Date : 2026-06-15

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 26D08-PTH09
Customer Identification : Juniper Berry ORGANIC - Greece - J50110
Type : Essential Oil
Source : *Juniperus communis*
Customer : Plant Therapy

Checked an 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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 2026-04-15 to make a modification in the sample identification section.

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 : 2026-04-15

Physicochemical data

Refractive index : 1.4779 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2026-04-08

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
3-Methylfuran	0.01	Furan
Toluene	0.01	Simple phenolic
Hexanal	0.01	Aliphatic aldehyde
Octane	tr	Alkane
Unknown	0.01	Alkene
(2*E*)-Hexenal	0.01	Aliphatic aldehyde
Hexanol	0.01	Aliphatic alcohol
Santene	0.02	Normonoterpene
Bornylene	0.01	Monoterpene
Tricyclene	0.16	Monoterpene
α-Thujene	1.53	Monoterpene
α-Pinene	37.92	Monoterpene
Camphene	0.79	Monoterpene
Thuja-2,4(10)-diene	0.07	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.03	Monoterpene
Sabinene	8.95	Monoterpene
β-Pinene	3.53	Monoterpene
Octen-3-ol	0.02	Aliphatic alcohol
Octan-3-one	0.02	Aliphatic ketone
6-Methyl-5-hepten-2-one	0.01	Aliphatic ketone
Myrcene	7.81	Monoterpene
2-Carene	0.11	Monoterpene
α-Phellandrene	0.49	Monoterpene
Pseudolimonene	0.01	Monoterpene
Menthatriene isomer I	0.03	Monoterpene
Δ3-Carene	1.85	Monoterpene
α-Terpinene	1.16	Monoterpene
para-Cymene	1.65	Monoterpene
1,8-Cineole	[1.72]	Monoterpenic ether
β-Phellandrene	[1.72]	Monoterpene
Limonene	5.02	Monoterpene
(*Z*)-β-Ocimene	0.01	Monoterpene
(*E*)-β-Ocimene	0.21	Monoterpene
γ-Terpinene	2.05	Monoterpene
cis-Sabinene hydrate	0.08	Monoterpenic alcohol
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Unknown	0.03	Oxygenated monoterpene
Unknown	0.02	Unknown
Fenchone	0.08	Monoterpenic ketone
Terpinolene	1.57	Monoterpene

para-Cymenene	0.01	Monoterpene
α-Pinene oxide	0.02	Monoterpenic ether
trans-Sabinene hydrate	0.07	Monoterpenic alcohol
Linalool	0.08	Monoterpenic alcohol
α-Thujone	0.03	Monoterpenic ketone
Nonanal	0.04	Aliphatic aldehyde
Verbenol analog?	0.13	Monoterpenic alcohol
endo-Fenchol	0.10	Monoterpenic alcohol
cis-para-Menth-2-en-1-ol	0.13	Monoterpenic alcohol
α-Campholenal	0.05	Monoterpenic aldehyde
cis-Limonene oxide	0.01	Monoterpenic ether
trans-Limonene oxide	0.01	Monoterpenic ether
1-Terpineol	0.04	Monoterpenic alcohol
trans-Pinocarveol	0.18	Monoterpenic alcohol
cis-Verbenol	0.06	Monoterpenic alcohol
Camphor	0.03	Monoterpenic ketone
Camphene hydrate	0.06	Monoterpenic alcohol
trans-Verbenol	0.04	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.03	Monoterpenic alcohol
Sabinaketone	0.07	Normonoterpenic ketone
Pinocamphone	0.03	Monoterpenic ketone
Pinocarvone	0.03	Monoterpenic ketone
Borneol	0.06	Monoterpenic alcohol
α-Phellandren-8-ol	0.04	Monoterpenic alcohol
Isopinocamphone	0.05	Monoterpenic ketone
Terpinen-4-ol	2.51	Monoterpenic alcohol
Cryptone	0.08	Normonoterpenic ketone
para-Cymen-8-ol	0.28	Monoterpenic alcohol
trans-Isocarveol	0.01	Monoterpenic alcohol
α-Terpineol	0.37	Monoterpenic alcohol
Myrtenal	0.04	Monoterpenic aldehyde
Myrtenol	0.10	Monoterpenic alcohol
trans-Isopiperitenol	0.02	Monoterpenic alcohol
Verbenone	0.09	Monoterpenic ketone
Decanal	0.04	Aliphatic aldehyde
endo-Fenchyl acetate	0.01	Monoterpenic ester
trans-Carveol	0.04	Monoterpenic alcohol
cis-Carveol	0.01	Monoterpenic alcohol
Citronellol	0.06	Monoterpenic alcohol
Unknown	0.04	Oxygenated monoterpene
Thymol methyl ether	0.05	Monoterpenic ether
Carvone	0.04	Monoterpenic ketone
Carvacrol methyl ether	0.02	Monoterpenic ether
Piperitone	0.06	Monoterpenic ketone
Methyl citronellate	0.06	Monoterpenic ester

