Date : 2026-02-11

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 25L08-PTH02
Customer Identification : Helichrysum Italicum ORGANIC - Serbia - H90114R
Type : Essential Oil
Source : *Helichrysum italicum*
Customer : Plant Therapy

Checked an approved by:

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

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

This report is an update of the version first issued on 2025-12-10 to make a correction in the sample identification section.

Méthode certifiée ISO 17025:2017 Certified method

Laboratoire PhytoChemia

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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 : 2025-12-10

Physicochemical data

Refractive index : 1.4786 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2025-12-09

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
2-Methylbutyral	0.01	Aliphatic aldehyde
3-Pentanone	0.03	Aliphatic ketone
2-Ethylfuran	0.01	Furan
2-Methylbutanol	0.01	Aliphatic alcohol
2-Methyl-3-pentanone	0.06	Aliphatic ketone
Unknown	0.01	Unknown
Unknown	0.02	Unknown
Hexanal	tr	Aliphatic aldehyde
Octane	0.01	Alkane
2-Methyl-2-heptene	0.09	Alkene
4-Methyl-3-hexanone	0.14	Aliphatic ketone
(3*Z*)-Hexenol	0.03	Aliphatic alcohol
(2*E*)-Hexenol	0.01	Aliphatic alcohol
Hexanol	0.03	Aliphatic alcohol
Nonane	0.03	Alkane
Bornylene	0.03	Monoterpene
Tricyclene	0.01	Monoterpene
α-Thujene	0.02	Monoterpene
α-Pinene	15.22	Monoterpene
α-Fenchene	0.40	Monoterpene
Camphene	0.15	Monoterpene
Thuja-2,4(10)-diene	0.02	Monoterpene
Sabinene	0.01	Monoterpene
β-Pinene	0.63	Monoterpene
6-Methyl-5-hepten-2-one	0.03	Aliphatic ketone
Myrcene	0.05	Monoterpene
trans-Dehydroxylinalool oxide	0.03	Monoterpenic ether
2-Pentylfuran	0.01	Furan
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
2-Carene	0.02	Monoterpene
Unknown	0.03	Monoterpene
α-Phellandrene	0.01	Monoterpene
Isobutyl 2-methylbutyrate	0.04	Aliphatic ester
(3*Z*)-Hexenyl acetate	0.02	Aliphatic ester
α-Terpinene	0.14	Monoterpene
para-Methylanisole	0.04	Simple phenolic
para-Cymene	0.48	Monoterpene
1,8-Cineole	[0.45]	Monoterpenic ether
Limonene	3.62	Monoterpene
β-Phellandrene	[0.45]	Monoterpene

(*Z*)-β-Ocimene	0.02	Monoterpene
(*E*)-β-Ocimene	0.05	Monoterpene
Isobutyl angelate	0.22	Aliphatic ester
γ-Terpinene	0.38	Monoterpene
Octanol	0.01	Aliphatic alcohol
Terpinolene	0.16	Monoterpene
para-Cymenene	tr	Monoterpene
2-Nonanone	0.05	Aliphatic ketone
Isobutyl tiglate	0.01	Aliphatic ester
2,4-Dimethylheptane-3,5-dione	0.07	β-Diketone
Linalool	1.07	Monoterpenic alcohol
Nonanal	0.06	Aliphatic aldehyde
2-Methylbutyl 2-methylbutyrate	0.08	Aliphatic ester
endo-Fenchol	0.02	Monoterpenic alcohol
α-Campholenal	0.01	Monoterpenic aldehyde
trans-Pinocarveol	0.06	Monoterpenic alcohol
Unknown	0.02	Unknown
trans-Verbenol	0.05	Monoterpenic alcohol
para-Vinylanisole	0.03	Simple phenolic
Nerol oxide	0.01	Aliphatic ether
Isoamyl angelate	0.02	Aliphatic ester
Pinocarvone	0.15	Monoterpenic ketone
2-Methylbutyl angelate	0.58	Aliphatic ester
Borneol	0.05	Monoterpenic alcohol
Unknown	0.01	Aliphatic ester
Terpinen-4-ol	0.32	Monoterpenic alcohol
4,6-Dimethyloctane-3,5-dione epimer I	0.21	β-Diketone
4,6-Dimethyloctane-3,5-dione epimer II	0.22	β-Diketone
α-Terpineol	0.34	Monoterpenic alcohol
Myrtenol	0.03	Monoterpenic alcohol
2-Methylbutyl tiglate	0.03	Aliphatic ester
Unknown	0.02	Unknown
Decanal	0.02	Aliphatic aldehyde
Unknown	0.01	Unknown
Unknown	0.03	Unknown
Unknown	0.05	β-Diketone
Nerol	1.70	Monoterpenic alcohol
(3*Z*)-Hexenyl 2-methylbutyrate	0.15	Aliphatic ester
Hexyl 2-methylbutyrate	0.01	Aliphatic ester
(3*Z*)-Hexenyl isovalerate	0.02	Aliphatic ester
Hexyl isovalerate	0.01	Aliphatic ester
Isoamyl hexanoate	0.01	Aliphatic ester
3-Methylpentyl angelate	0.01	Aliphatic ester
Unknown	0.04	Aliphatic ester
Unknown	0.08	Aliphatic ester

