Date : January 19, 2023

Certificate of Analysis – GC Profiling

Sample identification

Internal code : 23A12-PTH03
Customer identification : Blue Cypress - Australia - BG0109R
Type : Essential oil
Source : *Callitris intratropica*
Customer : Plant Therapy

Analysis

Method: PC-MAT-014 ISO - Analysis of the composition of an essential oil or other volatile liquid by FAST GC-FID (in French); identifications validated by GC-MS.
Analyst : Amélie Simard, Analyste
Analysis date : January 18, 2023

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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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

Méthode certifiée ISO 17025:2017 Certified method

Laboratoire PhytoChemia

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PHYSICOCHEMICAL DATA

Physical aspect: Blue viscous liquid
Refractive index: 1.5077 ± 0.0003 (20 °C; method PC-MAT-016)

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
Isovaleral	tr	Aliphatic aldehyde
Toluene	0.01	Simple phenolic
Furfural	0.04	Furan
Tricyclene	0.03	Monoterpene
α-Thujene	0.01	Monoterpene
α-Pinene	0.50	Monoterpene
α-Fenchene	0.02	Monoterpene
Camphene	0.04	Monoterpene
Thuja-2,4(10)-diene	0.03	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.01	Monoterpene
β-Pinene	0.02	Monoterpene
Unknown	0.01	Monoterpene
Myrcene	0.02	Monoterpene
α-Phellandrene	0.02	Monoterpene
Δ3-Carene	0.29	Monoterpene
α-Terpinene	0.01	Monoterpene
para-Cymene	0.05	Monoterpene
Limonene	0.09	Monoterpene
β-Phellandrene	0.02	Monoterpene
1,8-Cineole	0.02	Monoterpenic ether
γ-Terpinene	0.01	Monoterpene
Unknown	0.03	Oxygenated monoterpene
meta-Cymenene	0.04	Monoterpene
Isoterpinolene	0.02	Monoterpene
para-Cymenene	0.07	Monoterpene
Terpinolene	0.03	Monoterpene
Linalool	0.01	Monoterpenic alcohol
endo-Fenchol	0.03	Monoterpenic alcohol
α-Campholenal	0.02	Monoterpenic aldehyde
trans-Pinocarveol	0.09	Monoterpenic alcohol
Camphor	0.03	Monoterpenic ketone
meta-Mentha-4,6-dien-8-ol	0.02	Monoterpenic alcohol
Pinocamphone	0.04	Monoterpenic ketone
Isoborneol	0.01	Monoterpenic alcohol
Pinocarvone	0.02	Monoterpenic ketone
Borneol	0.08	Monoterpenic alcohol
α-Phellandren-8-ol	0.04	Monoterpenic alcohol
Isopinocamphone	0.02	Monoterpenic ketone
Terpinen-4-ol	0.02	Monoterpenic alcohol
meta-Cymen-8-ol	0.02	Monoterpenic alcohol
para-Cymen-8-ol	0.04	Monoterpenic alcohol
α-Terpineol	0.09	Monoterpenic alcohol
Myrtenal	0.07	Monoterpenic aldehyde
Myrtenol	0.05	Monoterpenic alcohol
Verbenone	0.21	Monoterpenic ketone