Geranial	0.05	Monoterpenic aldehyde
Decanol	0.06	Aliphatic alcohol
Bornyl acetate	0.37	Monoterpenic ester
2-Undecanone	0.09	Aliphatic ketone
Terpinen-4-yl acetate	0.03	Monoterpenic ester
Thymol	0.06	Monoterpenic alcohol
Unknown	0.08	Unknown
para-Menth-5-en-1,2-diol isomer II	0.05	Monoterpenic alcohol
Unknown	0.07	Monoterpenic alcohol
Myrtenyl acetate	0.02	Monoterpenic ester
Unknown	0.01	Sesquiterpene
Terpinyl acetate analog	0.02	Monoterpenic ester
Bicycloelemene	0.02	Sesquiterpene
α-Longipinene	0.01	Sesquiterpene
α-Terpinyl acetate	0.18	Monoterpenic ester
α-Cubebene	0.63	Sesquiterpene
Citronellyl acetate	0.05	Monoterpenic ester
Neryl acetate	0.01	Monoterpenic ester
α-Ylangene	0.04	Sesquiterpene
α-Copaene	0.44	Sesquiterpene
cis-β-Elemene	0.08	Sesquiterpene
trans-Myrtanyl acetate	0.02	Monoterpenic ester
β-Cubebene	0.08	Sesquiterpene
β-Elemene	0.33	Sesquiterpene
Longifolene	0.05	Sesquiterpene
Sibirene	0.26	Sesquiterpene
α-Gurjunene	0.05	Sesquiterpene
Unknown	0.05	Sesquiterpene
α-Cedrene	0.10	Sesquiterpene
β-Caryophyllene	1.80	Sesquiterpene
cis-Thujopsene	2.52	Sesquiterpene
γ-Elemene	0.06	Sesquiterpene
Aromadendrene	0.04	Sesquiterpene
6,9-Guaiadiene	0.02	Sesquiterpene
α-Himachalene	0.03	Sesquiterpene
α-Humulene	1.18	Sesquiterpene
allo-Aromadendrene	0.03	Sesquiterpene
β-Acoradiene	0.05	Sesquiterpene
(*E*)-β-Farnesene	0.08	Sesquiterpene
trans-Cadina-1(6),4-diene	0.21	Sesquiterpene
γ-Muurolene	0.32	Sesquiterpene
Germacrene D	0.77	Sesquiterpene
β-Selinene	0.13	Sesquiterpene
ar-Curcumene	0.18	Sesquiterpene
γ-Amorphene	0.10	Sesquiterpene

α-Selinene	0.05	Sesquiterpene
Viridiflorene	0.03	Sesquiterpene
epi-Cubebol	0.04	Sesquiterpenic alcohol
Bicyclogermacrene	0.15	Sesquiterpene
Cuparene	tr	Sesquiterpene
Germacrene A	0.06	Sesquiterpene
α-Muurolene	0.36	Sesquiterpene
Cubebol	0.04	Sesquiterpenic alcohol
γ-Cadinene	0.44	Sesquiterpene
trans-Calamenene	0.08	Sesquiterpene
δ-Cadinene	1.39	Sesquiterpene
Selina-4(15),7(11)-diene	0.14	Sesquiterpene
α-Cadinene	0.10	Sesquiterpene
α-Calacorene	0.01	Sesquiterpene
Selina-3,7(11)-diene	0.05	Sesquiterpene
(*E*)-α-Bisabolene	0.01	Sesquiterpene
α-Elemol	0.02	Sesquiterpenic alcohol
Dihydrocaryophyllen-5-one?	0.01	Sesquiterpenic ketone
Germacrene B	0.26	Sesquiterpene
(*E*)-Nerolidol	0.07	Sesquiterpenic alcohol
Caryophyllenyl alcohol	0.02	Sesquiterpenic alcohol
Spathulenol	0.08	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.03	Sesquiterpenic ether
Caryophyllene oxide	0.30	Sesquiterpenic ether
allo-Cedrol	0.03	Sesquiterpenic alcohol
α-Cedrol	0.07	Sesquiterpenic alcohol
Widdrol	0.04	Sesquiterpenic alcohol
Humulene epoxide II	0.17	Sesquiterpenic ether
epi-Cedrol	0.05	Sesquiterpenic alcohol
Junenol	0.03	Sesquiterpenic alcohol
Alismol	0.02	Sesquiterpenic alcohol
1-epi-Cubenol	0.08	Sesquiterpenic alcohol
α-Acorenol	0.01	Sesquiterpenic alcohol
β-Acorenol	0.02	Sesquiterpenic alcohol
allo-Aromadendrene epoxide?	0.02	Sesquiterpenic ether
τ-Cadinol	0.06	Sesquiterpenic alcohol
τ-Muurolol	0.02	Sesquiterpenic alcohol
Cubenol	0.04	Sesquiterpenic alcohol
α-Muurolol	0.04	Sesquiterpenic alcohol
β-Eudesmol	0.01	Sesquiterpenic alcohol
α-Eudesmol	0.03	Sesquiterpenic alcohol
α-Cadinol	0.08	Sesquiterpenic alcohol
Cedrenol analog	0.02	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.03	Sesquiterpenic alcohol
14-Hydroxy-(*E*)-caryophyllene	0.02	Sesquiterpenic alcohol