(3*Z*)-Hexenyl angelate	tr	Aliphatic ester
Neryl formate	0.17	Monoterpenic ester
Hexyl angelate	0.14	Aliphatic ester
2-Undecanone	0.06	Aliphatic ketone
Tridecane	tr	Alkane
Myrtenyl acetate	0.01	Monoterpenic ester
Hexyl tiglate	0.01	Aliphatic ester
Bicycloelemene	0.01	Sesquiterpene
α-Terpinyl acetate	0.02	Monoterpenic ester
Eugenol	0.02	Phenylpropanoid
Cyclosativene I	0.02	Sesquiterpene
Cyclosativene II	0.17	Sesquiterpene
α-Ylangene	0.07	Sesquiterpene
Neryl acetate	14.41	Monoterpenic ester
α-Copaene	0.89	Sesquiterpene
Italicene isomer	0.85	Sesquiterpene
Sativene	0.03	Sesquiterpene
Geranyl acetate	0.02	Monoterpenic ester
α-Funebrene	0.15	Sesquiterpene
Hexyl hexanoate	0.01	Aliphatic ester
Isoitalicene	0.15	Sesquiterpene
Italicene	3.09	Sesquiterpene
Isocaryophyllene	0.07	Sesquiterpene
α-Gurjunene	0.02	Sesquiterpene
α-Cedrene	0.02	Sesquiterpene
β-Caryophyllene	3.92	Sesquiterpene
β-Ylangene	0.05	Sesquiterpene
cis-α-Bergamotene	1.04	Sesquiterpene
β-Copaene	0.05	Sesquiterpene
trans-α-Bergamotene	1.06	Sesquiterpene
6,9-Guaiadiene	1.07	Sesquiterpene
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	1.18	β-Diketone
Unknown	0.05	Sesquiterpene
Cadina-4,11-diene	0.08	Sesquiterpene
α-Humulene	0.28	Sesquiterpene
Neryl propionate	2.25	Monoterpenic ester
allo-Aromadendrene	0.10	Sesquiterpene
α-Acoradiene	0.30	Sesquiterpene
β-Acoradiene	0.30	Sesquiterpene
4,5-diepi-Aristolochene	0.33	Sesquiterpene
Unknown	0.12	Sesquiterpene
Selina-4,11-diene	1.80	Sesquiterpene
γ-Curcumene	7.55	Sesquiterpene
ar-Curcumene	3.20	Sesquiterpene

β-Selinene	6.62	Sesquiterpene
Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	1.12	β-Diketone
Unknown	0.02	Sesquiterpene
Valencene	0.91	Sesquiterpene
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	0.77	β-Diketone
α-Selinene	4.09	Sesquiterpene
Eudesma-2,4(15),11-triene	0.07	Sesquiterpene
α-Muurolene	0.04	Sesquiterpene
Italidione II analog	0.21	β-Diketone
δ-Amorphene	0.20	Sesquiterpene
β-Bisabolene	0.19	Sesquiterpene
γ-Cadinene	0.20	Sesquiterpene
7-epi-α-Selinene	0.20	Sesquiterpene
β-Curcumene	0.01	Sesquiterpene
Sesquicineole	0.04	Sesquiterpenic ether
Zonarene	0.03	Sesquiterpene
trans-Calamenene	0.31	Sesquiterpene
δ-Cadinene	0.24	Sesquiterpene
cis-Calamenene	0.04	Sesquiterpene
Italicene ether	0.18	Sesquiterpenic ether
(*E*)-γ-Bisabolene	0.09	Sesquiterpene
α-Cadinene	0.04	Sesquiterpene
Selina-3,7(11)-diene	tr	Sesquiterpene
Phenylethyl angelate?	0.05	Phenolic ester
α-Calacorene	0.06	Sesquiterpene
(*E*)-α-Bisabolene	0.11	Sesquiterpene
Isocaryophyllene epoxide B	0.03	Sesquiterpenic ether
β-Calacorene	0.02	Sesquiterpene
Caryophyllenyl alcohol	0.01	Sesquiterpenic alcohol
(*E*)-Nerolidol	0.09	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.04	Sesquiterpenic ether
Italidione III isomer I	0.07	β-Diketone
Caryophyllene oxide	0.72	Sesquiterpenic ether
Neryl 2-methylbutyrate	0.29	Monoterpenic ester
Italidione III isomer II	0.30	β-Diketone
Italidione III isomer III	0.39	β-Diketone
Guaiol	0.22	Sesquiterpenic alcohol
Copaborneol	0.14	Sesquiterpenic alcohol
Eudes*m*-5-en-11-ol	0.62	Sesquiterpenic alcohol
Unknown	0.17	Oxygenated sesquiterpene
Unknown	0.10	Oxygenated sesquiterpene
Unknown	0.06	Unknown
Neryl angelate?	0.05	Monoterpenic ester

1-epi-Cubenol	0.03	Sesquiterpenic alcohol
Caryophylladienol I	0.09	Sesquiterpenic alcohol
γ-Eudesmol	0.05	Sesquiterpenic alcohol
Eudesmol analog?	0.28	Sesquiterpenic alcohol
Caryophylladienol II	0.03	Sesquiterpenic alcohol
τ-Cadinol	0.07	Sesquiterpenic alcohol
τ-Muurolol	0.02	Sesquiterpenic alcohol
β-Eudesmol	0.19	Sesquiterpenic alcohol
α-Muurolol	0.05	Sesquiterpenic alcohol
α-Eudesmol	0.09	Sesquiterpenic alcohol
Selin-11-en-4α-ol	0.22	Sesquiterpenic alcohol
Neointermedeol	0.10	Sesquiterpenic alcohol
Bulnesol	0.05	Sesquiterpenic alcohol
β-Bisabolol	0.09	Sesquiterpenic alcohol
epi-α-Bisabolol	0.05	Sesquiterpenic alcohol
α-Bisabolol	0.06	Sesquiterpenic alcohol
Neryl 4-methylvalerate?	0.01	Monoterpenic ester
Unknown	0.09	Unknown
Geranyl 4-methylvalerate?	0.03	Monoterpenic ester
Unknown	0.17	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Geranyl hexanoate	0.02	Monoterpenic ester
Unknown	0.10	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.10	Oxygenated sesquiterpene
Unknown	0.20	Oxygenated sesquiterpene
Unknown	0.08	Oxygenated sesquiterpene
trans-Bisabola-1(6),10-diene-2,3-diol	0.60	Sesquiterpenic alcohol
Unknown	0.13	Unknown
Cryptomeridiol	0.05	Sesquiterpenic alcohol
Unknown	0.01	Unknown
Unknown	0.35	Unknown
Consolidated total	**96.23**	