trans-Carveol	0.01	Monoterpenic alcohol
Unknown	0.18	Unknown
Unknown	0.10	Oxygenated monoterpene
Unknown	0.03	Unknown
Car-3-en-2-one	0.06	Monoterpenic ketone
Geraniol	0.04	Monoterpenic alcohol
Phellandral	0.05	Monoterpenic aldehyde
Cuminol	0.03	Monoterpenic alcohol
Methyl myrtenate	0.02	Monoterpenic ester
Unknown	0.12	Unknown
cis-β-Elemene	0.02	Sesquiterpene
Myrtenoic acid	2.35	Monoterpenic acid
β-Elemene	0.88	Sesquiterpene
β-Caryophyllene	0.10	Sesquiterpene
C. intratropica acid I	0.31	Monoterpenic acid
cis-Thujopsene	0.08	Sesquiterpene
C. intratropica acid II	0.31	Monoterpenic acid
Unknown	0.06	Unknown
α-Guaiene	0.69	Sesquiterpene
β-Barbatene	0.03	Sesquiterpene
C. intratropica acid III	0.04	Monoterpenic acid
α-Humulene	0.21	Sesquiterpene
Unknown	0.16	Oxygenated sesquiterpene
4,5-diepi-Aristolochene	0.13	Sesquiterpene
Eudesma-1,4(15),11-triene	1.29	Sesquiterpene
Selina-4,11-diene	1.07	Sesquiterpene
Liguloxide analog II	1.42	Sesquiterpenic ether
β-Selinene	2.28	Sesquiterpene
δ-Selinene	0.48	Sesquiterpene
α-Selinene	1.95	Sesquiterpene
4-epi-*cis*-Dihydroagarofuran	0.08	Sesquiterpenic ether
δ-Guaiene	0.86	Sesquiterpene
10,11-Epoxyguai-4-ene	0.09	Sesquiterpenic ether
10,11-Epoxyguai-1-ene	0.38	Sesquiterpenic ether
7-epi-α-Selinene	0.02	Sesquiterpene
Selina-4(15),7(11)-diene	0.23	Sesquiterpene
Selina-4,7(11)-diene?	0.17	Sesquiterpene
Selina-3,7(11)-diene	0.22	Sesquiterpene
α-Elemol	1.53	Sesquiterpenic alcohol
Unknown	0.33	Oxygenated sesquiterpene
Unknown	0.06	Oxygenated sesquiterpene
trans-5,11-Epoxycalamenene?	0.03	Sesquiterpenic ether
Unknown	0.04	Oxygenated sesquiterpene
Guaiol	12.13	Sesquiterpenic alcohol
Eudesm-5-en-11-ol	0.77	Sesquiterpenic alcohol
5,7-diepi-α-Eudesmol	0.19	Sesquiterpenic alcohol
Unknown	0.15	Oxygenated sesquiterpene
Unknown	0.23	Oxygenated sesquiterpene
4,10-diepi-Guaiol	0.16	Sesquiterpenic alcohol
Unknown	0.10	Oxygenated sesquiterpene
Eremoligenol?	0.55	Sesquiterpenic alcohol
γ-Eudesmol	7.53	Sesquiterpenic alcohol

Unknown	0.36	Oxygenated sesquiterpene
Hinesol	0.31	Sesquiterpenic alcohol
Unknown	0.40	Oxygenated sesquiterpene
β-Eudesmol	5.89	Sesquiterpenic alcohol
Unknown	0.23	Unknown
α-Eudesmol	3.99	Sesquiterpenic alcohol
Unknown	1.01	Oxygenated sesquiterpene
Selin-11-en-4α-ol	0.69	Sesquiterpenic alcohol
Unknown	0.77	Oxygenated sesquiterpene
Hanamyol	0.23	Sesquiterpenic alcohol
Bulnesol	10.39	Sesquiterpenic alcohol
Unknown	0.32	Oxygenated sesquiterpene
Unknown	0.25	Oxygenated sesquiterpene
Unknown	0.11	Oxygenated sesquiterpene
Unknown	0.29	Oxygenated sesquiterpene
Unknown	0.22	Oxygenated sesquiterpene
Unknown	0.12	Lignan
Unknown	0.02	Oxygenated sesquiterpene
Chamazulene	0.12	Azulene
Unknown	0.14	Oxygenated sesquiterpene
γ-Costol	2.92	Sesquiterpenic alcohol
Unknown	0.51	Oxygenated sesquiterpene
Unknown	0.07	Oxygenated sesquiterpene
β-Costol	2.01	Sesquiterpenic alcohol
α-Costol	1.89	Sesquiterpenic alcohol
Guaiazulene	0.08	Azulene
Methyl γ-costate	0.35	Sesquiterpenic ester
Methyl β-costate	0.13	Sesquiterpenic ester
Methyl α-costate?	0.15	Sesquiterpenic ester
Callitrin isomer	0.40	Sesquiterpenic lactone
Callitrin	1.56	Sesquiterpenic lactone
Callitrisin analog I	1.39	Sesquiterpenic lactone
Unknown	0.40	Unknown
Dihydrocolumellarin	10.44	Sesquiterpenic lactone
Unknown	0.37	Unknown
Unknown	0.16	Unknown
Unknown	0.21	Oxygenated sesquiterpene
Unknown	0.02	Sesquiterpenic lactone
Unknown	0.33	Sesquiterpenic lactone
Callitrisin analog II	0.15	Sesquiterpenic lactone
Callitrisin	0.54	Sesquiterpenic lactone
Unknown	1.42	Unknown
Columellarin	0.86	Sesquiterpenic lactone
Unknown	0.18	Sesquiterpenic lactone
Dihydrocallitrisin	0.16	Sesquiterpenic lactone
Unknown	0.13	Sesquiterpenic lactone
Unknown	0.03	Unknown
Sandaracopimarinal?	0.06	Diterpenic aldehyde
6,7-Dehydroferruginol?	0.02	Diterpenic alcohol
Consolidated total	**95.47%**	

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.

