

Date : 2023-11-28

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 23K21-PTH01

Customer Identification : Organic Cypress - Spain - CB9107R

Type : Essential Oil

Source : *Cupressus sempervirens*

Customer : Plant Therapy

Checked and approved by:

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

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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 : 2023-11-23

PHYSICOCHEMICAL DATA

Refractive index : 1.4714 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2023-11-22

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
Toluene	0.01	Simple phenolic
Unknown	tr	Alkene
Cyclofenchene	0.01	Monoterpene
Bornylene	0.05	Monoterpene
Tricyclene	0.18	Monoterpene
α -Thujene	0.56	Monoterpene
α -Pinene	52.70	Monoterpene
α -Fenchene	0.60	Monoterpene
Camphene	0.25	Monoterpene
Thuja-2,4(10)-diene	0.03	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.10	Monoterpene
β -Pinene	0.86	Monoterpene
Sabinene	0.76	Monoterpene
Pseudolimonene isomer	0.01	Monoterpene
Myrcene	1.83	Monoterpene
2-Carene	0.01	Monoterpene
α -Phellandrene	0.09	Monoterpene
Pseudolimonene	0.01	Monoterpene
Δ^3 -Carene	22.97	Monoterpene
α -Terpinene	0.31	Monoterpene
<i>meta</i> -Cymene	0.05	Monoterpene
<i>para</i> -Cymene	0.44	Monoterpene
Sylvestrene	0.14	Monoterpene
1,8-Cineole	0.10	Monoterpenic ether
Limonene	2.08	Monoterpene
β -Phellandrene	0.40	Monoterpene
(<i>Z</i>)- β -Ocimene	0.01	Monoterpene
(<i>E</i>)- β -Ocimene	0.03	Monoterpene
Unknown	0.03	Monoterpene
γ -Terpinene	0.58	Monoterpene
<i>cis</i> -Sabinene hydrate	0.01	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
<i>cis</i> -Linalool oxide (fur.)	0.01	Monoterpenic alcohol
<i>meta</i> -Cymenene	0.01	Monoterpene
Terpinolene isomer	0.03	Monoterpene
Isoterpinolene	0.09	Monoterpene
<i>para</i> -Cymenene	0.10	Monoterpene
Terpinolene	2.81	Monoterpene
α -Pinene oxide	0.03	Monoterpenic ether
<i>trans</i> -Sabinene hydrate	0.01	Monoterpenic alcohol

Unknown	0.02	Unknown
Perillene	0.01	Monoterpenic ether
Linalool	0.33	Monoterpenic alcohol
endo-Fenchol	0.03	Monoterpenic alcohol
<i>cis-para</i> -Menth-2-en-1-ol	0.03	Monoterpenic alcohol
4-Hydroxy-4-methylcyclohex-2-enone	0.04	Aliphatic alcohol
<i>trans</i> -Pinocarveol	0.05	Monoterpenic alcohol
Camphor	0.16	Monoterpenic ketone
Epoxyterpinolene	0.07	Monoterpenic ether
Camphene hydrate	0.01	Monoterpenic alcohol
<i>meta</i> -Mentha-4,6-dien-8-ol	0.02	Monoterpenic alcohol
Karahanaenone	0.21	Monoterpenic ketone
Borneol	0.05	Monoterpenic alcohol
α -Phellandren-8-ol	0.02	Monoterpenic alcohol
Umbellulone	0.08	Monoterpenic ketone
Terpinen-4-ol	0.92	Monoterpenic alcohol
<i>meta</i> -Cymen-8-ol	0.02	Monoterpenic alcohol
<i>para</i> -Cymen-8-ol	0.08	Monoterpenic alcohol
Unknown	0.02	Oxygenated monoterpene
α -Terpineol	0.27	Monoterpenic alcohol
Myrtenal	0.05	Monoterpenic aldehyde
Myrtenol	0.03	Monoterpenic alcohol
Unknown	0.06	Oxygenated monoterpene
Verbenone	0.06	Monoterpenic ketone
Unknown	0.01	Unknown
<i>trans</i> -Carveol	0.02	Monoterpenic alcohol
<i>cis</i> -Carveol	0.01	Monoterpenic alcohol
Unknown	0.06	Oxygenated monoterpene
Carvacrol methyl ether	0.03	Monoterpenic ether
Car-3-en-2-one	0.02	Monoterpenic ketone
Linalyl acetate	0.03	Monoterpenic ester
(<i>trans</i> ?) -Linalool oxide acetate (fur.)?	0.05	Monoterpenic ester
Unknown	0.02	Oxygenated monoterpene
Bornyl acetate	0.11	Monoterpenic ester
Cuminol	0.01	Monoterpenic alcohol
Unknown	0.31	Monoterpenic ester
Terpinen-4-yl acetate	0.02	Monoterpenic ester
Thymol analogue II	0.01	Monoterpenic alcohol
Thymol	0.02	Monoterpenic alcohol
Unknown	0.02	Oxygenated monoterpene
Thymol analogue III	0.03	Monoterpenic alcohol
Unknown	0.06	Unknown
Unknown	0.29	Monoterpenic ester
Unknown	0.01	Unknown
α -Terpinyl acetate	2.26	Monoterpenic ester

