

Date : 2026-06-30

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 26A13-PTH01

Customer Identification : Helichrysum Italicum ORGANIC - Bosnia and Herzegovina - H90115

Type : Essential Oil

Source : *Helichrysum italicum*

Customer : Plant Therapy

Checked and approved by:

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

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This report is an update of the version first issued on 2026-01-27 to make a modification in the sample identification section.



Laboratoire
PhytoChemia

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 : Jean-Christophe Fortin, M. Sc.

Date : 2026-01-27

PHYSICOCHEMICAL DATA

Refractive index : 1.4797 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2026-01-13

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
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	0.01	Aliphatic aldehyde
3-Pentanone	0.02	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	0.01	Aliphatic aldehyde
Octane	0.01	Alkane
2-Methyl-2-heptene	0.09	Alkene
4-Methyl-3-hexanone	0.13	Aliphatic ketone
Hexanol	0.01	Aliphatic alcohol
Isoamyl acetate	tr	Aliphatic ester
Bornylene	0.03	Monoterpene
Nonane	0.03	Alkane
Hashishene	tr	Monoterpene
Tricyclene	0.01	Monoterpene
α -Thujene	0.02	Monoterpene
α -Pinene	23.61	Monoterpene
Camphene	0.15	Monoterpene
α -Fenchene	0.30	Monoterpene
Thuja-2,4(10)-diene	0.02	Monoterpene
β -Pinene	0.44	Monoterpene
Sabinene	0.01	Monoterpene
6-Methyl-5-hepten-2-one	0.02	Aliphatic ketone
<i>trans</i> -Dehydroxylinalool oxide	0.01	Monoterpenic ether
Myrcene	0.06	Monoterpene
2-Pentylfuran	0.01	Furan
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
2-Carene	0.03	Monoterpene
Unknown	0.01	Monoterpene
α -Phellandrene	0.01	Monoterpene
Isobutyl 2-methylbutyrate	0.06	Aliphatic ester
Δ 3-Carene	0.01	Monoterpene
(3Z)-Hexenyl acetate	tr	Aliphatic ester
α -Terpinene	0.20	Monoterpene
<i>para</i> -Methylanisole	0.02	Simple phenolic
<i>para</i> -Cymene	0.18	Monoterpene
Limonene	2.59	Monoterpene

β-Phellandrene	0.36	Monoterpene
1,8-Cineole	0.01	Monoterpenic ether
(Z)-β-Ocimene	0.01	Monoterpene
(E)-β-Ocimene	0.03	Monoterpene
Isobutyl angelate	0.29	Aliphatic ester
γ-Terpinene	0.45	Monoterpene
Octanol	0.01	Aliphatic alcohol
para-Cymenene	0.01	Monoterpene
Terpinolene	0.18	Monoterpene
2-Nonanone	0.05	Aliphatic ketone
Isobutyl tiglate	0.01	Aliphatic ester
2,4-Dimethylheptane-3,5-dione	0.05	β-Diketone
Linalool	0.84	Monoterpenic alcohol
Nonanal	0.08	Aliphatic aldehyde
2-Methylbutyl 2-methylbutyrate	0.12	Aliphatic ester
endo-Fenchol	0.06	Monoterpenic alcohol
α-Campholenal	0.01	Monoterpenic aldehyde
trans-Pinocarveol	0.05	Monoterpenic alcohol
trans-Verbenol	0.03	Monoterpenic alcohol
para-Vinylanisole	0.03	Simple phenolic
Isoamyl angelate	0.04	Aliphatic ester
Nerol oxide	0.05	Aliphatic ether
Pinocarvone	0.01	Monoterpenic ketone
2-Methylbutyl angelate	0.81	Aliphatic ester
Borneol	0.06	Monoterpenic alcohol
Unknown	0.02	Aliphatic ester
Terpinen-4-ol	0.25	Monoterpenic alcohol
Nonanol	0.04	Aliphatic alcohol
4,6-Dimethyloctane-3,5-dione epimer I	0.18	β-Diketone
4,6-Dimethyloctane-3,5-dione epimer II	0.22	β-Diketone
α-Terpineol	0.25	Monoterpenic alcohol
Myrtenol	0.03	Monoterpenic alcohol
2-Methylbutyl tiglate	0.03	Aliphatic ester
Unknown	0.03	Unknown
Decanal	0.06	Aliphatic aldehyde
Unknown	0.02	Unknown
Unknown	0.01	Unknown
Nerol	0.56	Monoterpenic alcohol
Hexyl 2-methylbutyrate	0.02	Aliphatic ester
(3Z)-Hexenyl isovalerate	0.13	Aliphatic ester
Hexyl isovalerate	0.02	Aliphatic ester
3-Methylpentyl angelate	0.01	Aliphatic ester
Unknown	0.04	Aliphatic ester
Linalyl acetate	0.08	Monoterpenic ester
Unknown	0.04	Aliphatic ester