Germacra-4(15),5,10(14)-trien-1-ol isomer	0.02	Sesquiterpenic alcohol
α-Bisabolol	0.02	Sesquiterpenic alcohol
Mayurone?	0.02	Norsesquiterpenic ketone
Germacra-4(15),5,10(14)-trien-1β-ol?	0.01	Sesquiterpenic alcohol
β-Turmerone	0.01	Sesquiterpenic ketone
Aromadendrane-4,10-diol	0.02	Sesquiterpenic alcohol
Biformene?	0.02	Diterpene
meta-Camphorene	0.36	Diterpene
Trachylobane?	0.03	Diterpene
para-Camphorene	0.14	Diterpene
18-Norabieta-8,11,13-triene?	0.02	Norditerpene
ar-Abietatriene	0.03	Diterpene
7,13-Abietadiene	0.03	Diterpene
Sandaracopimarinal?	0.01	Diterpenic aldehyde
Abieta-7,13-dien-3-one	0.01	Diterpenic ketone
Consolidated total	**98.62**	

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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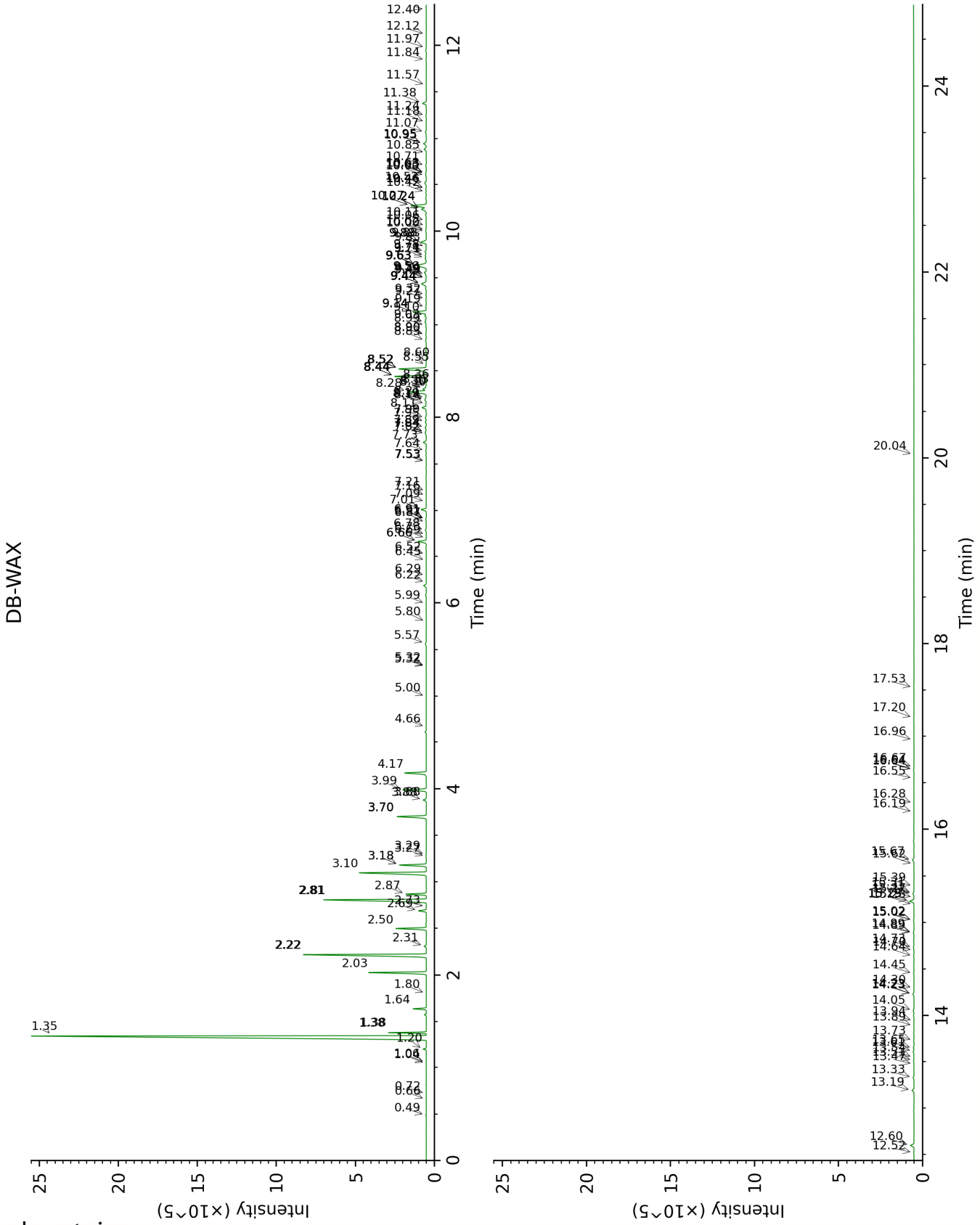
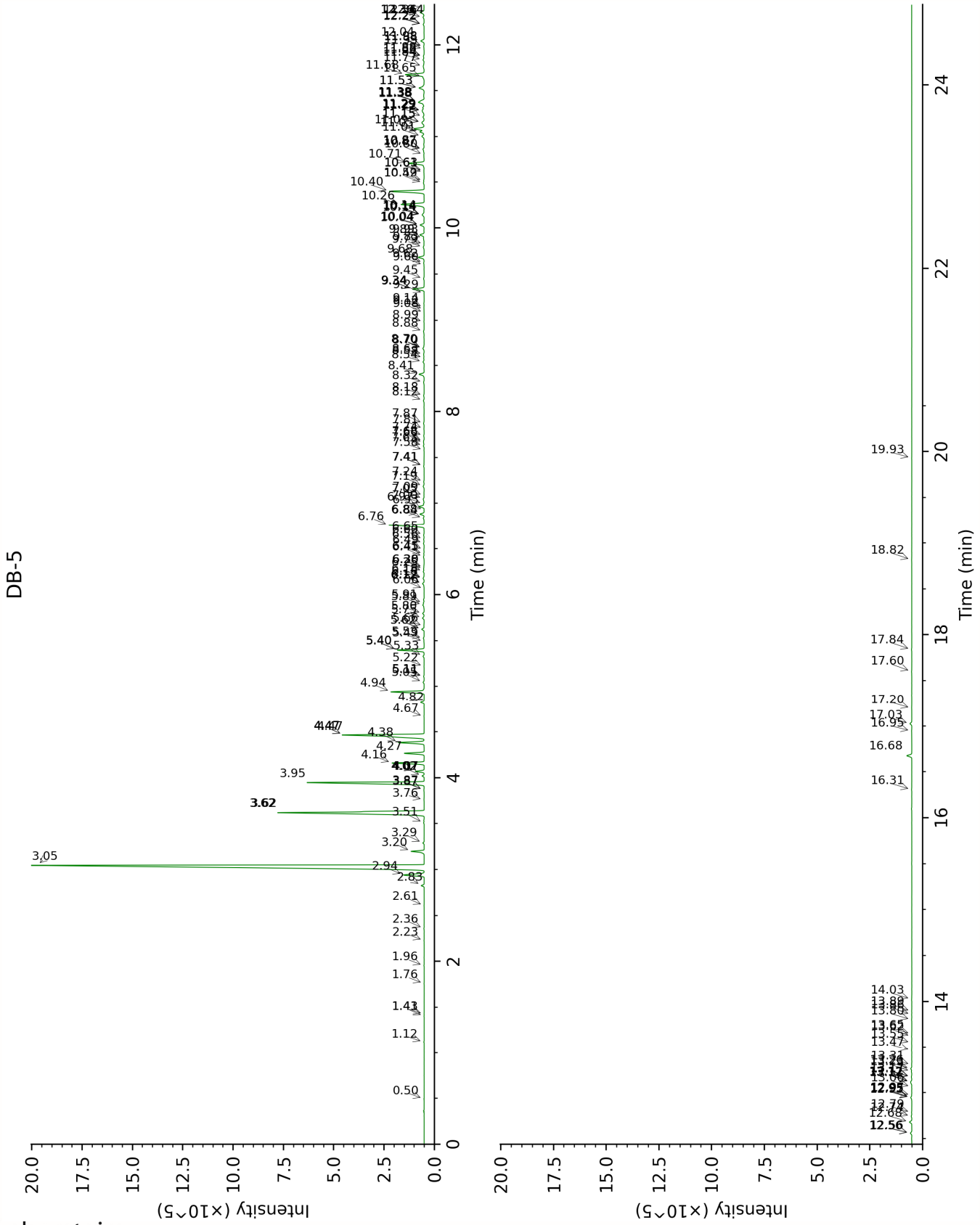