α-Cubebene	0.14	Sesquiterpene
α-Ylangene	0.02	Sesquiterpene
α-Copaene	0.06	Sesquiterpene
2-epi-α-Funebrene	0.01	Sesquiterpene
β-Bourbonene	0.03	Sesquiterpene
β-Cubebene	0.03	Sesquiterpene
β-Elemene	0.05	Sesquiterpene
Sesquithujene	0.04	Sesquiterpene
β-Funebrene	0.24	Sesquiterpene
α-Cedrene	0.23	Sesquiterpene
β-Cedrene	0.21	Sesquiterpene
β-Caryophyllene	0.23	Sesquiterpene
β-Copaene	0.05	Sesquiterpene
cis-Muuro-la-3,5-diene	0.03	Sesquiterpene
α-Humulene	0.17	Sesquiterpene
cis-Muuro-la-4(15),5-diene	0.10	Sesquiterpene
cis-Cadina-1(6),4-diene	0.03	Sesquiterpene
Unknown	0.01	Sesquiterpene
trans-Cadina-1(6),4-diene	0.03	Sesquiterpene
α-Amorphene	0.18	Sesquiterpene
Germacrene D	0.48	Sesquiterpene
trans-Muuro-la-4(15),5-diene	0.03	Sesquiterpene
β-Alaskene	0.09	Sesquiterpene
Epizonarene	0.06	Sesquiterpene
α-Muuro-lene	0.11	Sesquiterpene
δ-Amorphene	0.02	Sesquiterpene
γ-Cadinene	0.11	Sesquiterpene
α-Alaskene	0.04	Sesquiterpene
δ-Cadinene	0.33	Sesquiterpene
trans-Calamenene	0.02	Sesquiterpene
trans-Cadina-1,4-diene	0.04	Sesquiterpene
α-Cadinene	0.03	Sesquiterpene
α-Calacorene	0.04	Sesquiterpene
Salviadienol?	0.06	Sesquiterpenic alcohol
Caryophyllene oxide	0.04	Sesquiterpenic ether
Caryophyllene oxide isomer	0.01	Sesquiterpenic ether
allo-Cedrol	0.03	Sesquiterpenic alcohol
α-Cedrol	1.17	Sesquiterpenic alcohol
Widdrol	0.01	Sesquiterpenic alcohol
epi-Cedrol	0.01	Sesquiterpenic alcohol
Torilenol	0.03	Oxygenated sesquiterpene
α-Acorenol	0.02	Sesquiterpenic alcohol
1-epi-Cubenol	0.02	Sesquiterpenic alcohol
Unknown	0.05	Unknown
τ-Cadinol	0.02	Sesquiterpenic alcohol

τ -Muurolol	0.02	Sesquiterpenic alcohol
α -Muurolol	0.02	Sesquiterpenic alcohol
α -Cadinol	0.02	Sesquiterpenic alcohol
Unknown	0.04	Unknown
Eudesma-4(15),7-dien-1 β -ol	0.01	Sesquiterpenic alcohol
Manoyl oxide	0.07	Diterpenic ether
Isopimaradiene	0.02	Diterpene
Consolidated total	99.26	