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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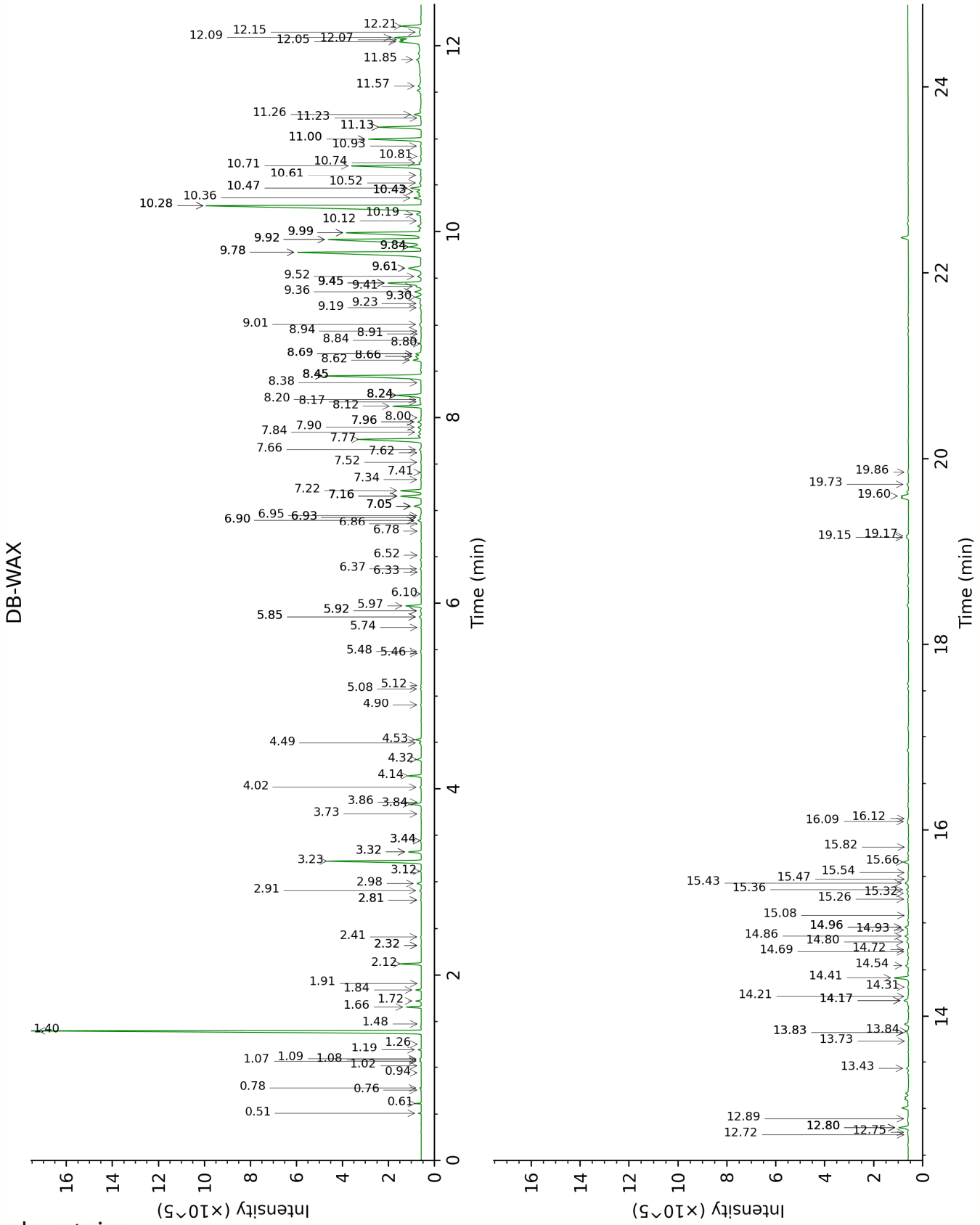
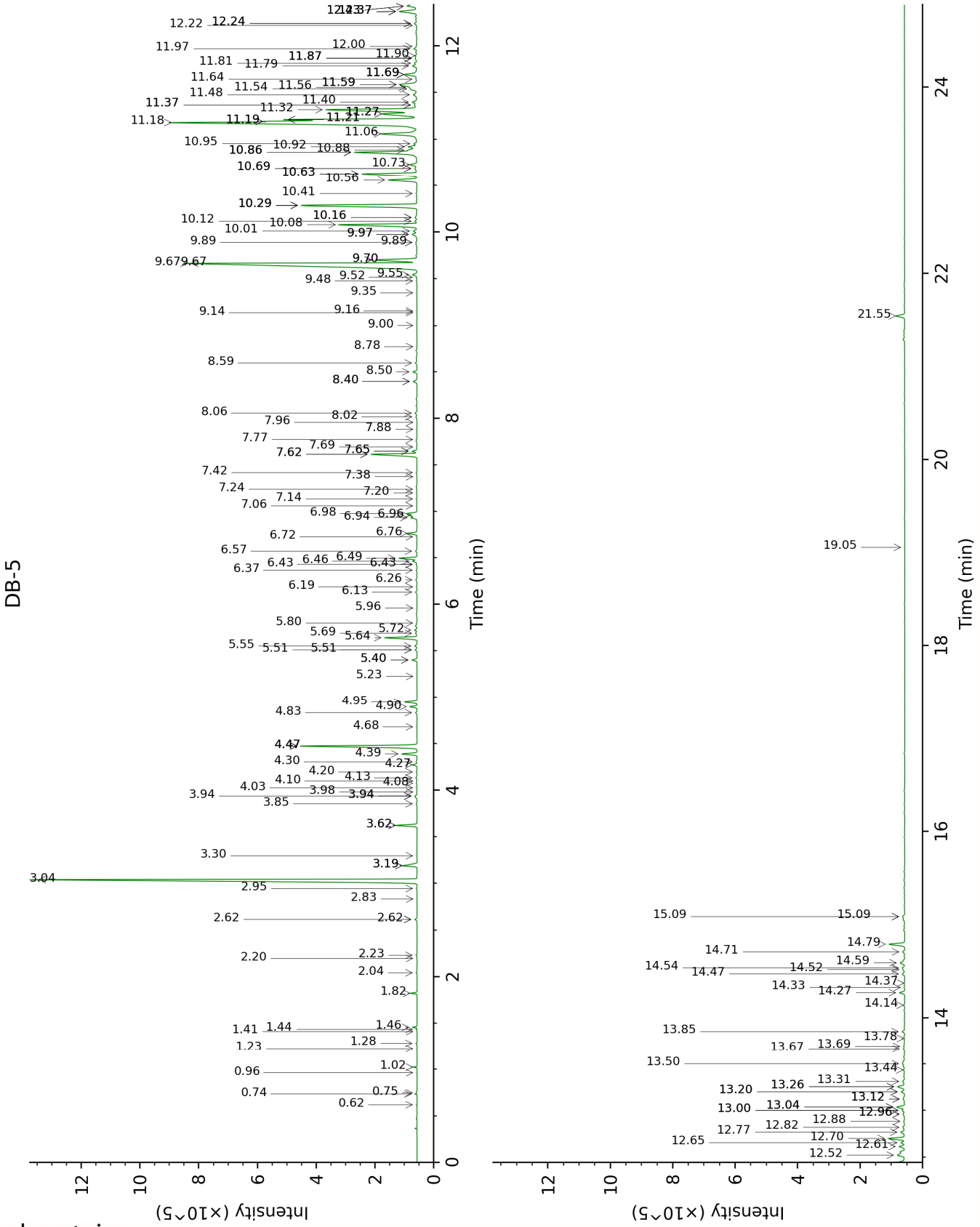