(3Z)-Hexenyl angelate	0.04	Aliphatic ester
Hexyl angelate	0.33	Aliphatic ester
2-Undecanone	0.05	Aliphatic ketone
Tridecane	0.04	Alkane
Myrtenyl acetate	0.01	Monoterpenic ester
Hexyl tiglate	0.02	Aliphatic ester
Bicycloelemene	0.01	Sesquiterpene
α -Terpinyl acetate	0.02	Monoterpenic ester
Cyclosativene I	0.01	Sesquiterpene
Cyclosativene II	0.32	Sesquiterpene
Neryl acetate	5.32	Monoterpenic ester
α -Ylangene	0.20	Sesquiterpene
Italicene isomer	0.88	Sesquiterpene
α -Copaene	1.76	Sesquiterpene
Geranyl acetate	0.05	Monoterpenic ester
Sativene	0.02	Sesquiterpene
α -Funebrene	0.16	Sesquiterpene
Hexyl hexanoate	0.01	Aliphatic ester
Isoitalicene	0.14	Sesquiterpene
Italicene	3.23	Sesquiterpene
Isocaryophyllene	0.07	Sesquiterpene
α -Cedrene	0.02	Sesquiterpene
α -Gurjunene	0.03	Sesquiterpene
β -Caryophyllene	5.24	Sesquiterpene
β -Ylangene	0.02	Sesquiterpene
<i>cis</i> - α -Bergamotene	0.92	Sesquiterpene
β -Copaene	0.05	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.97	Sesquiterpene
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	2.35	β -Diketone
6,9-Guaiadiene	0.16	Sesquiterpene
Unknown	0.02	Sesquiterpene
Cadina-4,11-diene	0.09	Sesquiterpene
α -Humulene	0.34	Sesquiterpene
allo-Aromadendrene	0.18	Sesquiterpene
Neryl propionate	0.68	Monoterpenic ester
(<i>E</i>)- β -Farnesene	0.89	Sesquiterpene
α -Acoradiene	0.24	Sesquiterpene
4,5-diepi-Aristolochene	0.34	Sesquiterpene
Unknown	0.11	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.30	Sesquiterpene
Selina-4,11-diene	1.42	Sesquiterpene
α -Amorphene	0.19	Sesquiterpene
γ -Curcumene	13.55	Sesquiterpene
β -Selinene	6.22	Sesquiterpene

Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	2.20	β -Diketone
ar-Curcumene	2.07	Sesquiterpene
Unknown	0.06	Sesquiterpene
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	2.15	β -Diketone
α -Selinene	3.89	Sesquiterpene
Eudesma-2,4(15),11-triene	0.18	Sesquiterpene
α -Muurolene	0.29	Sesquiterpene
Italidione II analog	0.09	β -Diketone
δ -Amorphene	0.39	Sesquiterpene
β -Bisabolene	0.20	Sesquiterpene
β -Curcumene	0.44	Sesquiterpene
γ -Cadinene	0.11	Sesquiterpene
7-epi- α -Selinene	1.01	Sesquiterpene
Zonarene	0.41	Sesquiterpene
δ -Cadinene	0.65	Sesquiterpene
Italicene ether	0.18	Sesquiterpenic ether
(<i>E</i>)- γ -Bisabolene	0.09	Sesquiterpene
α -Cadinene	0.11	Sesquiterpene
Selina-3,7(11)-diene	0.07	Sesquiterpene
(<i>E</i>)- α -Bisabolene	0.13	Sesquiterpene
(<i>E</i>)-Nerolidol	0.11	Sesquiterpenic alcohol
Caryophyllenyl alcohol	0.03	Sesquiterpenic alcohol
Caryophyllene oxide	0.15	Sesquiterpenic ether
Italidione III isomer I	0.37	β -Diketone
Italidione III isomer II	0.28	β -Diketone
Neryl isovalerate?	0.24	Monoterpenic ester
Italidione III isomer III	0.24	β -Diketone
Guaiol	0.11	Sesquiterpenic alcohol
Copaborneol	0.22	Sesquiterpenic alcohol
Eudesm-5-en-11-ol	0.25	Sesquiterpenic alcohol
Unknown	0.10	Oxygenated sesquiterpene
Unknown	0.06	Oxygenated sesquiterpene
Neryl angelate?	0.06	Monoterpenic ester
1-epi-Cubenol	0.08	Sesquiterpenic alcohol
γ -Eudesmol	0.01	Sesquiterpenic alcohol
Caryophylladienol II	0.05	Sesquiterpenic alcohol
τ -Muurolol	0.02	Sesquiterpenic alcohol
τ -Cadinol	0.03	Sesquiterpenic alcohol
α -Muurolol	0.03	Sesquiterpenic alcohol
β -Eudesmol	0.04	Sesquiterpenic alcohol
α -Eudesmol	0.09	Sesquiterpenic alcohol
Selin-11-en-4 α -ol	0.17	Sesquiterpenic alcohol
Bulnesol	0.03	Sesquiterpenic alcohol

β-Bisabolol	0.02	Sesquiterpenic alcohol
epi-α-Bisabolol	0.04	Sesquiterpenic alcohol
α-Bisabolol	0.03	Sesquiterpenic alcohol
Neryl 4-methylvalerate?	0.01	Monoterpenic ester
Unknown	0.03	Unknown
Geranyl 4-methylvalerate?	0.02	Monoterpenic ester
Unknown	0.10	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Geranyl hexanoate	0.01	Monoterpenic ester
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
<i>trans</i> -Bisabola-1(6),10-diene-2,3-diol	0.10	Sesquiterpenic alcohol
Unknown	0.03	Unknown
Cryptomeridiol	0.04	Sesquiterpenic alcohol
Phytone	0.02	Terpenic ketone
Unknown	0.01	Unknown
Unknown	0.04	Unknown
Consolidated total	99.09	

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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FULL ANALYSIS DATA

