

Date : May 03, 2022

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 22D19-NSO01

Customer identification : Balsam Poplar - Canada - 9274M

Type : Essential oil

Source : *Populus balsamifera*

Customer : Natural Sourcing LLC

ANALYSIS

Method: PC-MAT-014  - Analysis of the composition of an essential oil or other volatile liquid by FAST GC-FID (in French); identifications validated by GC-MS.

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

Analysis date : April 21, 2022

Checked and 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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.

PHYSICOCHEMICAL DATA

Physical aspect: Light yellow liquid

Refractive index: 1.4972 ± 0.0003 (20 °C; method PC-MAT-016)

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
(E)-2-Methyl-1,3-pentadiene	tr	Alkene
2-Methylbutanenitrile	tr	Aliphatic nitrile
Toluene	tr	Simple phenolic
Methyl isovalerate	0.01	Aliphatic ester
Isovaleric acid	0.01	Aliphatic acid
Styrene	0.26	Simple phenolic
α-Pinene	0.44	Monoterpene
α-Fenchene	0.01	Monoterpene
Camphene	0.03	Monoterpene
Benzaldehyde	0.01	Simple phenolic
β-Pinene	0.03	Monoterpene
Unknown	0.01	Unknown
Unknown	0.01	Monoterpene
1,2-Cyclohexanedione	0.06	Aliphatic ketone
Myrcene	0.11	Monoterpene
2-Pentylfuran	0.01	Furan
Phenol	0.01	Simple phenolic
α-Phellandrene	0.02	Monoterpene
ortho-Methylanisole	0.04	Simple phenolic
α-Terpinene	0.18	Monoterpene
para-Cymene	0.13	Monoterpene
Limonene	0.36	Monoterpene
1,8-Cineole	2.39	Monoterpenic ether
Benzyl alcohol	0.02	Simple phenolic
(E)-β-Ocimene	0.01	Monoterpene
γ-Terpinene	0.41	Monoterpene
Acetophenone	0.03	Simple phenolic
Terpinolene	0.09	Monoterpene
para-Cymenene	0.01	Monoterpene
Methyl benzoate	0.01	Phenolic ester
Linalool	0.06	Monoterpenic alcohol
endo-Fenchol	0.02	Monoterpenic alcohol
(E)-4,8-Dimethylnona-1,3,7-triene	0.01	Terpene derivative
Limona ketone	0.01	Normonoterpenic ketone
ortho-Vinylanisole	0.01	Simple phenolic
Phenoprene	0.01	Simple phenolic
3-Methylindene?	0.01	Miscellaneous
para-Vinylanisole	0.01	Simple phenolic
Borneol	0.05	Monoterpenic alcohol
Benzyl acetate	0.03	Phenolic ester
Terpinen-4-ol	0.25	Monoterpenic alcohol
α-Terpineol	0.49	Monoterpenic alcohol
Safranal	0.03	Monoterpenic aldehyde
Isoamyl tiglate	0.01	Aliphatic ester

β-Cyclocitral	0.06	Monoterpenic aldehyde
Coumaran	0.02	Simple phenolic
Benzylacetone	0.09	Simple phenolic
Geraniol	0.01	Monoterpenic alcohol
Methyl 2-methylnonanoate?	0.01	Aliphatic ester
Unknown	0.08	Aliphatic ester
Cogeijerene	0.01	Terpene derivative
Unknown	0.01	Unknown
Methyl 8-methylnonanoate	0.04	Aliphatic ester
Unknown	0.03	Sesquiterpene
Unknown	0.02	Aliphatic ester
Unknown	0.01	Sesquiterpene
Bicycloax-4(15)-ene	0.04	Sesquiterpene
Methyl 4,8-dimethylnonanoate?	0.02	Aliphatic ester
Ethyl hydrocinnamate	0.01	Phenylpropanoid ester
African-1-ene	0.02	Sesquiterpene
Cyclosativene II	0.03	Sesquiterpene
α-Ylangene	0.99	Sesquiterpene
α-Copaene	0.62	Sesquiterpene
2-epi-α-Funebrene	0.06	Sesquiterpene
Unknown	0.16	Sesquiterpene
Unknown	tr	Sesquiterpene
Unknown	0.06	Sesquiterpene
Sativene	0.06	Sesquiterpene
Benzyl isovalerate	0.06	Phenolic ester
α-Funebrene	0.15	Sesquiterpene
Unknown	0.02	Sesquiterpene
Acora-3,7(14)-diene	0.40	Sesquiterpene
α-Cedrene	0.19	Sesquiterpene
β-Cedrene	0.02	Sesquiterpene
Unknown	0.73	Sesquiterpene
β-Caryophyllene	0.15	Sesquiterpene
Cascarilladiene	0.08	Sesquiterpene
β-Gurjunene	0.01	Sesquiterpene
Unknown	0.10	Sesquiterpene
<i>trans</i> -α-Bergamotene	3.00	Sesquiterpene
Unknown	0.03	Sesquiterpene
1,2,2α,3,3,4,6,7,8,8α-Decahydro-2α,7,8-trimethylacenaphthylene	0.31	Sesquiterpene
6,9-Guaiadiene	0.47	Sesquiterpene
Cadina-4,11-diene	0.07	Sesquiterpene
α-Humulene	0.52	Sesquiterpene
Unknown	0.08	Sesquiterpene
allo-Aromadendrene	0.59	Sesquiterpene
α-Acoradiene	0.66	Sesquiterpene
(<i>E</i>)-β-Farnesene	2.01	Sesquiterpene
β-Acoradiene	0.10	Sesquiterpene
β-Santalene	0.28	Sesquiterpene
Ethyl (<i>E</i>)-cinnamate	0.03	Phenylpropanoid ester
10-epi-β-Acoradiene	0.20	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.72	Sesquiterpene
Selina-4,11-diene	0.20	Sesquiterpene