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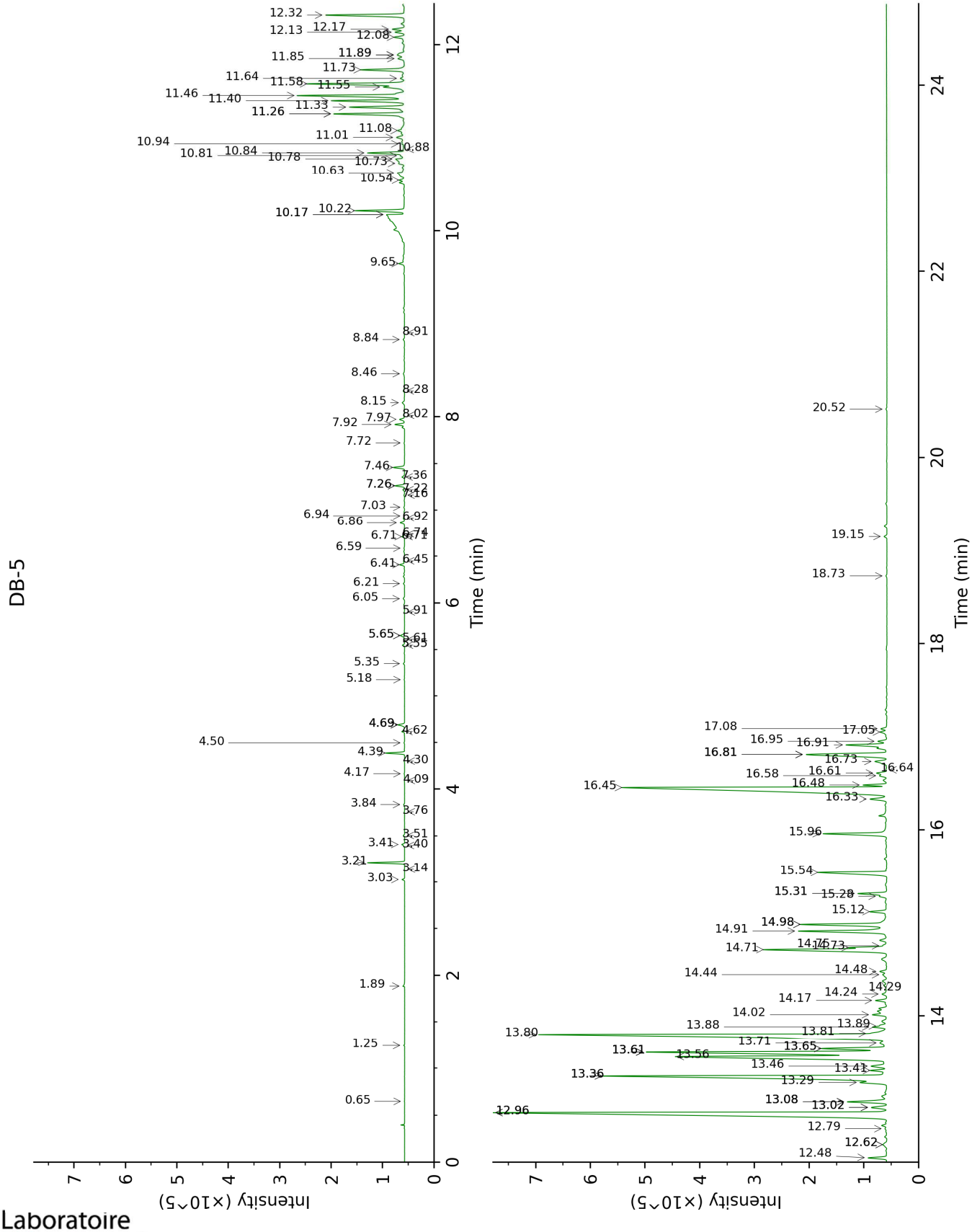
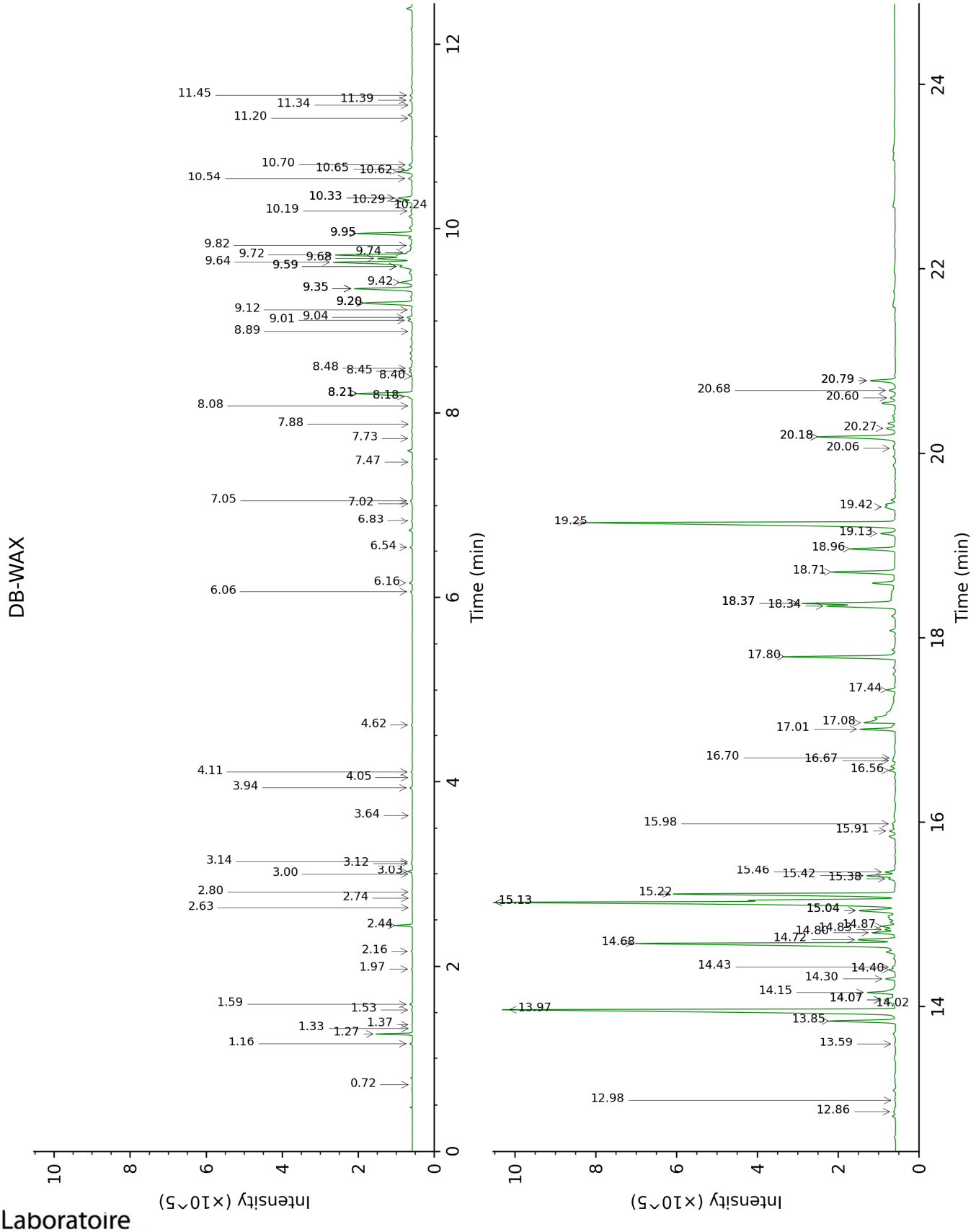