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

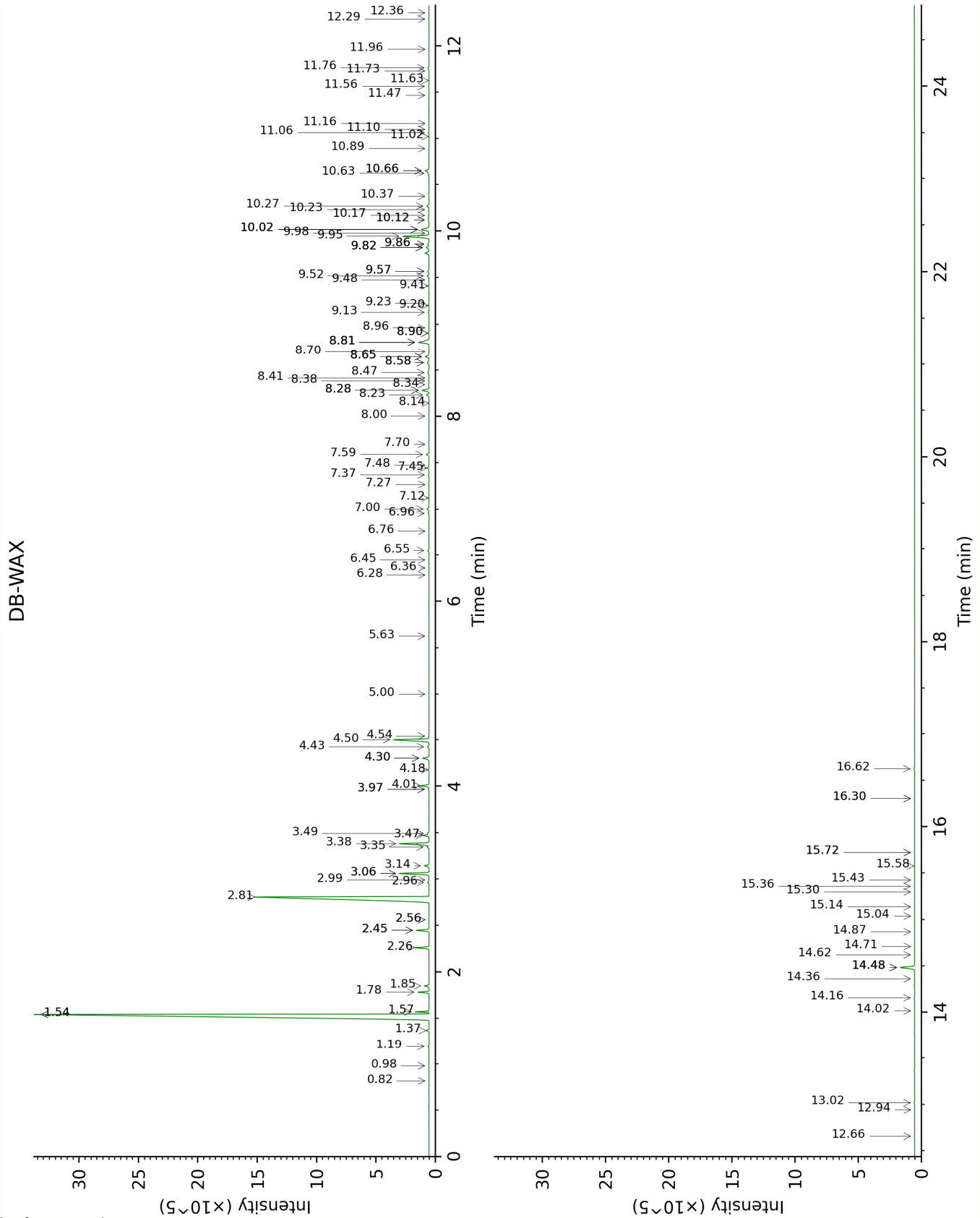
Note: no correction