Date : 2024-10-18

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 24J03-NSO01
Customer Identification : Organic Frankincense - Lot No: BCE000111-032524
Type : Essential Oil
Source : *Boswellia carteri*
Customer : Natural Sourcing LLC

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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 : 2024-10-16

Physicochemical data

Refractive index : 1.4752 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2024-10-04

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
(*E*)-2-Methyl-1,3-pentadiene	0.01	Alkene
3-Methyl-2-butanone	tr	Aliphatic ketone
Toluene	0.03	Simple phenolic
Unknown	0.01	Alkene
Unknown	0.01	Unknown
Hashishene	0.76	Monoterpene
Tricyclene	0.04	Monoterpene
α-Thujene	0.81	Monoterpene
α-Pinene	31.07	Monoterpene
Unknown	tr	Monoterpene
Camphene	0.41	Monoterpene
α-Fenchene	0.01	Monoterpene
Thuja-2,4(10)-diene	0.22	Monoterpene
β-Pinene	1.21	Monoterpene
Sabinene	5.84	Monoterpene
Unknown	0.01	Monoterpene
Pseudolimonene isomer	0.03	Monoterpene
Dehydro-1,8-cineole	0.07	Monoterpenic ether
Myrcene	17.42	Monoterpene
6-Methyl-5-hepten-2-ol	0.03	Aliphatic alcohol
α-Phellandrene	3.47	Monoterpene
ortho-Methylanisole	0.16	Simple phenolic
Δ3-Carene	0.07	Monoterpene
Unknown	0.02	Monoterpene
α-Terpinene	0.15	Monoterpene
meta-Cymene	0.02	Monoterpene
para-Cymene	2.86	Monoterpene
Limonene	14.93	Monoterpene
β-Phellandrene	[1.00]	Monoterpene
1,8-Cineole	[1.00]	Monoterpenic ether
Unknown	0.04	Unknown
ortho-Cymene	0.02	Monoterpene
(*Z*)-β-Ocimene	0.49	Monoterpene
(*E*)-β-Ocimene	0.15	Monoterpene
Unknown	0.02	Unknown
γ-Terpinene	0.27	Monoterpene
cis-Sabinene hydrate	0.03	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
Octanol	0.04	Aliphatic alcohol

γ-Campholenal	0.02	Aliphatic alcohol
Isoterpinolene	0.10	Monoterpene
para-Cymenene	0.01	Monoterpene
Terpinolene	0.02	Monoterpene
α-Pinene oxide	0.02	Monoterpenic ether
6,7-Epoxymyrcene	0.05	Monoterpenic ether
trans-Sabinene hydrate	0.02	Monoterpenic alcohol
Linalool	0.36	Monoterpenic alcohol
Unknown	0.03	Monoterpenic alcohol
Verbenol analog?	0.04	Monoterpenic alcohol
β-Thujone	0.03	Monoterpenic ketone
Unknown	0.03	Oxygenated monoterpene
cis-para-Menth-2-en-1-ol	0.05	Monoterpenic alcohol
α-Campholenal	0.12	Monoterpenic aldehyde
Myrcenol	0.12	Monoterpenic alcohol
allo-Ocimene	0.02	Monoterpene
cis-Limonene oxide	0.02	Monoterpenic ether
trans-Limonene oxide	0.02	Monoterpenic ether
trans-Pinocarveol	0.20	Monoterpenic alcohol
trans-Sabinol	0.10	Monoterpenic alcohol
trans-Verbenol	0.28	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.06	Monoterpenic alcohol
Unknown	0.02	Oxygenated monoterpene
Pinocamphone	0.02	Monoterpenic ketone
Pinocarvone	0.02	Monoterpenic ketone
Borneol	0.04	Monoterpenic alcohol
α-Phellandren-8-ol	0.03	Monoterpenic alcohol
Unknown	0.12	Oxygenated monoterpene
Terpinen-4-ol	0.30	Monoterpenic alcohol
Cryptone	0.04	Normonoterpenic ketone
meta-Cymen-8-ol	0.02	Monoterpenic alcohol
para-Cymen-8-ol	0.04	Monoterpenic alcohol
Myrtenal	0.10	Monoterpenic aldehyde
α-Terpineol	0.13	Monoterpenic alcohol
Myrtenol	0.07	Monoterpenic alcohol
cis-α-Phellandrene epoxide (iPr vs Me)	0.08	Monoterpenic ether
Verbenone	0.10	Monoterpenic ketone
Octyl acetate	0.08	Aliphatic ester
cis-Carveol	0.03	Monoterpenic alcohol
Cuminal	0.02	Monoterpenic aldehyde
Carvone	0.06	Monoterpenic ketone
Piperitone	0.08	Monoterpenic ketone
Linalyl acetate	0.01	Monoterpenic ester
3,5-Dimethoxytoluene	0.13	Simple phenolic
Unknown	0.03	Oxygenated monoterpene

