

Date : 2025-10-30

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 25J20-PTH03

Customer Identification : Frankincense Carterii ORGANIC - Somaliland - F00113R

Type : Essential Oil

Source : *Boswellia carteri*

Customer : Plant Therapy

Checked and approved by:

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

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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 : 2025-10-28

PHYSICOCHEMICAL DATA

Refractive index : 1.4733 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2025-10-21

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
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	0.07	Simple phenolic
Unknown	0.02	Alkene
Unknown	0.01	Unknown
Hashishene	0.17	Monoterpene
Tricyclene	0.07	Monoterpene
α -Thujene	2.17	Monoterpene
α -Pinene	41.04	Monoterpene
Unknown	0.05	Monoterpene
Camphene	0.91	Monoterpene
α -Fenchene	0.02	Monoterpene
Thuja-2,4(10)-diene	0.40	Monoterpene
Unknown	0.01	Unknown
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.06	Monoterpene
β -Pinene	1.35	Monoterpene
Sabinene	3.71	Monoterpene
Pseudolimonene isomer	0.02	Monoterpene
6-Methyl-5-hepten-2-one	0.01	Aliphatic ketone
Dehydro-1,8-cineole	0.05	Monoterpenic ether
Myrcene	7.14	Monoterpene
6-Methyl-5-hepten-2-ol	0.01	Aliphatic alcohol
2-Carene	0.01	Monoterpene
Octanal	0.01	Aliphatic aldehyde
α -Phellandrene	1.88	Monoterpene
Pseudolimonene	0.04	Monoterpene
Δ^3 -Carene	0.65	Monoterpene
<i>ortho</i> -Methylanisole	0.09	Simple phenolic
Unknown	0.02	Monoterpene
α -Terpinene	0.14	Monoterpene
Carvomenthene	0.03	Aliphatic alcohol
<i>para</i> -Cymene	3.34	Monoterpene
1,8-Cineole	0.13	Monoterpenic ether
β -Phellandrene	0.68	Monoterpene
Limonene	17.86	Monoterpene
<i>ortho</i> -Cymene	0.03	Monoterpene
(Z)- β -Ocimene	0.11	Monoterpene
Unknown	0.03	Unknown
(E)- β -Ocimene	0.06	Monoterpene

Unknown	0.01	Unknown
γ-Terpinene	0.25	Monoterpene
cis-Sabinene hydrate	0.03	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Octanol	0.07	Aliphatic alcohol
Terpinolene	0.09	Monoterpene
para-Cymenene	0.12	Monoterpene
6,7-Epoxymyrcene	0.05	Monoterpenic ether
trans-Sabinene hydrate	0.03	Monoterpenic alcohol
Verbenol analog?	0.06	Monoterpenic alcohol
Linalool	0.11	Monoterpenic alcohol
α-Thujone	0.02	Monoterpenic ketone
Unknown	0.06	Monoterpenic alcohol
Amyl isovalerate	0.07	Aliphatic ester
β-Thujone	0.03	Monoterpenic ketone
Unknown	0.06	Oxygenated monoterpene
trans-para-Mentha-2,8-dien-1-ol	0.10	Monoterpenic alcohol
Myrcenol	0.02	Monoterpenic alcohol
α-Campholenal	0.19	Monoterpenic aldehyde
cis-Limonene oxide	0.02	Monoterpenic ether
allo-Ocimene	0.01	Monoterpene
trans-Pinocarveol	0.47	Monoterpenic alcohol
trans-Limonene oxide	0.03	Monoterpenic ether
cis-Verbenol	0.17	Monoterpenic alcohol
trans-Sabinol	0.07	Monoterpenic alcohol
trans-Verbenol	0.74	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.12	Monoterpenic alcohol
Sabinaketone	0.03	Normonoterpenic ketone
Pinocamphone	0.05	Monoterpenic ketone
Unknown	0.01	Oxygenated monoterpene
Pinocarvone	0.08	Monoterpenic ketone
Borneol	0.06	Monoterpenic alcohol
α-Phellandren-8-ol	0.26	Monoterpenic alcohol
cis-Sabinol	0.07	Monoterpenic alcohol
Umbellulone	0.01	Monoterpenic ketone
Terpinen-4-ol	0.40	Monoterpenic alcohol
Thuj-3-en-10-al	0.02	Monoterpenic aldehyde
Cryptone	0.05	Normonoterpenic ketone
para-Cymen-8-ol	0.12	Monoterpenic alcohol
trans-Isocarveol	0.02	Monoterpenic alcohol
α-Terpineol	0.21	Monoterpenic alcohol
Myrtenal	0.19	Monoterpenic aldehyde
Myrtenol	0.17	Monoterpenic alcohol
trans-Isopiperitenol	0.03	Monoterpenic alcohol