factor was applied

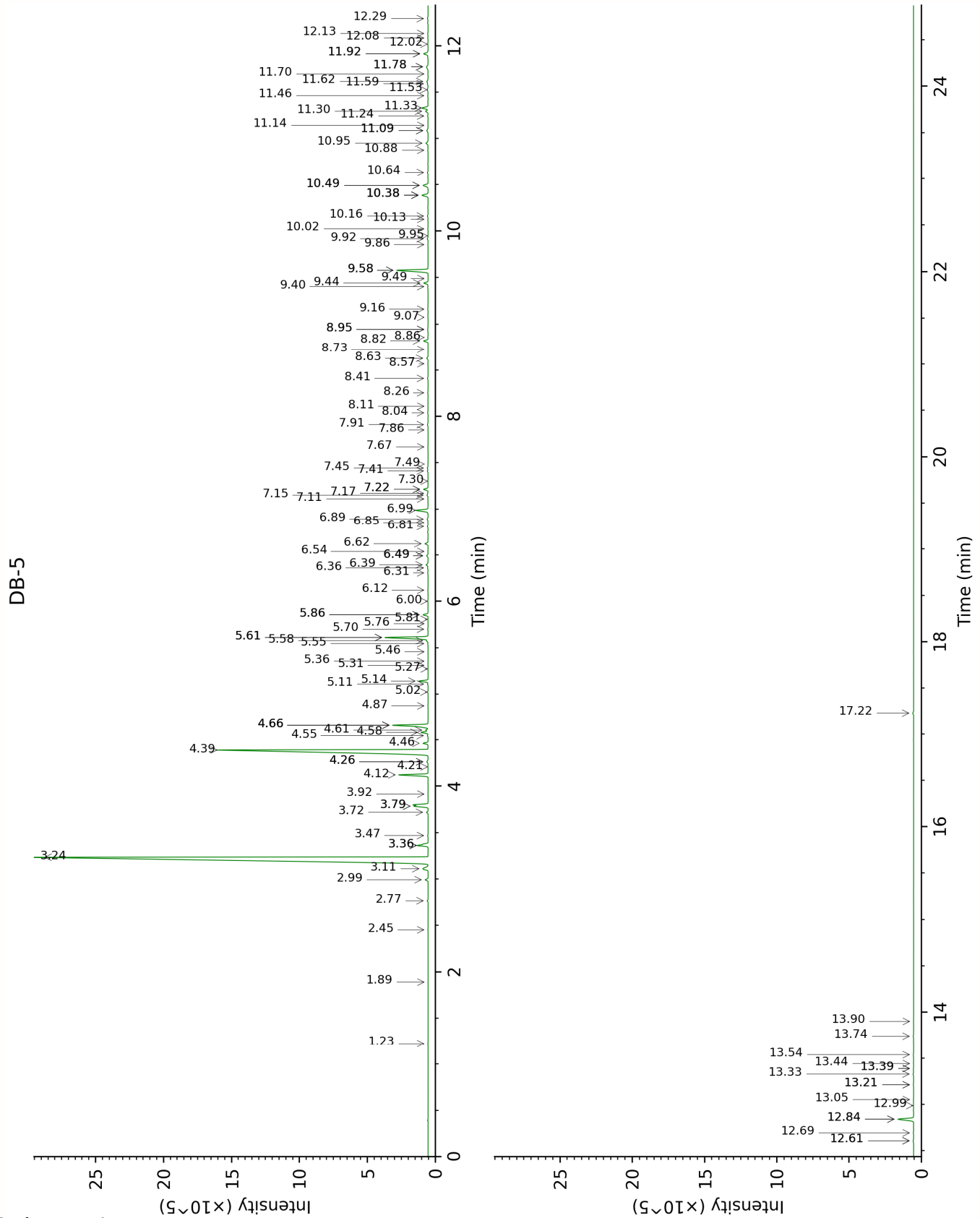
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

