**Date :** March 31, 2022

# *Certificate of Analysis – GC Profiling*

## *Sample identification*

**Internal code :** 22C16-MSR03
**Customer identification :** Lavande Francaise - France - Lot#: 2109989
**Type :** Essential oil
**Source :** *Lavandula angustifolia*
**Customer :** Essence et Sérénité

## *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 :** Sylvain Mercier, M. Sc., Chimiste 2014-005
**Analysis date :** March 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*Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.*

*This report is an update from the original version issued on March 30, 2022, to correct the customer's name and include the ISO standard compliance statement.*



Méthode certifiée ISO 17025:2017 Certified method

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## *PHYSICOCHEMICAL DATA*

**Physical aspect:** Faintly yellow liquid
**Refractive index:** 1.4630 ± 0.0003 (20 °C; method PC-MAT-016)

## *ISO 3515:2004 - OIL OF SPONTANEOUS LAVENDER - FRANCE*

| Compound | Min. % | Max. % | Observed % | Complies? |
|---|---|---|---|---|
| Limonene | | 0.5 | 0.5 | Yes |
| 1,8-Cineole | | 1.0 | 1.2 | No |
| β-Phellandrene | tr | 0.50 | 0.24 | Yes |
| (Z)-β-Ocimene | 4 | 10 | 4 | Yes |
| (E)-β-Ocimene | 1.5 | 6.0 | 2.1 | Yes |
| Octan-3-one | tr | 2.0 | 1.7 | Yes |
| Camphor | tr | 0.50 | 0.29 | Yes |
| Linalool | 25 | 38 | 33 | Yes |
| Linalyl acetate | 25 | 45 | 26 | Yes |
| Lavandulol | 0.3 | | 1.2 | Yes |
| Terpinen-4-ol | 2 | 6 | 4 | Yes |
| Lavandulyl acetate | 2.0 | | 3.2 | Yes |
| α-Terpineol | | 1.0 | 1.1 | No |
| **Refractive index** | 1.4580 | 1.4640 | 1.4630 | Yes |

## *CONCLUSION*

No adulterant, contaminant or diluent has been detected using this method. The oil marginally does not comply with the ISO standard for French lavender, but would comply with the ISO standard for "other origins" lavender oil.

## *Analysis summary – Consolidated contents*

New readers of similar reports are encouraged to read table footnotes at least once.

| Identification | % | Class |
|---|---|---|
| 3-Buten-2-one | 0.01 | Aliphatic ketone |
| 2-Methyl-3-buten-2-ol | 0.03 | Aliphatic alcohol |
| Isovaleral | tr | Aliphatic aldehyde |
| Isoamyl alcohol | 0.01 | Aliphatic alcohol |
| 2-Methylbutanol | tr | Aliphatic alcohol |
| Toluene | 0.01 | Simple phenolic |
| Butyl acetate | 0.02 | Aliphatic ester |
| Methyl hexyl ether | 0.17 | Aliphatic ether |
| (3*Z*)-Hexenol | 0.03 | Aliphatic alcohol |
| Hexanol | 0.12 | Aliphatic alcohol |
| Hashishene | tr | Monoterpene |
| Tricyclene | 0.03 | Monoterpene |
| α-Thujene | 0.13 | Monoterpene |
| α-Pinene | 0.27 | Monoterpene |
| Camphene | 0.22 | Monoterpene |
| α-Fenchene | 0.01 | Monoterpene |
| 5,5-Dimethyl-2(5H)-furanone | 0.01 | Aliphatic lactone |
| Butyl isobutyrate | 0.02 | Aliphatic ester |
| endo-Isocamphane | 0.01 | Monoterpene |
| β-Pinene | 0.06 | Monoterpene |
| Sabinene | 0.07 | Monoterpene |
| Octen-3-ol | 0.32 | Aliphatic alcohol |
| 6-Methyl-5-hepten-2-one | 0.02 | Aliphatic ketone |
| Octan-3-one | 1.69 | Aliphatic ketone |
| Myrcene | 0.68 | Monoterpene |
| Butyl butyrate | 0.10 | Aliphatic ester |
| Octan-3-ol | 0.43 | Aliphatic alcohol |
| α-Phellandrene | 0.01 | Monoterpene |
| Δ3-Carene | 0.19 | Monoterpene |
| α-Terpinene | 0.03 | Monoterpene |
| Hexyl acetate | 0.68 | Aliphatic ester |
| meta-Cymene | 0.06 | Monoterpene |
| para-Cymene | 0.32 | Monoterpene |
| β-Phellandrene | 0.24 | Monoterpene |
| Limonene | 0.50 | Monoterpene |
| 1,8-Cineole | 1.16 | Monoterpenic ether |
| Lavender lactone | 0.01 | Aliphatic lactone |
| (*Z*)-β-Ocimene | 3.77 | Monoterpene |
| (*E*)-β-Ocimene | 2.08 | Monoterpene |
| γ-Terpinene | 0.12 | Monoterpene |
| *cis*-Sabinene hydrate | 0.06 | Monoterpenic alcohol |
| *cis*-Linalool oxide (fur.) | 0.19 | Monoterpenic alcohol |
| Octanol | 0.01 | Aliphatic alcohol |
| α-Pinene oxide analog | 0.06 | Monoterpenic ether |
| Isoterpinolene | 0.01 | Monoterpene |