DB-5
Intensity (×10^5)
Time (min)
12.32
12.13
12.17
12.08
11.85
11.89
11.73
11.64
11.58
11.55
11.46
11.40
11.33
11.26
11.08
11.01
10.94
10.88
10.81
10.84
10.78
10.73
10.63
10.54
10.17
10.22
9.65
8.84
8.91
8.46
8.28
8.15
8.02
7.92
7.97
7.72
7.46
7.36
7.26
7.22
7.16
7.03
6.94
6.92
6.86
6.74
6.71
6.59
6.45
6.41
6.21
6.05
5.91
5.65
5.61
5.55
5.35
5.18
4.69
4.62
4.50
4.39
4.30
4.17
4.09
3.84
3.76
3.51
3.41
3.40
3.21
3.14
3.03
1.89
1.25
0.65
20.52
19.15
18.73
17.08
17.05
16.95
16.91
16.81
16.73
16.64
16.58
16.61
16.45
16.48
16.33
15.96
15.54
15.31
15.28
15.12
14.91
14.98
14.71
14.73
14.44
14.48
14.29
14.17
14.24
14.02
13.88
13.89
13.80
13.81
13.71
13.65
13.61
13.56
13.46
13.41
13.36
13.29
13.08
13.02
12.96
12.79
12.62
12.48