DB-WAX
Time (min)
Intensity (×10^5)
12.21
12.09
12.15
12.05
12.07
11.85
11.57
11.26
11.23
11.13
11.00
10.93
10.81
10.71
10.74
10.61
10.52
10.47
10.43
10.28
10.36
10.19
10.12
9.92
9.99
9.78
9.84
9.61
9.52
9.45
9.41
9.36
9.30
9.19
9.23
9.01
8.94
8.91
8.84
8.80
8.69
8.62
8.66
8.45
8.38
8.24
8.20
8.17
8.12
7.96
8.00
7.84
7.90
7.77
7.66
7.62
7.52
7.41
7.34
7.22
7.16
7.05
6.90
6.95
6.93
6.86
6.78
6.52
6.37
6.33
6.10
5.92
5.97
5.85
5.74
5.48
5.46
5.08
5.12
4.90
4.49
4.53
4.32
4.14
4.02
3.86
3.84
3.73
3.44
3.32
3.23
3.12
2.98
2.91
2.81
2.41
2.32
2.12
1.91
1.84
1.72
1.66
1.48
1.40
1.19
1.26
1.07
1.09
1.08
1.02
0.94
0.78
0.76
0.61
0.51
19.86
19.73
19.60
19.15
19.17
16.09
16.12
15.82
15.66
15.54
15.47
15.43
15.36
15.32
15.26
15.08
14.96
14.93
14.86
14.80
14.69
14.72
14.54
14.41
14.31
14.21
14.17
13.83
13.84
13.73
13.43
12.89
12.72
12.80
12.75


DB-5
Intensity (×10^5)
Time (min)
12.24
12.22
12.00
11.97
11.87
11.90
11.81
11.79
11.69
11.64
11.59
11.54
11.56
11.48
11.40
11.37
11.32
11.27
11.18
11.19
11.21
11.06
10.95
10.92
10.88
10.86
10.73
10.69
10.63
10.56
10.41
10.29
10.16
10.12
10.08
10.01
9.97
9.89
9.89
9.67
9.70
9.48
9.52
9.55
9.35
9.14
9.16
9.00
8.78
8.59
8.50
8.40
8.06
8.02
7.96
7.88
7.77
7.69
7.65
7.62
7.42
7.38
7.24
7.20
7.14
7.06
6.98
6.94
6.96
6.72
6.76
6.57
6.49
6.46
6.43
6.37
6.43
6.26
6.19
6.13
5.96
5.80
5.72
5.69
5.64
5.55
5.51
5.51
5.40
5.23
4.95
4.90
4.83
4.68
4.47
4.39
4.30
4.27
4.20
4.13
4.10
4.08
4.03
3.98
3.94
3.94
3.85
3.62
3.30
3.19
3.04
2.95
2.83
2.62
2.62
2.20
2.23
2.04
1.82
1.41
1.44
1.46
1.28
1.23
1.02
0.96
0.75
0.74
0.62
21.55
19.05
15.09
15.09
14.79
14.71
14.59
14.54
14.52
14.47
14.37
14.33
14.27
14.14
13.85
13.78
13.69
13.67
13.50
13.44
13.31
13.26
13.20
13.12
13.04
13.00
12.96
12.88
12.82
12.77
12.70
12.65
12.61
12.52