| | | |
|---|---|---|
| Terpinolene | 0.08 | Monoterpene |
| para-Cymenene | 0.03 | Monoterpene |
| *trans*-Linalool oxide (fur.) | 0.13 | Monoterpenic alcohol |
| *trans*-Sabinene hydrate | 0.01 | Monoterpenic alcohol |
| Rosefuran | 0.04 | Monoterpenic ether |
| Linalool | 32.99 | Monoterpenic alcohol |
| (*Z*)-6-Methyl-3,5-heptadien-2-one | 0.06 | Aliphatic ketone |
| β-Thujone | 0.05 | Monoterpenic ketone |
| Octen-3-yl acetate | 0.93 | Aliphatic ester |
| Unknown | 0.04 | Unknown |
| Octan-3-yl acetate | 0.16 | Aliphatic ester |
| allo-Ocimene | 0.04 | Monoterpene |
| (*Z*)-Myroxide | 0.04 | Monoterpenic ether |
| Camphor | 0.29 | Monoterpenic ketone |
| *trans*-Verbenol | 0.05 | Monoterpenic alcohol |
| (*E*)-Myroxide | 0.02 | Monoterpenic ether |
| Hexyl isobutyrate | 0.08 | Aliphatic ester |
| Nerol oxide | 0.02 | Aliphatic ether |
| Borneol | 0.72 | Monoterpenic alcohol |
| *cis*-Linalool oxide (pyr.) | 0.02 | Monoterpenic alcohol |
| Lavandulol | 1.23 | Monoterpenic alcohol |
| Terpinen-4-ol | 4.08 | Monoterpenic alcohol |
| (3*E*,5*Z*)-Undeca-1,3,5-triene | 0.05 | Alkene |
| Cryptone | 0.24 | Normonoterpenic ketone |
| meta-Cymen-8-ol | 0.09 | Monoterpenic alcohol |
| para-Cymen-8-ol | 0.08 | Monoterpenic alcohol |
| α-Terpineol | 1.14 | Monoterpenic alcohol |
| Myrtenal | 0.01 | Monoterpenic aldehyde |
| Myrtenol | 0.01 | Monoterpenic alcohol |
| Hexyl butyrate | 0.38 | Aliphatic ester |
| Hodiendiol | 0.05 | Monoterpenic alcohol |
| Unknown | 0.02 | Unknown |
| (3*E*,5*E*)-2,6-Dimethylocta-3,5,7-trien-2-ol | 0.04 | Monoterpenic alcohol |
| Octyl acetate | 0.03 | Aliphatic ester |
| Bornyl formate | 0.05 | Monoterpenic ester |
| Nerol | 0.19 | Monoterpenic alcohol |
| Hexyl 2-methylbutyrate | 0.02 | Aliphatic ester |
| Cuminal | 0.05 | Monoterpenic aldehyde |
| Neral | 0.04 | Monoterpenic aldehyde |
| Carvone | 0.06 | Monoterpenic ketone |
| Hexyl isovalerate | 0.04 | Aliphatic ester |
| Geraniol | 0.46 | Monoterpenic alcohol |
| Linalyl acetate | 25.96 | Monoterpenic ester |
| Geranial | 0.06 | Monoterpenic aldehyde |
| 2,6-Dimethyl-1,7-octadiene-3,6-diol | 0.02 | Monoterpenic alcohol |
| Bornyl acetate | 0.17 | Monoterpenic ester |
| Lavandulyl acetate | 3.19 | Monoterpenic ester |
| Unknown | 0.01 | Oxygenated monoterpene |
| Hexyl tiglate | 0.05 | Aliphatic ester |
| Hodiendiol derivative | 0.04 | Oxygenated monoterpene |
| Unknown | 0.04 | Oxygenated monoterpene |
| Unknown | 0.04 | Oxygenated monoterpene |