Toluene	Column DB-WAX			Column DB-5		
	1.54*	998.9	[52.64]	1.23	759.9	0.01
Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	0.82	879.1	tr	1.89	832.8	tr
Cyclofenchene	0.98	914.8	0.01	2.45	878.9	0.01
Bornylene	1.19	946.4	0.05	2.77	904.5	0.05
Tricyclene	1.37	973.2	0.18	2.99	919.6	0.18
α -Thujene	1.57	1001.6	0.56	3.11	927.3	0.56
α -Pinene	1.54*	998.9	[52.64]	3.24	935.4	52.70
α -Fenchene	1.78	1021.6	0.60	3.36*†	943.8	[0.66]
Camphene	1.85	1027.9	0.25	3.36*†	943.8	[0.66]
Thuja-2,4(10)-diene 3,7,7-	2.45*	1084.4	[0.80]	3.47	950.8	0.03
Trimethylcyclohepta- 1,3,5-triene	3.06*	1133.2	[1.94]	3.72	967.3	0.10
β -Pinene	2.26	1066.7	0.86	3.79*†	971.6	[0.83]
Sabinene	2.45*	1084.4	[0.80]	3.79*†	971.6	[0.83]
Pseudolimonene isomer	2.56*	1095.0	[0.01]	3.92	980.1	0.01
Myrcene	3.06*	1133.2	[1.94]	4.12	993.7	1.83
2-Carene	2.56*	1095.0	[0.01]	4.21	999.4	0.01
α -Phellandrene	2.96	1125.9	0.09	4.26*	1003.0	[0.11]
Pseudolimonene	2.99	1127.9	0.01	4.26*	1003.0	[0.11]
Δ^3 -Carene	2.81	1114.0	22.96	4.39	1011.0	22.97
α -Terpinene	3.14	1139.5	0.30	4.46	1015.5	0.31
<i>meta</i> -Cymene	4.30*	1225.0	[0.49]	4.55	1020.7	0.05
<i>para</i> -Cymene	4.30*	1225.0	[0.49]	4.58	1022.8	0.44
Sylvestrene	3.35	1154.7	0.14	4.61	1024.4	0.14
1,8-Cineole	3.49	1165.8	0.10	4.66*	1027.7	[2.54]
Limonene	3.38	1157.5	2.08	4.66*	1027.7	[2.54]
β -Phellandrene	3.47	1164.2	0.40	4.66*	1027.7	[2.54]
(Z)- β -Ocimene	3.97*	1201.3	[0.04]	4.87	1040.6	0.01
(E)- β -Ocimene	4.18	1216.1	0.04	5.02	1050.4	0.03
Unknown CUSE I [m/z 93, 91 (54), 92 (31), 77 (29), 79 (17), 43 (13), 41 (10), 136 (9)]	3.97*	1201.3	[0.04]	5.11	1055.8	0.03
γ -Terpinene	4.01	1204.1	0.58	5.14	1057.8	0.58
<i>cis</i> -Sabinene hydrate	7.12	1428.7	0.02	5.27	1066.0	0.01
Unknown PIMA I [m/z 79, 93 (60), 43	5.00	1274.3	0.02	5.31	1068.4	0.01

(40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]						
<i>cis</i> -Linalool oxide (fur.)	6.76	1402.0	0.01	5.36	1071.1	0.01
<i>meta</i> -Cymenene	6.45	1379.9	0.02	5.46	1077.5	0.01
Terpinolene isomer	4.54	1241.9	0.02	5.55	1083.0	0.03
Isoterpinolene	4.43	1233.7	0.12	5.58	1085.0	0.09
<i>para</i> -Cymenene	6.55	1387.1	0.10	5.61*	1087.1	[2.92]
Terpinolene	4.50	1239.1	2.81	5.61*	1087.1	[2.92]
α -Pinene oxide	5.63	1321.7	0.03	5.70	1092.6	0.03
<i>trans</i> -Sabinene hydrate	8.14	1504.0	0.01	5.76	1096.3	0.01
Unknown PINI III [m/z 109, 43 (65), 95 (54), 119 (50), 91 (47)... 149 (8)...]	6.28	1368.3	0.02	5.81	1099.3	0.02
Perillene	6.36	1373.7	0.01	5.86*	1102.4	[0.34]
Linalool	8.28*	1514.6	[0.57]	5.86*	1102.4	[0.34]
endo-Fenchol	8.58*	1537.4	[0.16]	6.00	1111.5	0.03
<i>cis-para</i> -Menth-2-en- 1-ol	8.38	1522.3	0.03	6.12	1119.2	0.03
4-Hydroxy-4- methylcyclohex-2- enone	14.36	2030.5	0.02	6.31	1131.0	0.04
<i>trans</i> -Pinocarveol	9.41	1601.4	0.04	6.36	1134.5	0.05
Camphor	7.44	1452.4	0.14	6.40	1136.6	0.16
Epoxyterpinolene	6.96	1416.6	0.07	6.49*	1142.8	[0.10]
Camphene hydrate	8.70	1546.4	0.01	6.49*	1142.8	[0.10]
<i>meta</i> -Mentha-4,6- dien-8-ol	9.57*	1613.9	[0.11]	6.54	1145.8	0.02
Karahanaenone	7.59	1463.1	0.21	6.62	1151.1	0.21
Borneol	10.02*	1649.9	[0.80]	6.81	1163.0	0.05
α -Phellandren-8-ol	10.37	1678.5	0.02	6.85	1165.8	0.02
Umbellulone	9.13	1579.4	0.07	6.89	1168.3	0.08
Terpinen-4-ol	8.81*	1554.7	[1.10]	6.99	1174.4	0.92
<i>meta</i> -Cymen-8-ol	11.73	1791.8	0.02	7.11	1182.2	0.02
<i>para</i> -Cymen-8-ol	11.76	1794.8	0.08	7.15	1184.7	0.08
Unknown JUVI II [m/z 93, 59 (85), 81 (36), 92 (35), 43 (34), 121 (20), 136 (16)...]	9.98	1646.8	0.03	7.17	1186.0	0.02
α -Terpineol	10.02*	1649.9	[0.80]	7.22*	1188.8	[0.31]
Myrtenal	8.90*	1562.2	[0.06]	7.22*	1188.8	[0.31]
Myrtenol	11.10	1738.9	0.02	7.30	1194.4	0.03