FULL ANALYSIS DATA

	Column DB-WAX			Column DB-5		
2-Methylbutyral	0.76	882.0	0.01	0.62	653.5	0.01
3-Pentanone	1.07	939.8	0.03	0.74	696.0	0.03
2-Ethylfuran	0.94	919.3	0.01	0.75	700.3	0.01
2-Methylbutanol	3.44*	1176.3	[0.04]	0.96	735.5	0.01
2-Methyl-3-pentanone	1.19	959.9	0.06	1.02	744.2	0.06
Unknown HEIT III [m/z 73, 41 (54), 87 (50), 56 (47), 54 (29), 55 (25), 100 (23)... 115? (6)]	1.02	931.8	0.01	1.23	773.8	0.01
Unknown HEIT II [m/z 73, 87 (52), 41 (45), 56 (42), 100 (29)...]	1.08	941.8	0.02	1.28	782.2	0.02
Hexanal	1.91	1044.9	0.01	1.41	800.8	tr
Octane	0.51	785.0	0.04	1.44	804.3	0.01
2-Methyl-2-heptene	0.62	829.8	0.09	1.46	806.6	0.09
4-Methyl-3-hexanone	1.84	1038.0	0.15	1.82	837.3	0.14
(3*Z*)-Hexenol	5.85*	1351.3	[0.08]	2.04	855.9	0.03
(2*E*)-Hexenol	6.10	1368.9	0.02	2.20	869.0	0.01
Hexanol	5.48	1324.9	0.03	2.23	871.9	0.03
Nonane	0.78	890.5	0.03	2.62*	904.5	[0.07]
Bornylene	1.10	944.0	0.03	2.62*	904.5	[0.07]
Tricyclene	1.26	970.8	tr	2.83	919.1	0.01
α-Thujene	1.48	1001.8	0.01	2.95	926.6	0.02
α-Pinene	1.40	994.4	15.22	3.04	933.0	15.22
α-Fenchene	1.66	1019.8	0.40	3.19*	943.1	[0.56]
Camphene	1.72	1026.3	0.15	3.19*	943.1	[0.56]
Thuja-2,4(10)-diene	2.32*	1085.6	[0.02]	3.30	950.2	0.02
Sabinene	2.32*	1085.6	[0.02]	3.62*	972.0	[0.64]
β-Pinene	2.12	1066.0	0.63	3.62*	972.0	[0.64]
6-Methyl-5-hepten-2-one	5.08	1298.1	0.03	3.86	987.6	0.03
Myrcene	2.91	1134.0	0.05	3.94*	993.1	[0.10]
trans-Dehydroxylinalool oxide	3.44*	1176.3	[0.04]	3.94*	993.1	[0.10]
2-Pentylfuran	3.73	1198.8	0.01	3.94*	993.1	[0.10]
6-Methyl-5-	6.95	1430.5	0.03	3.98	996.0	0.02

hepten-2-ol						
2-Carene	2.41	1094.8	0.02	4.03	999.1	0.02
Unknown HEIT I [m/z = 123, 43 (16), 152 (14), 124 (9), 137 (6)]	2.81*	1126.0	[0.03]	4.08	1002.4	0.03
α-Phellandrene	2.81*	1126.0	[0.03]	4.10	1004.0	0.01
Isobutyl 2-methylbutyrate	3.12	1150.3	0.04	4.13	1006.1	0.04
(3*Z*)-Hexenyl acetate	4.90	1285.0	0.03	4.20	1010.1	0.02
α-Terpinene	2.98	1140.0	0.14	4.27	1015.0	0.14
para-Methylanisole	6.37	1388.1	0.04	4.30	1017.0	0.04
para-Cymene	4.14	1228.9	0.48	4.39	1022.4	0.48
1,8-Cineole	3.32*	1166.8	[0.46]	4.47*	1027.7	[4.07]
Limonene	3.22	1159.0	3.62	4.47*	1027.7	[4.07]
β-Phellandrene	3.32*	1166.8	[0.46]	4.47*	1027.7	[4.07]
(*Z*)-β-Ocimene	3.86	1208.1	0.01	4.68	1040.8	0.02
(*E*)-β-Ocimene	4.02	1219.9	0.04	4.83	1050.4	0.05
Isobutyl angelate	4.53	1257.5	0.22	4.90	1054.5	0.22
γ-Terpinene	3.84	1206.6	0.40	4.95	1057.9	0.38
Octanol	8.24*	1526.8	[1.14]	5.23	1075.6	0.01
Terpinolene	4.32	1241.8	0.16	5.40*	1086.8	[0.16]
para-Cymenene	6.34	1385.5	tr	5.40*	1086.8	[0.16]
2-Nonanone	5.85*	1351.3	[0.08]	5.51*	1093.7	[0.06]
Isobutyl tiglate	5.46	1323.4	0.01	5.51*	1093.7	[0.06]
2,4-Dimethylheptane-3,5-dione	7.66	1482.5	0.09	5.55	1096.4	0.07
Linalool	8.12	1517.8	1.06	5.64	1102.0	1.07
Nonanal	5.92*	1355.9	[0.05]	5.69	1105.0	0.06
2-Methylbutyl 2-methylbutyrate	4.49	1254.9	0.08	5.72	1107.2	0.08
endo-Fenchol	8.45*	1542.8	[5.00]	5.80	1112.1	0.02
α-Campholenal	7.05*	1437.8	[0.34]	5.96	1122.5	0.01
trans-Pinocarveol	9.23	1603.4	0.05	6.13	1133.6	0.06
Unknown HEIT XXIII [m/z 43, 67 (95), 154 (52), 110 (24), 139 (20), 41 (18), 111 (15)...]				6.19	1137.3	0.02
trans-Verbenol	9.61*	1633.8	[0.89]	6.26	1142.1	0.05
para-Vinylanisole	9.45*	1621.0	[1.72]	6.37	1148.8	0.03
Nerol oxide	6.86	1423.9	0.01	6.43*	1152.9	[0.03]