γ-Murolene	1.17	Sesquiterpene
α-Amorphene	3.50	Sesquiterpene
cis-4,10-Epoxyamorphane	2.54	Sesquiterpenic ether
γ-Curcumene	0.39	Sesquiterpene
β-Selinene	0.56	Sesquiterpene
α-Curcumene	1.12	Sesquiterpene
δ-Selinene	0.50	Sesquiterpene
Epizonarene	1.82	Sesquiterpene
Unknown	0.49	Sesquiterpene
α-Zingiberene	0.09	Sesquiterpene
α-Murolene	1.17	Sesquiterpene
Unknown	0.99	Sesquiterpene
δ-Amorphene	3.59	Sesquiterpene
γ-Cadinene	3.58	Sesquiterpene
β-Curcumene	0.12	Sesquiterpene
β-Bisabolene	0.99	Sesquiterpene
(3E,6E)-α-Farnesene	0.82	Sesquiterpene
(Z)-γ-Bisabolene	0.17	Sesquiterpene
Unknown	1.84	Sesquiterpene
Sesquicineole	0.31	Sesquiterpenic ether
trans-Calamenene	0.22	Sesquiterpene
Zonarene	5.85*	Sesquiterpene
δ-Cadinene	5.85*	Sesquiterpene
(E)-γ-Bisabolene	1.65	Sesquiterpene
Selina-4(15),7(11)-diene	1.86*	Sesquiterpene
α-Cadinene	0.41	Sesquiterpene
Selina-4,7(11)-diene?	0.33	Sesquiterpene
α-Calacorene	0.44	Sesquiterpene
Selina-3,7(11)-diene	1.86*	Sesquiterpene
(E)-α-Bisabolene	0.72	Sesquiterpene
Germacrene B	0.05	Sesquiterpene
Unknown	0.05	Sesquiterpene
Eudesma-5,7(11)-diene	0.11	Sesquiterpene
(E)-Nerolidol	6.42	Sesquiterpenic alcohol
β-Calacorene	0.03	Sesquiterpene
Caryophyllene oxide	0.02	Sesquiterpenic ether
Unknown	0.07	Unknown
Gleenol	0.03	Sesquiterpenic alcohol
Unknown	0.28	Oxygenated sesquiterpene
Humulene epoxide I	0.03	Sesquiterpenic ether
Fokienol	0.57	Terpenic alcohol
Unknown	0.05	Oxygenated sesquiterpene
Junenol	0.12	Sesquiterpenic alcohol
Unknown	0.10	Oxygenated sesquiterpene
Unknown	0.06	Oxygenated sesquiterpene
α-Corocalene	0.07	Sesquiterpene
Eremoligenol?	0.58	Sesquiterpenic alcohol
1-epi-Cubenol	0.18	Sesquiterpenic alcohol
α-Acorenol	0.05	Sesquiterpenic alcohol
γ-Eudesmol	1.52	Sesquiterpenic alcohol
Hinesol	0.11	Sesquiterpenic alcohol
Cubenol	0.14	Sesquiterpenic alcohol