DB-WAX
Time (min)
Intensity (×10^5)
Time (min)
Intensity (×10^5)


DB-5
Time (min)
Intensity (×10^5)
Time (min)
Intensity (×10^5)

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
3-Methylfuran	0.66	857.3	tr	0.50	609.0	0.01
Toluene	1.38*	1000.4	[1.54]	1.12	759.0	0.01
Hexanal	1.80	1043.0	0.01	1.40	799.9	0.01
Octane	0.49	781.8	0.02	1.43	803.3	tr
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.72	878.9	0.01	1.76	832.2	0.01
(2*E*)-Hexenal	3.27	1170.7	0.02	1.96	848.7	0.01
Hexanol	5.32*	1319.6	[0.02]	2.23	871.8	0.01
Santene	1.06	948.0	0.01	2.36	883.1	0.02
Bornylene	1.04	945.7	0.01	2.61	904.2	0.01
Tricyclene	1.20	970.7	0.16	2.83	918.8	0.16
α-Thujene	1.38*	1000.4	[1.54]	2.94	926.6	1.53
α-Pinene	1.35	994.6	38.04	3.05	933.6	37.92
Camphene	1.64	1026.8	0.68	3.20	943.8	0.79
Thuja-2,4(10)-diene	2.22*	1084.2	[9.03]	3.29	950.0	0.07
3,7,7-Trimethylcyclohepta-1,3,5-triene	2.81*	1134.4	[7.83]	3.51	964.6	0.03
Sabinene	2.22*	1084.2	[9.03]	3.62*	972.1	[12.48]
β-Pinene	2.03	1065.2	3.53	3.62*	972.1	[12.48]
Octen-3-ol	6.69	1419.9	0.01	3.76	981.5	0.02
Octan-3-one	3.88*	1218.1	[0.21]	3.87*	988.6	[0.03]
6-Methyl-5-hepten-2-one	5.00	1300.9	0.01	3.87*	988.6	[0.03]
Myrcene	2.81*	1134.4	[7.83]	3.95	994.1	7.81
2-Carene	2.31	1093.1	0.12	4.02	998.9	0.11
α-Phellandrene	2.69	1125.1	0.49	4.07*	1002.3	[0.52]
Pseudolimonene	2.73	1128.4	0.01	4.07*	1002.3	[0.52]
Menthatriene isomer I	3.29	1172.3	0.03	4.07*	1002.3	[0.52]
Δ3-Carene	2.50	1110.3	1.85	4.16	1008.2	1.85
α-Terpinene	2.87	1139.2	1.15	4.27	1014.9	1.16
para-Cymene	3.99	1226.1	1.63	4.38	1022.3	1.65
1,8-Cineole	3.18*	1163.7	[1.73]	4.47*	1027.6	[6.75]
β-Phellandrene	3.18*	1163.7	[1.73]	4.47*	1027.6	[6.75]
Limonene	3.10	1157.2	5.02	4.47*	1027.6	[6.75]
(*Z*)-β-Ocimene	3.70*	1204.9	[2.05]	4.67	1040.3	0.01
(*E*)-β-Ocimene	3.88*	1218.1	[0.21]	4.82	1050.2	0.21
γ-Terpinene	3.70*	1204.9	[2.05]	4.94	1057.8	2.05
cis-Sabinene hydrate	6.78	1426.6	0.08	5.05	1064.4	0.08
cis-Linalool oxide (fur.)	6.45	1401.9	0.01	5.11*	1068.6	[0.04]

Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.66	1276.0	0.03	5.11*	1068.6	[0.04]
Unknown PIMA 2 [m/z 94, 79 (74), 67 (33), 41 (22), 95 (21)...]				5.22	1075.5	0.02
Fenchone	5.57	1337.6	0.07	5.33	1082.5	0.08
Terpinolene	4.17	1239.5	1.57	5.40*	1086.8	[1.66]
para-Cymenene	6.22	1385.1	0.01	5.40*	1086.8	[1.66]
α-Pinene oxide	5.32*	1319.6	[0.02]	5.49	1092.5	0.02
trans-Sabinene hydrate	7.84*	1505.9	[0.13]	5.53	1095.0	0.07
Linalool	7.95	1514.6	0.08	5.62*	1101.2	[0.17]
α-Thujone	5.99	1368.5	0.03	5.62*	1101.2	[0.17]
Nonanal	5.80	1354.4	0.02	5.66	1103.4	0.04
Verbenol analog?	8.19*	1533.2	[0.16]	5.75	1109.0	0.13
endo-Fenchol	8.30*†	1542.2	[0.27]	5.80	1112.3	0.10
cis-para-Menth-2-en-1-ol	7.99	1517.9	0.11	5.89	1118.2	0.13
α-Campholenal	6.91*	1435.9	[0.05]	5.91	1119.7	0.05
cis-Limonene oxide	6.29	1390.4	0.01	6.06	1129.5	0.01
trans-Limonene oxide	6.52	1407.1	0.01	6.12*	1133.4	[0.14]
1-Terpineol	8.21	1534.7	0.04	6.12*	1133.4	[0.14]
trans-Pinocarveol	9.03†	1598.9	0.11	6.12*	1133.4	[0.14]
cis-Verbenol	9.14*†	1607.5	[1.15]	6.18*	1137.1	[0.09]
Camphor	7.09	1449.8	0.03	6.18*	1137.1	[0.09]
Camphene hydrate	8.36†	1546.7	0.03	6.25	1141.9	0.06
trans-Verbenol	9.44*	1632.3	[0.55]	6.28	1143.6	0.04
meta-Mentha-4,6-dien-8-ol	9.19	1611.6	0.07	6.30	1145.0	0.03
Sabinaketone	8.52*	1559.2	[2.57]	6.41	1152.3	0.07
Pinocamphone	7.16	1454.6	0.02	6.44	1154.4	0.03
Pinocarvone	7.82	1504.5	0.04	6.49	1157.3	0.03
Borneol	9.64*	1648.2	[1.26]	6.56	1161.8	0.06
α-Phellandren-8-ol	10.02*†	1679.3	[0.05]	6.60	1164.6	0.04
Isopinocamphone	7.53*	1482.4	[0.03]	6.65	1167.7	0.05
Terpinen-4-ol	8.44*	1553.0	[2.50]	6.76	1175.0	2.51
Cryptone	8.99	1596.0	0.06	6.84	1180.1	0.08
para-Cymen-8-ol	11.38	1794.7	0.30	6.88	1183.0	0.28
trans-Isocarveol	10.85	1749.3	0.01	6.93	1185.7	0.01
α-Terpineol	9.64*	1648.2	[1.26]	6.97	1188.4	0.37
Myrtenal	8.55	1561.8	0.04	7.00	1190.2	0.04
Myrtenol	10.71	1737.6	0.06	7.05	1193.8	0.10

trans-Isopiperitenol	10.27*	1700.5	[1.30]	7.09	1196.2	0.02
Verbenone	9.50*	1636.8	[0.05]	7.19	1202.8	0.09
Decanal	7.21	1458.4	0.01	7.24	1206.0	0.04
endo-Fenchyl acetate	6.73	1422.9	0.01	7.41*	1217.7	[0.04]
trans-Carveol	11.24	1783.2	0.04	7.41*	1217.7	[0.04]
cis-Carveol	11.57	1811.5	0.02	7.58	1229.5	0.01
Citronellol	10.63*	1730.6	[0.07]	7.63	1232.6	0.06
Unknown CIAU II [m/z 137, 152 (28), 43 (25), 91 (24), 109 (23), 119 (19)]	11.18	1777.3	0.02	7.66	1234.9	0.04
Thymol methyl ether	8.33	1544.2	0.04	7.68	1236.1	0.05
Carvone	9.88*	1668.7	[0.55]	7.74	1240.2	0.04
Carvacrol methyl ether	8.44*	1553.0	[2.50]	7.81	1245.3	0.02
Piperitone	9.78	1660.3	0.12	7.87	1249.3	0.06
Methyl citronellate	8.14	1529.3	0.05	8.12	1266.3	0.06
Geranial	10.00*†	1677.8	[0.04]	8.18	1270.1	0.05
Decanol	10.60	1728.2	0.07	8.32	1280.2	0.06
Bornyl acetate	8.11	1526.8	0.35	8.41	1286.0	0.37
2-Undecanone	8.52*	1559.2	[2.57]	8.54	1295.2	0.09
Terpinen-4-yl acetate	8.60	1565.2	0.03	8.58	1298.1	0.03
Thymol	15.02*	2134.8	[0.05]	8.63	1301.1	0.06
Unknown CASA XVII [m/z 93, 111 (86), 43 (70), 110 (55), 59 (53), 69 (52), 41 (47)...]	13.33	1970.9	0.08	8.70*	1305.9	[0.14]
para-Menth-5-en-1,2-diol isomer II	14.23*	2056.8	[0.11]	8.70*	1305.9	[0.14]
Unknown MEAL I [m/z 97, 112 (92), 83 (62), 43 (44), 41 (25)... 170? (4)]	14.89*	2121.4	[0.06]	8.88	1315.6	0.07
Myrtenyl acetate	9.50*	1636.8	[0.05]	8.99	1323.0	0.02
Unknown CULA I [m/z 81, 79 (45), 91 (40), 67 (40), 69 939), 93 (39)... 204? (6)]	6.87	1433.1	0.04	9.08	1330.0	0.01
Terpinyl acetate analog	9.44*	1632.3	[0.55]	9.12	1332.6	0.02
Bicycloelemene	6.91*	1435.9	[0.05]	9.14	1334.1	0.02
α-Longipinene	6.66*	1417.5	[0.68]	9.29	1344.8	0.01
α-Terpinyl acetate	9.56	1641.9	0.18	9.34*	1348.2	[0.81]
α-Cubebene	6.66*	1417.5	[0.68]	9.34*	1348.2	[0.81]
Citronellyl acetate	9.32	1622.7	0.04	9.45	1356.2	0.05