Isoamyl angelate	5.92*	1355.9	[0.05]	6.43*	1152.9	[0.03]
Pinocarvone	7.96*	1504.9	[0.14]	6.46	1155.1	0.15
2-Methylbutyl angelate	5.97	1359.8	0.59	6.49	1157.1	0.58
Borneol	9.84*	1652.1	[0.65]	6.57	1162.1	0.05
Unknown HEIT IV [m/z 83, 100 (34), 55 (33), 43 (21), 84 (21)...]	5.74	1343.2	0.02	6.72	1172.1	0.01
Terpinen-4-ol	8.62†	1555.8	0.33	6.76	1174.5	0.32
4,6-Dimethyloctane-3,5-dione epimer I	8.66*†	1558.9	[0.35]	6.94	1186.0	0.21
4,6-Dimethyloctane-3,5-dione epimer II	8.69*†	1561.0	[0.22]	6.96	1187.5	0.22
α-Terpineol	9.84*	1652.1	[0.65]	6.98	1188.8	0.34
Myrtenol	10.92	1741.8	0.04	7.06	1194.1	0.03
2-Methylbutyl tiglate	6.93*	1428.9	[0.06]	7.14	1199.0	0.03
Unknown PIMA 7 [m/z 95, 93 (32), 121 (24), 79 (22), 91 (21), 105 (16)... 154 (2)]	11.00*	1748.1	[2.33]	7.20	1203.2	0.02
Decanal	7.34	1458.8	0.03	7.24	1205.7	0.02
Unknown HEIT XXII [m/z 81, 57 (91), 168 (73), 67 (52), 140 (45), 41 (36), 113 (27)...]				7.38	1214.9	0.01
Unknown HEIT XXI [m/z 81, 109 (85), 168 (72), 57 (69), 67 (58), 41 (49), 140 (45)...]				7.42	1217.9	0.03
Unknown HEIT V [m/z 113, 57 (55), 85 (16), 170 (16)]				7.62*	1231.2	[1.75]
Nerol	11.13*	1758.9	[1.77]	7.62*	1231.2	[1.75]
(3*Z*)-Hexenyl 2-methylbutyrate	7.16*	1445.8	[0.94]	7.65*	1233.5	[0.16]
Hexyl 2-methylbutyrate	6.52	1398.5	0.01	7.65*	1233.5	[0.16]

(3*Z*)-Hexenyl isovalerate	7.16*	1445.8	[0.94]	7.69	1236.6	0.02
Hexyl isovalerate	6.78	1417.5	0.01	7.77	1242.0	0.01
Isoamyl hexanoate	6.90*	1426.6	[0.14]	7.88	1249.5	0.01
3-Methylpentyl angelate	7.41	1464.5	0.02	7.96	1254.6	0.01
Unknown HEIT VI [m/z 83, 55 (29), 57 (24), 100 (21), 104 (13)...]	6.90*	1426.6	[0.14]	8.02	1258.6	0.04
Unknown HEIT VII [m/z 83, 55 (30), 57 (23), 100 (20), 98 (14)...]	7.05*	1437.8	[0.34]	8.06	1261.4	0.08
(3*Z*)-Hexenyl angelate	8.24*	1526.8	[1.14]	8.40*	1284.6	[0.16]
Neryl formate	9.52	1626.7	0.17	8.40*	1284.6	[0.16]
Hexyl angelate	7.96*	1504.9	[0.14]	8.50	1291.6	0.14
2-Undecanone	8.69*†	1561.0	[0.22]	8.59	1298.1	0.06
Tridecane	5.12	1298.9	0.02	8.78	1306.6	tr
Myrtenyl acetate	9.61*	1633.8	[0.89]	9.00	1322.8	0.01
Hexyl tiglate	8.94	1580.3	0.02	9.14	1332.5	0.01
Bicycloelemene	7.05*	1437.8	[0.34]	9.16	1333.8	0.01
α-Terpinyl acetate	9.78*	1647.4	[7.57]	9.35	1347.6	0.02
Eugenol	14.86	2099.8	0.16	9.48	1356.6	0.02
Cyclosativene I	6.93*	1428.9	[0.06]	9.52	1359.5	0.02
Cyclosativene II	7.05*	1437.8	[0.34]	9.55	1361.4	0.17
α-Ylangene	7.05*	1437.8	[0.34]	9.67*	1370.0	[14.48]
Neryl acetate	10.28*	1687.5	[14.42]	9.67*	1370.0	[14.48]
α-Copaene	7.16*	1445.8	[0.94]	9.70*	1372.6	[1.74]
Italicene isomer	7.22	1450.1	0.85	9.70*	1372.6	[1.74]
Sativene	7.52	1472.5	0.03	9.89*	1385.9	[0.05]
Geranyl acetate	10.61*	1715.0	[0.06]	9.89*	1385.9	[0.05]
α-Funebrene	7.90	1500.4	0.15	9.98*	1392.0	[0.23]
Hexyl hexanoate	8.91	1577.9	0.01	9.98*	1392.0	[0.23]
Isoitalicene	7.84	1496.3	0.15	10.01	1394.5	0.15
Italicene	7.77	1490.6	3.11	10.08	1399.4	3.09
Isocaryophyllene	8.20	1523.2	0.07	10.12	1402.1	0.07
α-Gurjunene	7.62	1480.0	0.02	10.16*	1404.9	[0.11]
α-Cedrene	8.00	1508.3	0.02	10.16*	1404.9	[0.11]
β-Caryophyllene	8.45*	1542.8	[5.00]	10.28*	1414.6	[5.01]
β-Ylangene	8.17	1521.4	0.05	10.28*	1414.6	[5.01]
cis-α-Bergamotene	8.24*	1526.8	[1.14]	10.28*	1414.6	[5.01]