τ-Cadinol	0.26	Sesquiterpenic alcohol
τ-Muurolol	0.09	Sesquiterpenic alcohol
β-Eudesmol	1.17	Sesquiterpenic alcohol
α-Muurolol	0.22	Sesquiterpenic alcohol
α-Eudesmol	1.12	Sesquiterpenic alcohol
Unknown	0.39	Sesquiterpenic alcohol
α-Bisabolol oxide B, epimer 1	0.25	Sesquiterpenic alcohol
α-Bisabolol oxide B, epimer 2	0.18	Sesquiterpenic alcohol
cis-Guaia-3,9-dien-11-ol?	0.30	Sesquiterpenic alcohol
α-Cadinol	0.04	Sesquiterpenic alcohol
Selin-11-en-4α-ol	0.07	Sesquiterpenic alcohol
7-epi-α-Eudesmol	0.02	Sesquiterpenic alcohol
cis-Calamenen-10-ol	0.05	Sesquiterpenic alcohol
Juniper camphor analog	0.24	Sesquiterpenic alcohol
Unknown	0.19	Oxygenated sesquiterpene
β-Bisabolol	0.82	Sesquiterpenic alcohol
Unknown	0.07	Unknown
Unknown	0.05	Oxygenated sesquiterpene
α-Bisabolol	22.95	Sesquiterpenic alcohol
Juniper camphor	0.23	Sesquiterpenic alcohol
(2E,6Z)-Farnesol	0.02	Sesquiterpenic alcohol
Heptadecane	0.03	Alkane
(2E,6E)-Farnesol	0.11	Sesquiterpenic alcohol
Unknown	0.08	Oxygenated sesquiterpene
Benzyl benzoate	0.03	Phenolic ester
trans-Bisabola-1(6),10-diene-2,3-diol	0.03	Sesquiterpenic alcohol
(E)-Cinnamyl tiglate	0.01	Phenylpropanoid ester
β-Chenopodiol?	0.03	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
Benzyl salicylate	0.02	Phenolic ester
Hexadecanol	0.03	Aliphatic alcohol
Nonadecane	0.03	Alkane
Benzyl (E)-cinnamate	0.02	Phenylpropanoid ester
Heneicosane	0.03	Alkane
Docosane	0.04	Alkane
Tricosane	0.26	Alkane
Tetracosane	0.04	Alkane
Pentacosane	0.12	Alkane
Hexacosane	0.01	Alkane
Heptacosane	0.01	Alkane
Methyl-2,4-dimethylheptanoate?	0.02	Aliphatic ester
Unknown	0.01	Sesquiterpene
Unknown	0.09	Sesquiterpene
Unknown	0.01	Unknown
Cadina-1(10),6,8-triene?	0.07	Sesquiterpene
Unknown	0.05	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Consolidated total	97.17%	

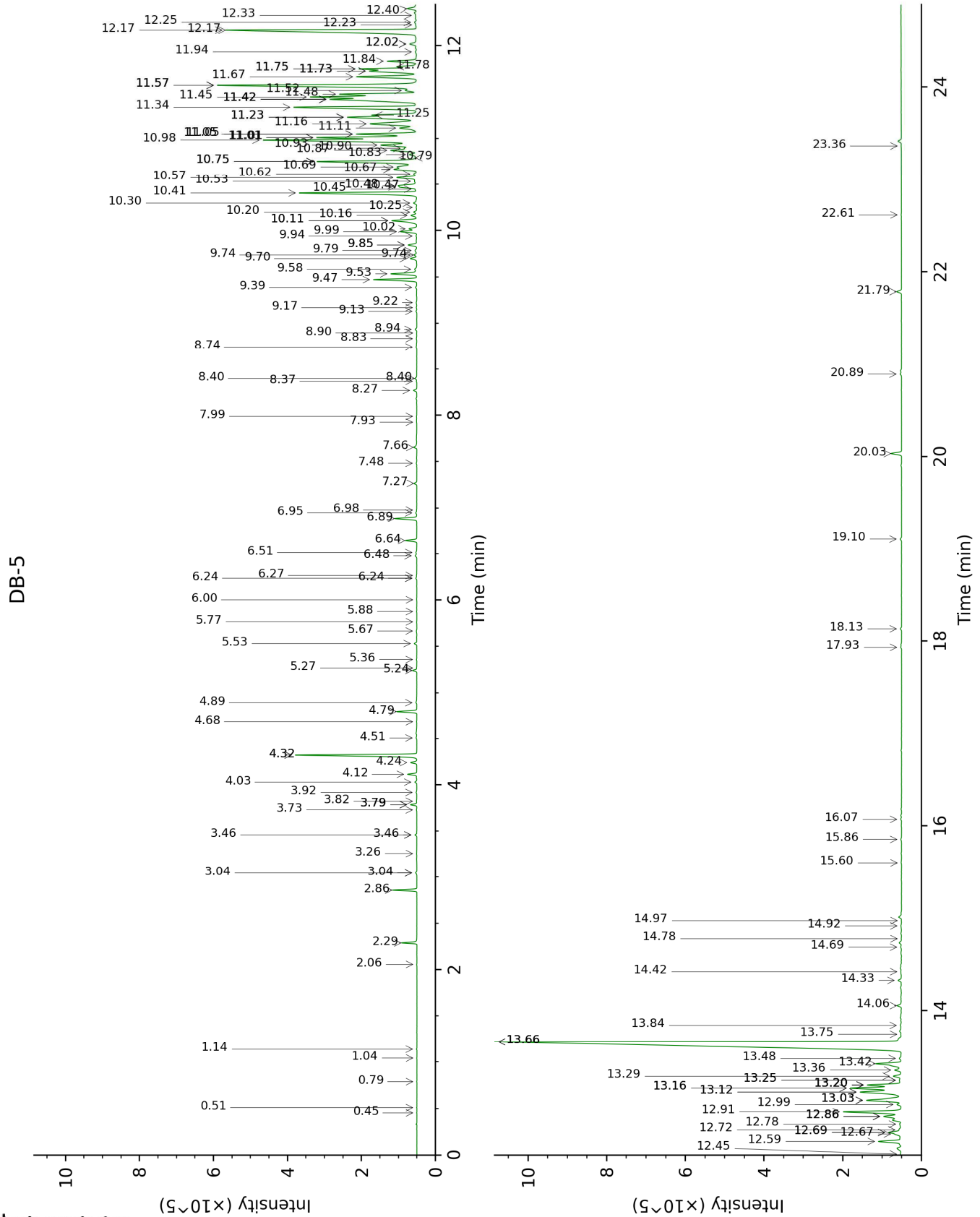
*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered
[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total
tr: The compound has been detected below 0.005% of total signal.