DB-WAX
Time (min)
Intensity (×10^5)
11.45
11.34
11.39
11.20
10.70
10.65
10.62
10.54
10.33
10.29
10.24
10.19
9.95
9.82
9.72
9.74
9.68
9.64
9.59
9.42
9.35
9.20
9.12
9.01
9.04
8.89
8.48
8.45
8.40
8.21
8.18
8.08
7.88
7.73
7.47
7.05
7.02
6.83
6.54
6.16
6.06
4.62
4.11
4.05
3.94
3.64
3.14
3.12
3.00
3.03
2.80
2.74
2.63
2.44
2.16
1.97
1.59
1.53
1.33
1.37
1.27
1.16
0.72
20.79
20.68
20.60
20.27
20.18
20.06
19.42
19.25
19.13
18.96
18.71
18.37
18.34
17.80
17.44
17.08
17.01
16.70
16.67
16.56
15.98
15.91
15.46
15.42
15.38
15.22
15.13
15.04
14.87
14.85
14.80
14.72
14.68
14.43
14.40
14.30
14.15
14.07
14.02
13.97
13.85
13.59
12.98
12.86

FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Isovaleral	0.65	641	tr	0.72	889	tr
Toluene	1.24	759	0.01	1.37	1001	0.01
Furfural	1.89	829	0.04	6.54	1416	0.05
Tricyclene	3.03	918	0.03	1.16	969	0.03
α-Thujene	3.14	926	0.01	1.33	997	tr
α-Pinene	3.21	931	0.50	1.27	989	0.50
α-Fenchene	3.40†	943	0.06	1.53	1018	0.02
Camphene	3.41†	944	[0.06]	1.59	1024	0.04
Thuja-2,4(10)-diene	3.51	950	0.03	2.16	1084	0.02
3,7,7-Trimethylcyclohepta-1,3,5-triene	3.76	966	0.01	2.74	1133	0.01
β-Pinene	3.84	972	0.02	1.97	1064	0.02
Unknown [m/z 91, 119 (65), 109 (51), 134 (47)]	4.09	988	0.01	3.00	1154	0.02
Myrcene	4.17	993	0.02	2.80	1138	0.01
α-Phellandrene	4.30	1002	0.02	2.63	1124	0.01
Δ3-Carene	4.39	1007	0.29	2.44	1109	0.28
α-Terpinene	4.50	1014	0.01			
para-Cymene	4.62	1022	0.05	3.94	1228	0.05
Limonene	4.69*	1026	0.13	3.03	1156	0.09
β-Phellandrene	4.69*	1026	[0.13]	3.12	1164	0.02
1,8-Cineole	4.69*	1026	[0.13]	3.14	1166	0.02
γ-Terpinene	5.18	1057	0.01	3.64	1206	0.01
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.35	1068	0.03	4.62	1280	0.02
meta-Cymenene	5.55	1080	0.04	6.06	1381	0.04
Isoterpinolene	5.61	1084	0.02	4.05	1237	0.02
para-Cymenene	5.65*	1086	0.10	6.16	1388	0.07
Terpinolene	5.65*	1086	[0.10]	4.11	1242	0.03
Linalool	5.91	1102	0.01	7.88	1517	0.01
endo-Fenchol	6.05	1111	0.03	8.18	1540	0.07
α-Campholenal	6.21	1121	0.02	6.83	1438	0.02
trans-Pinocarveol	6.41	1134	0.09	9.01	1605	0.10
Camphor	6.45	1137	0.03	7.02	1452	0.02
meta-Mentha-4,6-dien-8-ol	6.59	1145	0.02	9.12	1614	0.05
Pinocamphone	6.71*	1153	0.05	7.05	1454	0.04
Isoborneol	6.71*	1153	[0.05]	9.20*	1620	1.36
Pinocarvone	6.74	1155	0.02	7.73	1505	0.02
Borneol	6.86	1163	0.08	9.59*	1652	0.37
α-Phellandren-8-ol	6.92	1166	0.04	9.95*	1681	1.32
Isopinocamphone	6.94	1168	0.02	7.47	1485	0.02
Terpinen-4-ol	7.03	1174	0.02	8.40	1557	0.02
meta-Cymen-8-ol	7.16	1182	0.02	11.34	1799	0.01

