Date : September 10, 2021

Certificate of Analysis – GC Profiling

Sample identification

Internal code : 21H27-PTH08
Customer identification : Juniper Berry - Serbia - J201112011R
Type : Essential oil
Source : *Juniperus communis*
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 : Sarah-Eve Tremblay, M. Sc. A., Chimiste
Analysis date : September 07, 2021

Checked and approved by :

Alexis St-Gelais, M. Sc., Chimiste 2013-174

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Méthode certifiée ISO 17025:2017 Certified method

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PHYSICOCHEMICAL DATA

Physical aspect: Clear liquid
Refractive index: 1.4742 ± 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
Isoamyl alcohol	0.01	Aliphatic alcohol
2-Methylbutanol	tr	Aliphatic alcohol
Toluene	tr	Simple phenolic
Unknown	tr	Alkene
Cyclofenchene	tr	Monoterpene
Bornylene	tr	Monoterpene
(4*E*)-2,6-Dimethyloctene	0.01	Monoterpene
Hashishene	0.01	Monoterpene
Tricyclene	0.10	Monoterpene
α-Thujene	0.13	Monoterpene
α-Pinene	43.93	Monoterpene
α-Fenchene	0.03	Monoterpene
Camphene	0.28	Monoterpene
Thuja-2,4(10)-diene	0.05	Monoterpene
meta-Cymene	tr	Monoterpene
Sabinene	14.02	Monoterpene
β-Pinene	8.56	Monoterpene
Unknown	0.03	Monoterpene
Octen-3-ol	tr	Aliphatic alcohol
6-Methyl-5-hepten-2-one	0.02	Aliphatic ketone
Myrcene	3.56	Monoterpene
2-Carene	0.02	Monoterpene
Pseudolimonene	tr	Monoterpene
α-Phellandrene	0.17	Monoterpene
Menthatriene isomer I	0.01	Monoterpene
Δ3-Carene	0.10	Monoterpene
α-Terpinene	0.02	Monoterpene
para-Cymene	0.31	Monoterpene
β-Phellandrene	0.04	Monoterpene
1,8-Cineole	0.02	Monoterpenic ether
Limonene	7.54	Monoterpene
(*Z*)-β-Ocimene	tr	Monoterpene
(*E*)-β-Ocimene	0.01	Monoterpene
γ-Terpinene	1.02	Monoterpene
cis-Sabinene hydrate	0.01	Monoterpenic alcohol
Unknown	0.01	Oxygenated monoterpene
meta-Cymenene	0.01	Monoterpene
trans-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
para-Cymenene	0.02	Monoterpene
Terpinolene	0.53	Monoterpene
α-Pinene oxide	0.05	Monoterpenic ether
6,7-Epoxymyrcene	0.01	Monoterpenic ether
trans-Sabinene hydrate	0.01	Monoterpenic alcohol
Linalool	0.07	Monoterpenic alcohol