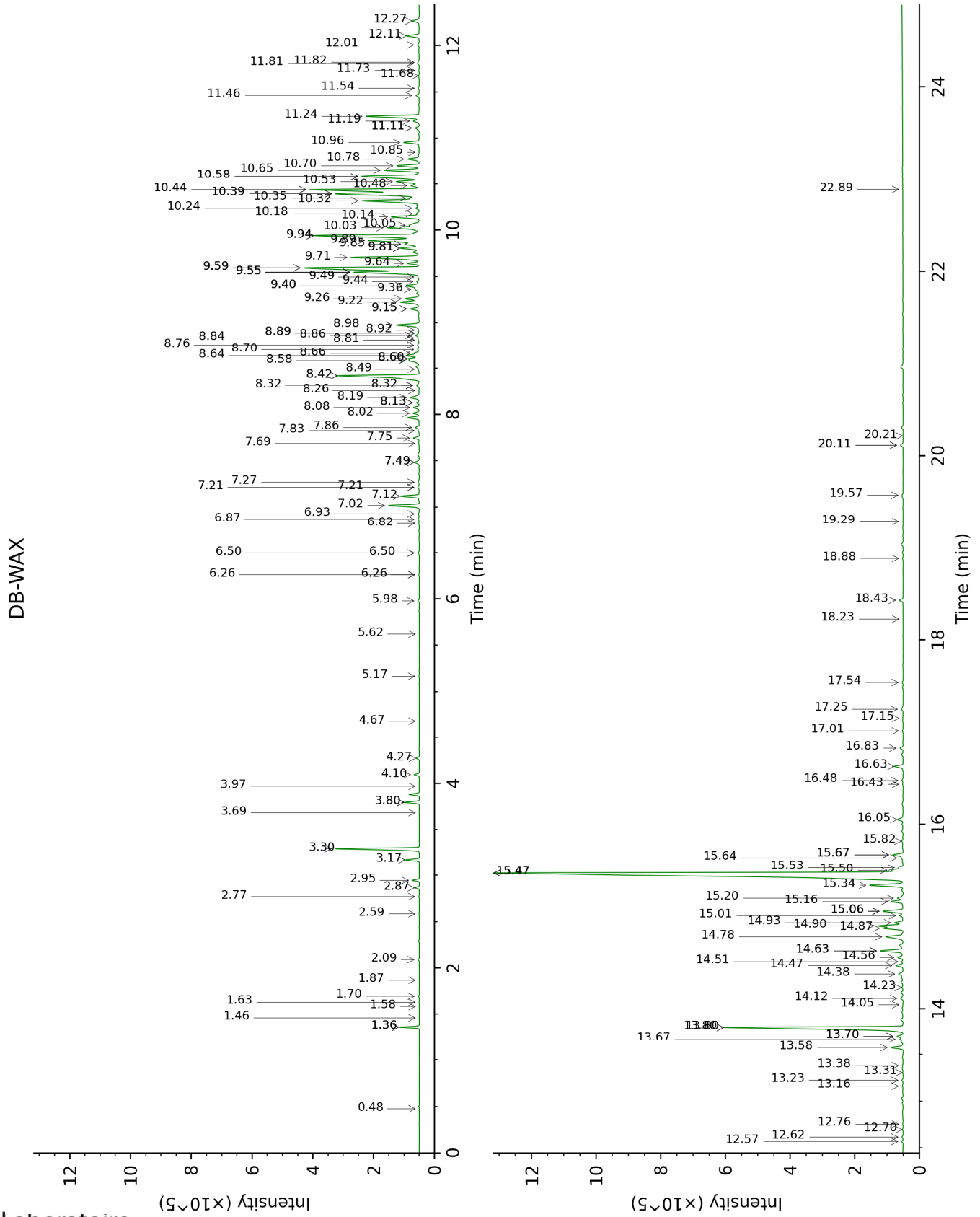
Note: no correction factor was applied

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.

This page was intentionally left blank. The following pages present the complete data of the analysis.





FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
2-Methyl-3-buten-2-ol	0.45	607	tr	1.58	1014	tr
(E)-2-Methyl-1,3-pentadiene	0.51	629	tr	0.48	762	tr
2-Methylbutanenitrile	0.79	719	tr	1.87	1043	tr
Toluene	1.04	759	tr	1.46	1002	0.01
Methyl isovalerate	1.14	774	0.01	1.36*	991	0.45
Isovaleric acid	2.06	868	0.01	9.49	1629	0.06
Styrene	2.29	888	0.26	3.80*	1207	0.39
α-Pinene	2.86	930	0.44	1.36*	991	[0.45]
α-Fenchene	3.04*	943	0.03	1.63	1019	0.01
Camphene	3.04*	943	[0.03]	1.70	1026	0.03
Benzaldehyde	3.26	957	0.01	7.27	1459	0.05
β-Pinene	3.46*	971	0.04	2.09	1066	0.03
Unknown [m/z 57, 85 (42), 41 (34), 56 (9), 93 (8), 55 (8)... 144 (2)]	3.46*	971	[0.04]	5.62	1340	0.01
Unknown [m/z 121, 93 (51), 136 (40), 79 (34), 91 (23), 105 (19), 107 (15)]	3.73	989	0.01	2.59	1111	0.01
1,2-Cyclohexanedione	3.79*	993	0.12	8.84	1577	0.06
Myrcene	3.79*	993	[0.12]	2.87	1134	0.11
2-Pentylfuran	3.79*	993	[0.12]	3.69	1199	0.01
Phenol	3.82	995	0.01	13.16	1943	0.04
α-Phellandrene	3.92	1002	0.02	2.77	1126	0.02
ortho-Methylanisole	4.03	1009	0.04	5.98	1365	0.05
α-Terpinene	4.12	1014	0.18	2.95	1140	0.18
para-Cymene	4.24	1022	0.13	4.10	1230	0.15
Limonene	4.32*	1027	2.73	3.17	1158	0.36
1,8-Cineole	4.32*	1027	[2.73]	3.30	1168	2.39
Benzyl alcohol	4.51	1039	0.02	11.73	1815	0.02
(E)-β-Ocimene	4.68	1050	0.01	3.97	1220	0.01
γ-Terpinene	4.79	1057	0.41	3.80*	1207	[0.39]
Acetophenone	4.89	1063	0.03	8.92	1583	0.03
Terpinolene	5.24	1085	0.09	4.27	1243	0.09
para-Cymenene	5.27	1087	0.01	6.26*	1385	0.02
Methyl benzoate	5.36	1093	0.01	8.66†	1563	[1.33]
Linalool	5.53	1104	0.06	8.08	1519	0.20
endo-Fenchol	5.67	1112	0.02	8.32*	1537	0.12
(E)-4,8-Dimethylnona-1,3,7-triene	5.77	1119	0.01	4.67	1273	0.01
Limona ketone	5.88	1126	0.01	7.83	1500	0.04
ortho-Vinylanisole	6.00	1134	0.01	8.89*	1581	0.02
Phenoprene	6.24*	1149	0.03			
3-Methylindene?	6.24*	1149	[0.03]	8.89*	1581	[0.02]
para-Vinylanisole	6.27	1151	0.01	9.36†	1618	0.72
Borneol	6.48	1164	0.05	9.81*	1654	0.63
Benzyl acetate	6.51	1167	0.03	10.05	1673	0.42
Terpinen-4-ol	6.64	1175	0.25	8.58†	1557	1.33