para-Cymen-8-ol	7.22	1186	0.04	11.40	1803	0.07
α-Terpineol	7.26*	1188	0.16	9.59*	1652	[0.37]
Myrtenal	7.26*	1188	[0.16]	8.45	1561	0.07
Myrtenol	7.36	1194	0.05	10.65	1740	0.07
Verbenone	7.46	1201	0.21	9.35*	1633	1.44
trans-Carveol	7.72	1218	0.01	11.20	1786	0.02
Unknown [m/z 67, 81 (74), 121 (68), 41 (64), 123 (58), 69 (58)...]	7.92	1231	0.18			
Unknown [m/z 79, 107 (80), 121 (74), 91 (71), 150 (63)]	7.98	1235	0.10	10.70	1744	0.09
Unknown [m/z 107, 79 (75), 91 (59), 150 (51), 77 (48), 93 (37)...]	8.02	1238	0.03			
Car-3-en-2-one	8.15	1247	0.06	10.19	1701	0.05
Geraniol	8.28	1255	0.04	11.45	1808	0.05
Phellandral	8.46	1267	0.05	9.82	1670	0.06
Cuminol	8.84	1292	0.03	14.02	2043	0.05
Methyl myrtenate	8.91	1297	0.02	9.35*	1633	[1.44]
Unknown [m/z 68, 67 (50), 110 (16), 41 (15), 82 (15), 69 (14)...]	9.65	1349	0.12			
cis-β-Elemene	10.17*†	1386	2.37	8.08	1532	0.02
Myrtenoic acid	10.17*†	1386	[2.37]			
β-Elemene	10.22	1389	0.88	8.21*	1542	1.52
β-Caryophyllene	10.54	1412	0.10	8.21*	1542	[1.52]
C. intratropica acid I	10.63	1418	0.31			
cis-Thujopsene	10.73†	1426	0.39	8.48	1564	0.08
C. intratropica acid II	10.78†	1429	[0.39]			
Unknown [m/z 147, 41 (66), 105 (53), 91 (48), 69 (41), 119 (34)...]	10.81	1432	0.06			
α-Guaiene	10.84	1434	0.69	8.21*	1542	[1.52]
β-Barbatene	10.88	1437	0.03	8.89	1595	0.02
C. intratropica acid III	10.94	1442	0.04			
α-Humulene	11.01	1447	0.21	9.04	1608	0.12
Unknown [m/z 107, 150 (72), 123 (64), 79 (61), 121 (54), 93 (54), 91 (53), 135 (45)... 220? (1)]	11.08	1452	0.16			
4,5-diepi-Aristolochene	11.26*	1465	1.42	9.20*	1620	[1.36]
Eudesma-1,4(15),11-triene	11.26*	1465	[1.42]	9.95*	1681	[1.32]
Selina-4,11-diene	11.33	1471	1.07	9.20*	1620	[1.36]
Liguloxide analog II	11.40	1476	1.42	9.35*	1633	[1.44]
β-Selinene	11.46	1480	2.28	9.64	1656	2.14
δ-Selinene	11.55	1487	0.48	9.42	1638	0.35