| | | |
|---|---|---|
| Neryl acetate | 0.33 | Monoterpenic ester |
| α-Copaene | 0.04 | Sesquiterpene |
| β-Bourbonene | 0.05 | Sesquiterpene |
| Geranyl acetate | 0.53 | Monoterpenic ester |
| 7-epi-Sesquithujene | 0.09 | Sesquiterpene |
| Hexyl hexanoate | 0.12 | Aliphatic ester |
| α-Funebrene | 0.02 | Sesquiterpene |
| Isocaryophyllene | 0.01 | Sesquiterpene |
| α-Cedrene | 0.05 | Sesquiterpene |
| Sesquithujene | 0.01 | Sesquiterpene |
| *cis*-α-Bergamotene | 0.01 | Sesquiterpene |
| β-Caryophyllene | 3.41 | Sesquiterpene |
| α-Santalene | 0.46 | Sesquiterpene |
| Lavandulyl isobutyrate | 0.01 | Monoterpenic ester |
| *trans*-α-Bergamotene | 0.17 | Sesquiterpene |
| Isogermacrene D | 0.01 | Sesquiterpene |
| Sesquisabinene A | 0.07 | Sesquiterpene |
| *cis*-β-Bergamotene? | 0.03 | Sesquiterpene |
| α-Humulene | 0.12 | Sesquiterpene |
| Lavandulyl butyrate? | 0.15 | Monoterpenic ester |
| (*E*)-β-Farnesene | 3.41 | Sesquiterpene |
| Dauca-5,8-diene? | 0.02 | Sesquiterpene |
| Germacrene D | 0.35 | Sesquiterpene |
| *trans*-β-Bergamotene | 0.07 | Sesquiterpene |
| Isodaucene | 0.02 | Sesquiterpene |
| β-Bisabolene | 0.04 | Sesquiterpene |
| γ-Cadinene | 0.16 | Sesquiterpene |
| Unknown | 0.05 | Oxygenated sesquiterpene |
| δ-Cadinene | 0.03 | Sesquiterpene |
| β-Sesquiphellandrene | 0.01 | Sesquiterpene |
| Isocaryophyllene epoxide B | 0.06 | Sesquiterpenic ether |
| α-Elemol | 0.01 | Sesquiterpenic alcohol |
| (*E*)-Nerolidol | 0.03 | Sesquiterpenic alcohol |
| Caryophyllene oxide | 0.45 | Sesquiterpenic ether |
| Caryophyllene oxide isomer | 0.08 | Sesquiterpenic ether |
| Dendrolasin | 0.03 | Sesquiterpenic ether |
| τ-Cadinol | 0.09 | Sesquiterpenic alcohol |
| (3*Z*)-Caryophylla-3,8(13)-dien-5β-ol | 0.02 | Sesquiterpenic alcohol |
| *cis*-14-nor-Muurol-5-en-4-one? | 0.01 | Norsesquiterpenic ketone |
| Phytone | 0.01 | Terpenic ketone |
| **Consolidated total** | **98.33%** | |