Bornyl acetate	0.15	Monoterpenic ester
Thymol	0.02	Monoterpenic alcohol
Carvacrol	0.01	Monoterpenic alcohol
Unknown	0.05	Unknown
Bicycloelemene	0.08	Sesquiterpene
α-Cubebene	0.16	Sesquiterpene
α-Terpinyl acetate	0.11	Monoterpenic ester
Cyclosativene I	0.03	Sesquiterpene
Cyclosativene II	0.07	Sesquiterpene
α-Ylangene	0.06	Sesquiterpene
α-Copaene	0.70	Sesquiterpene
β-Bourbonene	0.37	Sesquiterpene
1,5-diepi-β-Bourbonene	0.04	Sesquiterpene
cis-β-Elemene	0.03	Sesquiterpene
β-Cubebene	0.09	Sesquiterpene
β-Elemene	0.58	Sesquiterpene
Isocaryophyllene	0.06	Sesquiterpene
α-Gurjunene	0.16	Sesquiterpene
cis-α-Bergamotene	0.16	Sesquiterpene
β-Caryophyllene	4.21	Sesquiterpene
β-Copaene	0.07	Sesquiterpene
trans-α-Bergamotene	0.10	Sesquiterpene
6,9-Guaiadiene	0.20	Sesquiterpene
trans-Muurola-3,5-diene	0.07	Sesquiterpene
α-Humulene	0.78	Sesquiterpene
allo-Aromadendrene	0.20	Sesquiterpene
cis-Muurola-4(15),5-diene	0.04	Sesquiterpene
trans-Cadina-1(6),4-diene	0.03	Sesquiterpene
γ-Muurolene	0.32	Sesquiterpene
Germacrene D	0.80	Sesquiterpene
β-Selinene	0.27	Sesquiterpene
epi-Cubebol	0.11	Sesquiterpenic alcohol
α-Selinene	0.11	Sesquiterpene
Bicyclogermacrene	0.20	Sesquiterpene
α-Muurolene	0.21	Sesquiterpene
δ-Amorphene	0.03	Sesquiterpene
γ-Cadinene	0.24	Sesquiterpene
Cubebol	0.27	Sesquiterpenic alcohol
trans-Calamenene	0.02	Sesquiterpene
δ-Cadinene	0.49	Sesquiterpene
trans-Cadina-1,4-diene	0.03	Sesquiterpene
α-Cadinene	0.03	Sesquiterpene
Isocaryophyllene epoxide B	0.04	Sesquiterpenic ether
Germacrene B	0.06	Sesquiterpene
Elemicin	0.01	Phenylpropanoid

Palustrol	0.03	Sesquiterpenic alcohol
Unknown	0.04	Oxygenated sesquiterpene
Germacrene D-4-ol	0.01	Sesquiterpenic alcohol
Spathulenol	0.08	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.06	Sesquiterpenic ether
Caryophyllene oxide	0.36	Sesquiterpenic ether
Salvial-4(14)-en-1-one	0.02	Aliphatic alcohol
Viridiflorol	0.55	Sesquiterpenic alcohol
Ledol	0.02	Sesquiterpenic alcohol
Copaborneol	0.09	Sesquiterpenic alcohol
Humulene epoxide II	0.06	Sesquiterpenic ether
Unknown	0.07	Sesquiterpenic alcohol
1-epi-Cubenol	0.03	Sesquiterpenic alcohol
τ-Muurolol	0.01	Sesquiterpenic alcohol
τ-Cadinol	0.04	Sesquiterpenic alcohol
Cubenol	0.03	Sesquiterpenic alcohol
β-Eudesmol	0.03	Sesquiterpenic alcohol
α-Muurolol	0.02	Sesquiterpenic alcohol
α-Eudesmol	0.02	Sesquiterpenic alcohol
α-Cadinol	0.02	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.02	Sesquiterpenic alcohol
Shyobunol	0.04	Sesquiterpenic alcohol
α-Phellandrene dimer II	0.03	Diterpene
(3*E*)-Cembrene A	0.16	Diterpene
para-Camphorene	0.04	Diterpene
Cembrene C	0.01	Diterpene
Verticilla-4(20),7,11-triene	0.02	Diterpene
Cembrenol	0.06	Diterpenic alcohol
Serratol	0.47	Diterpenic alcohol
Incensole	0.02	Diterpenic alcohol
Consolidated total	**99.38**	

