

Date : 2024-10-28

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 24J11-PTH04

Customer Identification : Black Spruce - Canada - SA5111R

Type : Essential Oil

Source : *Picea mariana*

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 : 2024-10-22

PHYSICOCHEMICAL DATA

Refractive index : 1.4702 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2024-10-15

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	tr	Aliphatic alcohol
Toluene	0.02	Simple phenolic
Hexanal	tr	Aliphatic aldehyde
Octane	tr	Alkane
Hexanol	0.01	Aliphatic alcohol
Santene	1.23	Normonoterpene
Unknown	0.04	Normonoterpene
Bornylene	0.02	Monoterpene
Unknown	0.02	Unknown
Tricyclene	1.61	Monoterpene
α -Thujene	0.13	Monoterpene
α -Pinene	20.75	Monoterpene
Unknown	0.03	Unknown
Camphene	12.10	Monoterpene
α -Fenchene	0.18	Monoterpene
Thuja-2,4(10)-diene	0.03	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.04	Monoterpene
β -Pinene	10.44	Monoterpene
Sabinene	0.04	Monoterpene
2-Pentylfuran	0.02	Furan
Myrcene	1.76	Monoterpene
2-Carene	0.02	Monoterpene
Pseudolimonene	0.02	Monoterpene
α -Phellandrene	0.19	Monoterpene
Octanal	0.01	Aliphatic aldehyde
Unknown	0.02	Oxygenated monoterpene
Δ^3 -Carene	10.01	Monoterpene
α -Terpinene	0.31	Monoterpene
<i>meta</i> -Cymene	0.01	Monoterpene
Carvomenthene	0.02	Aliphatic alcohol
<i>para</i> -Cymene	0.31	Monoterpene
β -Phellandrene	0.77	Monoterpene
Limonene	6.31	Monoterpene
1,8-Cineole	0.02	Monoterpenic ether
(<i>Z</i>)- β -Ocimene	0.02	Monoterpene
(<i>E</i>)- β -Ocimene	0.01	Monoterpene
γ -Terpinene	0.19	Monoterpene
Unknown	0.04	Oxygenated monoterpene
<i>meta</i> -Cymenene	0.04	Monoterpene
Isoterpinolene	0.03	Monoterpene

Fenchone	0.02	Monoterpenic ketone
Terpinolene	1.01	Monoterpene
<i>para</i> -Cymenene	0.13	Monoterpene
α -Pinene oxide	0.02	Monoterpenic ether
Linalool	0.29	Monoterpenic alcohol
endo-Fenchol	0.09	Monoterpenic alcohol
α -Campholenal	0.06	Monoterpenic aldehyde
<i>trans</i> -Pinocarveol	0.08	Monoterpenic alcohol
Camphor	0.07	Monoterpenic ketone
Camphene hydrate	0.11	Monoterpenic alcohol
Isoborneol	0.11	Monoterpenic alcohol
Pinocamphone	0.02	Monoterpenic ketone
Unknown	0.03	Unknown
Borneol	0.90	Monoterpenic alcohol
Unknown	0.02	Unknown
Isopinocamphone	0.04	Monoterpenic ketone
Terpinen-4-ol	0.20	Monoterpenic alcohol
Cryptone	0.02	Normoterpenic ketone
<i>meta</i> -Cymen-8-ol	0.02	Monoterpenic alcohol
<i>para</i> -Cymen-8-ol	0.04	Monoterpenic alcohol
Myrtenal	0.04	Monoterpenic aldehyde
α -Terpineol	0.93	Monoterpenic alcohol
Myrtenol	0.05	Monoterpenic alcohol
Methylchavicol	0.02	Phenylpropanoid
Verbenone	0.03	Monoterpenic ketone
Unknown	0.04	Unknown
endo-Fenchyl acetate	0.14	Monoterpenic ester
<i>trans</i> -Carveol	0.01	Monoterpenic alcohol
Citronellol	0.07	Monoterpenic alcohol
Carvone	0.01	Monoterpenic ketone
Piperitone	0.03	Monoterpenic ketone
Geraniol	0.01	Monoterpenic alcohol
Geranial	0.01	Monoterpenic aldehyde
Unknown	0.01	Unknown
Undec-(5Z)-en-2-one	0.03	Aliphatic ketone
Isobornyl acetate	0.44	Monoterpenic ester
Unknown	0.09	Unknown
<i>cis</i> -Verbenyl acetate	0.07	Monoterpenic ester
Bornyl acetate	24.37	Monoterpenic ester
Unknown	0.06	Monoterpenic ester
<i>trans</i> -Pinocarvyl acetate	0.06	Monoterpenic ester
Myrtenyl acetate	0.02	Monoterpenic ester
Terpinyl acetate analog	0.04	Monoterpenic ester
<i>trans</i> -Carvyl acetate	0.02	Monoterpenic ester
exo-2-Hydroxycineole acetate	0.01	Monoterpenic ester