Isovaleral	Column DB-WAX			Column DB-5		
	0.78*	889.6	[0.03]	0.59	643.5	tr
2-Methylbutyral	0.75	880.5	0.01	0.62	653.6	0.01
3-Pentanone	1.06	939.1	0.02	0.74	695.7	0.02
2-Ethylfuran	0.93	918.7	0.01	0.75	702.8	0.01
2-Methylbutanol	3.40	1174.2	0.01	0.97	735.7	0.01
2-Methyl-3-pentanone	1.18	959.2	0.06	1.02	744.1	0.06
Unknown HEIT III [m/z 73, 41 (54), 87 (50), 56 (47), 54 (29), 55 (25), 100 (23)... 115? (6)]	1.01	931.6	0.01	1.23	773.6	0.01
Unknown HEIT II [m/z 73, 87 (52), 41 (45), 56 (42), 100 (29)...]	1.07	941.2	0.02	1.28	782.0	0.02
Hexanal	1.89	1044.3	0.01	1.41	800.5	0.01
Octane	0.50	782.6	0.07	1.44	804.1	0.01
2-Methyl-2-heptene	0.61	829.6	0.09	1.46	806.4	0.09
4-Methyl-3-hexanone	1.82	1037.4	0.13	1.82	837.2	0.13
Hexanol	5.45	1323.9	0.01	2.24	872.5	0.01
Isoamyl acetate	2.37	1091.6	0.01	2.31	878.6	tr
Bornylene	1.08	943.6	0.03	2.61*	904.3	[0.06]
Nonane	0.78*	889.6	[0.03]	2.61*	904.3	[0.06]
Hashishene	1.40*	995.0	[23.37]	2.79	916.2	tr
Tricyclene	1.25	970.5	tr	2.83	919.0	0.01
α -Thujene	1.44	999.1	0.02	2.94	926.6	0.02
α -Pinene	1.40*	995.0	[23.37]	3.05	933.6	23.61
Camphene	1.71	1025.9	0.15	3.19*	943.0	[0.46]
α -Fenchene	1.64	1019.4	0.30	3.19*	943.0	[0.46]
Thuja-2,4(10)-diene	2.29*	1084.4	[0.02]	3.30	950.1	0.02
β -Pinene	2.10	1065.1	0.44	3.62*	971.9	[0.45]
Sabinene	2.29*	1084.4	[0.02]	3.62*	971.9	[0.45]
6-Methyl-5-hepten-2-one	5.05*	1297.2	[0.03]	3.85	987.5	0.02
<i>trans</i> -Dehydroxylinalool oxide	3.42	1175.4	0.01	3.93*	993.0	[0.09]
Myrcene	2.88	1133.3	0.06	3.93*	993.0	[0.09]
2-Pentylfuran	3.70	1198.0	0.01	3.93*	993.0	[0.09]

6-Methyl-5-hepten-2-ol	6.92*	1429.4	[0.03]	4.02	998.9	0.02
2-Carene	2.39	1094.1	0.02	4.07	1002.2	0.03
Unknown HEIT I [m/z = 123, 43 (16), 152 (14), 124 (9), 137 (6)]	2.83	1128.8	0.01	4.09*	1003.4	[0.02]
α-Phellandrene	2.80	1126.6	0.01	4.09*	1003.4	[0.02]
Isobutyl 2-methylbutyrate	3.09	1149.9	0.05	4.13	1006.0	0.06
Δ3-Carene	2.58	1109.5	0.01	4.19*	1010.0	[0.01]
(3Z)-Hexenyl acetate	4.81	1279.7	tr	4.19*	1010.0	[0.01]
α-Terpinene	2.96	1139.3	0.19	4.27	1014.8	0.20
para-Methylanisole	6.33	1386.5	0.03	4.30	1016.9	0.02
para-Cymene	4.11	1227.7	0.17	4.38	1022.1	0.18
Limonene	3.20	1157.9	2.59	4.47*	1027.5	[2.99]
β-Phellandrene	3.30	1165.9	0.36	4.47*	1027.5	[2.99]
1,8-Cineole	3.34	1169.6	0.01	4.47*	1027.5	[2.99]
(Z)-β-Ocimene	3.81*	1205.7	[0.46]	4.67	1040.6	0.01
(E)-β-Ocimene	3.99	1219.0	0.03	4.83	1050.3	0.03
Isobutyl angelate	4.50	1256.7	0.29	4.89	1054.5	0.29
γ-Terpinene	3.81*	1205.7	[0.46]	4.94	1057.8	0.45
Octanol	8.21*	1525.9	[0.97]	5.22	1075.6	0.01
para-Cymenene	6.30	1384.6	0.01	5.40*	1086.7	[0.19]
Terpinolene	4.28	1240.7	0.18	5.40*	1086.7	[0.19]
2-Nonanone	5.82	1350.4	0.05	5.50*	1093.6	[0.06]
Isobutyl tiglate	5.43	1322.3	0.01	5.50*	1093.6	[0.06]
2,4-Dimethylheptane-3,5-dione	7.62	1481.2	0.05	5.55	1096.3	0.05
Linalool	8.09	1516.7	0.83	5.63	1101.7	0.84
Nonanal	5.88	1354.7	0.08	5.69	1105.2	0.08
2-Methylbutyl 2-methylbutyrate	4.47	1254.4	0.11	5.72	1107.2	0.12
endo-Fenchol	8.42*	1542.1	[6.31]	5.76	1110.0	0.06
α-Campholenal	7.02*	1436.8	[0.55]	5.91	1119.5	0.01
trans-Pinocarveol	9.19	1601.7	0.05	6.12	1133.5	0.05
trans-Verbenol	9.58*	1632.7	[1.11]	6.26	1142.1	0.03
para-Vinylanisole	9.44	1621.7	0.02	6.36	1148.8	0.03
Isoamyl angelate	5.94*	1358.9	[0.85]	6.42	1153.0	0.04
Nerol oxide	6.86	1425.2	0.04	6.46	1155.1	0.05
Pinocarvone	7.92*	1503.9	[0.34]	6.49*	1157.3	[0.85]
2-Methylbutyl	5.94*	1358.9	[0.85]	6.49*	1157.3	[0.85]

