.13	Sesquiterpenic alcohol
Caryophylladienol II	0.02	Sesquiterpenic alcohol
allo-Aromadendrene epoxide?	0.03	Sesquiterpenic ether

τ-Cadinol	0.31	Sesquiterpenic alcohol
Cubenol	0.16	Sesquiterpenic alcohol
τ-Muurolol	0.70	Sesquiterpenic alcohol
α-Muurolol	0.38	Sesquiterpenic alcohol
Unknown	0.25	Sesquiterpenic alcohol
α-Cadinol	1.36	Sesquiterpenic alcohol
cis-Calamenen-10-ol	0.05	Sesquiterpenic alcohol
trans-Calamenen-10-ol	0.06	Sesquiterpenic alcohol
Bulnesol	0.04	Sesquiterpenic alcohol
Unknown	0.20	Oxygenated sesquiterpene
Eudesma-4(15),7-dien-1β-ol	0.04	Sesquiterpenic alcohol
(2*E*,6*Z*)-Farnesol	0.02	Sesquiterpenic alcohol
(2*Z*,6*E*)-Farnesol	0.04	Sesquiterpenic alcohol
(2*E*,6*E*)-Farnesol	1.64	Sesquiterpenic alcohol
(2*E*,6*E*)-Farnesal	0.05	Sesquiterpenic aldehyde
Benzyl benzoate	8.88	Phenolic ester
Unknown	0.07	Unknown
(2*E*,6*E*)-Farnesyl acetate	1.42	Sesquiterpenic ester
Unknown	0.07	Oxygenated sesquiterpene
Benzyl salicylate	2.47	Phenolic ester
Unknown	0.05	Unknown
Unknown	0.05	Unknown
Geranyl benzoate	0.18	Phenolic ester
Unknown	0.11	Unknown
Consolidated total	**97.46**	

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.

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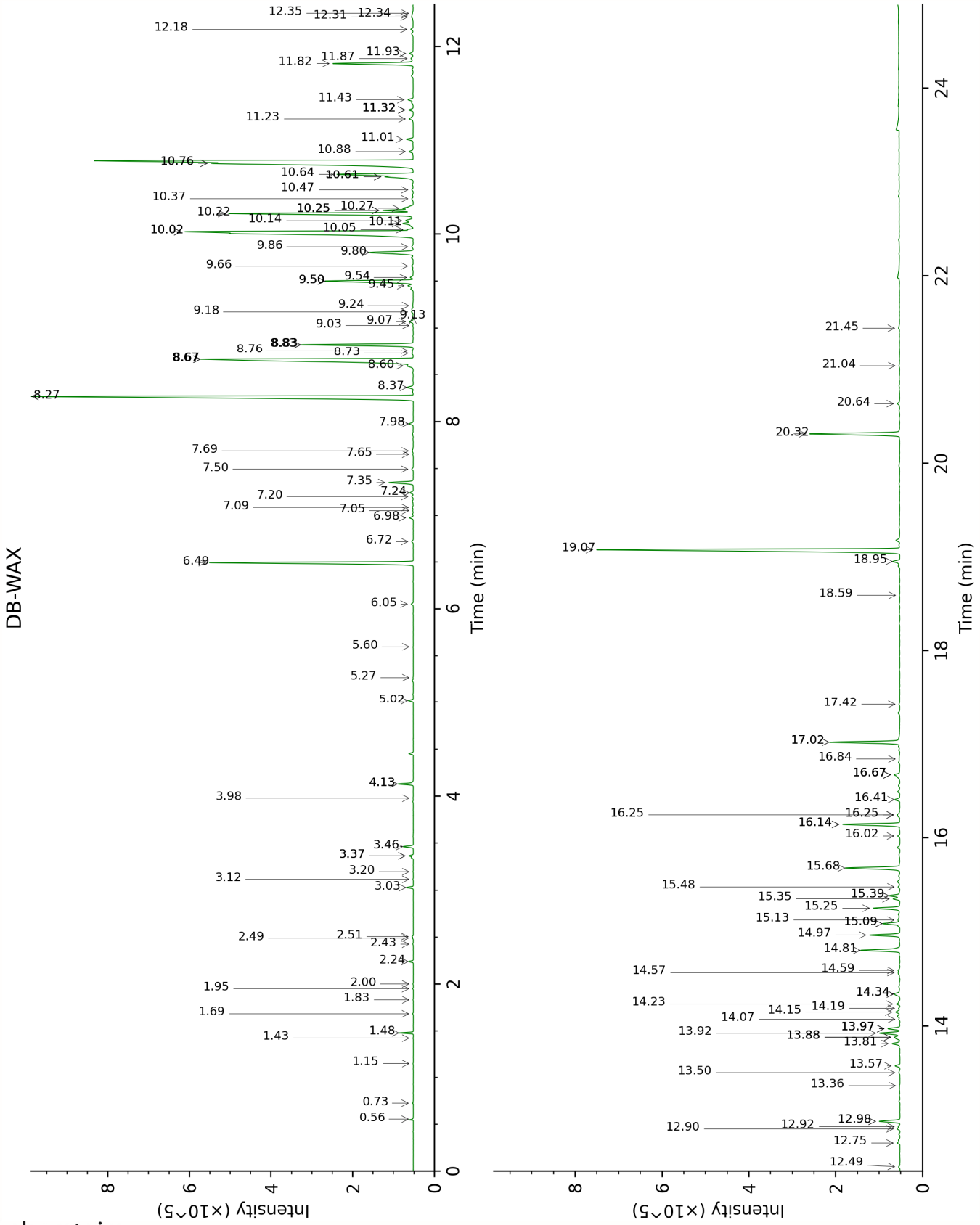
DB-WAX
Time (min)
Intensity (×10^5)
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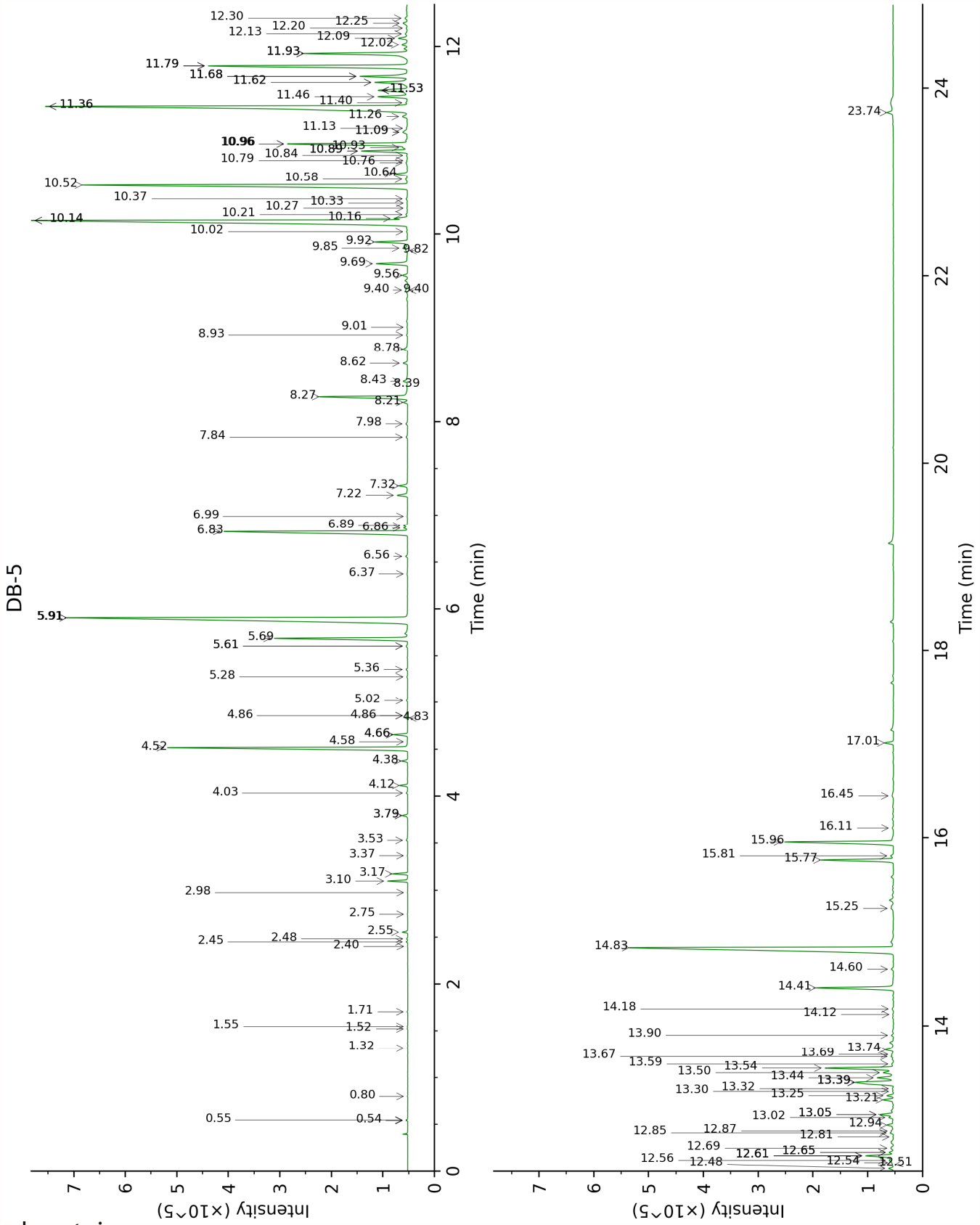
12.31
12.34
12.18
11.82
11.87
11.93
11.43
11.32
11.23
11.01
10.88
10.76
10.64
10.61
10.47
10.37
10.22
10.25
10.27
10.14
10.11
10.02
10.05
9.86
9.80
9.66
9.50
9.54
9.45
9.24
9.18
9.13
9.07
9.03
8.83
8.76
8.73
8.67
8.60
8.37
8.27
7.98
7.69
7.65
7.50
7.35
7.24
7.20
7.09
7.05
6.98
6.72
6.49
6.05