Unknown	0.02	Unknown
α -Terpinyl acetate	0.04	Monoterpenic ester
Citronellyl acetate	0.04	Monoterpenic ester
Longicyclene	0.02	Sesquiterpene
Unknown	0.02	Oxygenated monoterpene
α -Copaene	0.02	Sesquiterpene
Geranyl acetate	0.22	Monoterpenic ester
β -Elemene	0.04	Sesquiterpene
Longifolene	0.09	Sesquiterpene
β -Caryophyllene	0.12	Sesquiterpene
β -Copaene	0.01	Sesquiterpene
<i>cis</i> -Muuroala-3,5-diene	0.01	Sesquiterpene
<i>trans</i> -Muuroala-3,5-diene	0.01	Sesquiterpene
α -Humulene	0.03	Sesquiterpene
Unknown	0.04	Unknown
<i>trans</i> -Cadina-1(6),4-diene	0.05	Sesquiterpene
γ -Muurolene	0.07	Sesquiterpene
Germacrene D	0.02	Sesquiterpene
β -Selinene	0.02	Sesquiterpene
<i>trans</i> -Muuroala-4(15),5-diene	0.02	Sesquiterpene
α -Selinene	0.04	Sesquiterpene
α -Muurolene	0.15	Sesquiterpene
γ -Cadinene	0.18	Sesquiterpene
(3 <i>E</i> ,6 <i>E</i>)- α -Farnesene	tr	Sesquiterpene
Cubebol	0.01	Sesquiterpenic alcohol
δ -Cadinene	0.60	Sesquiterpene
<i>trans</i> -Calamenene	0.06	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.02	Sesquiterpene
α -Cadinene	0.04	Sesquiterpene
α -Calacorene	0.03	Sesquiterpene
Unknown	0.08	Oxygenated sesquiterpene
(<i>E</i>)- α -Bisabolene	0.01	Sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Globulol	0.01	Sesquiterpenic alcohol
1,10-diepi-Cubenol	0.02	Sesquiterpenic alcohol
1-epi-Cubenol	0.03	Sesquiterpenic alcohol
Cubenol	0.02	Sesquiterpenic alcohol
τ -Muurolol	0.10	Sesquiterpenic alcohol
τ -Cadinol	0.11	Sesquiterpenic alcohol
α -Muurolol	0.03	Sesquiterpenic alcohol
α -Cadinol	0.17	Sesquiterpenic alcohol
Unknown	0.02	Aliphatic ester
Unknown	0.02	Oxygenated sesquiterpene
Amorpha-4,9-dien-2-ol	0.02	Sesquiterpenic alcohol