Unknown PINI IV [m/z 109, 91 (100), 81 (88), 94 (75), 119 (74), 96 (73), 41 (63)... 150 (2)]	11.06	1735.9	0.05	7.41	1201.4	0.06
Verbenone	9.86*	1637.3	[0.13]	7.44	1203.4	0.06
Unknown PIMA 7 [m/z 95, 93 (32), 121 (24), 79 (22), 91 (21), 105 (16)... 154 (2)]	11.16	1744.3	0.01	7.49	1206.2	0.01
<i>trans</i> -Carveol	11.63	1783.2	0.02	7.67	1218.5	0.02
<i>cis</i> -Carveol	11.96	1812.3	0.01	7.86	1230.7	0.01
Unknown CIAU II [m/z 137, 152 (28), 43 (25), 91 (24), 109 (23), 119 (19)]	11.56	1777.8	0.05	7.91	1234.5	0.06
Carvacrol methyl ether	8.81*	1554.7	[1.10]	8.04	1243.0	0.03
Car-3-en-2-one	10.66*	1701.6	[0.33]	8.11	1247.7	0.02
Linalyl acetate	8.42	1524.8	0.03	8.26	1257.4	0.03
(<i>trans</i> ?) -Linalool oxide acetate (fur.)?	8.90*	1562.2	[0.06]	8.41	1267.8	0.05
Unknown CIAU V [m/z 95, 67 (45), 41 (42), 110 (42), 43 (41), 59 (36)]	12.66	1873.1	0.02	8.57	1278.3	0.02
Bornyl acetate	8.47	1529.3	0.11	8.63	1282.3	0.11
Cuminol	14.48*	2042.1	[1.19]	8.73	1288.9	0.01
Unknown CUSE III [m/z 121, 93 (97), 43 (81), 136 (48), 107 (47), 108 (44)...]	8.81*	1554.7	[1.10]	8.82	1295.1	0.31
Terpinen-4-yl acetate	8.96	1566.6	0.02	8.86	1297.6	0.02
Thymol analogue II	15.58	2149.2	0.01	8.94*	1303.4	[0.06]
Thymol	15.36	2127.3	0.02	8.94*	1303.4	[0.06]
Unknown CUSE IV [m/z 150, 107 (98), 91 (79), 108 (61)]	12.29	1840.9	0.02	9.08	1312.5	0.02
Thymol analogue III				9.16	1318.6	0.03
Unknown CUSE V [m/z 93, 92 (34), 43 (31), 91 (27)...]				9.40	1335.7	0.06
Unknown CUSE VI [m/z 93, 43 (50), 121 (50), 136 (35)...]	9.82*	1634.4	[0.25]	9.44	1338.4	0.29