α-Terpineol	6.89	1191	0.49	9.81*	1654	[0.63]
Safranal	6.95	1194	0.03	8.86	1579	0.13
Isoamyl tiglate	6.98	1196	0.01	6.82	1426	0.03
β-Cyclocitral	7.27	1216	0.06	8.60*†	1559	[1.33]
Coumaran	7.48	1230	0.02	17.01	2326	0.03
Benzylacetone	7.66	1242	0.09	11.46	1791	0.13
Geraniol	7.93	1260	0.01	11.68	1810	0.03
Methyl 2-methylnonanoate?	7.99	1264	0.01			
Unknown [m/z 87, 74 (65), 56 (51), 55 (43), 41 (35)...]	8.27	1282	0.08	7.75	1494	0.19
Cogeijerene	8.37	1289	0.01	8.13*	1523	0.09
Unknown [m/z 85, 57 (33), 41 (9), 157 (9), 43 (7), 138 (7)...]	8.40*	1291	0.05			
Methyl 8-methylnonanoate	8.40*	1291	[0.05]	7.69	1489	0.04
Unknown [m/z 145, 160 (26), 117 (12), 146 (12), 105 (11), 128 (11)...204 (2)]	8.74	1315	0.03			
Unknown [m/z 88, 101 (39), 55 (32), 43 (29), 69 (28), 41 (22), 128 (19)...]	8.83	1321	0.02			
Unknown [m/z 159, 145 (70), 119 (55), 131 (45), 91 (43), 105 (40)... 202 (18)]	8.90	1326	0.01	6.50*	1402	0.04
Bicycloax-4(15)-ene	8.94	1328	0.04	6.50*	1402	[0.04]
Methyl 4,8-dimethylnonanoate?	9.13	1342	0.02	8.49	1550	0.03
Ethyl hydrocinnamate	9.17	1345	0.01	11.82	1823	0.03
African-1-ene	9.22	1349	0.02	6.87	1429	0.06
Cyclosativene II	9.39	1360	0.03	6.93	1434	0.04
α-Ylangene	9.47	1366	0.99	7.02	1440	0.98
α-Copaene	9.53	1371	0.62	7.12	1448	0.59
2-epi-α-Funebrene	9.58	1374	0.06	7.22*	1455	0.06
Unknown [m/z 189, 133 (51), 91 (38), 107 (36), 105 (29), 109 (24), 204 (23)]	9.70	1382	0.16	7.48*	1474	0.19
Unknown [m/z 189, 91 (30), 135 (26), 147 (22), 133 (22), 119 (21), 204 (20)]	9.74*	1385	0.07	7.22*	1455	[0.06]
Unknown [m/z 119, 93 (82), 161 (71), 105 (68), 91 (65), 133 (56)... 204 (15)]	9.74*	1385	[0.07]	8.70	1567	0.06
Sativene	9.79	1388	0.06	7.48*	1474	[0.19]
Benzyl isovalerate	9.84*	1392	0.21	11.81	1821	0.06

α-Funebrene	9.84*	1392	[0.21]	7.86	1502	0.15
Unknown [m/z 119, 91 (99), 105 (96), 94 (96), 93 (93), 161 (74), 82 (64), 79 (61), 204 (60)]	9.94	1399	0.02			
Acora-3,7(14)-diene	9.99	1403	0.40	8.18	1527	0.38
α-Cedrene	10.02	1405	0.19	8.02	1514	0.21
β-Cedrene	10.11*	1412	0.75	8.26	1533	0.02
Unknown [m/z 119, 93 (35), 105 (42), 91 (27), 41 (19), 161 (19), 204 (17)]	10.11*	1412	[0.75]			
β-Caryophyllene	10.16	1416	0.15	8.42*	1545	3.30
Cascarilladiene	10.20	1418	0.08	8.13*	1523	[0.09]
β-Gurjunene	10.25	1422	0.01	8.32*	1537	[0.12]
Unknown [m/z 161, 105 (35), 119 (23), 93 (16), 91 (16), 81 (15)... 204 (3)]	10.30	1426	0.10			
<i>trans</i> -α-Bergamotene	10.41	1434	3.00	8.42*	1545	[3.30]
Unknown [m/z 161, 105 (69), 119 (42), 91 (41), 204 (38)]	10.45	1437	0.03	8.81	1575	0.03
1,2,2α,3,3,4,6,7,8,8α-Decahydro-2α,7,8-trimethylacenaphthylene	10.47	1439	0.31	8.60*†	1559	[1.33]
6,9-Guaiadiene	10.48	1440	0.47	8.64†	1562	[1.33]
Cadina-4,11-diene	10.53	1443	0.07	9.15*	1601	0.35
α-Humulene	10.57	1446	0.52	9.26	1610	0.52
Unknown [m/z 119, 91 (35), 145 (30), 134 (29), 105 (27), 202 (25)...]	10.62	1449	0.08			
allo-Aromadendrene	10.67	1453	0.59	8.98	1587	0.87
α-Acoradiene	10.69	1455	0.66	9.40*†	1621	[0.72]
(<i>E</i>)-β-Farnesene	10.75*	1460	2.82	9.55*†	1633	7.37
β-Acoradiene	10.75*	1460	[2.82]	9.44	1625	0.10
β-Santalene	10.75*	1460	[2.82]	9.15*	1601	[0.35]
Ethyl (<i>E</i>)-cinnamate	10.79	1462	0.03	14.38	2057	0.18
10-epi-β-Acoradiene	10.83	1465	0.20	9.55*†	1633	[7.37]
<i>trans</i> -Cadina-1(6),4-diene	10.87	1468	0.72	9.22	1607	0.72
Selina-4,11-diene	10.90	1470	0.20	9.40*†	1621	[0.72]
γ-Murolene	10.93	1473	1.17	9.55*†	1633	[7.37]
α-Amorphene	10.98†	1477	8.10	9.59*†	1637	[7.37]
<i>cis</i> -4,10-Epoxyamorphane	11.01*†	1479	[8.10]	9.71	1646	2.54
γ-Curcumene	11.01*†	1479	[8.10]	9.64	1640	0.39
β-Selinene	11.05*†	1482	[8.10]	9.85	1657	0.56
ar-Curcumene	11.05*†	1482	[8.10]	10.66	1723	1.12
δ-Selinene	11.11	1486	0.50	9.59*†	1637	[7.37]
Epizonarene	11.16	1490	1.82	9.89	1660	2.08
Unknown [m/z 151, 67 (52), 69 (46), 41 (34), 95 (32), 55 (30), 105 (30)... 204 (3)]	11.23*	1495	2.20	10.96	1748	0.49