(5Z)-Tetradecen-14-olide?	0.02	Aliphatic lactone
Unknown	0.02	Oxygenated sesquiterpene
<i>meta</i> -Camphorene	0.02	Diterpene
Unknown	0.01	Oxygenated diterpene
Manoyl oxide	0.01	Diterpenic ether
Unknown	0.02	Diterpene
13-epi-Manoyl oxide	0.01	Diterpenic ether
(<i>E,E</i>)-Geranylinalool	0.01	Diterpenic alcohol
Manool	0.03	Diterpenic alcohol
(<i>Z</i>)-Abienol	0.03	Diterpenic alcohol
Palustral	0.01	Diterpenic aldehyde
Consolidated total	99.65	

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

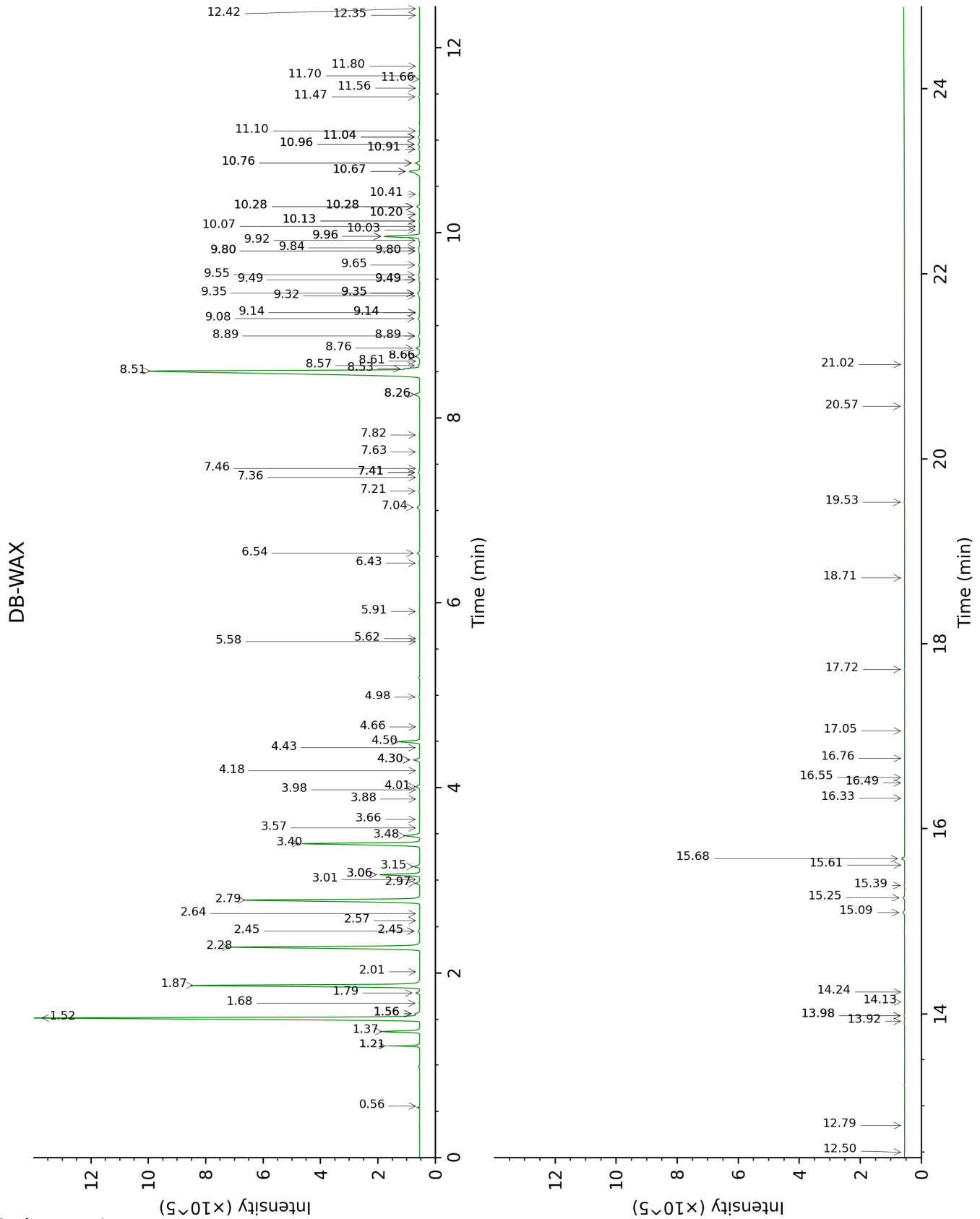
Note: no correction factor was applied

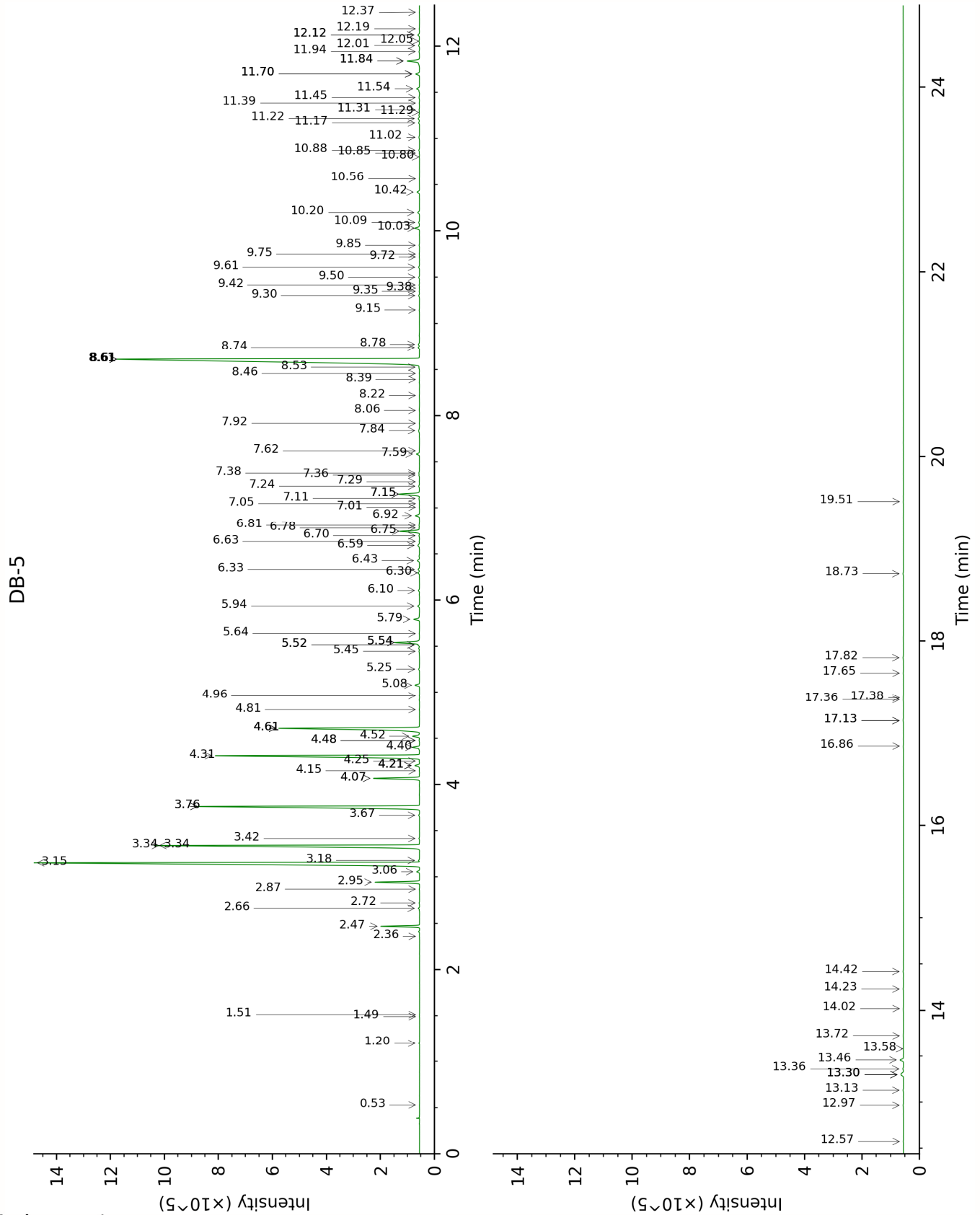
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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