<i>cis</i> - α -Phellandrene epoxide (iPr vs Me)	0.13	Monoterpenic ether
Verbenone	0.36	Monoterpenic ketone
<i>trans</i> -Piperitol	0.03	Monoterpenic alcohol
Octyl acetate	0.01	Aliphatic ester
<i>trans</i> -Carveol	0.20	Monoterpenic alcohol
<i>cis</i> -Carveol	0.06	Monoterpenic alcohol
Cuminal	0.05	Monoterpenic aldehyde
Carvone	0.18	Monoterpenic ketone
Carvotanacetone	0.01	Monoterpenic ketone
Unknown	0.02	Unknown
Piperitone	0.06	Monoterpenic ketone
3,5-Dimethoxytoluene	0.05	Simple phenolic
Unknown	0.04	Oxygenated monoterpene
Decanol	0.01	Aliphatic alcohol
Bornyl acetate	0.27	Monoterpenic ester
<i>para</i> -Cymen-7-ol	0.03	Monoterpenic alcohol
<i>trans</i> -Pinocarvyl acetate	0.03	Monoterpenic ester
Thymol	0.02	Monoterpenic alcohol
Carvacrol	0.03	Monoterpenic alcohol
Bicycloelemene	0.03	Sesquiterpene
Unknown	0.02	Unknown
α -Cubebene	0.17	Sesquiterpene
α -Terpinyl acetate	0.05	Monoterpenic ester
Cyclosativene I	0.02	Sesquiterpene
Cyclosativene II	0.03	Sesquiterpene
α -Ylangene	0.02	Sesquiterpene
α -Copaene	0.69	Sesquiterpene
β -Bourbonene	0.07	Sesquiterpene
1,5-diepi- β -Bourbonene	0.03	Sesquiterpene
β -Cubebene	0.08	Sesquiterpene
β -Elemene	0.75	Sesquiterpene
Isocaryophyllene	0.03	Sesquiterpene
α -Gurjunene	0.07	Sesquiterpene
β -Caryophyllene	2.63	Sesquiterpene
β -Copaene	0.03	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.11	Sesquiterpene
6,9-Guaiadiene	0.02	Sesquiterpene
Unknown	0.02	Sesquiterpene
<i>trans</i> -Muurolo-3,5-diene	0.02	Sesquiterpene
α -Humulene	0.74	Sesquiterpene
allo-Aromadendrene	0.14	Sesquiterpene
<i>cis</i> -Muurolo-4(15),5-diene	0.04	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.03	Sesquiterpene
γ -Muuroloene	0.27	Sesquiterpene
Germacrene D	0.24	Sesquiterpene

β -Selinene	0.35	Sesquiterpene
<i>trans</i> -Muurolo-4(15),5-diene	0.02	Sesquiterpene
δ -Selinene	0.07	Sesquiterpene
epi-Cubebol	0.15	Sesquiterpenic alcohol
Bicyclogermacrene	0.01	Sesquiterpene
α -Selinene	0.22	Sesquiterpene
α -Muurolene	0.16	Sesquiterpene
Cubebol	0.31	Sesquiterpenic alcohol
γ -Cadinene	0.28	Sesquiterpene
<i>trans</i> -Calamenene	0.02	Sesquiterpene
δ -Cadinene	0.52	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.03	Sesquiterpene
α -Cadinene	0.03	Sesquiterpene
α -Calacorene	0.01	Sesquiterpene
Isocaryophyllene epoxide B	0.04	Sesquiterpenic ether
Germacrene B	0.03	Sesquiterpene
Elemicin	0.02	Phenylpropanoid
Palustrol	0.01	Sesquiterpenic alcohol
Unknown	0.03	Oxygenated sesquiterpene
Germacrene D-4-ol	0.05	Sesquiterpenic alcohol
Caryophyllene oxide	0.45	Sesquiterpenic ether
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
Viridiflorol	0.13	Sesquiterpenic alcohol
Salvia-4(14)-en-1-one	0.01	Aliphatic alcohol
Copaborneol	0.05	Sesquiterpenic alcohol
Humulene epoxide II	0.09	Sesquiterpenic ether
1,10-diepi-Cubenol	0.06	Sesquiterpenic alcohol
1-epi-Cubenol	0.04	Sesquiterpenic alcohol
τ -Cadinol	0.20	Sesquiterpenic alcohol
τ -Muurolol	0.01	Sesquiterpenic alcohol
β -Eudesmol	0.04	Sesquiterpenic alcohol
α -Eudesmol	0.02	Sesquiterpenic alcohol
α -Cadinol	0.02	Sesquiterpenic alcohol
Dihydroeudesmol	0.01	Sesquiterpenic alcohol
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	0.03	Sesquiterpenic alcohol
Shyobunol	0.01	Sesquiterpenic alcohol
α -Phellandrene dimer I	0.01	Diterpene
α -Phellandrene dimer II	0.03	Diterpene
α -Phellandrene dimer III	0.01	Diterpene
(3E)-Cembrene A	0.07	Diterpene
<i>para</i> -Camphorene	0.01	Diterpene
Cembrene C	0.02	Diterpene
Verticilla-4(20),7,11-triene	0.01	Diterpene
Cembrenol	0.03	Diterpenic alcohol
Incensole	0.04	Diterpenic alcohol