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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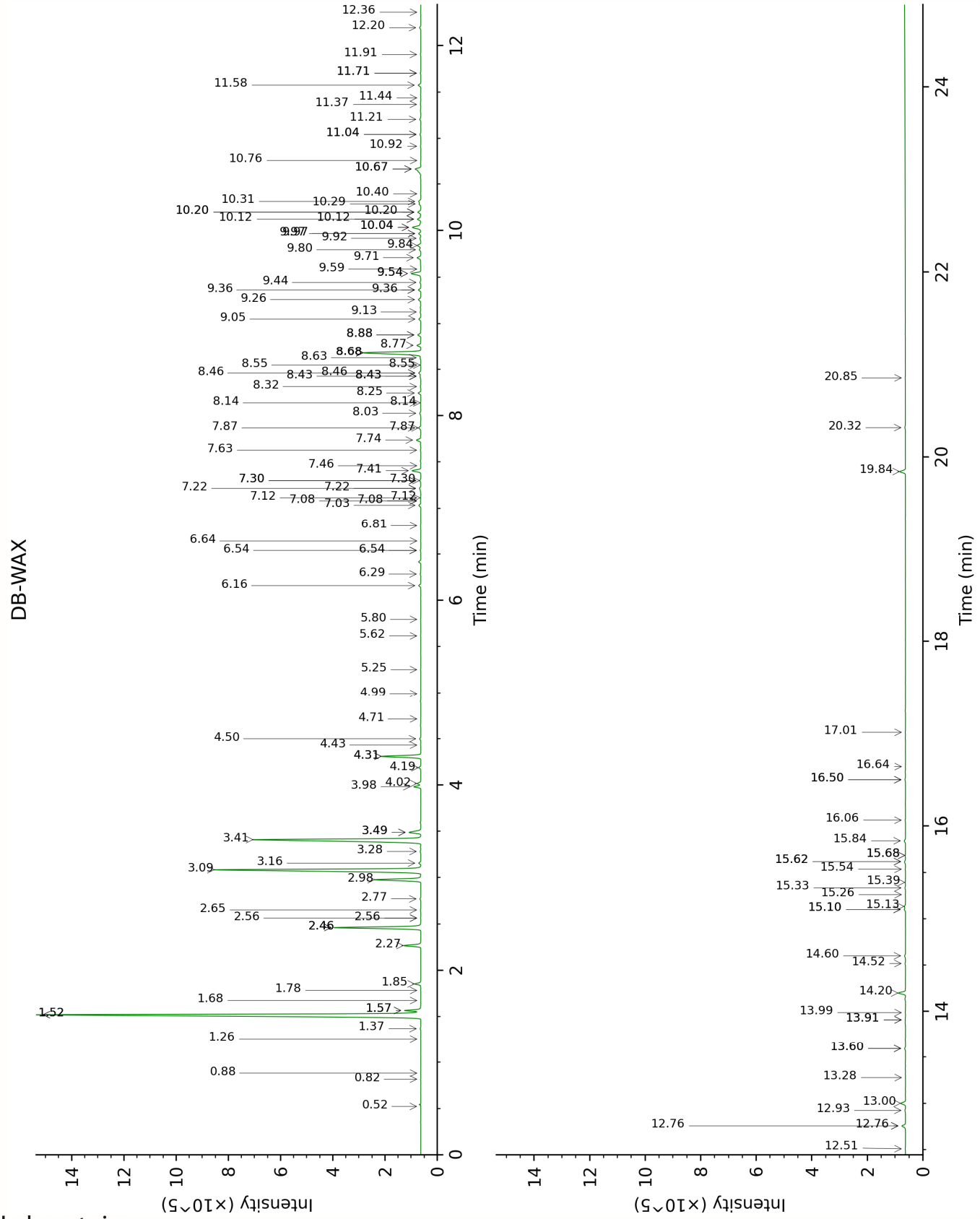
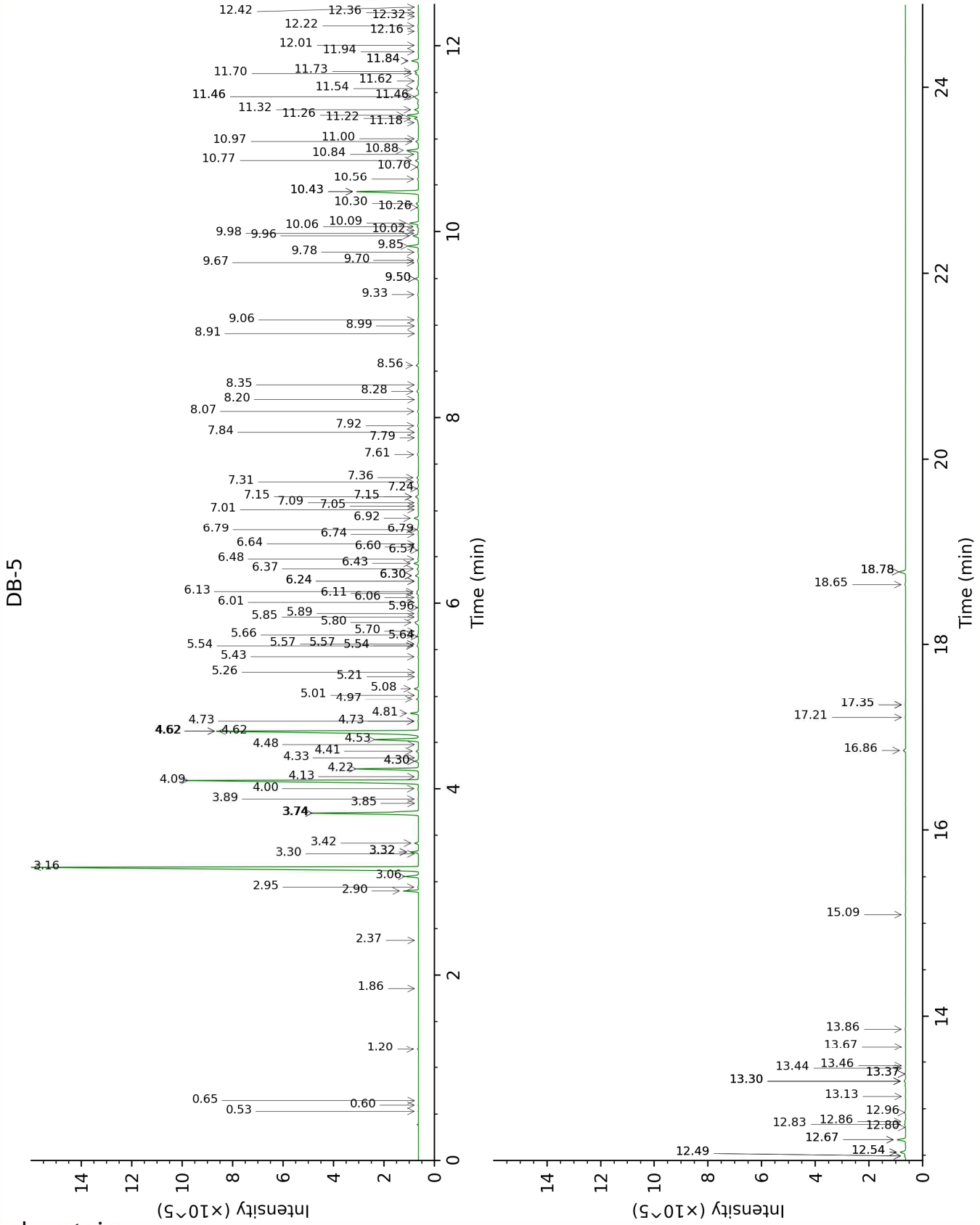