FULL ANALYSIS DATA

2-Methyl-3-buten-2-ol	Column DB-WAX			Column DB-5		
	1.68	1011.5	0.03	0.53	605.9	tr
Toluene	1.56*†	1000.7	[0.21]	1.20	758.2	0.02
Hexanal	2.01	1043.9	0.01	1.49	799.2	tr
Octane	0.56	782.4	tr	1.51	802.1	tr
Hexanol	5.62	1319.9	0.02	2.36	873.0	0.01
Santene	1.21*	949.1	[1.27]	2.47	882.0	1.23
Unknown ABBA I [m/z 79, 93 (66), 94 (52), 91 (39), 77 (37), 122 (31)]	1.56*†	1000.7	[0.21]	2.66	898.1	0.04
Bornylene	1.21*	949.1	[1.27]	2.72	902.9	0.02
Unknown PIMA XXI [m/z 43, 59 (71), 44 (40), 85 (30), 41 (28), 45 (27)...]				2.87	912.9	0.02
Tricyclene	1.37	973.6	1.61	2.95	917.9	1.61
α-Thujene	1.56*†	1000.7	[0.21]	3.06	925.4	0.13
α-Pinene	1.52*†	996.2	[20.75]	3.16	931.8	20.75
Unknown PIMA XX [m/z 43, 73 (38), 85 (29), 72 (28), 57 (26)...]				3.18	933.4	0.03
Camphene	1.87	1030.0	12.10	3.34*	944.1	[12.29]
α-Fenchene	1.79	1022.1	0.18	3.34*	944.1	[12.29]
Thuja-2,4(10)-diene	2.45*	1085.6	[0.09]	3.42	949.1	0.03
3,7,7-Trimethylcyclohepta-1,3,5-triene	3.06*	1134.0	[1.82]	3.67	965.7	0.04
β-Pinene	2.28	1069.3	10.44	3.76*	972.0	[10.48]
Sabinene	2.45*	1085.6	[0.09]	3.76*	972.0	[10.48]
2-Pentylfuran	3.88	1195.4	0.02	4.07*	992.1	[1.78]
Myrcene	3.06*	1134.0	[1.82]	4.07*	992.1	[1.78]
2-Carene	2.57	1096.3	0.02	4.15	997.5	0.02
Pseudolimonene	3.01	1130.0	0.02	4.21*	1001.3	[0.21]
α-Phellandrene	2.97	1126.9	0.19	4.21*	1001.3	[0.21]
Octanal	4.66	1249.9	0.01	4.21*	1001.3	[0.21]
Unknown PIMA 12 [m/z 109, 81 (35), 43 (34), 69 (33), 67 (29), 152 (29)]	3.66	1178.9	0.03	4.26	1004.5	0.02
Δ ³ -Carene	2.79	1113.2	10.01	4.31	1008.0	10.01
α-Terpinene	3.15	1140.5	0.30	4.40	1013.8	0.31
meta-Cymene	4.30*	1225.1	[0.31]	4.48*	1018.3	[0.03]