5.60
5.27
5.02
4.13
3.98
3.46
3.37
3.20
3.12
3.03
2.51
2.49
2.43
2.24
2.00
1.95
1.83
1.69
1.48
1.43
1.15
0.73
0.56
21.45
21.04
20.64
20.32
19.07
18.95
18.59
17.42
17.02
16.84
16.67
16.41
16.25
16.25
16.14
16.02
15.68
15.48
15.39
15.35
15.25
15.13
15.09
14.97
14.81
14.57
14.59
14.34
14.23
14.19
14.15
14.07
13.97
13.92
13.88
13.81
13.57
13.50
13.36
12.98
12.92
12.90
12.75
12.49


DB-5
Time (min)
Intensity (×10^5)
12.30
12.25
12.20
12.13
12.09
12.02
11.93
11.79
11.68
11.62
11.53
11.46
11.40
11.36
11.26
11.13
11.09
10.96
10.93
10.89
10.84
10.79
10.76
10.64
10.58
10.52
10.37
10.33
10.27
10.21
10.16
10.14
10.02
9.92
9.85
9.82
9.69
9.56
9.40
9.40
9.01
8.93
8.78
8.62
8.43
8.39
8.27
8.21
7.98
7.84
7.32
7.22
6.99
6.89
6.86
6.83
6.56
6.37
5.91
5.69
5.61
5.36
5.28
5.02
4.86
4.86
4.83
4.66
4.58
4.52
4.38
4.12
4.03
3.79
3.53
3.37
3.17
3.10
2.98
2.75
2.55
2.48
2.45
2.40
1.71
1.55
1.52
1.32
0.80
0.55
0.54
23.74
17.01
16.45
16.11
15.96
15.81
15.77
15.25
14.83
14.60
14.41
14.18
14.12
13.90
13.69
13.74
13.67
13.59
13.54
13.50
13.44
13.39
13.32
13.30
13.25
13.21
13.05
13.02
12.94
12.87
12.85
12.81
12.69
12.65
12.61
12.56
12.54
12.51
12.48

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
2-Methyl-3-buten-2-ol	1.69	1013.9	0.01	0.54	607.2	0.01
Ethyl acetate	0.73	850.2	0.01	0.55	608.8	0.01
Pentanal	1.15	941.4	tr	0.80	693.7	tr
Isobutyl acetate	1.43	983.3	tr	1.32	771.6	tr
Hexanal	2.00	1043.9	0.01	1.52	800.2	0.01
Octane	0.56	782.7	0.01	1.55	803.7	0.01
Butyl acetate	1.95	1039.2	0.01	1.71	817.1	0.01
Hexanol	5.60	1321.0	tr	2.40	874.2	0.01
Isoamyl acetate	2.51	1091.5	0.02	2.45	878.1	0.02
2-Methylbutyl acetate	2.49	1090.0	0.01	2.48	880.8	0.02