DB-WAX
Time (min)
Intensity (×10^5)
12.36
12.20
11.91
11.71
11.58
11.44
11.37
11.21
11.04
10.92
10.76
10.67
10.40
10.31
10.29
10.20
10.20
10.12
10.12
10.04
9.92
9.84
9.80
9.71
9.59
9.54
9.44
9.36
9.36
9.26
9.13
9.05
8.88
8.77
8.68
8.63
8.55
8.55
8.46
8.43
8.46
8.43
8.32
8.25
8.14
8.14
8.03
7.87
7.87
7.74
7.63
7.46
7.41
7.30
7.30
7.22
7.22
7.12
7.08
7.03
7.08
7.12
6.81
6.64
6.54
6.54
6.29
6.16
5.80
5.62
5.25
4.99
4.71
4.50
4.43
4.31
4.19
3.98
4.02
3.49
3.41
3.28
3.16
3.09
2.98
2.77
2.65
2.56
2.56
2.46
2.27
1.85
1.78
1.68
1.57
1.52
1.37
1.26
0.88
0.82
0.52
20.85
20.32
19.84
17.01
16.64
16.50
16.06
15.84
15.68
15.62
15.54
15.39
15.33
15.26
15.13
15.10
14.60
14.52
14.20
13.99
13.91
13.60
13.28
13.00
12.93
12.76
12.76
12.51