Carvomenthene	2.64	1102.1	0.02	4.48*	1018.3	[0.03]
<i>para</i> -Cymene	4.30*	1225.1	[0.31]	4.52	1021.2	0.31
β -Phellandrene	3.48	1165.6	0.77	4.61*	1026.6	[7.06]
Limonene	3.40	1159.2	6.31	4.61*	1026.6	[7.06]
1,8-Cineole	3.57	1172.0	0.02	4.61*	1026.6	[7.06]
(<i>Z</i>)- β -Ocimene	3.98	1202.4	0.01	4.81	1039.3	0.02
(<i>E</i>)- β -Ocimene	4.18	1216.9	0.02	4.96	1048.9	0.01
γ -Terpinene	4.01	1204.8	0.20	5.08	1056.2	0.19
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.98	1272.8	0.04	5.25	1067.1	0.04
<i>meta</i> -Cymenene	6.43	1378.1	0.04	5.45	1079.2	0.04
Isoterpinolene	4.43	1234.2	0.03	5.52*	1083.5	[0.05]
Fenchone	5.91	1340.8	0.02	5.52*	1083.5	[0.05]
Terpinolene	4.50	1238.8	1.01	5.54*	1085.2	[1.16]
<i>para</i> -Cymenene	6.54	1385.8	0.13	5.54*	1085.2	[1.16]
α -Pinene oxide	5.58	1317.6	0.01	5.64	1091.2	0.02
Linalool	8.26*	1513.5	[0.35]	5.79	1100.9	0.29
endo-Fenchol	8.57	1537.6	0.07	5.94	1109.9	0.09
α -Campholenal	7.21	1435.6	0.05	6.10	1120.7	0.06
<i>trans</i> -Pinocarveol	9.35*	1598.5	[0.14]	6.30	1132.9	0.08
Camphor	7.41*	1450.4	[0.07]	6.33	1135.3	0.07
Camphene hydrate	8.66*	1545.2	[0.27]	6.43	1141.4	0.11
Isoborneol	9.55	1614.4	0.10	6.59	1151.8	0.11
Pinocamphone	7.46	1453.7	0.02	6.64	1154.6	0.02
Unknown RUGR II [m/z 58, 43 (86), 96 (29), 71 (28), 59 (22), 41 (21), 57 (20)...]	10.91*	1725.6	[0.05]	6.70	1158.6	0.03
Borneol	9.96*	1647.8	[1.84]	6.75	1161.7	0.90
Unknown PIMA 4 [m/z 109, 108 (48), 67 (41), 81 (40), 41 (28)...]	7.64	1466.9	0.02	6.78	1164.0	0.02
Isopinocamphone	7.82	1480.4	0.02	6.81	1166.0	0.04
Terpinen-4-ol	8.76	1552.7	0.20	6.92	1172.8	0.20
Cryptone	9.35*	1598.5	[0.14]	7.01	1178.6	0.02
<i>meta</i> -Cymen-8-ol	11.66	1789.2	0.01	7.05	1181.1	0.02
<i>para</i> -Cymen-8-ol	11.70	1792.3	0.03	7.11	1184.7	0.04
Myrtenal	8.89*	1562.8	[0.09]	7.15*	1187.7	[0.97]
α -Terpineol	9.96*	1647.8	[1.84]	7.15*	1187.7	[0.97]
Myrtenol	11.04*	1736.6	[0.08]	7.24	1193.2	0.05
Methylchavicol	9.50*	1610.0	[0.05]	7.29	1196.2	0.02