angelate						
Borneol	9.80*	1651.0	[0.48]	6.56	1162.0	0.06
Unknown HEIT IV [m/z 83, 100 (34), 55 (33), 43 (21), 84 (21)...]	5.71	1342.2	0.03	6.72	1172.1	0.02
Terpinen-4-ol	8.58	1554.5	0.25	6.75*	1174.5	[0.25]
Nonanol	9.48	1625.3	0.04	6.75*	1174.5	[0.25]
4,6- Dimethyloctane- 3,5-dione epimer I	8.62*	1557.1	[0.40]	6.93	1186.0	0.18
4,6- Dimethyloctane- 3,5-dione epimer II	8.62*	1557.1	[0.40]	6.95	1187.6	0.22
α -Terpineol	9.80*	1651.0	[0.48]	6.97	1188.7	0.25
Myrtenol	10.88	1740.1	0.03	7.05	1194.1	0.03
2-Methylbutyl tiglate	6.92*	1429.4	[0.03]	7.13	1199.1	0.03
Unknown PIMA 7 [m/z 95, 93 (32), 121 (24), 79 (22), 91 (21), 105 (16)... 154 (2)]	10.96*	1746.3	[0.71]	7.19	1203.2	0.03
Decanal	7.30	1457.8	0.05	7.26	1207.8	0.06
Unknown HEIT XXII [m/z 81, 57 (91), 168 (73), 67 (52), 140 (45), 41 (36), 113 (27)...]				7.37	1214.9	0.02
Unknown HEIT XXI [m/z 81, 109 (85), 168 (72), 57 (69), 67 (58), 41 (49), 140 (45)...]				7.41	1217.9	0.01
Nerol	11.08*	1757.0	[0.58]	7.60	1230.5	0.56
Hexyl 2- methylbutyrate	6.49	1398.0	0.02	7.64*	1233.5	[0.16]
(3Z)-Hexenyl isovalerate	7.13*	1445.2	[1.78]	7.64*	1233.5	[0.16]
Hexyl isovalerate	6.75	1416.7	0.01	7.77	1242.4	0.02
3-Methylpentyl angelate	7.38	1463.7	0.02	7.98	1256.8	0.01
Unknown HEIT VI [m/z 83, 55 (29),	6.90*	1428.0	[0.11]	8.01	1258.6	0.04