β-Copaene	8.38	1537.1	0.03	10.41	1424.1	0.05
trans-α-Bergamotene	8.45*	1542.8	[5.00]	10.56	1435.1	1.06
6,9-Guaiadiene	8.66*†	1558.9	[0.35]	10.63*	1440.2	[2.25]
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	12.05	1838.2	1.18	10.63*	1440.2	[2.25]
Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	8.80	1569.9	0.05	10.69*	1444.7	[0.12]
Cadina-4,11-diene	9.19	1599.8	0.08	10.69*	1444.7	[0.12]
α-Humulene	9.30	1608.9	0.27	10.73	1447.8	0.28
Neryl propionate	11.00*	1748.1	[2.33]	10.86*	1457.8	[2.65]
allo-Aromadendrene	9.01	1585.7	0.10	10.86*	1457.8	[2.65]
α-Acoradiene	9.36	1613.5	0.30	10.86*	1457.8	[2.65]
β-Acoradiene	9.42	1618.1	0.20	10.88	1459.5	0.30
4,5-diepi-Aristolochene	9.45*	1621.0	[1.72]	10.92	1462.3	0.33
Unknown CEDE VI [m/z 119, 91 (85), 93 (77), 105 (76), 79 (61), 134 (60), 94 (49), 204 (46)]	9.45*	1621.0	[1.72]	10.95	1464.7	0.12
Selina-4,11-diene	9.45*	1621.0	[1.72]	11.06	1472.6	1.80
γ-Curcumene	9.78*	1647.4	[7.57]	11.18*†	1481.7	[11.84]
ar-Curcumene	10.71	1723.9	3.20	11.19*†	1482.7	[2.94]
β-Selinene	9.92*	1658.4	[5.94]	11.19*†	1482.7	[2.94]
Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	12.09	1842.1	1.12	11.21*†	1484.1	[3.75]
Unknown CILI III [m/z 41, 69 (90), 79 (78), 93 (72), 91 (70)...204]	8.84	1572.6	0.02	11.21*†	1484.1	[3.75]
Valencene	9.92*	1658.4	[5.94]	11.27*	1488.7	[1.68]
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	12.07	1840.0	0.77	11.27*	1488.7	[1.68]
α-Selinene	9.99*	1664.3	[4.14]	11.32	1492.1	4.09
Eudesma-	11.13*	1758.9	[1.77]	11.37*	1495.8	[0.11]

2,4(15),11-triene						
α-Muurolene	10.12	1674.5	0.04	11.37*	1495.8	[0.11]
Italidione II analog	12.80*	1904.9	[0.43]	11.40	1498.2	0.21
δ-Amorphene	9.99*	1664.3	[4.14]	11.48	1504.1	0.20
β-Bisabolene	10.19	1680.2	0.22	11.54	1509.1	0.19
γ-Cadinene	10.43*	1700.0	[0.23]	11.56	1510.3	0.20
7-epi-α-Selinene	10.47*	1703.2	[0.44]	11.59*	1512.7	[1.06]
β-Curcumene	10.28*	1687.5	[14.42]	11.59*	1512.7	[1.06]
Sesquicineole	10.36	1694.3	0.27	11.64	1517.2	0.04
Zonarene	10.43*	1700.0	[0.23]	11.69*	1521.2	[0.61]
trans-Calamenene	11.26	1770.3	0.31	11.69*	1521.2	[0.61]
δ-Cadinene	10.47*	1703.2	[0.44]	11.69*	1521.2	[0.61]
cis-Calamenene	11.23	1767.1	0.04	11.69*	1521.2	[0.61]
Italicene ether	11.57	1796.3	0.17	11.79	1528.5	0.18
(*E*)-γ-Bisabolene	10.52	1707.8	0.09	11.82	1530.8	0.09
α-Cadinene	10.81	1732.5	0.04	11.87*	1535.0	[0.10]
Selina-3,7(11)-diene	10.61*	1715.0	[0.06]	11.87*	1535.0	[0.10]
Phenylethyl angelate?	14.31	2046.7	0.05	11.87*	1535.0	[0.10]
α-Calacorene	12.15	1847.1	0.18	11.90	1537.2	0.06
(*E*)-α-Bisabolene	10.74	1726.6	0.10	11.97	1543.0	0.11
Isocaryophyllene epoxide B	12.21	1852.9	0.87	12.00	1545.1	0.03
β-Calacorene	12.72	1897.9	0.05	12.22	1562.8	0.02
Caryophyllenyl alcohol	13.73	1991.1	0.01	12.24*	1564.3	[0.10]
(*E*)-Nerolidol	13.83*	1999.9	[0.09]	12.24*	1564.3	[0.10]
Caryophyllene oxide isomer	12.75	1900.3	0.04	12.37*	1574.7	[0.83]
Italidione III isomer I	12.89	1913.7	0.07	12.37*	1574.7	[0.83]
Caryophyllene oxide	12.80*	1904.9	[0.43]	12.37*	1574.7	[0.83]
Neryl 2-methylbutyrate	11.85	1821.2	0.29	12.43*	1579.4	[0.59]
Italidione III isomer II				12.43*	1579.4	[0.59]
Italidione III isomer III	12.80*	1904.9	[0.43]	12.52	1586.5	0.39
Guaiol	14.17*	2032.8	[0.26]	12.61	1593.8	0.22
Copaborneol	14.96*	2109.3	[0.16]	12.65	1597.1	0.14
Eudes*m*-5-en-11-ol	14.41	2056.3	0.62	12.70	1600.7	0.62