Serratol	0.21	Diterpenic alcohol
Consolidated total	99.17	

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

Note: no correction factor was applied

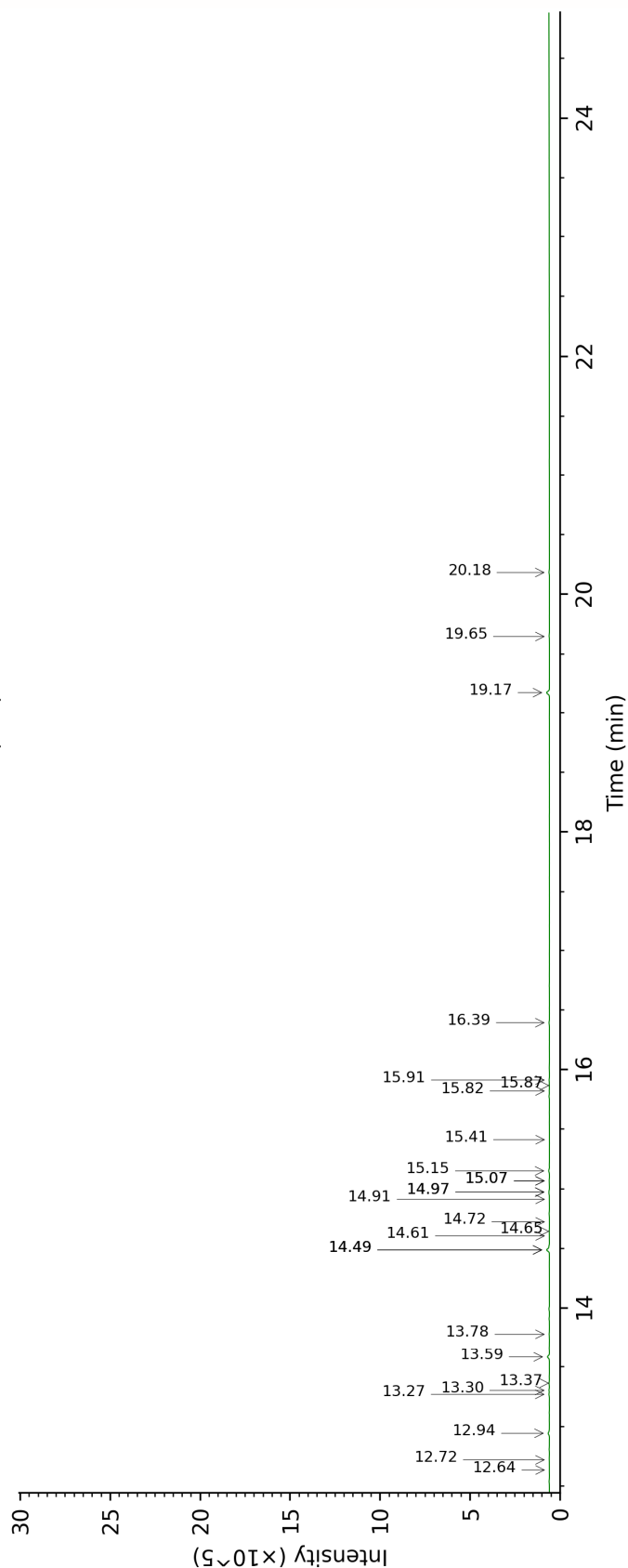
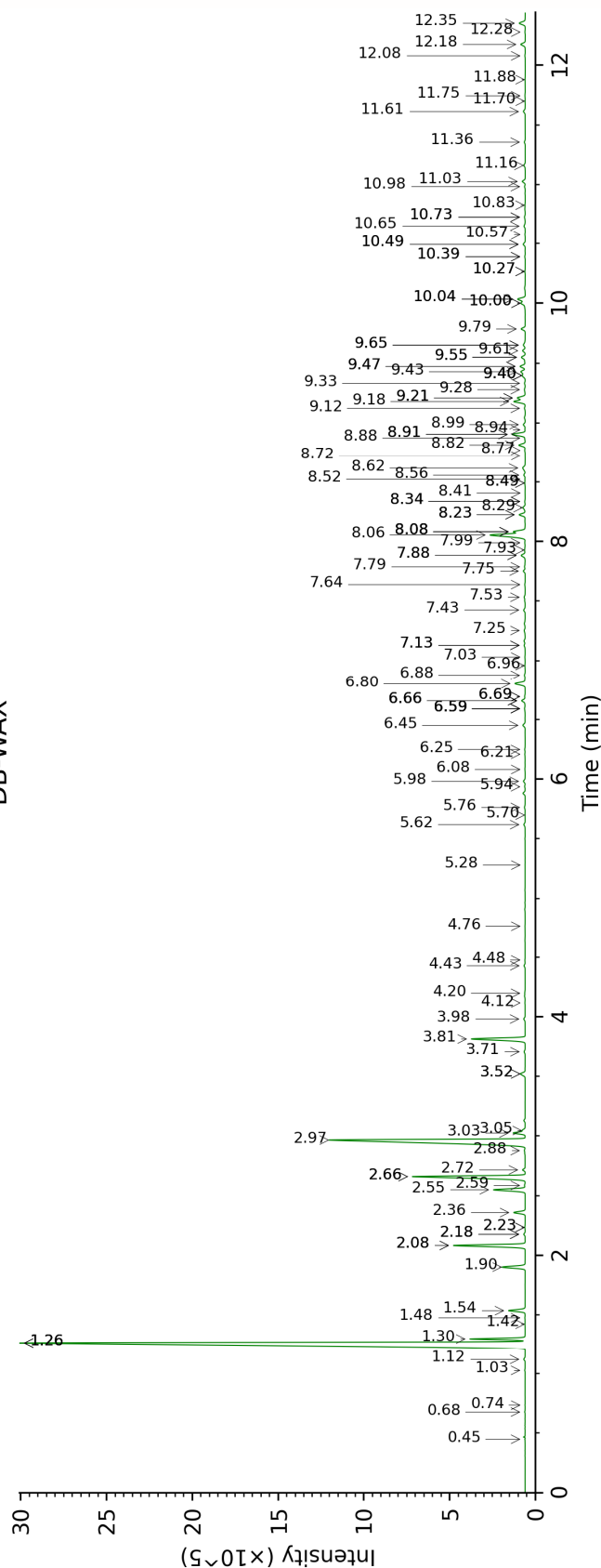
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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.