57 (24), 100 (21), 104 (13)...						
Linalyl acetate	8.16*	1522.0	[0.07]	8.05	1261.9	0.08
Unknown HEIT VII [m/z 83, 55 (30), 57 (23), 100 (20), 98 (14)...	7.02*	1436.8	[0.55]	8.13	1266.9	0.04
(3Z)-Hexenyl angelate	8.21*	1525.9	[0.97]	8.39	1284.9	0.04
Hexyl angelate	7.92*	1503.9	[0.34]	8.49	1292.0	0.33
2-Undecanone	8.65*	1559.7	[0.21]	8.59	1298.4	0.05
Tridecane	5.05*	1297.2	[0.03]	8.73	1308.0	0.04
Myrtenyl acetate	9.65	1638.5	0.08	8.99	1323.7	0.01
Hexyl tiglate	8.91	1579.7	0.03	9.13	1333.1	0.02
Bicycloelemene	7.06	1439.9	0.01	9.15	1334.5	0.01
α -Terpinyl acetate	9.77*	1648.0	[13.56]	9.34	1348.3	0.02
Cyclosativene I	6.90*	1428.0	[0.11]	9.47	1357.8	0.01
Cyclosativene II	7.02*	1436.8	[0.55]	9.54	1362.4	0.32
Neryl acetate	10.22	1684.8	5.32	9.63*	1369.2	[5.52]
α -Ylangene	7.02*	1436.8	[0.55]	9.63*	1369.2	[5.52]
Italicene isomer	7.19	1449.2	0.88	9.70*	1373.8	[2.64]
α -Copaene	7.13*	1445.2	[1.78]	9.70*	1373.8	[2.64]
Geranyl acetate	10.56	1713.1	0.05	9.86	1385.1	0.05
Sativene	7.49	1471.3	0.04	9.87	1386.2	0.02
α -Funebrene	7.86	1499.1	0.16	9.96*	1392.7	[0.16]
Hexyl hexanoate	8.88	1577.8	0.01	9.96*	1392.7	[0.16]
Isoitalicene	7.81	1495.2	0.12	10.00	1395.2	0.14
Italicene	7.74	1489.7	3.23	10.07	1400.1	3.23
Isocaryophyllene	8.16*	1522.0	[0.07]	10.11	1402.8	0.07
α -Cedrene	7.96	1507.0	0.02	10.15*	1405.7	[0.08]
α -Gurjunene	7.59	1478.8	0.03	10.15*	1405.7	[0.08]
β -Caryophyllene	8.42*	1542.1	[6.31]	10.28*	1415.8	[6.29]
β -Ylangene	8.13	1520.0	0.02	10.28*	1415.8	[6.29]
<i>cis</i> - α - Bergamotene	8.21*	1525.9	[0.97]	10.28*	1415.8	[6.29]
β -Copaene	8.42*	1542.1	[6.31]	10.41	1425.1	0.05
<i>trans</i> - α - Bergamotene	8.42*	1542.1	[6.31]	10.55	1435.8	0.97
Italidione I (4,6,9- Trimethyldec-8- ene-3,5-dione)	12.01*†	1837.1	[1.30]	10.62*	1441.2	[2.51]
6,9-Guaiadiene	8.65*	1559.7	[0.21]	10.62*	1441.2	[2.51]
Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119	8.80	1571.4	0.02	10.68*	1445.5	[0.14]