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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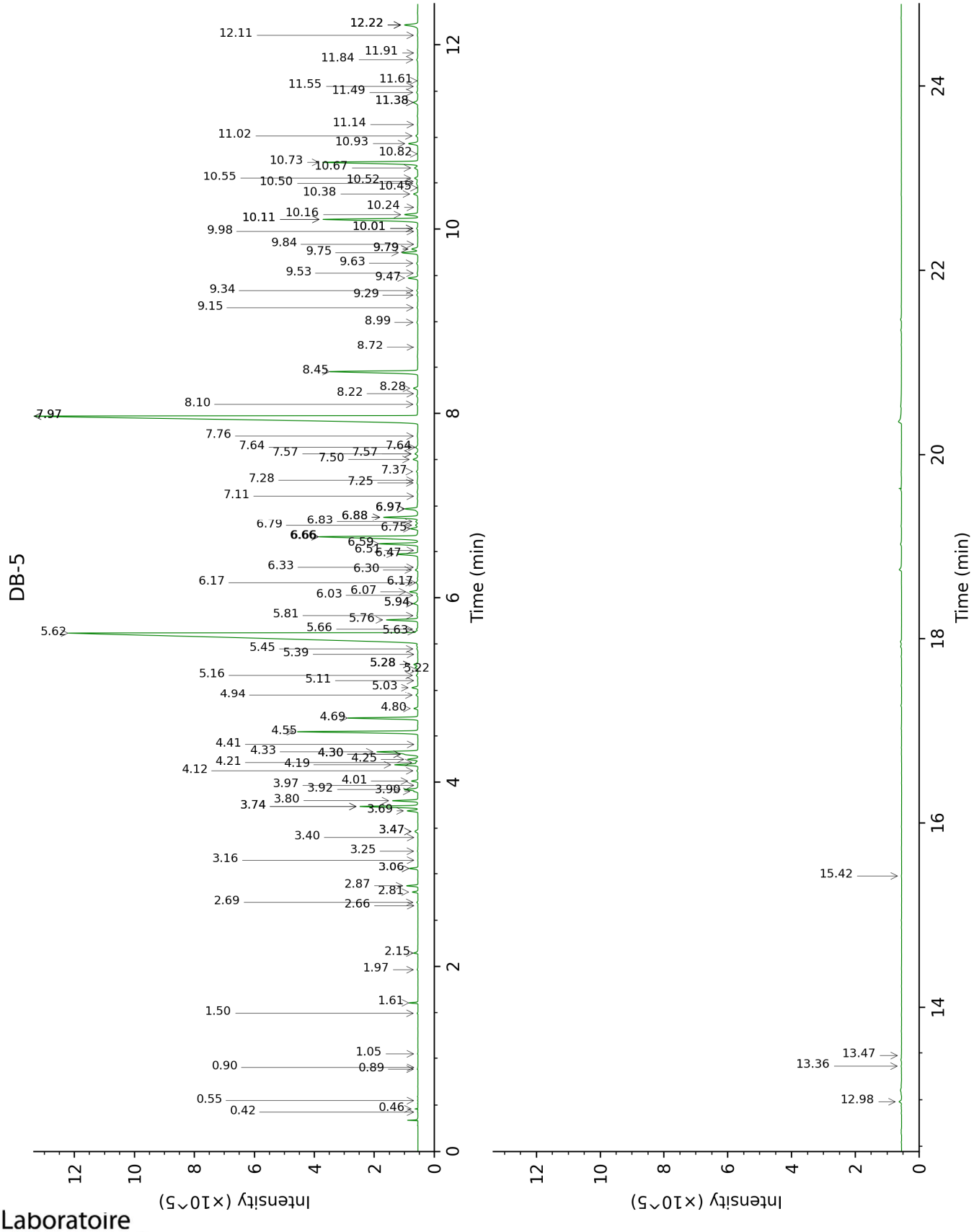
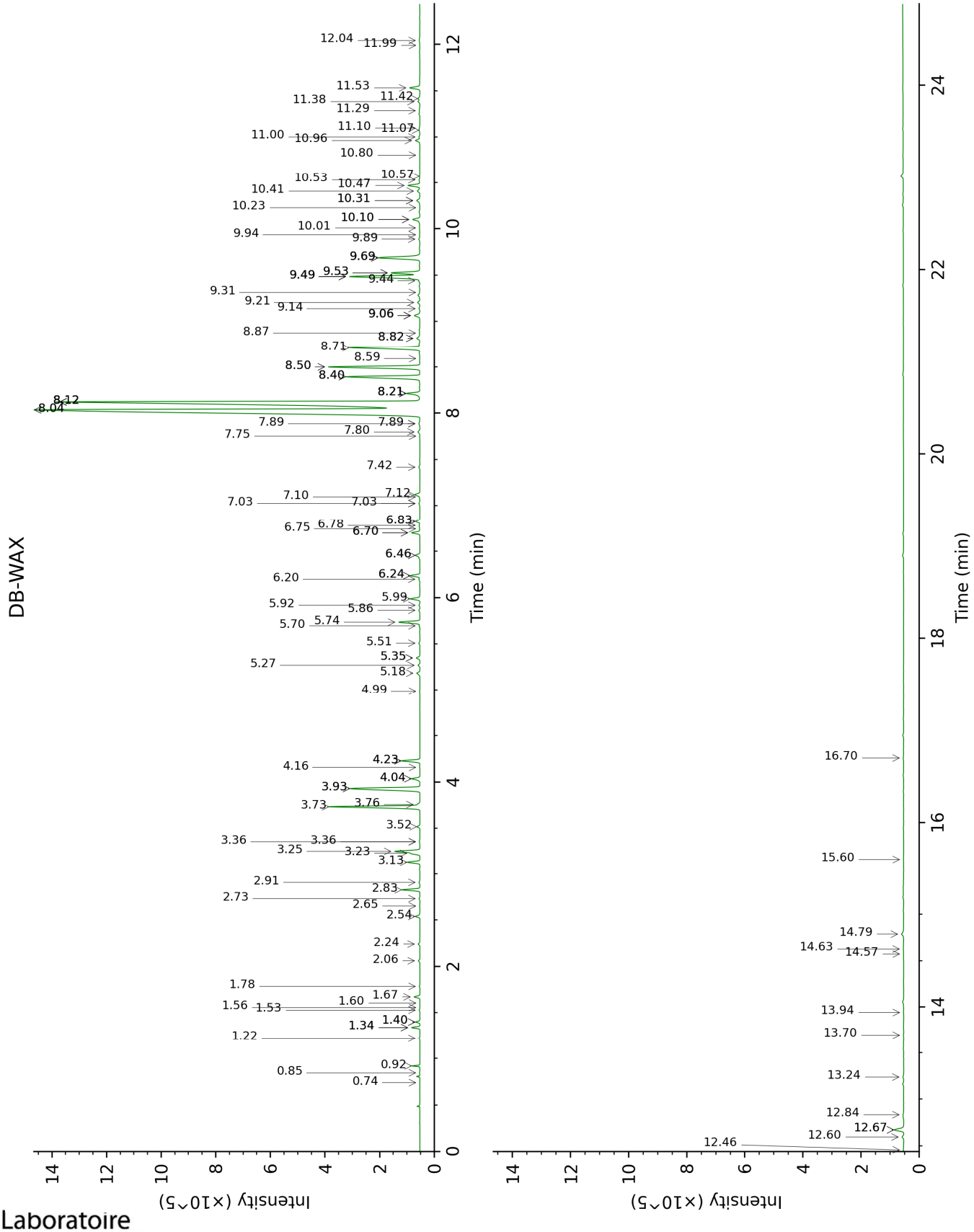