Nonanal	tr	Aliphatic aldehyde
endo-Fenchol	tr	Monoterpenic alcohol
cis-para-Menth-2-en-1-ol	0.02	Monoterpenic alcohol
α-Campholenal	0.02	Monoterpenic aldehyde
cis-Limonene oxide	0.01	Monoterpenic ether
trans-Pinocarveol	0.11	Monoterpenic alcohol
Camphor	0.01	Monoterpenic ketone
cis-Verbenol	0.02	Monoterpenic alcohol
trans-Verbenol	0.12	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.01	Monoterpenic alcohol
Pinocamphone	0.01	Monoterpenic ketone
Pinocarvone	0.01	Monoterpenic ketone
Borneol	0.03	Monoterpenic alcohol
α-Phellandren-8-ol	0.02	Monoterpenic alcohol
Terpinen-4-ol	4.18	Monoterpenic alcohol
para-Cymen-8-ol	0.04	Monoterpenic alcohol
α-Terpineol	0.98	Monoterpenic alcohol
Myrtenal	0.01	Monoterpenic aldehyde
Myrtenol	0.04	Monoterpenic alcohol
trans-Isopiperitenol	0.01	Monoterpenic alcohol
Verbenone	0.04	Monoterpenic ketone
trans-Carveol	0.05	Monoterpenic alcohol
cis-Carveol	0.03	Monoterpenic alcohol
Citronellol	0.01	Monoterpenic alcohol
Thymol methyl ether	0.02	Monoterpenic ether
Carvone	0.03	Monoterpenic ketone
Carvacrol methyl ether	0.02	Monoterpenic ether
Piperitone	0.01	Monoterpenic ketone
Geraniol	0.02	Monoterpenic alcohol
Methyl citronellate	0.01	Monoterpenic ester
trans-Ascaridole glycol	0.01	Monoterpenic alcohol
Decanol	0.01	Aliphatic alcohol
Bornyl acetate	0.11	Monoterpenic ester
2-Undecanone	tr	Aliphatic ketone
Terpinyl acetate analog	tr	Monoterpenic ester
Bicycloelemene	0.01	Sesquiterpene
α-Terpinyl acetate	0.22	Monoterpenic ester
α-Cubebene	0.01	Sesquiterpene
Citronellyl acetate	0.03	Monoterpenic ester
α-Copaene	0.04	Sesquiterpene
cis-β-Elemene	0.01	Sesquiterpene
β-Cubebene	0.01	Sesquiterpene
β-Elemene	0.04	Sesquiterpene
α-Funebrene	0.01	Sesquiterpene
Longifolene	0.01	Sesquiterpene
α-Gurjunene	0.01	Sesquiterpene
α-Cedrene	0.11	Sesquiterpene
β-Funebrene	0.01	Sesquiterpene
β-Caryophyllene	3.71	Sesquiterpene
β-Cedrene	0.04	Sesquiterpene
β-Copaene	0.06	Sesquiterpene
γ-Elemene	0.02	Sesquiterpene

Aromadendrene	tr	Sesquiterpene
α-Himachalene	0.01	Sesquiterpene
trans-Muurola-3,5-diene	0.09	Sesquiterpene
α-Humulene	2.20	Sesquiterpene
allo-Aromadendrene	0.02	Sesquiterpene
(*E*)-β-Farnesene	0.02	Sesquiterpene
β-Acoradiene	0.02	Sesquiterpene
trans-Cadina-1(6),4-diene	0.03	Sesquiterpene
Germacrene D	1.44	Sesquiterpene
γ-Muurolene	0.05	Sesquiterpene
β-Selinene	0.01	Sesquiterpene
ar-Curcumene	0.02	Sesquiterpene
γ-Amorphene	0.01	Sesquiterpene
α-Selinene	0.04	Sesquiterpene
Bicyclogermacrene	0.01	Sesquiterpene
α-Muurolene	0.03	Sesquiterpene
Cuparene	0.02	Sesquiterpene
γ-Cadinene	0.06	Sesquiterpene
β-Bisabolene	0.02	Sesquiterpene
Cubebol	0.01	Sesquiterpenic alcohol
α-Alaskene	0.06	Sesquiterpene
β-Curcumene	tr	Sesquiterpene
δ-Cadinene	0.92	Sesquiterpene
trans-Calamenene	0.02	Sesquiterpene
trans-Cadina-1,4-diene	0.01	Sesquiterpene
Selina-4(15),7(11)-diene	0.01	Sesquiterpene
α-Cadinene	0.01	Sesquiterpene
α-Calacorene	tr	Sesquiterpene
Selina-3,7(11)-diene	0.01	Sesquiterpene
α-Elemol	0.04	Sesquiterpenic alcohol
Germacrene B	0.09	Sesquiterpene
Caryophyllenyl alcohol	0.02	Sesquiterpenic alcohol
Spathulenol	0.02	Sesquiterpenic alcohol
Caryophyllene oxide	0.08	Sesquiterpenic ether
Caryophyllene oxide isomer	0.02	Sesquiterpenic ether
allo-Cedrol	0.11	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
Sesquithuriferol?	1.29	Sesquiterpenic alcohol
Humulene epoxide I	0.01	Sesquiterpenic ether
α-Cedrol	tr	Sesquiterpenic alcohol
Humulene epoxide II	0.05	Sesquiterpenic ether
epi-Cedrol	0.01	Sesquiterpenic alcohol
10-epi-Cubenol	0.03	Sesquiterpenic alcohol
β-Acorenol	0.02	Sesquiterpenic alcohol
Unknown	0.05	Unknown
τ-Muurolol	0.02	Sesquiterpenic alcohol
τ-Cadinol	0.02	Sesquiterpenic alcohol
α-Muurolol	0.02	Sesquiterpenic alcohol
α-Eudesmol	0.02	Sesquiterpenic alcohol
α-Cadinol	0.02	Sesquiterpenic alcohol
Cedrenol analog	0.01	Sesquiterpenic alcohol
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	0.01	Sesquiterpenic alcohol