3-Methyl-3-butenyl acetate	3.37*	1158.1	[0.08]	2.55	886.6	0.08
Heptanal	3.20	1145.3	0.01	2.74	902.2	tr
Amyl acetate	3.12	1139.1	0.01	2.98	917.9	tr
Prenyl acetate	4.13*	1215.0	[0.33]	3.10	926.0	0.30
α-Pinene	1.48	991.7	0.22	3.18	931.1	0.22
Camphene	1.83	1027.9	tr	3.37	943.8	0.01
Benzaldehyde	7.50	1458.5	0.04	3.53	954.5	0.04
β-Pinene	2.24	1066.4	0.08	3.80*	971.9	[0.10]
Sabinene	2.43	1083.8	0.01	3.80*	971.9	[0.10]
6-Methyl-5-hepten-2-one	5.27	1296.0	0.01	4.03	987.6	0.03
Myrcene	3.03	1132.5	0.13	4.12	992.9	0.14
(3*Z*)-Hexenyl acetate	5.02	1278.0	0.11	4.38	1009.8	0.11
para-Methylanisole	6.49	1385.0	4.93	4.52	1018.6	5.03
para-Cymene				4.58	1022.6	0.02
Limonene	3.37*	1158.1	[0.08]	4.66*	1027.3	[0.26]
1,8-Cineole	3.46	1165.5	0.21	4.66*	1027.3	[0.26]
Benzyl alcohol	11.92	1813.5	0.10	4.83	1038.4	0.05
Benzeneacetaldehyde	9.03	1575.1	0.01	4.86*	1040.0	[0.04]
(*Z*)-β-Ocimene	3.98	1204.3	0.01	4.86*	1040.0	[0.04]
(*E*)-β-Ocimene	4.13*	1215.0	[0.33]	5.02	1050.1	0.02
cis-Sabinene hydrate	7.09	1428.4	0.02	5.28	1066.2	0.02
cis-Linalool oxide (fur.)	6.72	1401.0	0.04	5.36	1071.1	0.03
trans-Linalool oxide (fur.)	7.06	1425.9	0.01	5.61*	1086.7	[0.03]
para-Cresol	14.19	2019.1	0.04	5.61*	1086.7	[0.03]
Methyl benzoate	8.83*	1559.4	[2.70]	5.69	1091.9	2.66
Nonanal	6.05	1353.4	0.05	5.91*	1105.5	[11.67]
Linalool	8.27	1516.4	11.53	5.91*	1105.5	[11.67]
Benzeneacetonitrile	12.35	1851.2	0.02	6.37	1135.3	0.02
ortho-				6.56	1147.2	0.04

Dimethoxybenzene						
Benzyl acetate	10.22	1669.8	4.74	6.83	1164.1	4.58
para-Cresyl acetate	10.25*†	1672.5	[0.64]	6.86	1166.6	0.07
Ethyl benzoate	9.50*†	1612.1	[2.49]	6.89	1168.2	0.08
Terpinen-4-ol	8.76	1554.3	0.04	6.99	1174.7	0.01
α-Terpineol	10.02*	1654.3	[10.62]	7.22	1189.1	0.24