α -Zingiberene	11.23*	1495	[2.20]	10.18	1684	0.09
α -Muurolene	11.23*	1495	[2.20]	10.03	1671	1.17
Unknown [m/z 161, 119 (94), 105 (93), 91 (79), 93 (66), 79 (45), 41 (44), 77 (39), 120 (38)... 204 (25)]	11.25	1497	0.99			
δ -Amorphene	11.34	1503	3.59	9.94*	1664	3.77
γ -Cadinene	11.42*†	1510	7.52	10.39*†	1701	7.50
β -Curcumene	11.42*†	1510	[7.52]	10.24	1688	0.12
β -Bisabolene	11.42*†	1510	[7.52]	10.14	1681	0.99
(3E,6E)- α -Farnesene	11.42*†	1510	[7.52]	10.52	1712	0.82
(Z)- γ -Bisabolene	11.45†	1512	[7.52]	9.94*	1664	[3.77]
Unknown [m/z 151, 67 (51), 69 (48), 41 (42), 55 (32), 95 (32)...]	11.48†	1514	[7.52]	11.24	1772	1.84
Sesquicineole	11.52	1517	0.31	10.35	1697	0.24
<i>trans</i> -Calamenene	11.58*	1522	6.07	11.19	1768	0.22
Zonarene	11.58*	1522	[6.07]	10.39*†	1701	[7.50]
δ -Cadinene	11.58*	1522	[6.07]	10.44*†	1705	[7.50]
(E)- γ -Bisabolene	11.67	1529	1.65	10.44*†	1705	[7.50]
Selina-4(15),7(11)-diene	11.73*†	1534	3.04	10.58*	1717	2.53
α -Cadinene	11.73*†	1534	[3.04]	10.78	1733	0.41
Selina-4,7(11)-diene?	11.75*†	1536	[3.04]	10.48	1709	0.33
α -Calacorene	11.75*†	1536	[3.04]	12.11	1848	0.44
Selina-3,7(11)-diene	11.78†	1537	[3.04]	10.58*	1717	[2.53]
(E)- α -Bisabolene	11.84	1542	0.72	10.70	1727	0.71
Germacrene B	11.94	1550	0.05	11.11*	1762	0.16
Unknown [m/z 202, 91 (83), 93 (82), 187 (80), 131 (77), 145 (60), 105 (58)]	12.02*	1557	0.21	11.54	1798	0.05
Eudesma-5,7(11)-diene	12.02*	1557	[0.21]	11.11*	1762	[0.16]
(E)-Nerolidol	12.17*	1568	6.45	13.80*	2002	6.29
β -Calacorene	12.17*	1568	[6.45]	12.70	1900	0.03
Caryophyllene oxide	12.23	1573	0.02	12.76	1905	0.03
Unknown [m/z 109, 69 (60), 43 (40), 93 (28), 41 (25), 111 (22)...]	12.25	1575	0.07	13.31	1956	0.02
Gleenol	12.33	1581	0.03	13.58	1981	0.40
Unknown [m/z 161, 119 (78), 105 (75), 120 (72), 43 (64)... 218 (4)]	12.40	1587	0.28	12.27	1862	0.25
Humulene epoxide I	12.45	1591	0.03	13.23	1948	0.05
Fokienol	12.59	1602	0.57	15.06*	2124	0.73
Unknown [m/z 151, 41 (15), 81 (13), 111 (13), 91 (13)...]	12.67†	1608	0.47	14.23	2043	0.05
Junenol	12.69*†	1609	[0.47]	13.67	1989	0.12
Unknown [m/z 179, 161 (30), 109 (22), 95 (18), 81 (17)... 204 (5), 222 (3)]	12.69*†	1609	[0.47]	14.12	2032	0.10