Neryl acetate	10.06	1682.6	0.02	9.60	1366.7	0.01
α-Ylangene	6.91*	1435.9	[0.05]	9.62	1368.4	0.04
α-Copaene	7.01	1443.8	0.42	9.68	1372.8	0.44
cis-β-Elemene	8.19*	1533.2	[0.16]	9.79	1380.4	0.08
trans-Myrtanyl acetate	10.11	1687.4	0.04	9.83	1382.9	0.02
β-Cubebene	7.64	1491.1	0.06	9.89	1387.6	0.08
β-Elemene	8.30*†	1542.2	[0.27]	9.93	1390.1	0.33
Longifolene	7.84*	1505.9	[0.13]	10.04*	1397.8	[0.30]
Sibirene	7.73	1497.9	0.26	10.04*	1397.8	[0.30]
α-Gurjunene	7.53*	1482.4	[0.03]	10.14*	1405.5	[0.19]
Unknown CHOB III [m/z 69, 93 (56), 111 (55), 55 (41), 92 (40), 91 (37)... 204 (t)]	10.42	1712.5	0.05	10.14*	1405.5	[0.19]
α-Cedrene	7.89	1510.0	0.10	10.14*	1405.5	[0.19]
β-Caryophyllene	8.28*†	1540.0	[1.69]	10.26	1414.1	1.80
cis-Thujopsene	8.52*	1559.2	[2.57]	10.40	1424.8	2.52
γ-Elemene	8.90*	1588.6	[0.06]	10.49	1431.6	0.06
Aromadendrene	8.44*	1553.0	[2.50]	10.52	1433.5	0.04
6,9-Guaiadiene	8.52*	1559.2	[2.57]	10.61	1440.7	0.02
α-Himachalene	8.83	1583.3	0.09	10.63	1442.3	0.03
α-Humulene	9.14*†	1607.5	[1.15]	10.71	1448.2	1.18
allo-Aromadendrene	8.90*	1588.6	[0.06]	10.80	1455.2	0.03
β-Acoradiene	9.27	1618.6	0.05	10.86*†	1459.7	[0.09]
(*E*)-β-Farnesene	9.44*	1632.3	[0.55]	10.86*†	1459.7	[0.09]
trans-Cadina-1(6),4-diene	9.10†	1604.3	0.12	11.00	1470.2	0.21
γ-Muurolene	9.44*	1632.3	[0.55]	11.06	1474.0	0.32
Germacrene D	9.64*	1648.2	[1.26]	11.09	1476.4	0.77
β-Selinene	9.74	1656.9	0.13	11.16*	1481.5	[0.26]
ar-Curcumene	10.52	1721.2	0.18	11.16*	1481.5	[0.26]
γ-Amorphene	9.71	1654.2	0.10	11.22	1486.0	0.10
α-Selinene	9.83	1664.0	0.05	11.28*	1491.2	[0.27]
Viridiflorene	9.54	1640.3	0.03	11.28*	1491.2	[0.27]
epi-Cubebol	11.84	1835.7	0.04	11.28*	1491.2	[0.27]
Bicyclogermacrene	9.88*	1668.7	[0.55]	11.28*	1491.2	[0.27]
Cuparene	10.95*	1757.8	[0.26]	11.38*	1498.1	[0.67]
Germacrene A	10.24*	1697.4	[0.50]	11.38*	1498.1	[0.67]
α-Muurolene	9.88*	1668.7	[0.55]	11.38*	1498.1	[0.67]
Cubebol	12.40	1885.6	0.04	11.53*	1510.0	[0.48]
γ-Cadinene	10.24*	1697.4	[0.50]	11.53*	1510.0	[0.48]
trans-Calamenene	11.07	1768.2	0.08	11.65	1519.4	0.08
δ-Cadinene	10.27*	1700.5	[1.30]	11.68	1521.5	1.39
Selina-4(15),7(11)-	10.46*	1715.7	[0.06]	11.77	1528.6	0.14