Verbenone	9.80*	1635.1	[0.07]	7.36	1200.9	0.03
Unknown PIMA 7 [m/z 95, 93 (32), 121 (24), 79 (22), 91 (21), 105 (16)... 154 (2)]	11.10	1742.1	0.03	7.38	1202.3	0.04
endo-Fenchyl acetate	7.04	1422.6	0.17	7.59	1216.0	0.14
trans-Carveol	11.56	1781.1	0.01	7.62	1218.3	0.01
Citronellol	10.96*	1729.9	[0.08]	7.84	1232.9	0.07
Carvone	10.20*	1666.9	[0.05]	7.92	1238.2	0.01
Piperitone	10.07	1656.4	0.02	8.06	1247.5	0.03
Geraniol	11.80	1801.5	0.02	8.22	1258.3	0.01
Geranial	10.28*	1673.5	[0.19]	8.39	1269.9	0.01
Unknown PIMA 5 [m/z 43, 119 (72), 81 (66), 54 (48), 41 (47), 58 (44)...]				8.46	1274.3	0.01
Undec-(5Z)-en-2-one	9.14*	1582.2	[0.04]	8.53	1278.8	0.03
Isobornyl acetate	8.53	1534.9	0.44	8.61*	1284.6	[24.98]
Unknown PIMA 13 [m/z 119, 43 (87), 91 (78), 92 (70), 134 (50)...]	9.08	1577.2	0.09	8.61*	1284.6	[24.98]
cis-Verbenyl acetate	8.89*	1562.8	[0.09]	8.61*	1284.6	[24.98]
Bornyl acetate	8.51	1533.0	24.37	8.61*	1284.6	[24.98]
Unknown PIMA 6 [m/z 107, 43 (76), 150 (42), 91 (28), 108 (23)]	9.35*	1598.5	[0.14]	8.74	1293.3	0.06
trans-Pinocarvyl acetate	9.32	1596.2	0.05	8.78	1295.7	0.06
Myrtenyl acetate	9.80*	1635.1	[0.07]	9.15	1321.5	0.02
Terpinyl acetate analog	9.80*	1635.1	[0.07]	9.30	1332.4	0.04
trans-Carvyl acetate	10.41	1684.3	0.03	9.35	1335.7	0.02
exo-2- Hydroxycineole acetate	10.28*	1673.5	[0.19]	9.38	1338.1	0.01
Unknown CIAU VI [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]				9.42	1340.4	0.02
α-Terpinyl acetate	9.92	1644.2	0.05	9.50	1346.4	0.04
Citronellyl acetate	9.65	1622.9	0.07	9.61	1354.0	0.04
Longicyclene	7.36	1446.5	0.01	9.72	1361.7	0.02

Unknown PIMA 8 [m/z 93, 121 (68), 43 (67), 67 (44), 136 (36), 107 (34)... 180 (4)]	10.28*	1673.5	[0.19]	9.75	1364.0	0.02
α -Copaene	7.41*	1450.4	[0.07]	9.84	1370.6	0.02
Geranyl acetate	10.76*	1712.9	[0.23]	10.03	1383.6	0.22
β -Elemene	8.66*	1545.2	[0.27]	10.09	1387.9	0.04
Longifolene	8.26*	1513.5	[0.35]	10.20	1395.5	0.09
β -Caryophyllene	8.66*	1545.2	[0.27]	10.42	1411.4	0.12
β -Copaene	8.61	1541.2	0.01	10.56	1422.2	0.01
<i>cis</i> -Muurolo-3,5-diene	9.14*	1582.2	[0.04]	10.80	1440.2	0.01
<i>trans</i> -Muurolo-3,5-diene	9.14*	1582.2	[0.04]	10.85	1443.4	0.01
α -Humulene	9.50*	1610.0	[0.05]	10.88	1445.6	0.03
Unknown PIMA 9 [m/z 95, 43 (94), 79 (93), 91 (71), 93 (65), 177 (54), 41 (52)...]	11.04*	1736.6	[0.08]	11.02	1456.0	0.04
<i>trans</i> -Cadina-1(6),4-diene	9.50*	1610.0	[0.05]	11.17	1467.6	0.05
γ -Muurolole	9.84	1637.8	0.07	11.22	1471.0	0.07
Germacrene D	10.03	1653.2	0.05	11.28	1476.0	0.02
β -Selinene	10.13*	1661.1	[0.06]	11.31	1478.1	0.02
<i>trans</i> -Muurolo-4(15),5-diene	10.13*	1661.1	[0.06]	11.39	1483.5	0.02
α -Selinene	10.20*	1666.9	[0.05]	11.45	1488.0	0.04
α -Muurolole	10.28*	1673.5	[0.19]	11.54	1495.1	0.15
γ -Cadinene	10.67*	1705.3	[0.79]	11.70*	1507.2	[0.18]
(3E,6E)- α -Farnesene	10.76*	1712.9	[0.23]	11.70*	1507.2	[0.18]
Cubebol	12.79	1888.7	0.01	11.70*	1507.2	[0.18]
δ -Cadinene	10.67*	1705.3	[0.79]	11.84*	1518.2	[0.67]
<i>trans</i> -Calamenene	11.47	1773.2	0.06	11.84*	1518.2	[0.67]
<i>trans</i> -Cadina-1,4-diene	10.91*	1725.6	[0.05]	11.94	1526.2	0.02
α -Cadinene	11.04*	1736.6	[0.08]	12.01	1531.3	0.04
α -Calacorene	12.35	1849.9	0.03	12.06	1535.0	0.03
Unknown PIMA XXVII [m/z 105, 43 (62), 109 (55), 161 (51), 93 (51), 81 (36)...220 (6)]				12.12*	1540.3	[0.09]
(E)- α -Bisabolene	10.96*	1729.9	[0.08]	12.12*	1540.3	[0.09]
Unknown PIMA XV [m/z 95, 81 (70), 109 (68), 93 (59), 67 (53),	12.42	1856.4	0.02	12.19	1545.5	0.02