DB-5
Time (min)
Intensity (×10^5)
12.22
12.11
11.91
11.84
11.61
11.55
11.49
11.38
11.14
11.02
10.93
10.82
10.73
10.67
10.55
10.52
10.50
10.45
10.38
10.24
10.16
10.11
10.01
9.98
9.84
9.79
9.75
9.63
9.53
9.47
9.34
9.29
9.15
8.99
8.72
8.45
8.28
8.22
8.10
7.97
7.76
7.64
7.57
7.50
7.57
7.64
7.37
7.28
7.25
7.11
6.97
6.88
6.83
6.79
6.75
6.66
6.59
6.51
6.47
6.33
6.30
6.17
6.17
6.07
6.03
5.94
5.81
5.76
5.66
5.63
5.62
5.45
5.39
5.28
5.22
5.16
5.11
5.03
4.94
4.80
4.69
4.55
4.41
4.33
4.30
4.25
4.21
4.19
4.12
4.01
3.97
3.92
3.90
3.80
3.74
3.69
3.47
3.40
3.25
3.16
3.06
2.87
2.81
2.69
2.66
2.15
1.97
1.61
1.50
1.05
0.90
0.89
0.55
0.46
0.42
15.42
13.47
13.36
12.98


DB-WAX
Time (min)
Intensity (×10^5)
12.04
11.99
11.53
11.38
11.42
11.29
11.10
11.07
11.00
10.96
10.80
10.53
10.57
10.47
10.41
10.31
10.23
10.10
10.01
9.94
9.89
9.69
9.53
9.49
9.44
9.31
9.21
9.14
9.06
8.87
8.82
8.71
8.59
8.50
8.40
8.21
8.12
8.04
7.89
7.89
7.80
7.75
7.42
7.10
7.12
7.03
7.03
6.83
6.78
6.75
6.70
6.46
6.24
6.20
5.99
5.92
5.86
5.74
5.70
5.51
5.35
5.27
5.18
4.99
4.23
4.16
4.04
3.93
3.76
3.73
3.52
3.36
3.36
3.25
3.23
3.13
2.91
2.83
2.73
2.65
2.54
2.24
2.06
1.78
1.67
1.60
1.56
1.53
1.40
1.34
1.22
0.92
0.85
0.74
16.70
15.60
14.79
14.63
14.57
13.94
13.70
13.24
12.84
12.67
12.60
12.46