DB-5
Time (min)
Intensity (×10^5)
12.42
12.36
12.32
12.22
12.16
12.01
11.94
11.84
11.70
11.73
11.62
11.54
11.46
11.46
11.32
11.26
11.22
11.18
10.97
11.00
10.84
10.88
10.77
10.70
10.56
10.43
10.30
10.26
10.06
10.09
10.02
9.98
9.96
9.85
9.78
9.70
9.67
9.50
9.33
9.06
8.99
8.91
8.56
8.35
8.28
8.20
8.07
7.92
7.84
7.79
7.61
7.31
7.36
7.24
7.15
7.15
7.09
7.05
7.01
6.92
6.79
6.74
6.79
6.64
6.60
6.57
6.48
6.43
6.37
6.30
6.24
6.13
6.11
6.06
6.01
5.96
5.85
5.89
5.80
5.70
5.66
5.64
5.54
5.57
5.57
5.54
5.43
5.26
5.21
5.08
5.01
4.97
4.81
4.73
4.73
4.62
4.62
4.53
4.48
4.41
4.33
4.30
4.22
4.13
4.09
4.00
3.89
3.85
3.74
3.42
3.30
3.32
3.16
3.06
2.95
2.90
2.37
1.86
1.20
0.65
0.60
0.53
18.78
18.65
17.35
17.21
16.86
15.09
13.86
13.67
13.44
13.46
13.37
13.30
13.13
12.96
12.83
12.86
12.80
12.67
12.49
12.54

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
2-Methyl-3-buten-2-ol	1.68	1011.6	0.01	0.53	605.9	0.01
(*E*)-2-Methyl-1,3-pentadiene	0.52	755.3	0.01	0.60	628.7	0.01
3-Methyl-2-butanone	0.88	898.3	tr	0.64	645.7	tr
Toluene	1.57*†	1001.3	[0.98]	1.20	758.3	0.03
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.82	879.0	0.01	1.86	831.2	0.01
Unknown BOCA II [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	1.26	956.4	0.01	2.37	874.2	0.01
Hashishene	1.52*†	996.9	[31.45]	2.90	915.2	0.76
Tricyclene	1.37	973.8	0.05	2.95	918.0	0.04
α-Thujene	1.57*†	1001.3	[0.98]	3.06	925.5	0.81
α-Pinene	1.52*†	996.9	[31.45]	3.16	932.0	31.07
Unknown SAOF I [m/z 91, 92 (47), 65 (11)... 134 (1)]	2.56*	1096.2	[0.02]	3.30*†	941.6	[0.02]
Camphene	1.86	1028.7	0.41	3.32*†	942.9	[0.42]
α-Fenchene	1.78	1021.9	0.01	3.32*†	942.9	[0.42]
Thuja-2,4(10)-diene	2.46*	1086.5	[6.01]	3.42	949.2	0.22
β-Pinene	2.27	1068.1	1.21	3.74*	970.5	[7.05]
Sabinene	2.46*	1086.5	[6.01]	3.74*	970.5	[7.05]
Unknown ORVU I [m/z 93, 79 (73), 67 (49), 95 (42), 91 (41), 121 (38)...]	2.56*	1096.2	[0.02]	3.85	977.5	0.01
Pseudolimonene isomer	2.65	1102.9	0.04	3.89	980.4	0.03
Dehydro-1,8-cineole	3.28	1150.7	0.06	4.00	987.9	0.07
Myrcene	3.09	1135.8	17.36	4.09	993.7	17.42
6-Methyl-5-hepten-2-ol	7.12*	1428.4	[0.03]	4.13	996.4	0.03
α-Phellandrene	2.98	1127.7	3.38	4.22	1001.9	3.47
ortho-Methylanisole	6.16	1358.9	0.16	4.30*	1007.1	[0.22]
Δ3-Carene	2.77	1112.0	0.07	4.30*	1007.1	[0.22]