41 (49), 139 (40)... 220 (3)]						
Unknown LESC I [m/z 93, 135 (99), 107 (72), 177 (72), 81 (57), 149 (53)... 220 (25)]	12.50	1863.2	0.01	12.37	1559.5	0.01
Globulol	14.13	2013.1	0.01	12.58	1575.8	0.01
1,10-diepi-Cubenol	13.98*	1998.8	[0.03]	12.97	1606.8	0.02
1-epi-Cubenol	13.98*	1998.8	[0.03]	13.13	1620.2	0.03
Cubenol	13.92	1993.0	0.02	13.30*	1634.2	[0.20]
τ -Muurolol	15.25	2122.0	0.10	13.30*	1634.2	[0.20]
τ -Cadinol	15.09	2106.1	0.11	13.30*	1634.2	[0.20]
α -Muurolol	15.39	2135.3	0.03	13.36	1639.3	0.03
α -Cadinol	15.68	2164.2	0.17	13.46	1647.4	0.17
Unknown HULU VI [m/z 79, 43 (66), 67 (59), 80 (56), 41 (41), 81 (37), 55 (29)...]	14.24	2023.3	0.02	13.58	1657.3	0.02
Unknown PIMA XVI [m/z 177, 159 (98), 93 (94), 136 (84), 121 (68), 135 (65), 91 (57)... 220 (23)]				13.72	1669.4	0.02
Amorpha-4,9-dien-2- ol	17.05	2306.5	0.02	14.02	1693.8	0.02
(5Z)-Tetradecen-14- olide?				14.23	1711.7	0.02
Unknown PIMA 11 [m/z 159, 132 (79), 135 (37), 91 (35), 177 (33)... 220 (16)]	17.72	2378.6	0.03	14.42	1728.1	0.02
<i>meta</i> -Camphorene	15.61	2157.2	0.01	16.86	1947.8	0.02
Unknown PISI V [m/z 105, 91 (100), 81 (89), 79 (86), 109 (86), 257 (83)... 275 (12)...]	16.33	2230.6	0.01	17.13*	1974.0	[0.03]
Manoyl oxide	16.76	2275.2	0.01	17.13*	1974.0	[0.03]
Unknown PISI IV [m/z 257, 258 (20), 91 (19), 272 (18)]	16.49	2247.8	0.01	17.36	1995.9	0.02
13-epi-Manoyl oxide	16.55	2253.7	0.01	17.38	1997.7	0.01
(<i>E,E</i>)-Geranylinalool	18.71	2488.3	0.01	17.65	2024.3	0.01
Manool	19.53	2583.4	0.03	17.82	2041.0	0.03
(<i>Z</i>)-Abienol	20.57	2707.5	0.02	18.73	2132.4	0.03
Palustral	21.02	2763.2	0.01	19.51	2214.4	0.01

Total reported	99.30%	99.58%
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*: 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