diene						
α-Cadinene	10.63*	1730.6	[0.07]	11.84	1534.1	0.10
α-Calacorene	11.98	1847.4	0.01	11.88*	1537.2	[0.07]
Selina-3,7(11)-diene	10.46*	1715.7	[0.06]	11.88*	1537.2	[0.07]
(*E*)-α-Bisabolene	10.63*	1730.6	[0.07]	11.95	1543.4	0.01
α-Elemol	13.89	2024.0	0.02	11.98*	1545.5	[0.04]
Dihydrocaryophyllen-5-one?	12.12	1860.3	0.01	11.98*	1545.5	[0.04]
Germacrene B	10.95*	1757.8	[0.26]	12.04	1550.4	0.26
(*E*)-Nerolidol	13.65	2001.0	0.07	12.22*	1564.5	[0.08]
Caryophyllenyl alcohol	13.54	1990.9	0.02	12.22*	1564.5	[0.08]
Spathulenol	14.23*	2056.8	[0.11]	12.30	1570.8	0.08
Caryophyllene oxide isomer	12.52	1896.2	0.03	12.36*	1575.1	[0.34]
Caryophyllene oxide	12.60	1903.1	0.30	12.36*	1575.1	[0.34]
allo-Cedrol	13.94	2028.9	0.01	12.44	1581.4	0.03
α-Cedrol	14.06	2039.7	0.07	12.56*	1591.3	[0.11]
Widdrol	14.45	2078.4	0.04	12.56*	1591.3	[0.11]
Humulene epoxide II	13.19	1958.1	0.17	12.68	1600.8	0.17
epi-Cedrol	14.64	2096.4	0.03	12.74	1605.8	0.05
Junenol	13.47	1984.3	0.01	12.79	1609.5	0.03
Alismol	15.62	2195.3	0.02	12.95*	1622.7	[0.10]
1-epi-Cubenol	13.61	1996.9	0.08	12.95*	1622.7	[0.10]
α-Acorenol	14.30	2063.4	0.01	12.95*	1622.7	[0.10]
β-Acorenol	14.70	2102.0	0.01	12.97	1624.9	0.02
allo-Aromadendrene epoxide?	13.73	2008.6	0.03	13.06	1632.5	0.02
τ-Cadinol	14.73	2105.4	0.06	13.12*	1636.8	[0.13]
τ-Muurolol	14.89*	2121.4	[0.06]	13.12*	1636.8	[0.13]
Cubenol	13.51	1987.9	0.04	13.12*	1636.8	[0.13]
α-Muurolol	15.02*	2134.8	[0.05]	13.17*	1641.5	[0.05]
β-Eudesmol	15.27	2159.4	0.01	13.17*	1641.5	[0.05]
α-Eudesmol	15.19	2151.6	0.02	13.23	1646.4	0.03
α-Cadinol	15.31*	2163.8	[0.12]	13.26	1648.9	0.08
Cedrenol analog	16.28	2263.7	0.04	13.31	1652.5	0.02
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	16.64*	2301.3	[0.04]	13.47	1665.8	0.03
14-Hydroxy-(*E*)-caryophyllene	16.67	2304.5	0.01	13.55	1672.8	0.02
Germacra-4(15),5,10(14)-trien-1-ol isomer	16.55	2291.8	0.01	13.62	1678.7	0.02
α-Bisabolol	15.23*	2155.7	[0.37]	13.65	1680.9	0.02
Mayurone?	16.96	2335.7	0.01	13.80	1693.8	0.02

Germacra-4(15),5,10(14)-trien-1β-ol?				13.86	1698.5	0.01
β-Turmerone	15.39	2171.9	0.01	13.90	1701.4	0.01
Aromadendrane-4,10-diol	16.64*	2301.3	[0.04]	14.03	1712.8	0.02
Biformene?	15.31*	2163.8	[0.12]	16.31	1916.9	0.02
meta-Camphorene	15.23*	2155.7	[0.37]	16.68	1952.1	0.36
Trachylobane?	16.19	2254.0	0.02	16.95	1977.7	0.03
para-Camphorene	15.67	2200.1	0.14	17.03	1985.4	0.14
18-Norabieta-8,11,13-triene?				17.20	2001.5	0.02
ar-Abietatriene	17.53	2397.7	0.03	17.60	2041.8	0.03
7,13-Abietadiene	17.20	2361.5	0.03	17.84	2065.5	0.03
Sandaracopimarinal?	20.04	2688.2	0.01	18.82	2165.1	0.01
Abieta-7,13-dien-3-one				19.93	2283.8	0.01
Total reported		97.21%			98.81%	

*: 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