Germacra-4(15),5,10(14)-trien-1-ol isomer	0.01	Sesquiterpenic alcohol
Mayurone?	tr	Norsesquiterpenic ketone
Germacra-4(15),5,10(14)-trien-1β-ol?	tr	Sesquiterpenic alcohol
Aromadendrane-4,10-diol	0.01	Sesquiterpenic alcohol
Thujopsenal analog	0.01	Sesquiterpenic aldehyde
Cedryl acetate	0.02	Sesquiterpenic ester
Unknown	0.01	Oxygenated sesquiterpene
meta-Camphorene	0.24	Diterpene
Trachylobane?	0.03	Diterpene
para-Camphorene	0.09	Diterpene
18-Norabieta-8,11,13-triene?	0.03	Norditerpene
ar-Abietatriene	0.03	Diterpene
7,13-Abietadiene	0.12	Diterpene
Unknown	tr	Unknown
Sandaracopimarinal?	0.01	Diterpenic aldehyde
Abieta-7,13-dien-3-one	0.01	Diterpenic ketone
Abietol	0.02	Diterpenic alcohol
Consolidated total	**98.92%**	

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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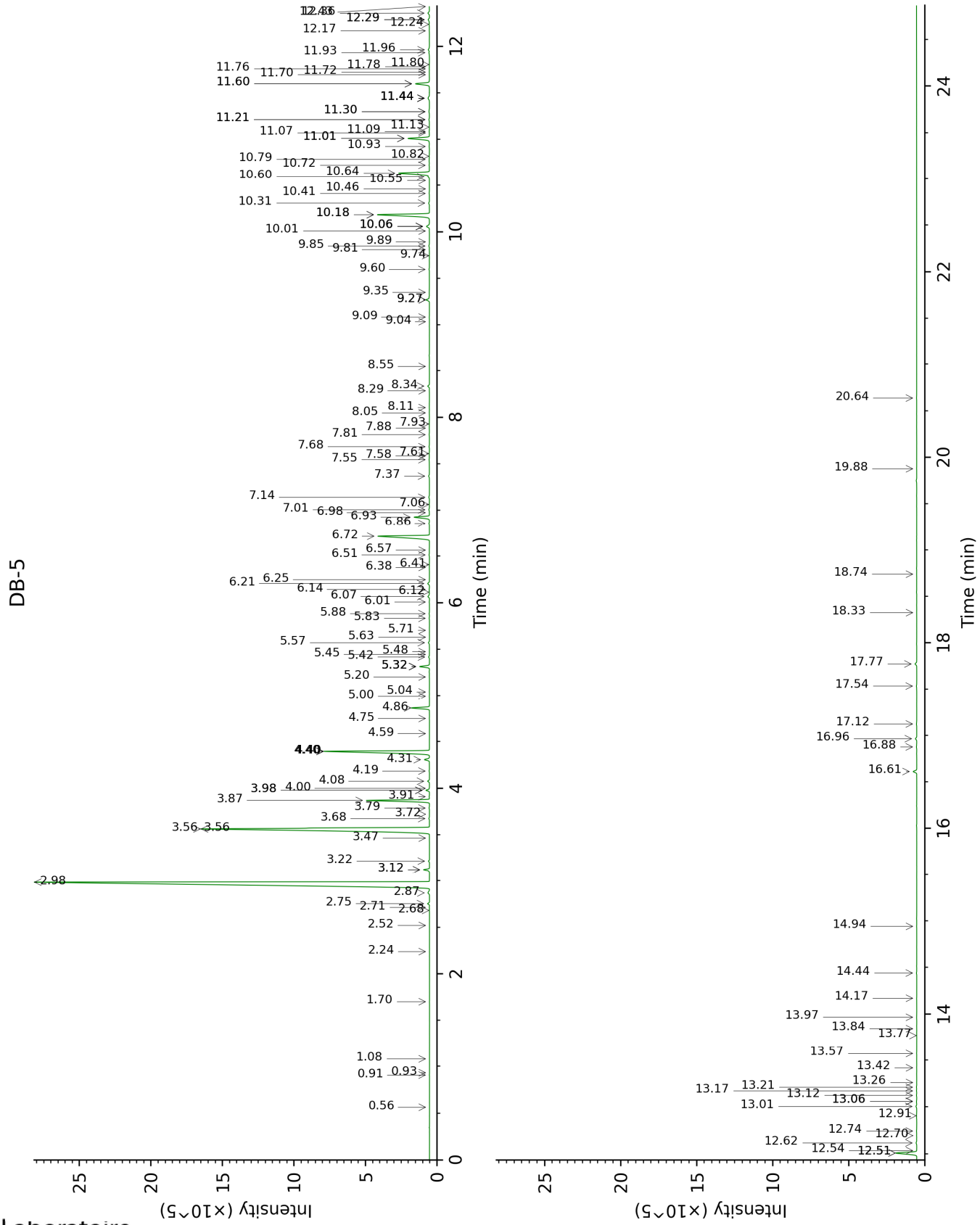
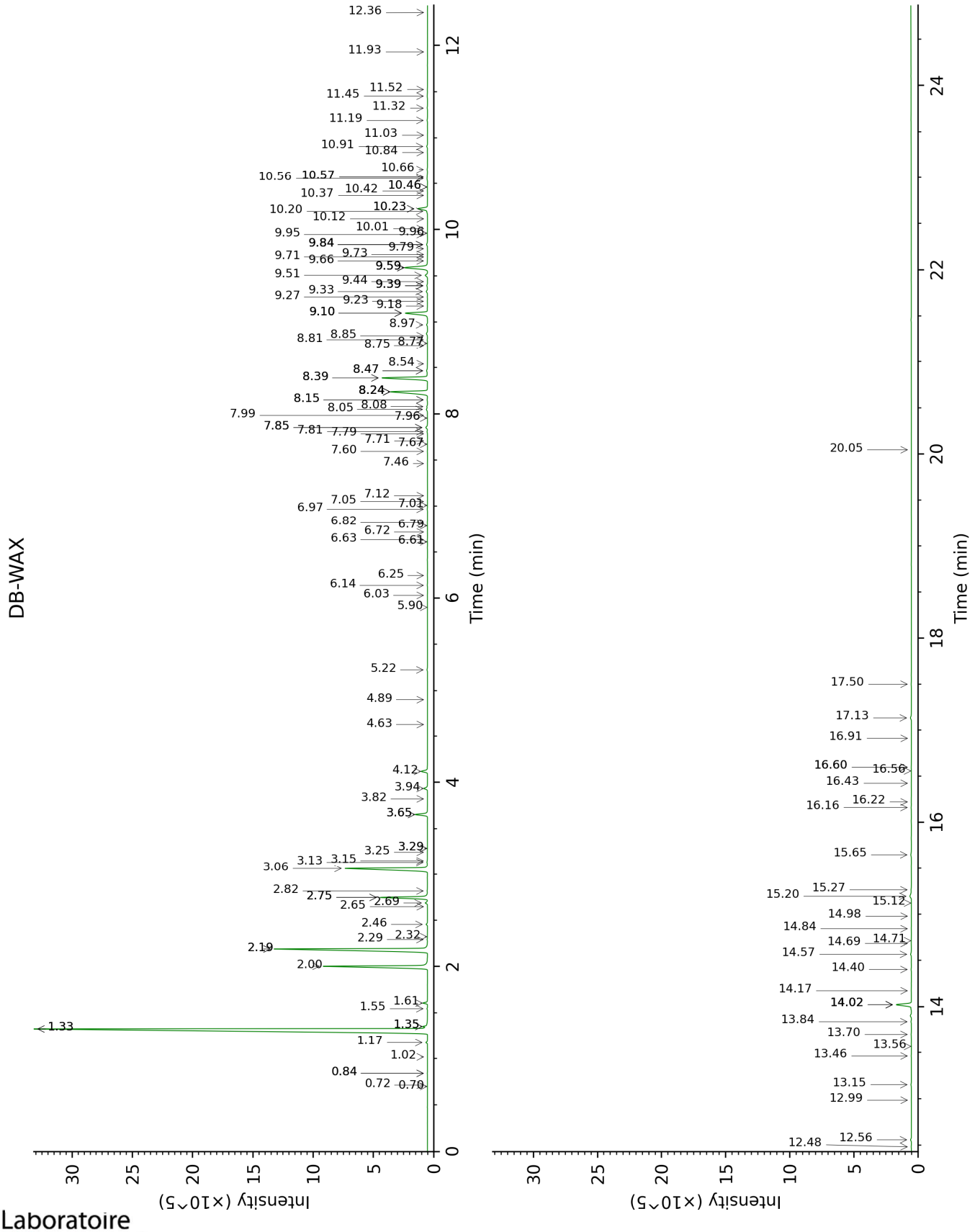