Unknown BOSA III [m/z 117, 132 (88), 115 (68), 91 (55), 77 (20)]				4.33	1009.4	0.02
α-Terpinene	3.16	1141.2	0.14	4.41	1013.9	0.15
meta-Cymene	4.31*	1225.8	[2.85]	4.48	1018.3	0.02
para-Cymene	4.31*	1225.8	[2.85]	4.53	1021.7	2.86
Limonene	3.41	1160.4	14.93	4.62*	1027.4	[16.02]
β-Phellandrene	3.49*	1166.3	[1.00]	4.62*	1027.4	[16.02]
1,8-Cineole	3.49*	1166.3	[1.00]	4.62*	1027.4	[16.02]
Unknown BOSA IV [m/z 67, 93 (70), 82 (70), 121 (42), 107 (39), 91 (33), 79 (28)...]				4.73*	1034.1	[0.06]
ortho-Cymene	4.72	1254.1	0.02	4.73*	1034.1	[0.06]
(*Z*)-β-Ocimene	3.98	1202.8	0.48	4.81	1039.4	0.49
(*E*)-β-Ocimene	4.19	1217.2	0.16	4.97	1049.2	0.15
Unknown BOFR IV [m/z 109 , 45 (67), 41 (40), 67 (39), 81 (33), 79 (27), 95 (24), 91 (23), 82 (21), 55 (21), 93 (20)...]	7.08*	1425.9	[0.03]	5.01	1052.0	0.02
γ-Terpinene	4.02	1205.3	0.28	5.08	1056.4	0.27
cis-Sabinene hydrate	7.08*	1425.9	[0.03]	5.21	1064.5	0.03
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.99	1273.4	0.01	5.26	1067.5	0.01
Octanol	8.43*	1526.9	[0.09]	5.43	1078.0	0.04
γ-Campholenal	5.25	1291.6	0.02	5.54*†	1085.3	[0.11]
Isoterpinolene	4.50	1239.1	0.10	5.54*†	1085.3	[0.11]
para-Cymenene	6.54*	1386.1	[0.05]	5.56*†	1086.6	[0.03]
Terpinolene	4.43	1234.3	0.02	5.56*†	1086.6	[0.03]
α-Pinene oxide	5.62	1320.1	0.02	5.64	1091.5	0.02
6,7-Epoxymyrcene	6.28	1367.9	0.05	5.66	1092.6	0.05
trans-Sabinene hydrate	8.14*	1504.6	[0.04]	5.70	1095.1	0.02
Linalool	8.25	1512.8	0.20	5.80	1101.0	0.36
Unknown ORMA I [m/z 119, 109 (94),	8.68*	1546.4	[4.93]	5.85	1104.7	0.03

43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)]						
Verbenol analog?	8.55*	1536.1	[0.03]	5.89	1107.1	0.04
β-Thujone	6.54*	1386.1	[0.05]	5.96	1111.2	0.03
Unknown BOSE II [m/z 109, 91 (57), 93 (47), 81 (44), 77 (40)... 154 (1)]				6.01	1114.7	0.03
cis-para-Menth-2-en-1-ol	8.32	1518.2	0.05	6.06	1118.1	0.05
α-Campholenal	7.22*	1435.9	[0.17]	6.11	1120.9	0.12
Myrcenol	9.05	1575.0	0.17	6.13	1122.1	0.12
allo-Ocimene	5.80	1332.8	0.02	6.24*	1129.3	[0.02]
cis-Limonene oxide	6.64	1393.5	0.02	6.24*	1129.3	[0.02]
trans-Limonene oxide	6.81	1405.7	0.02	6.30*	1133.1	[0.23]
trans-Pinocarveol	9.36*	1599.4	[0.21]	6.30*	1133.1	[0.23]
trans-Sabinol	10.04*	1653.7	[0.90]	6.37	1137.7	0.10
trans-Verbenol	9.71	1627.4	0.34	6.43	1141.5	0.28
meta-Mentha-4,6-dien-8-ol	9.54*	1613.7	[0.88]	6.48	1144.5	0.06
Unknown BOSE IV [m/z 109, 81 (39), 41 (38), 95 (24)... 152 (1)]				6.57	1150.5	0.02
Pinocamphone	7.46	1454.0	0.02	6.60	1152.7	0.02
Pinocarvone	8.14*	1504.6	[0.04]	6.64	1154.9	0.02
Borneol	9.97*	1648.4	[0.17]	6.74	1161.4	0.04
α-Phellandren-8-ol	10.40	1682.9	0.03	6.79*	1164.7	[0.15]
Unknown CALU II [m/z 95, 110 (38), 81 (21), 79 (16)... 152 (7)]	7.87*	1484.2	[0.20]	6.79*	1164.7	[0.15]
Terpinen-4-ol	8.77	1553.2	0.30	6.92	1173.0	0.30
Cryptone	9.36*	1599.4	[0.21]	7.01	1178.8	0.04
meta-Cymen-8-ol	11.70*	1793.0	[0.04]	7.05	1181.3	0.02
para-Cymen-8-ol	11.70*	1793.0	[0.04]	7.09	1183.6	0.04
Myrtenal	8.88*	1561.8	[0.28]	7.15*	1187.7	[0.23]
α-Terpineol	9.97*	1648.4	[0.17]	7.15*	1187.7	[0.23]
Myrtenol	11.04*	1737.1	[0.08]	7.24	1193.3	0.07
cis-α-Phellandrene epoxide (iPr vs Me)	11.21	1750.9	0.10	7.31	1197.9	0.08