α-Selinene	11.58	1489	1.95	9.72	1662	1.88
4-epi-*cis*-Dihydroagarofuran	11.64	1494	0.08	9.74	1664	0.16
δ-Guaiene	11.73	1500	0.86	9.68	1659	0.81
10,11-Epoxyguai-4-ene	11.85†	1510	0.39	10.54	1731	0.09
10,11-Epoxyguai-1-ene	11.89*†	1513	[0.39]	10.62	1738	0.38
7-epi-α-Selinene	11.89*†	1513	[0.39]	10.24	1705	0.02
Selina-4(15),7(11)-diene	12.08	1528	0.23	10.33*	1713	0.40
Selina-4,7(11)-diene?	12.13	1532	0.17	10.29	1710	0.16
Selina-3,7(11)-diene	12.17	1534	0.22	10.33*	1713	[0.40]
α-Elemol	12.32	1546	1.53	13.85	2027	1.54
Unknown [m/z 145, 105 (99), 107 (67), 91 (63), 121 (63), 147 (56), 119 (53)... 218 (37)]	12.48	1559	0.33			
Unknown [m/z 173, 216 (68), 159 (52), 43 (33)]	12.62*	1570	0.14	12.86	1935	0.06
trans-5,11-Epoxycalamenene?	12.62*	1570	[0.14]	12.98	1946	0.03
Unknown [m/z 43, 91 (87), 121 (69), 191 (66), 206 (64)... 218 (5)]	12.79	1583	0.04	13.59	2002	0.04
Guaiol	12.96*	1597	12.31	13.97	2038	12.13
Eudesm-5-en-11-ol	12.96*	1597	[12.31]	14.15	2056	0.77
5,7-diepi-α-Eudesmol	13.02*	1601	0.34	14.40	2079	0.19
Unknown [m/z 149, 59 (90), 161 (60), 81 (46), 93 (44), 105 (37), 108 (35)... 222? (2)]	13.02*	1601	[0.34]			
Unknown [m/z 43, 81 (97), 135 (71), 95 (62), 204 (61), 71 (59), 207 (56)... 222 (3)]	13.08*	1606	0.81	14.30	2070	0.23
4,10-diepi-Guaiol	13.08*	1606	[0.81]	14.07*	2048	0.55
Unknown [m/z 43, 91 (90), 107 (84), 191 (68), 206 (63), 161 (61)... 222 (5)]	13.08*	1606	[0.81]	14.43	2082	0.10
Eremoligenol?	13.29	1623	0.55	14.72	2112	0.93
γ-Eudesmol	13.36*	1629	7.84	14.68	2108	7.53
Unknown [m/z 105, 161 (51), 91 (36), 59 (30), 147 (29), 189 (24), 204 (23)... 218 (t)]	13.36*	1629	[7.84]	14.87	2126	0.36

Hinesol	13.41	1633	0.31	14.80	2119	0.55
Unknown [m/z 59, 161 (53), 81 (47), 204 (40), 107 (36), 95 (33), 93 (33)... 222 (1)]	13.46	1637	0.40	14.07*	2048	[0.55]
β-Eudesmol	13.56	1646	5.89	15.22	2161	5.67
Unknown [m/z 214, 161 (86), 173 (82), 172 (79), 199 (75), 189 (75), 204 (70)...]	13.61*	1650	5.69	14.83	2122	0.23
α-Eudesmol	13.61*	1650	[5.69]	15.13*†	2152	14.38
Unknown [m/z 204, 161 (97), 59 (87), 189 (78), 105 (45)...]	13.61*	1650	[5.69]	15.04*	2143	1.12
Selin-11-en-4α-ol	13.65*	1653	1.28	15.42	2180	0.69
Unknown [m/z 81, 79 (81), 93 (79), 91 (72), 105 (67), 67 (55), 119 (52)...]	13.65*	1653	[1.28]	17.01	2347	0.77
Hanamyol	13.71	1658	0.23	15.38	2177	0.19
Bulnesol	13.80	1665	10.39	15.13*†	2152	[14.38]
Unknown [m/z 162, 147 (84), 91 (36), 105 (21), 107 (17)... 220 (t)]	13.81	1666	0.32			
Unknown [m/z 135, 107 (99), 59 (90), 93 (81), 161 (68), 105 (65)...]	13.88	1672	0.25			
Unknown [m/z 91, 121 (98), 79 (94), 93 (90), 105 (81), 81 (74)... 218 (24)]	13.90	1673	0.11	15.04*	2143	[1.12]
Unknown [m/z 95, 107 (98), 93 (97), 69 (93), 67 (91), 79 (91)... 218 (49)...]	14.02	1683	0.29			
Unknown [m/z 91, 175 (90), 105 (85), 81 (82), 119 (80), 93 (76)... 218 (18)]	14.17	1696	0.22	17.44	2394	0.22
Unknown [m/z 133, 93 (97), 131 (85), 145 (83), 107 (69)...220]	14.24	1701	0.12	16.70	2314	0.10
Unknown [m/z 93, 81 (90), 95 (86), 91 (83), 41 (83), 107 (81)... 220 (29), 238? (4)]	14.29	1706	0.02	17.08	2354	2.57
Chamazulene	14.44	1719	0.12	16.56	2299	0.16
Unknown [m/z 137, 91 (76), 41 (69), 159 (65), 105 (62), 173	14.48	1722	0.14			