Unknown CIAU VI [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]				9.49	1341.8	0.01
α -Terpinyl acetate	9.94	1644.2	2.26	9.58*	1348.0	[2.38]
α -Cubebene	7.00	1420.0	0.14	9.58*	1348.0	[2.38]
α -Ylangene	7.27	1439.3	0.01	9.86	1367.4	0.02
α -Copaene	7.37	1447.0	0.06	9.92	1371.8	0.06
2-epi- α -Funebrene	7.48	1454.8	0.02	9.95	1374.0	0.01
β -Bourbonene	7.70	1471.1	0.03	10.02	1379.2	0.03
β -Cubebene	8.00	1493.4	0.02	10.13	1386.5	0.03
β -Elemene	8.65*	1542.4	[0.33]	10.16	1389.0	0.05
Sesquithujene	8.34	1519.3	0.04	10.38*	1404.7	[0.49]
β -Funebrene	8.28*	1514.6	[0.57]	10.38*	1404.7	[0.49]
α -Cedrene	8.23	1510.7	0.23	10.38*	1404.7	[0.49]
β -Cedrene	8.58*	1537.4	[0.16]	10.49*	1412.6	[0.44]
β -Caryophyllene	8.65*	1542.4	[0.33]	10.49*	1412.6	[0.44]
β -Copaene	8.65*	1542.4	[0.33]	10.64	1423.3	0.05
<i>cis</i> -Muuroala-3,5- diene	9.20	1584.9	0.03	10.88	1441.2	0.03
α -Humulene	9.52	1610.0	0.16	10.95	1446.8	0.17
<i>cis</i> -Muuroala-4(15),5- diene	9.57*	1613.9	[0.11]	11.09*	1456.9	[0.12]
<i>cis</i> -Cadina-1(6),4- diene	9.23	1586.9	0.03	11.09*	1456.9	[0.12]
Unknown DACA II [m/z 161, 91 (57), 120 (46), 105 (42), 133 (25), 119 (22), 41 (21), 204 (21)]	9.82*	1634.4	[0.25]	11.14	1461.1	0.01
<i>trans</i> -Cadina-1(6),4- diene	9.48	1606.5	0.03	11.24	1468.6	0.03
α -Amorphene	9.82*	1634.4	[0.25]	11.30	1472.3	0.18
Germacrene D	10.02*	1649.9	[0.80]	11.33	1475.0	0.48
<i>trans</i> -Muuroala- 4(15),5-diene	10.12*	1658.1	[0.11]	11.46	1484.9	0.03
β -Alaskene	9.86*	1637.3	[0.13]	11.53	1489.6	0.09
Epizonarene	10.12*	1658.1	[0.11]	11.59	1494.4	0.06
α -Muurolene	10.27	1670.1	0.20	11.62	1496.2	0.11
δ -Amorphene	10.17	1662.2	0.05	11.70	1502.2	0.02
γ -Cadinene	10.63	1699.4	0.11	11.78*	1508.2	[0.19]
α -Alaskene	10.23	1667.0	0.04	11.78*	1508.2	[0.19]
δ -Cadinene	10.66*	1701.6	[0.33]	11.92*	1519.2	[0.36]
<i>trans</i> -Calamenene	11.47	1769.7	0.02	11.92*	1519.2	[0.36]
<i>trans</i> -Cadina-1,4-	10.90	1721.7	0.03	12.02	1527.3	0.04

diene						
α-Cadinene	11.02	1732.4	0.02	12.08	1532.4	0.03
α-Calacorene	12.36	1846.8	0.02	12.13	1536.3	0.04
Salviadienol?	14.62	2055.1	0.03	12.29	1548.8	0.06
Caryophyllene oxide	13.02	1905.5	0.04	12.61*	1573.4	[0.05]
Caryophyllene oxide isomer	12.94	1898.4	0.01	12.61*	1573.4	[0.05]
allo-Cedrol	14.48*	2042.1	[1.19]	12.69	1580.1	0.03
α-Cedrol	14.48*	2042.1	[1.19]	12.84*	1591.7	[1.19]
Widdrol	14.87	2078.9	0.01	12.84*	1591.7	[1.19]
epi-Cedrol	15.04	2095.3	0.01	12.99	1603.2	0.01
Torilenol	15.72*	2163.6	[0.05]	13.05	1608.4	0.03
α-Acorenol	14.71	2063.8	0.02	13.21*	1621.6	[0.03]
1-epi-Cubenol	14.02	1997.4	0.02	13.21*	1621.6	[0.03]
Unknown SCTE X [m/z 43, 93 (89), 91 (88), 79 (87), 123 (76), 81 (75)...]	14.16	2010.8	0.05	13.33	1631.1	0.05
τ-Cadinol	15.14	2105.2	0.02	13.39*	1636.1	[0.03]
τ-Muurolol	15.30	2121.2	0.02	13.39*	1636.1	[0.03]
α-Muurolol	15.43	2134.0	0.01	13.44	1640.5	0.02
α-Cadinol	15.72*	2163.6	[0.05]	13.54	1648.5	0.02
Unknown CUSE VIII [m/z 85, 57 (59), 79 (26), 67 (18), 41 (16), 80 (15), 81 (10), 77 (8), 238 (7)]				13.74	1665.4	0.04
Eudesma-4(15),7- dien-1β-ol	16.30*	2223.0	[0.03]	13.90	1678.5	0.01
Manoyl oxide	16.62	2256.3	0.06	17.22	1975.9	0.07
Isopimaradiene	16.30*	2223.0	[0.03]			
Total reported		98.52%			99.25%	

*: 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