DB-5
Intensity (×10^5)
Time (min)
12.86
12.29
12.24
12.17
11.93
11.96
11.76
11.70
11.72
11.78
11.80
11.60
11.44
11.30
11.21
11.07
11.09
11.13
11.01
10.93
10.82
10.79
10.72
10.64
10.60
10.55
10.46
10.41
10.31
10.18
10.06
10.01
9.89
9.85
9.81
9.74
9.60
9.35
9.27
9.09
9.04
8.55
8.34
8.29
8.11
8.05
7.93
7.88
7.81
7.68
7.61
7.58
7.55
7.37
7.14
7.06
7.01
6.98
6.93
6.86
6.72
6.57
6.51
6.41
6.38
6.25
6.21
6.14
6.12
6.07
6.01
5.88
5.83
5.71
5.63
5.57
5.48
5.45
5.42
5.32
5.20
5.04
5.00
4.86
4.75
4.59
4.40
4.31
4.19
4.08
4.00
3.98
3.91
3.87
3.79
3.72
3.68
3.56
3.56
3.47
3.22
3.12
2.98
2.87
2.75
2.71
2.68
2.52
2.24
1.70
1.08
0.93
0.91
0.56
20.64
19.88
18.74
18.33
17.77
17.54
17.12
16.96
16.88
16.61
14.94
14.44
14.17
13.97
13.84
13.77
13.57
13.42
13.26
13.21
13.17
13.12
13.06
13.01
12.91
12.74
12.70
12.62
12.54
12.51


DB-WAX
Intensity (×10^5)
Time (min)
12.36
11.93
11.52
11.45
11.32
11.19
11.03
10.91
10.84
10.66
10.57
10.56
10.46
10.42
10.37
10.23
10.20
10.12
10.01
9.96
9.95
9.84
9.79
9.73
9.71
9.66
9.59
9.51
9.44
9.39
9.33
9.27
9.23
9.18
9.10
8.97
8.85
8.81
8.77
8.75
8.54
8.47
8.39
8.24
8.15
8.08
8.05
7.99
7.96
7.85
7.81
7.79
7.71
7.67
7.60
7.46
7.12
7.05
7.01
6.97
6.82
6.79
6.72
6.63
6.61
6.25
6.14
6.03
5.90
5.22
4.89
4.63
4.12
3.94
3.82
3.65
3.29
3.25
3.15
3.13
3.06
2.82
2.75
2.69
2.65
2.46
2.32
2.29
2.19
2.00
1.61
1.55
1.35
1.33
1.17
1.02
0.84
0.72
0.70
20.05
17.50
17.13
16.91
16.60
16.56
16.43
16.22
16.16
15.65
15.27
15.20
15.12
14.98
14.84
14.71
14.69
14.57
14.40
14.17
14.02
13.84
13.70
13.56
13.46
13.15
12.99
12.56
12.48

FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Isovaleral	0.56	642	tr	0.72	885	tr
Isoamyl alcohol	0.91	731	0.01	3.29*	1176	0.01
2-Methylbutanol	0.93	735	tr	3.29*	1176	[0.01]
Toluene	1.08	758	tr	1.35*	1000	0.35
Unknown [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	1.70	831	tr	0.70	879	tr
Cyclofenchene	2.24	878	tr	0.84*	914	0.01
Bornylene	2.52	902	tr	1.02	944	tr
(4*E*)-2,6-Dimethyloctene	2.68	914	0.01	0.84*	914	[0.01]
Hashishene	2.71	916	0.01	1.33*	997	44.07
Tricyclene	2.75	918	0.10	1.17	971	0.10
α-Thujene	2.87	926	0.13	1.35*	1000	[0.35]
α-Pinene	2.98	934	43.93	1.33*	997	[44.07]
α-Fenchene	3.12*	943	0.31	1.55	1020	0.03
Camphene	3.12*	943	[0.31]	1.61	1026	0.28
Thuja-2,4(10)-diene	3.22	950	0.05	2.19*	1085	14.12
meta-Cymene	3.47	966	tr	2.75*	1133	3.49
Sabinene	3.56*	973	22.58	2.19*	1085	[14.12]
β-Pinene	3.56*	973	[22.58]	2.00	1066	8.56
Unknown [m/z 93, 79 (73), 67 (49), 95 (42), 91 (41), 121 (38)...]	3.68	981	0.03	2.29	1096	0.02
Octen-3-ol	3.72	984	tr	6.61	1418	tr
6-Methyl-5-hepten-2-one	3.79	988	0.02	4.90	1299	tr
Myrcene	3.87	994	3.56	2.75*	1133	[3.49]
2-Carene	3.91	996	0.02	2.32	1099	0.01
Pseudolimonene	3.98*	1001	0.19	2.65	1125	tr
α-Phellandrene	3.98*	1001	[0.19]	2.69	1128	0.17
Menthatriene isomer I	4.00	1002	0.01	3.24	1173	0.02
Δ3-Carene	4.08	1008	0.10	2.46	1110	0.09
α-Terpinene	4.19	1014	0.02	2.82	1138	0.03
para-Cymene	4.31	1022	0.31	3.94	1227	0.30
β-Phellandrene	4.40*	1028	7.63	3.14	1164	0.04
1,8-Cineole	4.40*	1028	[7.63]	3.15	1165	0.02
Limonene	4.40*	1028	[7.63]	3.06	1158	7.54
(*Z*)-β-Ocimene	4.59	1040	tr	3.65*	1206	1.01
(*E*)-β-Ocimene	4.75	1050	0.01	3.82	1218	0.01
γ-Terpinene	4.86	1057	1.02	3.65*	1206	[1.01]
cis-Sabinene hydrate	5.00	1066	0.01	6.79	1431	0.01
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77	5.04	1069	0.01	4.63	1279	tr

(26), 91 (20), 152 (18)]						
meta-Cymenene	5.20	1079	0.01	6.03	1376	0.02
trans-Linalool oxide (fur.)	5.32*	1086	0.57	6.72	1426	0.01
para-Cymenene	5.32*	1086	[0.57]	6.14	1384	0.02
Terpinolene	5.32*	1086	[0.57]	4.12	1241	0.53
α-Pinene oxide	5.42	1092	0.05	5.22	1317	0.05
6,7-Epoxymyrcene	5.45	1094	0.01	5.90	1366	0.01
trans-Sabinene hydrate	5.48	1096	0.01	7.79	1506	tr
Linalool	5.57	1102	0.07	7.85*	1512	0.18
Nonanal	5.63	1106	tr			
endo-Fenchol	5.70	1111	tr	8.24*	1542	3.83
cis-para-Menth-2-en-1-ol	5.83	1119	0.02	7.96	1520	0.02
α-Campholenal	5.88	1122	0.02	6.82	1434	0.02
cis-Limonene oxide	6.01	1130	0.01	6.25	1391	0.01
trans-Pinocarveol	6.07	1134	0.11	8.97	1599	0.08
Camphor	6.12	1137	0.01	7.05	1451	0.01
cis-Verbenol	6.14	1139	0.02	9.10*†	1609	2.22
trans-Verbenol	6.21	1143	0.12	9.33	1628	0.12
meta-Mentha-4,6-dien-8-ol	6.25	1146	0.01	9.18	1615	0.01
Pinocamphone	6.38	1154	0.01	7.12	1456	0.01
Pinocarvone	6.41	1156	0.01	7.71	1500	0.01
Borneol	6.52	1163	0.03	9.59*	1649	2.45
α-Phellandren-8-ol	6.57	1166	0.02	10.01	1683	0.01
Terpinen-4-ol	6.72	1176	4.18	8.39*	1554	4.13
para-Cymen-8-ol	6.86	1185	0.04	11.32	1794	0.03
α-Terpineol	6.93	1189	0.98	9.59*	1649	[2.45]
Myrtenal	6.98	1192	0.01	8.54	1565	0.01
Myrtenol	7.01	1194	0.04	10.66	1738	0.04
trans-Isopiperitenol	7.06	1198	0.01	10.23*	1701	0.93
Verbenone	7.14	1203	0.04	9.44	1637	0.01
trans-Carveol	7.37	1218	0.05	11.19	1783	0.05
cis-Carveol	7.55	1230	0.03	11.52	1812	0.02
Citronellol	7.58	1233	0.01	10.57*	1730	0.05
Thymol methyl ether	7.61	1234	0.02	8.24*	1542	[3.83]
Carvone	7.68	1239	0.03	9.80	1666	0.02
Carvacrol methyl ether	7.81	1248	0.02	8.47*	1560	0.12
Piperitone	7.88	1253	0.01	9.73	1661	0.01
Geraniol	7.93	1256	0.02	11.45	1806	0.05
Methyl citronellate	8.05	1264	0.01	8.05	1527	0.12
trans-Ascaridole glycol	8.10	1268	0.01	14.02*	2041	1.42
Decanol	8.29	1280	0.01	10.56	1729	0.06
Bornyl acetate	8.34	1283	0.11	8.08	1529	0.06
2-Undecanone	8.55	1297	tr	8.47*	1560	[0.12]
Terpinyl acetate analog	9.04	1331	tr	9.40*	1633	0.08