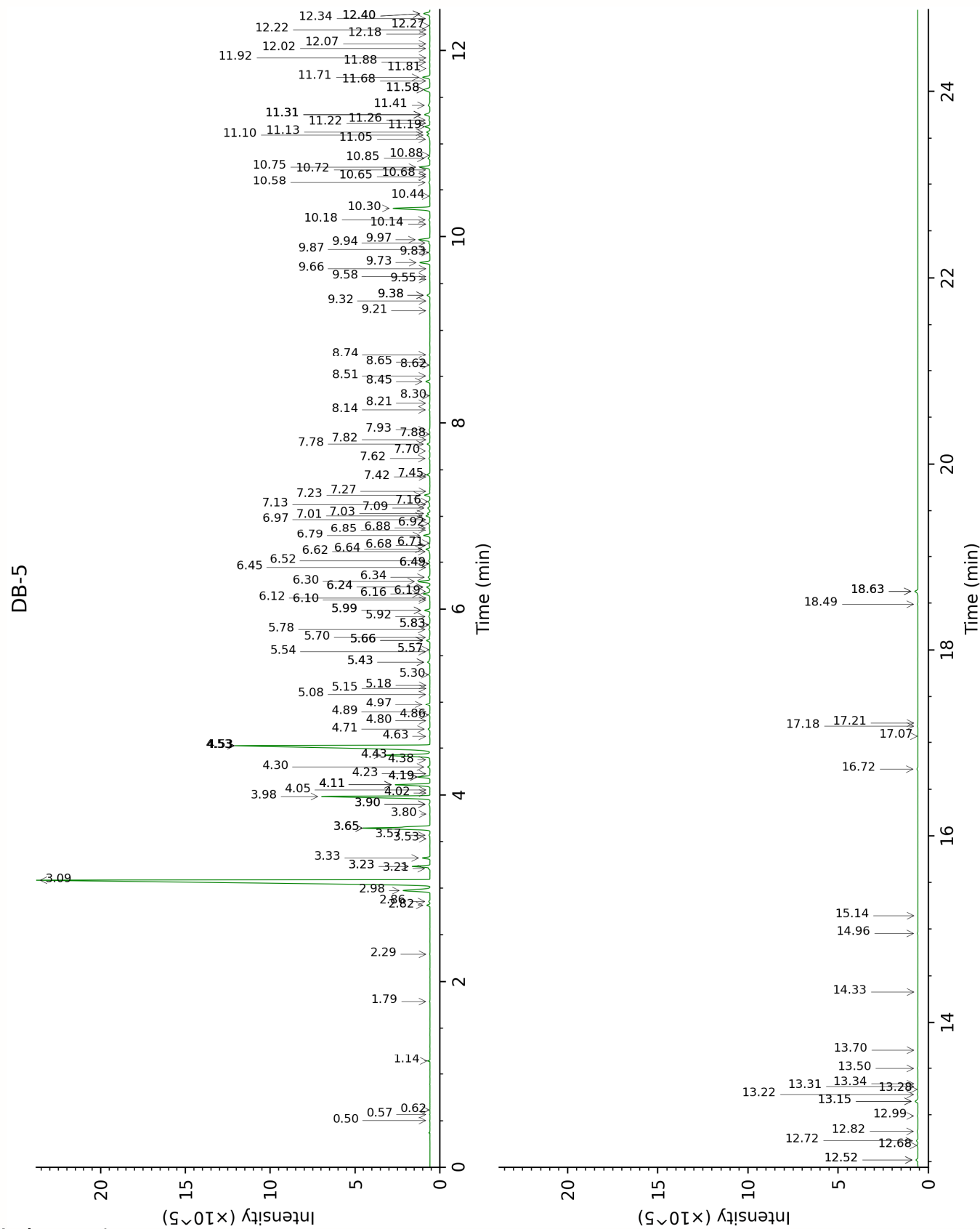
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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.