(63), 133 (53), 79 (49), 204 (46)]						
Cadina-4,11-diene	9.15	1598.5	0.09	10.68*	1445.5	[0.14]
α -Humulene	9.26	1607.5	0.33	10.72	1448.6	0.34
allo- Aromadendrene	8.97	1584.7	0.14	10.82	1456.5	0.18
Neryl propionate	10.96*	1746.3	[0.71]	10.85*†	1458.1	[0.83]
(E)- β -Farnesene	9.58*	1632.7	[1.11]	10.85*†	1458.1	[0.83]
α -Acoradiene	9.38	1616.8	0.24	10.85*†	1458.1	[0.83]
4,5-diepi- Aristolochene	9.42*	1619.8	[1.63]	10.91	1463.0	0.34
Unknown CEDE VI [m/z 119, 91 (85), 93 (77), 105 (76), 79 (61), 134 (60), 94 (49), 204 (46)]	9.42*	1619.8	[1.63]	10.94	1465.3	0.11
<i>trans</i> -Cadina- 1(6),4-diene	9.32	1612.1	0.30	11.05*	1473.3	[1.72]
Selina-4,11-diene	9.42*	1619.8	[1.63]	11.05*	1473.3	[1.72]
α -Amorphene	9.58*	1632.7	[1.11]	11.07	1474.9	0.19
γ -Curcumene	9.77*	1648.0	[13.56]	11.18*†	1483.5	[20.40]
β -Selinene	9.88	1657.5	6.22	11.18*†	1483.5	[20.40]
Italidione II isomer I (2,4,6,9- Tetramethyldec- 8-ene-3,5-dione)	12.01*†	1837.1	[1.30]	11.21*†	1485.3	[3.71]
α -Curcumene	10.67	1722.2	2.07	11.21*†	1485.3	[3.71]
Unknown CILI III [m/z 41, 69 (90), 79 (78), 93 (72), 91 (70)...204]	8.77	1568.9	0.06	11.21*†	1485.3	[3.71]
Italidione II isomer II (5,7,10- Trimethylundec- 9-ene-4,6-dione)	12.03*†	1838.7	[0.82]	11.27	1490.0	2.15
α -Selinene	9.96*	1663.6	[4.14]	11.31	1493.2	3.89
Eudesma- 2,4(15),11-triene	11.08*	1757.0	[0.58]	11.36	1497.0	0.18
α -Muurolene	10.02	1668.9	0.29	11.39*	1499.1	[0.33]
Italidione II analog	12.86	1912.7	0.09	11.39*	1499.1	[0.33]
δ -Amorphene	9.96*	1663.6	[4.14]	11.47	1505.1	0.39
β -Bisabolene	10.15	1678.8	0.20	11.55*†	1511.5	[0.53]
β -Curcumene	10.32	1692.5	0.44	11.55*†	1511.5	[0.53]
γ -Cadinene	10.36	1695.7	0.11	11.55*†	1511.5	[0.53]

7-epi- α -Selinene	10.42*	1701.4	[0.83]	11.58*†	1513.7	[1.22]
Zonarene	10.38	1698.0	0.41	11.69*	1522.1	[1.05]
δ -Cadinene	10.42*	1701.4	[0.83]	11.69*	1522.1	[1.05]
Italicene ether	11.53*†	1794.5	[0.25]	11.78	1529.3	0.18
(E)- γ -Bisabolene	10.48	1706.2	0.11	11.81	1531.4	0.09
α -Cadinene	10.77	1730.7	0.06	11.85	1534.8	0.11
Selina-3,7(11)-diene	10.61	1716.9	0.04	11.89	1537.8	0.07
(E)- α -Bisabolene	10.71	1725.4	0.10	11.96	1543.7	0.13
(E)-Nerolidol	13.79*	1998.7	[0.12]	12.23	1564.8	0.11
Caryophyllenyl alcohol	13.70	1989.8	0.01	12.27	1567.9	0.03
Caryophyllene oxide	12.76	1903.2	0.15	12.36*	1575.1	[0.52]
Italidione III isomer I				12.36*	1575.1	[0.52]
Italidione III isomer II				12.42	1580.0	0.28
Neryl isovalerate?	11.82*†	1820.3	[0.45]	12.43	1580.6	0.24
Italidione III isomer III				12.52	1587.3	0.24
Guaiol	14.13	2031.6	0.18	12.60	1594.1	0.11
Copaborneol	14.92	2107.7	0.25	12.64	1597.5	0.22
Eudesm-5-en-11-ol	14.37	2054.7	0.27	12.69	1600.8	0.25
Unknown MIAL II [m/z 43, 81 (97), 135 (71), 95 (62), 204 (61), 71 (59), 207 (56)... 222 (3)]	14.50	2067.2	0.10	12.76	1606.4	0.10
Unknown MECA V [m/z 179, 161 (66), 119 (44), 95 (38), 105 (35)... 204 (24), 222 (1)]	14.62	2078.4	0.06	12.81	1611.0	0.06
Neryl angelate?				12.95	1622.8	0.06
1-epi-Cubenol	13.79*	1998.7	[0.12]	12.99	1625.9	0.08
γ -Eudesmol	14.95	2111.5	0.01	13.03*	1628.8	[0.14]
Caryophylladienol II	16.05	2222.4	0.05	13.03*	1628.8	[0.14]
τ -Muurolol	15.15	2130.7	0.02	13.11*	1635.8	[0.08]
τ -Cadinol	14.99	2115.3	0.03	13.11*	1635.8	[0.08]
α -Muurolol	15.28	2144.1	0.03	13.19*	1642.3	[0.08]
β -Eudesmol	15.40	2156.2	0.04	13.19*	1642.3	[0.08]
α -Eudesmol	15.39	2154.9	0.09	13.24*	1646.8	[0.25]