Methylchavicol	9.50*†	1612.1	[2.49]	7.32	1195.5	0.19
Nerol	11.32*	1762.1	[0.11]	7.84	1229.7	0.04
Neral	9.66	1624.9	0.04	7.98	1239.2	0.04
Phenylethyl acetate	11.23	1754.0	0.14	8.21	1254.4	0.08
Geraniol	11.82	1804.0	1.99	8.27	1258.4	1.97
Chavicol	16.67*	2266.8	[0.23]	8.39	1266.9	0.01
Geranial	10.27*†	1674.4	[0.31]	8.43	1269.5	0.12
(*E*)-Anethole	11.32*	1762.1	[0.11]	8.62	1282.3	0.10
1-Nitro-2-phenylethane	14.34*	2033.7	[0.22]	8.78	1292.6	0.12
(*E*)-Cinnamyl alcohol	16.14*	2212.1	[1.42]	8.93	1302.7	0.02
4-Vinylguaiacol	15.35	2132.3	0.16	9.01	1308.4	0.02
Bicycloelemene	7.20	1437.0	0.04	9.40*	1336.1	[0.09]
Benzyl butyrate	11.87	1808.8	0.07	9.40*	1336.1	[0.09]
α-Cubebene	6.98	1420.3	0.09	9.56	1347.2	0.10
Eugenol	14.97	2093.8	0.73	9.68	1355.9	0.65
Neryl acetate	10.37	1682.4	0.05	9.82	1365.7	0.04
α-Ylangene	7.24	1439.9	0.09	9.85	1367.5	0.10
α-Copaene	7.35	1448.0	0.62	9.92	1372.1	0.63
β-Bourbonene	7.65	1470.2	0.01	10.02	1379.8	0.02
β-Cubebene	7.98	1494.2	0.11	10.14*	1388.2	[11.90]
Geranyl acetate	10.76*†	1714.3	[6.70]	10.14*	1388.2	[11.90]
β-Elemene	8.60*†	1541.5	[0.19]	10.16	1389.6	0.24
Cyperene	7.69	1472.9	0.04	10.20	1392.5	0.04
Vanillin	18.59	2475.3	0.01	10.27	1397.3	0.01
Isocaryophyllene	8.37	1523.9	0.17	10.33	1401.1	0.01
Methyleugenol	13.50	1954.4	0.05	10.37	1404.4	0.04
β-Caryophyllene	8.67*†	1547.0	[8.28]	10.52	1415.2	8.21
Caryophylla-4(12),8(13)-diene	8.83*	1559.4	[2.70]	10.58	1420.0	0.04
β-Copaene	8.67*†	1547.0	[8.28]	10.64	1424.2	0.24
Aromadendrene	8.73	1552.0	0.04	10.76	1433.2	0.04
α-Guaiene	8.67*†	1547.0	[8.28]	10.79	1435.0	0.01
Isogermacrene D	9.13	1582.7	0.02	10.84	1439.1	0.02
(*E*)-Cinnamyl acetate	14.81	2078.3	1.02	10.89*	1442.6	[0.92]