Unknown MIAL II [m/z 43, 81 (97), 135 (71), 95 (62), 204 (61), 71 (59), 207 (56)... 222 (3)]	14.54	2068.8	0.14	12.77	1606.1	0.17
Unknown MECA V [m/z 179, 161 (66), 119 (44), 95 (38), 105 (35)... 204 (24), 222 (1)]	14.69	2083.1	0.04	12.82	1610.4	0.10
Unknown HEIT VIII [m/z 182, 109 (58), 69 (50), 41 (42), 43 (40), 139 (31)... 235 (17), 250 (1)...]	14.17*	2032.8	[0.26]	12.88	1615.8	0.06
Neryl angelate?				12.96*	1622.1	[0.09]
1-epi-Cubenol	13.84	2001.4	0.03	12.96*	1622.1	[0.09]
Caryophylladienol I	16.09	2224.1	0.09	13.00*	1625.5	[0.10]
γ-Eudesmol	14.93	2106.3	0.05	13.00*	1625.5	[0.10]
Eudesmol analog?				13.04*	1628.5	[0.31]
Caryophylladienol II	16.12	2227.3	0.03	13.04*	1628.5	[0.31]
τ-Cadinol	14.96*	2109.3	[0.16]	13.12*	1635.6	[0.10]
τ-Muurolol	15.08	2121.8	0.02	13.12*	1635.6	[0.10]
β-Eudesmol	15.43	2156.5	0.19	13.20*	1642.1	[0.14]
α-Muurolol	15.26	2139.4	0.05	13.20*	1642.1	[0.14]
α-Eudesmol	15.36	2149.5	0.09	13.26*	1646.6	[0.32]
Selin-11-en-4α-ol	15.66	2179.1	0.22	13.26*	1646.6	[0.32]
Neointermedeol				13.31	1651.4	0.10
Bulnesol	15.32	2145.6	0.07	13.44	1661.6	0.05
β-Bisabolol	14.80	2093.5	0.13	13.50	1667.2	0.09
epi-α-Bisabolol	15.54	2167.8	0.04	13.67	1680.8	0.05
α-Bisabolol	15.47	2160.7	0.03	13.69	1683.0	0.06
Neryl 4-methylvalerate?	13.43	1963.5	0.08	13.78	1690.2	0.01
Unknown HEIT IX [m/z 196, 69 (62), 109 (58), 41 (54), 139 (41)... 249 (21)...]	14.72	2085.3	0.05	13.85	1696.3	0.09
Geranyl 4-methylvalerate?	13.83*	1999.9	[0.09]	14.14	1720.6	0.03
Unknown HEIT X [m/z 43, 69 (32),				14.27	1732.3	0.17

198 (29), 41 (27), 93 (26)... 202 (20)...]						
Unknown HEIT XI [m/z 82, 125 (40), 41 (35), 69 (31), 67 (27)... 236? (t)]	15.82	2195.5	0.02	14.33	1737.1	0.02
Geranyl hexanoate	14.21	2037.1	0.03	14.37	1741.2	0.02
Unknown HEIT XII [m/z 109, 127 (46), 138 (45), 81 (27), 123 (25)... 220? (2)]	19.17	2562.1	0.08	14.47	1749.8	0.10
Unknown HEIT XIII [m/z 136, 121 (74), 135 (55), 218 (36), 148 (33), 40 (42)... 236? (1)]				14.52	1754.0	0.04
Unknown HEIT XIV [m/z 109, 138 (71), 82 (42), 123 (41), 127 (38)...]	19.15	2559.9	0.09	14.54	1755.5	0.10
Unknown HEIT XVI [m/z 109, 127 (46), 138 (45), 82 (34), 81 (31)... 236? (t)]	19.60	2613.4	0.30	14.59	1760.2	0.20
Unknown HEIT XVII [m/z 109, 138 (75), 123 (45), 127 (42), 81 (30)...]	19.73	2628.4	0.07	14.71	1770.4	0.08
trans-Bisabola-1(6),10-diene-2,3-diol				14.79	1777.6	0.60
Unknown HEIT XIX [m/z 43, 82 (69), 41 (66), 93 (62), 96 (55), 55 (49), 67 (45), 154 (44)...]				15.09*†	1803.3	[0.10]
Cryptomeridiol	19.86	2644.1	0.05	15.09*†	1803.3	[0.10]
Unknown HEIT XXXII [m/z 200, 145 (97), 160 (45),				19.05	2187.3	0.01

185 (40), 43 (38), 157 (31)...]						
Unknown HEIT XXIX [m/z 81, 69 (80), 137 (48), 95 (35), 41 (35), 98 (33)...]				21.55	2463.2	0.35
Total reported	92.35%			97.05%		

*: 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