*FULL ANALYSIS DATA*

| Identification | Column DB-5 | | | Column DB-WAX | | |
|---|---|---|---|---|---|---|
| | R.T | R.I | % | R.T | R.I | % |
| 3-Buten-2-one | 0.42 | 574 | 0.01 | 0.85 | 911 | 0.01 |
| 2-Methyl-3-buten-2-ol | 0.46 | 605 | 0.03 | 1.53 | 1013 | 0.02 |
| Isovaleral | 0.55 | 640 | tr | 0.74 | 885 | tr |
| Isoamyl alcohol | 0.89 | 731 | 0.01 | 3.36* | 1174 | 0.03 |
| 2-Methylbutanol | 0.90 | 734 | tr | 3.36* | 1174 | [0.03] |
| Toluene | 1.05 | 757 | 0.01 | 1.40* | 1000 | 0.15 |
| Butyl acetate | 1.50 | 816 | 0.02 | 1.78 | 1038 | 0.02 |
| Methyl hexyl ether | 1.61 | 826 | 0.17 | 0.92 | 923 | 0.17 |
| (3*Z*)-Hexenol | 1.97 | 857 | 0.03 | 5.70 | 1346 | 0.03 |
| Hexanol | 2.15 | 873 | 0.12 | 5.35* | 1322 | 0.16 |
| Hashishene | 2.66 | 915 | tr | 1.34* | 990 | 0.28 |
| Tricyclene | 2.69 | 917 | 0.03 | 1.22 | 971 | 0.03 |
| α-Thujene | 2.81 | 925 | 0.13 | 1.40* | 1000 | [0.15] |
| α-Pinene | 2.87 | 929 | 0.27 | 1.34* | 990 | [0.28] |
| Camphene | 3.06* | 942 | 0.23 | 1.67 | 1027 | 0.22 |
| α-Fenchene | 3.06* | 942 | [0.23] | 1.60 | 1020 | 0.01 |
| 5,5-Dimethyl-2(5H)-furanone | 3.16 | 948 | 0.01 | 8.50* | 1555 | 4.10 |
| Butyl isobutyrate | 3.26 | 955 | 0.02 | 2.65 | 1119 | 0.01 |
| endo-Isocamphane | 3.40 | 965 | 0.01 | 1.56 | 1016 | 0.01 |
| β-Pinene | 3.47* | 970 | 0.12 | 2.06 | 1065 | 0.06 |
| Sabinene | 3.47* | 970 | [0.12] | 2.24 | 1083 | 0.07 |
| Octen-3-ol | 3.69 | 985 | 0.32 | 6.70* | 1419 | 0.34 |
| 6-Methyl-5-hepten-2-one | 3.74* | 988 | 1.73 | 4.99 | 1297 | 0.02 |
| Octan-3-one | 3.74* | 988 | [1.73] | 3.93* | 1218 | 3.77 |
| Myrcene | 3.80 | 992 | 0.68 | 2.83 | 1132 | 0.67 |
| Butyl butyrate | 3.90 | 999 | 0.10 | 3.52 | 1187 | 0.12 |
| Octan-3-ol | 3.92 | 1000 | 0.43 | 5.99 | 1367 | 0.40 |
| α-Phellandrene | 3.97 | 1003 | 0.01 | 2.73 | 1125 | 0.03 |
| Δ3-Carene | 4.01 | 1006 | 0.19 | 2.54 | 1110 | 0.18 |
| α-Terpinene | 4.12 | 1013 | 0.03 | 2.91 | 1139 | 0.04 |
| Hexyl acetate | 4.19 | 1017 | 0.68 | 4.23* | 1241 | 0.75 |
| meta-Cymene | 4.21 | 1019 | 0.06 | 4.04* | 1226 | 0.37 |
| para-Cymene | 4.25 | 1021 | 0.32 | 4.04* | 1226 | [0.37] |
| β-Phellandrene | 4.30*† | 1025 | 1.91 | 3.23 | 1164 | 0.24 |
| Limonene | 4.30*† | 1025 | [1.91] | 3.13 | 1157 | 0.50 |
| 1,8-Cineole | 4.33† | 1026 | [1.91] | 3.25 | 1166 | 1.16 |
| Lavender lactone | 4.41 | 1031 | 0.01 | 9.14 | 1604 | 0.04 |
| (*Z*)-β-Ocimene | 4.55 | 1040 | 3.77 | 3.73† | 1204 | 3.87 |
| (*E*)-β-Ocimene | 4.69 | 1049 | 2.08 | 3.93* | 1218 | [3.77] |
| γ-Terpinene | 4.80 | 1056 | 0.12 | 3.76† | 1206 | [3.87] |
| *cis*-Sabinene hydrate | 4.94 | 1065 | 0.06 | 6.83* | 1428 | 0.20 |
| *cis*-Linalool oxide (fur.) | 5.03 | 1071 | 0.19 | 6.46* | 1401 | 0.21 |
| Octanol | 5.11 | 1076 | 0.01 | 8.12*† | 1526 | [58.99] |