DB-WAX





FULL ANALYSIS DATA

2-Methyl-3-buten-2-ol	Column DB-WAX			Column DB-5		
	1.42	1018.0	0.01	0.50	608.2	0.01
(E)-2-Methyl-1,3-pentadiene	0.45	774.3	0.01	0.57	631.3	0.01
3-Methyl-2-butanone	0.74	907.0	tr	0.62	649.0	tr
Toluene	1.26*	999.3	[41.08]	1.14	759.1	0.07
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.68	884.7	0.02	1.79	832.3	0.02
Unknown BOCA II [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	1.03	958.0	0.02	2.29	875.0	0.01
Hashishene	1.26*	999.3	[41.08]	2.82	916.2	0.17
Tricyclene	1.12	974.3	0.08	2.86	918.9	0.07
α -Thujene	1.30	1005.2	2.24	2.98	926.8	2.17
α -Pinene	1.26*	999.3	[41.08]	3.09	934.2	41.04
Unknown SAOF I [m/z 91, 92 (47), 65 (11)... 134 (1)]	2.18*	1095.8	[0.08]	3.21*†	942.5	[0.06]
Camphene	1.54	1029.7	0.91	3.24*†	944.1	[0.92]
α -Fenchene	1.48	1023.5	0.02	3.24*†	944.1	[0.92]
Thuja-2,4(10)-diene	2.08*	1086.2	[4.05]	3.33	950.1	0.40
Unknown BODA IX [m/z 55, 43 (89), 111 (78), 93 (75), 41 (56), 83 (53), 91 (42), 108 (38), 67 (36), 126 (35)...]				3.53	963.9	0.01
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.66*	1136.6	[7.14]	3.57	966.4	0.06
β -Pinene	1.90	1067.4	1.35	3.65*	971.6	[5.05]
Sabinene	2.08*	1086.2	[4.05]	3.65*	971.6	[5.05]
Pseudolimonene isomer	2.24*	1101.8	[0.02]	3.80	981.7	0.02
6-Methyl-5-hepten-2-one	4.76	1297.6	0.01	3.90*	988.7	[0.08]
Dehydro-1,8-cineole	2.88	1154.0	0.05	3.90*	988.7	[0.08]
Myrcene	2.66*	1136.6	[7.14]	3.98	994.3	7.14
6-Methyl-5-hepten-	6.59*	1430.7	[0.06]	4.02	996.8	0.01