9-epi-Isocaryophyllene	9.24	1591.3	0.03	10.89*	1442.6	[0.92]
trans-Muurola-3,5-diene	9.07	1578.3	0.10	10.92	1445.4	0.08

(*E*)-Isoeugenol	16.67*	2266.8	[0.23]	10.96*	1448.2	[2.52]
α-Humulene	9.50*†	1612.1	[2.49]	10.96*	1448.2	[2.52]
cis-Cadina-1(6),4-diene	9.18	1586.2	0.05	11.09*	1457.5	[0.15]
cis-Muurola-4(15),5-diene	9.54*†	1615.1	[0.08]	11.09*	1457.5	[0.15]
Unknown CAOD VI [m/z 153, 93 (85), 168 (74), 125 (45), 65 (32)...]				11.13	1460.6	0.02
trans-Cadina-1(6),4-diene	9.45	1608.0	0.16	11.26	1469.9	0.13
γ-Muurolene	9.80	1636.6	1.33	11.36*	1477.9	[11.12]
Germacrene D	10.02*	1654.3	[10.62]	11.36*	1477.9	[11.12]
trans-Muurola-4(15),5-diene	10.05	1656.0	0.09	11.40	1480.7	0.03
Prenyl benzoate	13.92	1993.9	0.54	11.46	1485.5	0.59
epi-Cubebol	12.18	1836.1	0.06	11.53*	1490.6	[0.77]
Bicyclogermacrene	10.25*†	1672.5	[0.64]	11.53*	1490.6	[0.77]
Viridiflorene	9.86	1641.3	0.05	11.53*	1490.6	[0.77]
(3*Z*,6*E*)-α-Farnesene	10.47	1690.1	0.04	11.62*	1496.9	[0.74]
α-Muurolene	10.25*†	1672.5	[0.64]	11.62*	1496.9	[0.74]
δ-Guaiene	10.11	1661.3	0.35	11.68*	1501.7	[1.04]
Unknown CAOD II [m/z 119, 41 (95), 123 (53), 80 (49), 161 (44), 105 (42)... 204 (2)]				11.68*	1501.7	[1.04]
δ-Amorphene	10.14	1663.7	0.25	11.68*	1501.7	[1.04]
Cubebol	12.75	1885.8	0.07	11.79*	1510.3	[4.70]
(3*E*,6*E*)-α-Farnesene	10.76*†	1714.3	[6.70]	11.79*	1510.3	[4.70]
γ-Cadinene	10.61*	1701.5	[0.84]	11.79*	1510.3	[4.70]
trans-Calamenene	11.43	1771.3	0.14	11.93*	1520.6	[2.28]
Zonarene	10.61*	1701.5	[0.84]	11.93*	1520.6	[2.28]
δ-Cadinene	10.64	1704.2	2.00	11.93*	1520.6	[2.28]
trans-Cadina-1,4-diene	10.88	1724.7	0.11	12.02	1527.9	0.12
α-Cadinene	11.01	1735.7	0.17	12.09	1533.2	0.19