(57), 79 (54)... 236 (20)]						
γ-Costol	14.71	1742	2.92	17.80	2433	2.73
Unknown [m/z 91, 105 (86), 93 (67), 79 (63), 119 (60), 159 (63), 77 (52)... 218 (24)]	14.73	1744	0.51			
Unknown [m/z 91, 105 (89), 79 (84), 93 (77), 107 (67), 189 (64), 145 (62), 119 (61)... 220 (16)...]	14.75	1746	0.07			
β-Costol	14.91	1759	2.01	18.37*†	2498	[3.94]
α-Costol	14.98*	1766	1.97	18.34†	2494	3.94
Guaiazulene	14.98*	1766	[1.97]	16.67	2310	0.08
Methyl γ-costate	15.12	1777	0.35	15.46	2184	0.24
Methyl β-costate	15.28	1792	0.13	15.98	2239	0.10
Methyl α-costate?	15.31*	1794	0.55	15.91	2231	0.15
Callitrin isomer	15.31*	1794	[0.55]	18.37*†	2498	[3.94]
Callitrin	15.54	1814	1.56	18.71	2537	1.67
Callitrisin analog I	15.96	1852	1.39	18.96	2565	1.13
Unknown [m/z 159, 44 (26), 105 (22), 119 (21), 232 (20)]	16.33	1886	0.40	19.13	2584	0.39
Dihydrocolumellarin	16.45	1897	10.44	19.24	2598	10.03
Unknown [m/z 145, 219 (49), 105 (20), 91 (18), 234 (16)... 256 (t)]	16.48	1900	0.37	19.42	2619	0.37
Unknown [m/z 145, 121 (34), 219 (31), 105 (27), 91 (25), 161 (20)... 256 (5)]	16.58	1909	0.16	20.27	2721	0.25
Unknown [m/z 204, 119 (71), 91 (69), 105 (63), 131 (58), 143 (57), 93 (53)... 234? (6)]	16.61	1912	0.21			
Unknown [m/z 145, 219 (70), 105 (45), 107 (29)... 234 (25)]	16.64	1915	0.02			
Unknown [m/z 93, 79 (76), 68 (68), 234 (67)]	16.73	1923	0.33			
Callitrisin analog II	16.81*	1930	2.27	20.60	2761	0.15
Callitrisin	16.81*	1930	[2.27]	20.79*	2784	0.69
Unknown [m/z 159, 91 (82), 69 (77), 93 (76), 79 (63), 81 (62)...]	16.81*	1930	[2.27]	20.18*	2710	2.27
Columellarin	16.91	1940	0.86	20.18*	2710	[2.27]

Unknown [m/z 68, 107 (49), 67 (46), 122 (42)... 234 (18)]	16.95	1944	0.18			
Dihydrocallitrisin	17.05	1953	0.16	20.79*	2784	[0.69]
Unknown [m/z 121, 145 (65), 161 (60), 105 (41), 160 (36)... 234 (23)]	17.08	1957	0.13	20.68	2771	0.16
Unknown [m/z 93, 81 (88), 79 (69), 107 (65), 95 (61)...]	18.73	2118	0.03			
Sandaracopimarinal?	19.15	2162	0.06	20.06	2695	0.05
6,7-Dehydroferruginol?	20.52	2308	0.02			
Total identified		**90.23%**			**84.49%**	
Total reported		**95.57%**			**90.47%**	

*: 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