Bicycloelemene	9.08	1335	0.01	6.97	1445	0.03
α-Terpinyl acetate	9.27*	1348	0.22	9.51	1642	0.22
α-Cubebene	9.27*	1348	[0.22]	6.63	1420	0.01
Citronellyl acetate	9.35	1354	0.03	9.27	1623	0.02
α-Copaene	9.60	1371	0.04	7.01	1448	0.01
cis-β-Elemene	9.74	1382	0.01	8.15*	1535	0.04
β-Cubebene	9.81	1386	0.01	7.60	1492	0.02
β-Elemene	9.85	1389	0.04	8.24*	1542	[3.83]
α-Funebrene	9.89	1392	0.01	7.67	1498	0.01
Longifolene	10.01	1400	0.01	7.81	1508	0.04
α-Gurjunene	10.06*	1404	0.23	7.46	1482	0.01
α-Cedrene	10.06*	1404	[0.23]	7.85*	1512	[0.18]
β-Funebrene	10.06*	1404	[0.23]	7.98	1522	0.01
β-Caryophyllene	10.18*	1413	3.86	8.24*	1542	[3.83]
β-Cedrene	10.18*	1413	[3.86]	8.15*	1535	[0.04]
β-Copaene	10.31	1422	0.06	8.24*	1542	[3.83]
γ-Elemene	10.41	1430	0.02	8.85	1590	0.01
Aromadendrene	10.46	1434	tr	8.39*	1554	[4.13]
α-Himachalene	10.55	1441	0.01	8.77	1583	tr
trans-Muurola-3,5-diene	10.60	1444	0.09	8.75	1581	0.01
α-Humulene	10.64	1447	2.20	9.10*†	1609	[2.22]
allo-Aromadendrene	10.72	1453	0.02	8.81	1586	0.02
(*E*)-β-Farnesene	10.79	1458	0.02	9.40*	1633	[0.08]
β-Acoradiene	10.82	1461	0.02	9.23	1620	0.02
trans-Cadina-1(6),4-diene	10.92	1468	0.03	9.10*†	1609	[2.22]
Germacrene D	11.01*	1475	1.51	9.59*	1649	[2.45]
γ-Muurolene	11.01*	1475	[1.51]	9.40*	1633	[0.08]
β-Selinene	11.07	1479	0.01	9.71	1658	0.02
ar-Curcumene	11.09	1480	0.02	10.46*	1721	0.02
γ-Amorphene	11.13	1484	0.01	9.66	1655	0.01
α-Selinene	11.21*	1490	0.05	9.84*	1669	0.10
Bicyclogermacrene	11.21*	1490	[0.05]	9.95	1678	0.01
α-Muurolene	11.30*	1496	0.06	9.84*	1669	[0.10]
Cuparene	11.30*	1496	[0.06]	10.84	1753	0.02
γ-Cadinene	11.44*	1507	0.15	10.20	1699	0.06
β-Bisabolene	11.44*	1507	[0.15]	9.96	1679	0.02
Cubebol	11.44*	1507	[0.15]	12.36	1886	0.01
α-Alaskene	11.44*	1507	[0.15]	9.84*	1669	[0.10]
β-Curcumene	11.44*	1507	[0.15]	10.12	1692	tr
δ-Cadinene	11.60*	1519	0.96	10.23*	1701	[0.93]
trans-Calamenene	11.60*	1519	[0.96]	11.03	1769	0.02
trans-Cadina-1,4-diene	11.70	1527	0.01	10.46*	1721	[0.02]
Selina-4(15),7(11)-diene	11.72	1529	0.01	10.42	1718	0.02
α-Cadinene	11.76	1532	0.01	10.57*	1730	[0.05]
α-Calacorene	11.78	1534	tr	11.93	1848	0.01
Selina-3,7(11)-diene	11.80	1536	0.01	10.37	1713	0.01
α-Elemol	11.93	1546	0.04	13.84	2024	0.03
Germacrene B	11.96	1548	0.09	10.91	1759	0.08