2-ol						
2-Carene	2.18*	1095.8	[0.08]	4.06	999.0	0.01
Octanal	4.12	1249.8	0.01	4.11*	1002.8	[1.99]
α -Phellandrene	2.55	1127.7	1.88	4.11*	1002.8	[1.99]
Pseudolimonene	2.59	1130.6	0.04	4.11*	1002.8	[1.99]
Δ^3 -Carene	2.36	1112.4	0.65	4.19*	1008.2	[0.74]
<i>ortho</i> -Methylanisole	5.62	1358.7	0.09	4.19*	1008.2	[0.74]
Unknown BOSA III [m/z 117, 132 (88), 115 (68), 91 (55), 77 (20)]				4.23	1010.3	0.02
α -Terpinene	2.72	1141.0	0.14	4.30	1014.9	0.14
Carvomenthene	2.24*	1101.8	[0.02]	4.38	1019.8	0.03
<i>para</i> -Cymene	3.82	1227.4	3.30	4.43	1022.9	3.34
1,8-Cineole	3.05	1167.5	0.13	4.53*	1029.4	[18.79]
β -Phellandrene	3.03	1165.9	0.68	4.53*	1029.4	[18.79]
Limonene	2.97	1161.1	17.86	4.53*	1029.4	[18.79]
<i>ortho</i> -Cymene	4.20	1255.8	0.03	4.63	1035.7	0.03
(<i>Z</i>)- β -Ocimene	3.52*	1205.8	[0.35]	4.71	1040.7	0.11
Unknown BOFR III [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)...]	6.96	1458.4	0.02	4.80	1046.4	0.03
(<i>E</i>)- β -Ocimene	3.71	1219.5	0.07	4.86	1050.3	0.06
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)...]	6.59*	1430.7	[0.06]	4.89	1052.4	0.01
γ -Terpinene	3.52*	1205.8	[0.35]	4.98	1057.7	0.25
<i>cis</i> -Sabinene hydrate	6.59*	1430.7	[0.06]	5.08	1064.7	0.03
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.48	1276.6	0.02	5.15	1068.8	0.01
<i>cis</i> -Linalool oxide (fur.)	6.21	1401.9	0.03	5.18	1070.9	0.01
Octanol	7.88*	1529.2	[0.30]	5.30	1078.3	0.07
Terpinolene	3.98	1239.8	0.09	5.43*	1086.7	[0.16]
<i>para</i> -Cymenene	5.98	1385.3	0.12	5.43*	1086.7	[0.16]
6,7-Epoxymyrcene	5.76	1369.2	0.05	5.54	1093.9	0.05

<i>trans</i> -Sabinene hydrate	7.64	1509.9	0.04	5.56	1095.2	0.03
Verbenol analog?	7.93	1532.7	0.06	5.66*	1101.5	[0.22]
Linalool	7.75	1518.8	0.11	5.66*	1101.5	[0.22]
α -Thujone	5.70	1364.5	0.02	5.66*	1101.5	[0.22]
Unknown ORMA I [m/z 119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)]	8.08*†	1544.8	[0.72]	5.70	1103.6	0.06
Amyl isovalerate	4.43	1273.0	0.07	5.78	1109.1	0.07
β -Thujone	5.94	1381.9	0.03	5.83*	1112.4	[0.09]
Unknown BOSE II [m/z 109, 91 (57), 93 (47), 81 (44), 77 (40)... 154 (1)]				5.83*	1112.4	[0.09]
<i>trans</i> - <i>para</i> -Mentha-2,8-dien-1-ol	8.62	1586.9	0.24	5.92	1118.1	0.10
Myrcenol	8.49*	1576.9	[0.04]	5.99*	1122.5	[0.32]
α -Campholenal	6.66*	1435.7	[0.25]	5.99*	1122.5	[0.32]
<i>cis</i> -Limonene oxide	6.08	1392.5	0.03	6.10	1129.6	0.02
allo-Ocimene	5.28	1333.8	0.01	6.12	1131.0	0.01
<i>trans</i> -Pinocarveol	8.82	1602.4	0.42	6.16	1133.9	0.47
<i>trans</i> -Limonene oxide	6.25	1404.8	0.04	6.19	1135.5	0.03
<i>cis</i> -Verbenol	8.91*	1609.7	[0.91]	6.24*	1138.6	[0.24]
<i>trans</i> -Sabinol	9.43*†	1652.7	[0.32]	6.24*	1138.6	[0.24]
<i>trans</i> -Verbenol	9.18†	1632.3	0.78	6.30	1142.5	0.74
<i>meta</i> -Mentha-4,6-dien-8-ol	8.99	1616.4	0.12	6.34	1145.5	0.12
Sabinaketone	8.34*	1564.7	[0.04]	6.45	1152.3	0.03
Pinocamphone	6.88	1452.2	0.05	6.49*	1154.9	[0.06]
Unknown BOCA III [m/z 97, 81 (96), 109 (80), 43 (53), 53 (40), 41 (36), 56 (29), 95 (25)... 152 (1)]	7.13*	1471.3	[0.08]	6.49*	1154.9	[0.06]
Pinocarvone	7.53	1501.7	0.08	6.52	1156.9	0.08
Borneol	9.40*†	1650.2	[0.25]	6.62	1163.3	0.06
α -Phellandren-8-ol	9.79	1682.1	0.26	6.64	1165.0	0.26
<i>cis</i> -Sabinol	10.49*	1741.8	[0.14]	6.68	1167.6	0.07
Umbellulone	8.52	1579.5	0.02	6.71	1169.3	0.01
Terpinen-4-ol	8.23*	1556.0	[0.39]	6.79	1174.6	0.40
Thuj-3-en-10-al	8.34*	1564.7	[0.04]	6.85	1178.7	0.02
Cryptone	8.77	1599.0	0.04	6.88	1180.3	0.05