| | | | | | | |
|---|---|---|---|---|---|---|
| α-Pinene oxide analog | 5.16 | 1079 | 0.06 | 5.35* | 1322 | [0.16] |
| Isoterpinolene | 5.22 | 1083 | 0.01 | 4.16 | 1235 | 0.01 |
| Terpinolene | 5.28*† | 1087 | 0.23 | 4.23* | 1241 | [0.75] |
| para-Cymenene | 5.28*† | 1087 | [0.23] | 6.24* | 1385 | 0.41 |
| *trans*-Linalool oxide (fur.) | 5.28*† | 1087 | [0.23] | 6.83* | 1428 | [0.20] |
| *trans*-Sabinene hydrate | 5.39 | 1094 | 0.01 | 7.89* | 1507 | 0.05 |
| Rosefuran | 5.45 | 1097 | 0.04 | 5.92 | 1362 | 0.04 |
| Linalool | 5.62 | 1108 | 32.99 | 8.04*† | 1519 | 58.99 |
| (*Z*)-6-Methyl-3,5-heptadien-2-one | 5.64 | 1109 | 0.06 | 8.12*† | 1526 | [58.99] |
| β-Thujone | 5.66 | 1111 | 0.05 | 6.20 | 1382 | 0.05 |
| Octen-3-yl acetate | 5.76 | 1117 | 0.93 | 5.74 | 1349 | 0.89 |
| Unknown [m/z 82, 81 (72), 43 (64), 54 (32), 41 (20)...] | 5.81 | 1120 | 0.04 | 9.53* | 1636 | 1.25 |
| Octan-3-yl acetate | 5.94* | 1129 | 0.18 | 5.18 | 1310 | 0.16 |
| allo-Ocimene | 5.94* | 1129 | [0.18] | 5.51 | 1333 | 0.04 |
| (*Z*)-Myroxide | 6.03 | 1134 | 0.04 | 6.78 | 1425 | 0.04 |
| Camphor | 6.07 | 1137 | 0.29 | 7.12 | 1450 | 0.25 |
| *trans*-Verbenol | 6.16* | 1143 | 0.07 | 9.49* | 1633 | 3.48 |
| (*E*)-Myroxide | 6.16* | 1143 | [0.07] | 7.02* | 1443 | 0.05 |
| Hexyl isobutyrate | 6.30 | 1152 | 0.08 | 5.27 | 1316 | 0.07 |
| Nerol oxide | 6.33 | 1154 | 0.02 | 6.75 | 1422 | 0.02 |
| Borneol | 6.47 | 1163 | 0.72 | 9.69* | 1649 | 2.22 |
| *cis*-Linalool oxide (pyr.) | 6.51 | 1166 | 0.02 | 10.23 | 1693 | 0.01 |
| Lavandulol | 6.59 | 1170 | 1.23 | 9.53* | 1636 | [1.25] |
| Terpinen-4-ol | 6.66* | 1175 | 4.13 | 8.50* | 1555 | [4.10] |
| (3*E*,5*Z*)-Undeca-1,3,5-triene | 6.66* | 1175 | [4.13] | 5.86 | 1358 | 0.05 |
| Cryptone | 6.75 | 1181 | 0.24 | 9.06* | 1598 | 0.29 |
| meta-Cymen-8-ol | 6.79 | 1183 | 0.09 | 11.38 | 1791 | 0.08 |
| para-Cymen-8-ol | 6.83 | 1186 | 0.08 | 11.42 | 1794 | 0.09 |
| α-Terpineol | 6.88* | 1189 | 1.15 | 9.69* | 1649 | [2.22] |
| Myrtenal | 6.88* | 1189 | [1.15] | 8.59 | 1562 | 0.01 |
| Myrtenol | 6.97* | 1195 | 0.47 | 10.80 | 1742 | 0.01 |
| Hexyl butyrate | 6.97* | 1195 | [0.47] | 6.24* | 1385 | [0.41] |
| Hodiendiol | 6.97* | 1195 | [0.47] | 12.67* | 1906 | 0.51 |
| Unknown [m/z 43, 71 (66), 59 (52), 41 (47), 68 (46)...] | 7.11 | 1204 | 0.02 | 11.10 | 1766 | 0.02 |
| (3*E*,5*E*)-2,6-Dimethylocta-3,5,7-trien-2-ol | 7.25 | 1213 | 0.04 | 11.29 | 1783 | 0.04 |
| Octyl acetate | 7.28 | 1215 | 0.03 | 7.02* | 1443 | [0.05] |
| Bornyl formate | 7.37 | 1222 | 0.05 | 8.04*† | 1519 | [58.99] |
| Nerol | 7.50 | 1230 | 0.19 | 10.96 | 1755 | 0.21 |
| Hexyl 2-methylbutyrate | 7.56* | 1234 | 0.12 | 6.46* | 1401 | [0.21] |