α-Calacorene	12.31	1847.7	0.06	12.13	1536.9	0.05
cis-Dracunculifoliol	12.34	1849.7	0.04	12.20	1541.7	0.02
α-Elemol	14.23	2023.5	0.08	12.25	1545.8	0.11
Germacrene B	11.32*	1762.1	[0.11]	12.30	1550.0	0.05
(*E*)-Nerolidol	13.97*	1998.4	[0.30]	12.48	1563.7	0.10
(3*Z*)-Hexenyl benzoate	14.57	2055.5	0.08	12.51	1566.4	0.03
Germacrene D-4-ol	13.88*	1989.8	[0.20]	12.54	1568.3	0.04

Spathulenol	14.59	2057.8	0.05	12.56	1570.4	0.10
Caryophyllene oxide	12.98*	1906.6	[0.52]	12.61*	1574.2	[0.62]
Caryophyllene oxide isomer	12.90	1899.3	0.08	12.61*	1574.2	[0.62]
10-epi-Junenol	12.92	1901.4	0.05	12.61*	1574.2	[0.62]
trans-Dracunculifoliol	12.98*	1906.6	[0.52]	12.65*	1577.0	[0.10]
Unknown cadinol or muurolol analog [m/z 161, 119 (77), 120 (76), 105 (73), 93 (57)... 204 (36)]	12.49	1863.4	0.04	12.65*	1577.0	[0.10]
Unknown MECA III [m/z 161, 105 (84), 43 (80), 119 (72), 93 (62), 121 (54)... 204 (38), 222 (2)]	14.15	2015.2	0.13	12.69	1580.6	0.09
Humulene epoxide I	13.36	1941.6	0.01	12.81	1590.0	0.02
Guaiol	14.34*	2033.7	[0.22]	12.85	1593.4	0.07
Copaborneol	15.13	2109.8	0.08	12.87	1594.9	0.05
Humulene epoxide II	13.57	1961.2	0.12	12.94	1599.9	0.14
1,10-diepi-Cubenol	13.97*	1998.4	[0.30]	13.02	1606.3	0.09
Junenol	13.81	1983.6	0.22	13.05*	1608.9	[0.29]
(*E*)-Isoeugenyl acetate	17.42	2346.7	0.03	13.05*	1608.9	[0.29]
1-epi-Cubenol	13.97*	1998.4	[0.30]	13.21	1621.8	0.23
γ-Eudesmol	15.09*	2105.9	[0.44]	13.25	1625.5	0.13
Caryophylladienol II	16.25*	2222.5	[0.11]	13.30	1629.2	0.02
allo-Aromadendrene epoxide?	14.07	2008.0	0.03	13.32	1631.6	0.03
τ-Cadinol	15.09*	2105.9	[0.44]	13.39*	1637.2	[1.17]
Cubenol	13.88*	1989.8	[0.20]	13.39*	1637.2	[1.17]
τ-Muurolol	15.25	2122.3	0.70	13.39*	1637.2	[1.17]