Unknown [m/z 179, 161 (66), 119 (44), 95 (38), 105 (35)... 204 (24), 222 (1)]	12.72	1612	0.06	14.63*	2081	0.76
α -Corocalene	12.78	1617	0.07	13.70*	1993	0.21
Eremoligenol?	12.86*†	1624	0.80	14.87	2105	0.58
1-epi-Cubenol	12.86*†	1624	[0.80]	13.80*	2002	[6.29]
α -Acorenol	12.86*†	1624	[0.80]	14.51	2070	0.05
γ -Eudesmol	12.91	1628	1.52	14.90	2108	0.79
Hinesol	12.99	1634	0.11	15.01	2119	0.12
Cubenol	13.03*	1638	1.19	13.70*	1993	[0.21]
τ -Cadinol	13.03*	1638	[1.19]	14.93	2111	0.26
τ -Muurolol	13.03*	1638	[1.19]	15.06*	2124	[0.73]
β -Eudesmol	13.12*	1645	1.39	15.47*†	2165	23.78
α -Muurolol	13.12*	1645	[1.39]	15.20	2138	0.22
α -Eudesmol	13.16*	1649	1.36	15.34	2152	1.12
Unknown cadinol analog II [m/z 95, 121 (73), 43 (57), 79 (43), 161 (43), 109 (40)... 204 (35), 222 (2)]	13.16*	1649	[1.36]	15.16	2134	0.39
α -Bisabolol oxide B, epimer 1	13.20*	1651	0.86	14.47	2066	0.25
α -Bisabolol oxide B, epimer 2	13.20*	1651	[0.86]	14.56	2074	0.18
<i>cis</i> -Guaia-3,9-dien-11-ol?	13.20*	1651	[0.86]	15.67*	2185	0.34
α -Cadinol	13.20*	1651	[0.86]	15.50†	2168	[23.78]
Selin-11-en-4 α -ol	13.20*	1651	[0.86]	15.64	2182	0.07
7-epi- α -Eudesmol	13.25*	1656	0.07	15.47*†	2165	[23.78]
<i>cis</i> -Calamenen-10-ol	13.25*	1656	[0.07]	16.48	2268	0.05
Juniper camphor analog	13.29	1659	0.24			
Unknown [m/z 147, 162 (74), 105 (68), 119 (53), 59 (51), 91 (48)...222 (1)]	13.36	1664	0.19	15.53	2171	0.15
β -Bisabolol	13.42	1670	0.82	14.78	2096	0.75
Unknown [m/z 126, 111 (19), 97 (17), 55 (13), 107 (12)...]	13.48	1675	0.07	15.06*	2124	[0.73]
Unknown [m/z 109, 43 (52), 82 (33), 67 (32), 91 (32), 159 (27)... 220 (17)]	13.66*	1690	23.23	15.82	2200	0.05
α -Bisabolol	13.66*	1690	[23.23]	15.47*†	2165	[23.78]
Juniper camphor	13.66*	1690	[23.23]	16.05	2225	0.23
(2E,6Z)-Farnesol	13.75	1697	0.02	16.44	2264	0.02
Heptadecane	13.84	1705	0.03	10.32	1695	2.26
(2E,6E)-Farnesol	14.06	1723	0.11	16.83	2306	0.10
Unknown [m/z 107, 93 (54), 105 (54), 91 (53), 119 (53), 109 (39)...220 (13)]	14.33	1747	0.08	17.25	2351	0.09
Benzyl benzoate	14.42	1755	0.03	18.88	2535	0.03

<i>trans</i> -Bisabola-1(6),10-diene-2,3-diol	14.69	1778	0.03	19.57	2616	0.03
(<i>E</i>)-Cinnamyl tiglate	14.78	1786	0.01	18.23	2460	0.01
β-Chenopodiol?	14.92	1798	0.03	14.05	2025	0.01
Unknown [m/z 175, 147 (63), 135 (52), 91 (46), 105 (39)... 236 (19)]	14.97	1803	0.01	20.21	2694	0.01
Benzyl salicylate	15.60	1860	0.02	20.11*	2682	0.10
Hexadecanol	15.86	1883	0.03	17.15	2340	0.02
Nonadecane	16.07	1903	0.03	12.62	1893	0.05
Benzyl (<i>E</i>)-cinnamate	17.94	2084	0.02	22.89	3041	0.01
Heneicosane	18.13	2104	0.03	14.63*	2081	[0.76]
Docosane	19.10	2204	0.04	15.67*	2185	[0.34]
Tricosane	20.03	2304	0.26	16.63	2284	0.30
Tetracosane	20.89	2401	0.04	17.54	2383	0.04
Pentacosane	21.78	2505	0.12	18.43	2483	0.13
Hexacosane	22.61	2606	0.01	19.29	2582	0.01
Heptacosane	23.36	2700	0.01	20.11*	2682	[0.10]
Methyl-2,4-dimethylheptanoate?				5.17	1308	0.02
Unknown [m/z 91, 81 (79), 123 (76), 105 (76), 161 (68), 189 (61)...]				6.26*	1385	[0.02]
Unknown [m/z 105, 77 (62), 120 (26), 161 (25), 91 (22)... 204 (12)]				8.76	1571	0.09
Unknown [m/z 108, 94 (68), 93 (59), 107 (58), 79 (53)... 220 (8)]				10.85	1740	0.01
Cadina-1(10),6,8-triene?				12.01	1839	0.07
Unknown [m/z 175, 218 (78), 131 (55), 43 (48), 105 (46), 133 (46)...]				12.57	1888	0.05
Unknown [m/z 43, 93 (80), 109 (63), 67 (50), 175 (48), 71 (45)... 218 (18)]				13.38	1963	0.03
Total identified		95.76%			91.52%	
Total reported		98.53%			95.47%	

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not 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