| | | | | | | |
|---|---|---|---|---|---|---|
| Cuminal | 7.56* | 1234 | [0.12] | 10.53 | 1718 | 0.05 |
| Neral | 7.64* | 1239 | 0.09 | 9.44 | 1629 | 0.04 |
| Carvone | 7.64* | 1239 | [0.09] | 9.89 | 1665 | 0.06 |
| Hexyl isovalerate | 7.76 | 1247 | 0.04 | 6.70* | 1419 | [0.34] |
| Geraniol | 7.97* | 1262 | 26.42 | 11.53 | 1804 | 0.46 |
| Linalyl acetate | 7.97* | 1262 | [26.42] | 8.12*† | 1526 | [58.99] |
| Geranial | 8.10 | 1270 | 0.06 | 10.01 | 1675 | 0.03 |
| 2,6-Dimethyl-1,7-octadiene-3,6-diol | 8.22 | 1278 | 0.02 | 14.57 | 2086 | 0.01 |
| Bornyl acetate | 8.28 | 1282 | 0.17 | 8.22* | 1533 | 0.63 |
| Lavandulyl acetate | 8.45 | 1294 | 3.19 | 8.71 | 1571 | 3.19 |
| Unknown [m/z 150, 107 (98), 91 (79), 108 (61)] | 8.72 | 1312 | 0.01 | 11.99 | 1845 | 0.01 |
| Hexyl tiglate | 8.99 | 1332 | 0.05 | 8.82* | 1579 | 0.17 |
| Hodiendiol derivative | 9.15 | 1343 | 0.04 | 12.84 | 1921 | 0.04 |
| Unknown [m/z 43, 79 (47), 71 (31), 94 (27), 81 (23), 41 (22)... 197 (0)] | 9.29 | 1352 | 0.04 | 11.00 | 1758 | 0.04 |
| Unknown [m/z 43, 79 (46), 71 (30), 94 (25), 41 (23), 81 (21)... 197 (0)] | 9.34 | 1356 | 0.04 | 11.08 | 1765 | 0.04 |
| Neryl acetate | 9.47 | 1366 | 0.33 | 10.10* | 1683 | 0.37 |
| α-Copaene | 9.53 | 1369 | 0.04 | 7.10 | 1448 | 0.02 |
| β-Bourbonene | 9.63 | 1377 | 0.05 | 7.42 | 1472 | 0.05 |
| Geranyl acetate | 9.75 | 1385 | 0.53 | 10.47 | 1713 | 0.53 |
| 7-epi-Sesquithujene | 9.79* | 1388 | 0.24 | 7.80 | 1500 | 0.09 |
| Hexyl hexanoate | 9.79* | 1388 | [0.24] | 8.82* | 1579 | [0.17] |
| α-Funebrene | 9.84 | 1391 | 0.02 | 7.75 | 1497 | 0.01 |
| Isocaryophyllene | 9.98 | 1401 | 0.01 | 8.12*† | 1526 | [58.99] |
| α-Cedrene | 10.01* | 1404 | 0.06 | 7.89* | 1507 | [0.05] |
| Sesquithujene | 10.01* | 1404 | [0.06] | 8.12*† | 1526 | [58.99] |
| *cis*-α-Bergamotene | 10.11* | 1411 | 3.48 | 8.22* | 1533 | [0.63] |
| β-Caryophyllene | 10.11* | 1411 | [3.48] | 8.40* | 1547 | 3.58 |
| α-Santalene | 10.16 | 1415 | 0.46 | 8.22* | 1533 | [0.63] |
| Lavandulyl isobutyrate | 10.24 | 1421 | 0.01 | 9.31 | 1619 | 0.02 |
| *trans*-α-Bergamotene | 10.38 | 1431 | 0.17 | 8.40* | 1547 | [3.58] |
| Isogermacrene D | 10.45 | 1436 | 0.01 | 8.87 | 1584 | 0.02 |
| Sesquisabinene A | 10.50 | 1440 | 0.07 | 9.06* | 1598 | [0.29] |
| *cis*-β-Bergamotene? | 10.52 | 1441 | 0.03 | | | |
| α-Humulene | 10.55 | 1444 | 0.12 | 9.21 | 1610 | 0.11 |
| Lavandulyl butyrate? | 10.67 | 1453 | 0.15 | 10.41 | 1708 | 0.13 |
| (*E*)-β-Farnesene | 10.73 | 1457 | 3.41 | 9.49* | 1633 | [3.48] |
| Dauca-5,8-diene? | 10.82 | 1464 | 0.02 | 9.06* | 1598 | [0.29] |
| Germacrene D | 10.93 | 1472 | 0.35 | 9.69* | 1649 | [2.22] |

| | | | | | | |
|---|---|---|---|---|---|---|
| *trans*-β-Bergamotene | 11.02 | 1479 | 0.07 | 9.49* | 1633 | [3.48] |
| Isodaucene | 11.14 | 1488 | 0.02 | 9.94 | 1669 | 0.02 |
| β-Bisabolene | 11.38* | 1506 | 0.21 | 10.10* | 1683 | [0.37] |
| γ-Cadinene | 11.38* | 1506 | [0.21] | 10.31* | 1699 | 0.19 |
| Unknown [m/z 121, 93 (56), 91 (12), 94 (11), 122 (10)...220] | 11.49 | 1514 | 0.05 | 13.24 | 1958 | 0.05 |
| δ-Cadinene | 11.55 | 1520 | 0.03 | 10.31* | 1699 | [0.19] |
| β-Sesquiphellandrene | 11.61 | 1524 | 0.01 | 10.57 | 1722 | 0.01 |
| Isocaryophyllene epoxide B | 11.84 | 1542 | 0.06 | 12.04 | 1849 | 0.05 |
| α-Elemol | 11.91 | 1548 | 0.01 | 13.94 | 2025 | 0.02 |
| (*E*)-Nerolidol | 12.10 | 1563 | 0.03 | 13.70 | 2001 | 0.02 |
| Caryophyllene oxide | 12.22* | 1572 | 0.56 | 12.67* | 1906 | [0.51] |
| Caryophyllene oxide isomer | 12.22* | 1572 | [0.56] | 12.60 | 1899 | 0.08 |
| Dendrolasin | 12.22* | 1572 | [0.56] | 12.46 | 1886 | 0.03 |
| τ-Cadinol | 12.98 | 1633 | 0.09 | 14.79 | 2107 | 0.13 |
| (3*Z*)-Caryophylla-3,8(13)-dien-5β-ol | 13.36 | 1665 | 0.02 | 16.70 | 2305 | 0.04 |
| *cis*-14-nor-Muurol-5-en-4-one? | 13.48 | 1674 | 0.01 | 15.60 | 2190 | 0.02 |
| Phytone | 15.42 | 1844 | 0.01 | 14.63 | 2092 | 0.03 |
| **Total identified** | | **98.28%** | | | **97.87%** | |
| **Total reported** | | **98.48%** | | | **98.04%** | |

*: 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