Verbenone	9.80	1634.3	0.14	7.36	1200.8	0.10
Octyl acetate	7.30*	1442.2	[0.10]	7.61	1217.3	0.08
cis-Carveol	11.91	1810.8	0.04	7.79	1229.3	0.03
Cuminal	10.76	1713.3	0.01	7.84	1233.3	0.02
Carvone	10.20*	1666.9	[0.27]	7.92	1238.0	0.06
Piperitone	10.12*	1660.9	[0.32]	8.07	1248.3	0.08
Linalyl acetate	8.43*	1526.9	[0.09]	8.20	1256.8	0.01
3,5-Dimethoxytoluene	11.58	1782.1	0.21	8.28	1262.7	0.13
Unknown BOSE VI [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]				8.35	1267.4	0.03
Bornyl acetate	8.46*	1529.6	[0.20]	8.56	1281.4	0.15
Thymol	15.33	2130.0	0.04	8.91	1304.8	0.02
Carvacrol	15.62*	2158.3	[0.10]	8.99	1310.6	0.01
Unknown CASA VI [m/z 69, 41 (75), 55 (58), 83 (33), 121 (33)...]	15.10*	2106.8	[0.09]	9.06	1315.0	0.05
Bicycloelemene	7.30*	1442.2	[0.10]	9.33	1334.2	0.08
α-Cubebene	7.03	1422.4	0.16	9.50*	1346.2	[0.22]
α-Terpinyl acetate	9.92	1644.2	0.11	9.50*	1346.2	[0.22]
Cyclosativene I	7.12*	1428.4	[0.03]	9.67	1358.3	0.03
Cyclosativene II	7.22*	1435.9	[0.17]	9.70	1360.1	0.07
α-Ylangene	7.30*	1442.2	[0.10]	9.78	1366.2	0.06
α-Copaene	7.41	1450.1	0.71	9.85	1370.8	0.70
β-Bourbonene	7.74	1474.5	0.36	9.96	1378.5	0.37
1,5-diepi-β-Bourbonene	7.63	1466.4	0.04	9.98	1380.4	0.04
cis-β-Elemene	8.55*	1536.1	[0.03]	10.02	1382.6	0.03
β-Cubebene	8.03	1495.9	0.12	10.06	1385.5	0.09
β-Elemene	8.68*	1546.4	[4.93]	10.09	1388.1	0.58
Isocaryophyllene	8.43*	1526.9	[0.09]	10.26	1399.9	0.06
α-Gurjunene	7.87*	1484.2	[0.20]	10.30	1402.8	0.16
cis-α-Bergamotene	8.46*	1529.6	[0.20]	10.43*	1412.4	[4.37]
β-Caryophyllene	8.68*	1546.4	[4.93]	10.43*	1412.4	[4.37]
β-Copaene	8.63	1542.3	0.07	10.56	1422.3	0.07
trans-α-Bergamotene	8.68*	1546.4	[4.93]	10.70	1432.5	0.10
6,9-Guaiadiene	8.88*	1561.8	[0.28]	10.77	1437.7	0.20
trans-Muurola-3,5-diene	9.13	1580.9	0.07	10.84	1442.7	0.07
α-Humulene	9.54*	1613.7	[0.88]	10.88	1445.9	0.78
allo-	9.26	1591.2	0.22	10.98	1452.9	0.20