Caryophyllenyl alcohol	12.17	1564	0.02	13.46	1988	0.02
Spathulenol	12.24	1570	0.02	14.17	2056	0.02
Caryophyllene oxide	12.29*	1574	0.10	12.56	1904	0.08
Caryophyllene oxide isomer	12.29*	1574	[0.10]	12.48	1897	0.02
allo-Cedrol	12.36	1579	0.11	14.02*	2041	[1.42]
Unknown [m/z 159, 83 (88), 55 (53), 93 (50), 121 (48)... 220 (9)]	12.43	1585	0.01			
Sesquithuriferol?	12.51*	1591	1.43	14.02*	2041	[1.42]
Humulene epoxide I	12.51*	1591	[1.43]	12.99	1944	0.01
α-Cedrol	12.54	1593	tr	14.02*	2041	[1.42]
Humulene epoxide II	12.62	1600	0.05	13.15	1959	0.05
epi-Cedrol	12.70	1606	0.01	14.57	2094	0.10
10-epi-Cubenol	12.74	1610	0.03	13.56	1997	tr
β-Acorenol	12.91	1623	0.02	14.68	2106	0.02
Unknown [m/z 43, 93 (89), 91 (88), 79 (87), 123 (76), 81 (75)...]	13.01	1632	0.05	13.70	2010	0.03
τ-Muurolol	13.06*	1636	0.03	14.84	2121	0.02
τ-Cadinol	13.06*	1636	[0.03]	14.71	2108	0.02
α-Muurolol	13.12	1641	0.02	14.98	2135	0.01
α-Eudesmol	13.17	1645	0.02	15.12	2149	0.01
α-Cadinol	13.21	1648	0.02	15.26	2164	0.05
Cedrenol analog	13.26	1653	0.01	16.22	2262	0.01
(3*Z*)-Caryophylla-3,8(13)-dien-5β-ol	13.42	1666	0.01	16.60*	2301	0.03
Germacra-4(15),5,10(14)-trien-1-ol isomer	13.57	1678	0.01	16.56	2297	0.01
Mayurone?	13.77	1695	tr	16.91	2335	0.01
Germacra-4(15),5,10(14)-trien-1β-ol?	13.84	1701	tr	16.42	2283	0.01
Aromadendrane-4,10-diol	13.97	1711	0.01	16.60*	2301	[0.03]
Thujopsenal analog	14.17	1729	0.01			
Cedryl acetate	14.44	1753	0.02	14.40	2078	0.03
Unknown [m/z 121, 136 (53), 91 (22), 93 (19), 79 (15), 105 (13)... 220 (3)]	14.94	1796	0.01			
meta-Camphorene	16.61	1950	0.24	15.20	2156	0.24
Trachylobane?	16.88	1975	0.03	16.16	2256	0.03
para-Camphorene	16.96	1983	0.09	15.65	2202	0.09
18-Norabieta-8,11,13-triene?	17.12	1998	0.03			
ar-Abietatriene	17.54	2039	0.03	17.50	2399	0.04
7,13-Abietadiene	17.78	2063	0.12	17.13	2359	0.12

Unknown [m/z 93, 81 (88), 79 (69), 107 (65), 95 (61)...]	18.33	2118	tr			
Sandaracopimarinal?	18.74	2161	0.01	20.05	2693	tr
Abieta-7,13-dien-3-one	19.88	2282	0.01			
Abietol	20.64	2367	0.02			
Total identified		**99.21%**			**99.09%**	
Total reported		**99.33%**			**99.15%**	

*: 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