<i>para</i> -Cymen-8-ol	11.16	1799.3	0.10	6.92	1183.4	0.12
<i>trans</i> -Isocarveol	10.58	1748.8	0.02	6.97	1186.1	0.02
α -Terpineol	9.40*†	1650.2	[0.25]	7.01*†	1188.8	[0.25]
Myrtenal	8.28	1560.7	0.19	7.03*†	1190.5	[0.15]
Myrtenol	10.49*	1741.8	[0.14]	7.09	1194.3	0.17
<i>trans</i> -Isopiperitenol	10.04*	1702.6	[0.51]	7.13	1196.7	0.03
<i>cis</i> - α -Phellandrene epoxide (iPr vs Me)	10.65	1755.5	0.09	7.16	1198.7	0.13
Verbenone	9.21*†	1634.8	[0.53]	7.23	1203.3	0.36
<i>trans</i> -Piperitol	10.00*	1699.8	[0.39]	7.27	1206.0	0.03
Octyl acetate	6.69*	1438.3	[0.03]	7.42	1216.4	0.01
<i>trans</i> -Carveol	11.03	1787.7	0.19	7.45	1218.0	0.20
<i>cis</i> -Carveol	11.36	1816.5	0.06	7.62	1229.9	0.06
Cuminal	10.27*	1722.3	[0.02]	7.70	1235.4	0.05
Carvone	9.60	1667.2	0.18	7.78	1240.5	0.18
Carvotanacetone	9.12	1627.6	0.05	7.82	1243.6	0.01
Unknown CALU IV [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	10.73*	1762.0	[0.07]	7.88	1247.7	0.02
Piperitone	9.55*	1662.7	[0.29]	7.93	1251.0	0.06
3,5-Dimethoxytoluene	10.98	1784.0	0.04	8.14	1265.5	0.05
Unknown BOSE VI [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]				8.22	1270.4	0.04
Decanol	10.39*	1732.9	[0.03]	8.30	1276.0	0.01
Bornyl acetate	7.88*	1529.2	[0.30]	8.45	1286.3	0.27
<i>para</i> -Cymen-7-ol	13.78	2041.1	0.02	8.51	1290.5	0.03
<i>trans</i> -Pinocarvyl acetate	8.72	1595.2	0.01	8.62	1298.5	0.03
Thymol	14.72	2133.9	0.01	8.66	1300.6	0.02
Carvacrol	14.98*	2159.3	[0.06]	8.74	1306.5	0.03
Bicycloelemene	6.69*	1438.3	[0.03]	9.21	1336.1	0.03
Unknown CIAU VI [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]				9.32	1343.5	0.02
α -Cubebene	6.45	1420.1	0.17	9.38*	1347.9	[0.20]
α -Terpinyl acetate	9.33	1644.8	0.05	9.38*	1347.9	[0.20]
Cyclosativene I	6.59*	1430.7	[0.06]	9.55	1360.0	0.02
Cyclosativene II	6.66*	1435.7	[0.25]	9.58	1362.0	0.03
α -Ylangene	6.66*	1435.7	[0.25]	9.66	1368.0	0.02
α -Copaene	6.80	1446.6	0.73	9.73	1372.7	0.69
β -Bourbonene	7.13*	1471.3	[0.08]	9.83	1380.4	0.07