Aromadendrene						
cis-Muurola-4(15),5-diene	9.59	1617.5	0.01	11.00	1455.1	0.04
trans-Cadina-1(6),4-diene	9.44	1605.9	0.08	11.18	1468.0	0.03
γ-Muurolene	9.84	1638.1	0.31	11.22	1471.4	0.32
Germacrene D	10.04*	1653.7	[0.90]	11.26	1474.0	0.80
β-Selinene	10.12*	1660.9	[0.32]	11.32	1478.4	0.27
epi-Cubebol	12.20	1836.3	0.11	11.46*	1488.8	[0.42]
α-Selinene	10.20*	1666.9	[0.27]	11.46*	1488.8	[0.42]
Bicyclogermacrene	10.31	1676.2	0.20	11.46*	1488.8	[0.42]
α-Muurolene	10.29	1674.1	0.15	11.54	1495.2	0.21
δ-Amorphene	10.20*	1666.9	[0.27]	11.62	1501.3	0.03
γ-Cadinene	10.67*	1705.6	[0.73]	11.70*†	1507.4	[0.21]
Cubebol	12.76*	1885.9	[0.30]	11.73*†	1509.4	[0.29]
trans-Calamenene	11.44	1770.4	0.02	11.84*	1518.2	[0.50]
δ-Cadinene	10.67*	1705.6	[0.73]	11.84*	1518.2	[0.50]
trans-Cadina-1,4-diene	10.92	1726.4	0.03	11.94	1525.9	0.03
α-Cadinene	11.04*	1737.1	[0.08]	12.01	1531.3	0.03
Isocaryophyllene epoxide B	12.36	1851.1	0.04	12.16	1543.1	0.04
Germacrene B	11.37	1764.5	0.06	12.22	1547.7	0.06
Elemicin	15.68*	2165.0	[0.02]	12.32	1555.7	0.01
Palustrol	12.51	1863.9	0.03	12.36	1558.8	0.03
Unknown BOCA V [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]				12.42	1563.6	0.04
Germacrene D-4-ol	13.91*	1991.8	[0.04]	12.49*	1569.4	[0.09]
Spathulenol	14.60	2058.2	0.08	12.49*	1569.4	[0.09]
Caryophyllene oxide isomer	12.92	1901.1	0.06	12.54*	1572.7	[0.43]
Caryophyllene oxide	13.00	1908.1	0.36	12.54*	1572.7	[0.43]
Salvial-4(14)-en-1-one	13.28	1933.7	0.02	12.67*	1583.1	[0.57]
Viridiflorol	14.20	2019.7	0.55	12.67*	1583.1	[0.57]
Ledol	13.60*	1962.8	[0.07]	12.80	1593.5	0.02
Copaborneol	15.13	2110.2	0.09	12.83	1596.0	0.09
Humulene epoxide II	13.60*	1962.8	[0.07]	12.86	1598.5	0.06
Unknown BOCA XV [m/z 161, 189 (76), 204 (66), 105	14.52	2050.2	0.04	12.96	1606.3	0.07

(60), 119 (46), 107 (41), 59 (38)...222 (3)]						
1-epi-Cubenol	13.99	1999.3	0.03	13.13	1620.5	0.03
τ-Muurolol	15.26	2122.8	0.01	13.30*	1634.0	[0.12]
τ-Cadinol	15.10*	2106.8	[0.09]	13.30*	1634.0	[0.12]
Cubenol	13.91*	1991.8	[0.04]	13.30*	1634.0	[0.12]
β-Eudesmol	15.62*	2158.3	[0.10]	13.37*	1640.4	[0.06]
α-Muurolol	15.39	2136.0	0.02	13.37*	1640.4	[0.06]
α-Eudesmol	15.54	2150.1	0.02	13.44	1645.6	0.02
α-Cadinol	15.68*	2165.0	[0.02]	13.46	1647.9	0.02
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	17.01	2302.2	0.02	13.67	1665.0	0.02
Shyobunol	16.50*	2248.7	[0.06]	13.86	1680.8	0.04
α-Phellandrene dimer II	12.76*	1885.9	[0.30]	15.09	1786.4	0.03
(3*E*)-Cembrene A	15.84	2180.7	0.11	16.86	1947.8	0.16
para-Camphorene	16.06	2203.4	0.03	17.21	1981.6	0.04
Cembrene C	16.50*	2248.7	[0.06]	17.35*	1994.5	[0.03]
Verticilla-4(20),7,11-triene	16.64	2263.4	0.02	17.35*	1994.5	[0.03]
Cembrenol	20.32	2676.6	0.05	18.65	2124.0	0.06
Serratol	19.84	2620.1	0.47	18.78*	2138.3	[0.47]
Incensole	20.85	2742.6	0.02	18.78*	2138.3	[0.47]
Total reported		98.37%			99.42%	

*: 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