Selin-11-en-4 α -ol	15.61	2177.5	0.17	13.24*	1646.8	[0.25]
Bulnesol	15.32	2147.8	0.05	13.42	1661.8	0.03
β -Bisabolol	14.82	2098.2	0.09	13.48	1666.1	0.02
epi- α -Bisabolol	15.50	2166.2	0.02	13.65	1680.9	0.04
α -Bisabolol	15.47	2163.3	0.02	13.69	1683.6	0.03
Neryl 4-methylvalerate?	13.47	1968.9	0.01	13.77	1690.4	0.01
Unknown HEIT IX [m/z 196, 69 (62), 109 (58), 41 (54), 139 (41)... 249 (21)...]	14.68	2084.7	0.03	13.84	1696.8	0.03
Geranyl 4-methylvalerate?	13.88	2007.7	0.10	14.13	1720.8	0.02
Unknown HEIT X [m/z 43, 69 (32), 198 (29), 41 (27), 93 (26)... 202 (20)...]				14.26	1732.6	0.10
Unknown HEIT XI [m/z 82, 125 (40), 41 (35), 69 (31), 67 (27)... 236? (t)]				14.35	1740.4	0.01
Geranyl hexanoate	14.22	2040.1	0.01	14.36	1741.5	0.01
Unknown HEIT XII [m/z 109, 127 (46), 138 (45), 81 (27), 123 (25)... 220? (2)]	19.12*	2560.6	[0.02]	14.46	1749.6	0.02
Unknown HEIT XIII [m/z 136, 121 (74), 135 (55), 218 (36), 148 (33), 40 (42)... 236? (1)]				14.52	1755.2	0.02
Unknown HEIT XIV [m/z 109, 138 (71), 82 (42), 123 (41), 127 (38)...]	19.12*	2560.6	[0.02]	14.58*	1759.9	[0.05]
Unknown HEIT XV [m/z 96, 41 (29), 178 (28), 43 (27)... 236 (2)]	17.19	2342.9	0.01	14.58*	1759.9	[0.05]
Unknown HEIT XVI [m/z 109, 127	19.60	2617.2	0.02	14.59	1761.4	0.01

(46), 138 (45), 82 (34), 81 (31)... 236? (t)]						
Unknown HEIT XVII [m/z 109, 138 (75), 123 (45), 127 (42), 81 (30)...]	19.68	2626.6	0.02	14.69	1769.7	0.02
<i>trans</i> -Bisabola- 1(6),10-diene-2,3- diol	19.56	2611.7	0.05	14.77	1776.8	0.10
Unknown HEIT XIX [m/z 43, 82 (69), 41 (66), 93 (62), 96 (55), 55 (49), 67 (45), 154 (44)...]				15.05	1801.1	0.03
Cryptomeridiol	19.82	2643.4	0.03	15.07	1803.3	0.04
Phytone	14.76	2092.2	0.12	15.56	1847.7	0.02
Unknown HEIT XXXII [m/z 200, 145 (97), 160 (45), 185 (40), 43 (38), 157 (31)...]				19.04	2187.2	0.01
Unknown HEIT XXIX [m/z 81, 69 (80), 137 (48), 95 (35), 41 (35), 98 (33)...]				21.53	2462.9	0.04
Total reported		94.61%			98.80%	

*: 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