1,5-diepi- β -Bourbonene	7.03	1463.8	0.03	9.86	1382.6	0.03
β -Cubebene	7.43	1493.6	0.11	9.94	1387.6	0.08
β -Elemene	8.08*†	1544.8	[0.72]	9.97	1390.1	0.75
Isocaryophyllene	7.79	1521.6	0.04	10.14	1401.9	0.03
α -Gurjunene	7.26	1480.7	0.09	10.18	1405.2	0.07
β -Caryophyllene	8.06†	1542.6	2.72	10.30	1414.4	2.63
β -Copaene	7.99	1537.5	0.03	10.44	1424.2	0.03
<i>trans</i> - α -Bergamotene	8.08*†	1544.8	[0.72]	10.58	1435.0	0.11
6,9-Guaiadiene	8.23*	1556.0	[0.39]	10.65	1440.2	0.02
Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	8.41	1570.3	0.02	10.68	1442.2	0.02
<i>trans</i> -Muuroala-3,5-diene	8.49*	1576.9	[0.04]	10.72	1445.8	0.02
α -Humulene	8.91*	1609.7	[0.91]	10.75	1448.0	0.74
allo-Aromadendrene	8.56	1582.2	0.09	10.85	1455.1	0.14
<i>cis</i> -Muuroala-4(15),5-diene	8.94	1612.8	0.02	10.88	1457.5	0.04
<i>trans</i> -Cadina-1(6),4-diene	8.88	1607.1	0.03	11.05	1470.4	0.03
γ -Muurolene	9.21*†	1634.8	[0.53]	11.10	1473.7	0.27
Germacrene D	9.40*†	1650.2	[0.25]	11.13	1476.1	0.24
β -Selinene	9.47*†	1656.4	[0.36]	11.19	1480.5	0.35
<i>trans</i> -Muuroala-4(15),5-diene	9.47*†	1656.4	[0.36]	11.22	1483.4	0.02
δ -Selinene	9.28	1640.5	0.08	11.26	1485.8	0.07
epi-Cubebol	11.61	1839.5	0.15	11.32*	1490.2	[0.44]
Bicyclogermacrene	9.65*	1671.0	[0.17]	11.32*	1490.2	[0.44]
α -Selinene	9.55*	1662.7	[0.29]	11.32*	1490.2	[0.44]
α -Muurolene	9.65*	1671.0	[0.17]	11.42	1497.7	0.16
Cubebol	12.18	1890.1	0.31	11.58*	1510.5	[0.60]
γ -Cadinene	10.00*	1699.8	[0.39]	11.58*	1510.5	[0.60]
<i>trans</i> -Calamenene	10.83	1770.6	0.03	11.68	1517.9	0.02
δ -Cadinene	10.04*	1702.6	[0.51]	11.72	1520.9	0.52
<i>trans</i> -Cadina-1,4-diene	10.27*	1722.3	[0.02]	11.81	1528.4	0.03
α -Cadinene	10.39*	1732.9	[0.03]	11.88	1533.8	0.03
α -Calacorene	11.70	1847.4	0.02	11.92	1537.4	0.01
Isocaryophyllene epoxide B	11.75	1851.4	0.03	12.02	1545.4	0.04
Germacrene B	10.73*	1762.0	[0.07]	12.07	1549.3	0.03

Elemicin	15.07*	2168.8	[0.03]	12.18	1557.5	0.02
Palustrol	11.88	1863.5	0.02	12.22	1561.2	0.01
Unknown BOCA V [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]				12.27	1564.7	0.03
Germacrene D-4-ol	13.27	1991.8	0.04	12.34	1570.6	0.05
Caryophyllene oxide	12.35	1906.0	0.45	12.40*	1574.9	[0.48]
Caryophyllene oxide isomer	12.28	1899.4	0.02	12.40*	1574.9	[0.48]
Viridiflorol	13.59	2021.9	0.13	12.52*	1584.4	[0.14]
Salvial-4(14)-en-1- one	12.64	1932.4	0.01	12.52*	1584.4	[0.14]
Copaborneol	14.49*	2110.1	[0.23]	12.68	1596.8	0.05
Humulene epoxide II	12.94	1961.3	0.10	12.72	1600.7	0.09
1,10-diepi-Cubenol	13.30	1995.0	0.03	12.82	1608.7	0.06
1-epi-Cubenol	13.36	2000.7	0.04	12.99	1622.5	0.04
τ -Cadinol	14.49*	2110.1	[0.23]	13.15*	1635.5	[0.21]
τ -Muurolool	14.61	2122.0	0.01	13.15*	1635.5	[0.21]
β -Eudesmol	14.98*	2159.3	[0.06]	13.22	1641.6	0.04
α -Eudesmol	14.91	2153.1	0.01	13.28	1646.2	0.02
α -Cadinol	15.07*	2168.8	[0.03]	13.31	1648.8	0.02
Dihydroeudesmol	14.65	2125.9	0.02	13.34	1651.3	0.01
(3Z)-Caryophylla- 3,8(13)-dien-5 β -ol	16.40	2306.4	0.04	13.50	1664.9	0.03
Shyobunol	15.87	2251.3	0.01	13.70	1681.8	0.01
α -Phellandrene dimer I				14.33	1734.8	0.01
α -Phellandrene dimer II	12.08	1881.5	0.03	14.96	1789.4	0.03
α -Phellandrene dimer III	12.72	1940.3	0.04	15.14	1805.9	0.01
(3E)-Cembrene A	15.15	2177.3	0.06	16.72	1951.0	0.07
<i>para</i> -Camphorene	15.41	2203.8	0.01	17.07	1984.7	0.01
Cembrene C	15.82	2246.5	0.02	17.18	1994.9	0.02
Verticilla-4(20),7,11- triene	15.91	2256.1	0.03	17.21	1998.1	0.01
Cembrenol	19.65	2678.0	0.03	18.49	2125.6	0.03
Incensole	20.18	2744.0	0.04	18.63*	2139.9	[0.24]
Serratol	19.17	2620.2	0.21	18.63*	2139.9	[0.24]
Total reported		98.38%			99.48%	

*: 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