α-Muurolol	15.39*	2135.6	[0.29]	13.44	1641.2	0.38
Unknown cadinol analog II [m/z 95, 121 (73), 43 (57), 79 (43), 161 (43), 109 (40)... 204 (35), 222 (2)]	15.39*	2135.6	[0.29]	13.50	1645.7	0.25
α-Cadinol	15.68	2165.0	1.44	13.54	1649.8	1.36
cis-Calamenen-10-ol	16.67*	2266.8	[0.23]	13.59	1653.4	0.05
trans-Calamenen-10-ol	17.02*	2303.1	[1.76]	13.67	1660.1	0.06
Bulnesol	15.48	2145.0	0.06	13.69	1661.9	0.04
Unknown CAOD I [m/z 123, 95 (31), 81 (29), 105 (27)... 222	16.41	2239.4	0.14	13.74	1666.1	0.20

(5)]						
Eudesma-4(15),7-dien-1β-ol	16.25*	2222.5	[0.11]	13.90	1679.0	0.04
(2*E*,6*Z*)-Farnesol	16.67*	2266.8	[0.23]	14.12	1697.4	0.02
(2*Z*,6*E*)-Farnesol	16.84	2284.2	0.04	14.18	1702.3	0.04
(2*E*,6*E*)-Farnesol	17.02*	2303.1	[1.76]	14.41	1721.6	1.64
(2*E*,6*E*)-Farnesal	16.02	2199.3	0.06	14.60	1738.8	0.05
Benzyl benzoate	19.08	2530.8	8.83	14.83	1758.6	8.88
Unknown CAOD VII [m/z 121, 107 (86), 81 (71), 93 (71), 59 (68), 43 (67)...]				15.25	1794.9	0.07
(2*E*,6*E*)-Farnesyl acetate	16.14*	2212.1	[1.42]	15.77	1841.2	1.42
Unknown LYUN VII [m/z 43, 107 (97), 81 (83), 121 (77), 123 (74), 93 (73)... 220 (26)...]	20.64	2716.3	0.08	15.81	1845.2	0.07
Benzyl salicylate	20.32	2677.1	2.44	15.96	1858.6	2.47
Unknown THAR VI [m/z 91, 93 (98), 81 (92), 41 (92), 105 (86), 107 (86)...]	21.04	2766.2	0.02	16.11	1872.0	0.05
Unknown THAR VIII [m/z 123, 81 (47), 43 (35), 91 (30), 41 (27), 79 (24)...]	21.45	2817.2	0.05	16.45	1903.2	0.05
Geranyl benzoate	18.95	2516.5	0.22	17.01	1956.6	0.18
Unknown CAOD XIII [m/z 326, 327 (22), 311 (17), 137 (8), 202 (7)...]				23.74	2697.5	0.11
Total reported		96.42%			97.56%	

*: 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