PLANT THERAPY
100% PURE ESSENTIAL OILS

# GC/MS BATCH NUMBER: RG0102

**ESSENTIAL OIL**: RAVINTSARA
**BOTANICAL NAME**: CINNAMOMUM CAMPHORA
**ORIGIN**: MADAGASCAR

| KEY CONSTITUENTS PRESENT IN THIS BATCH OF RAVINTSARA OIL | % |
|---|---|
| 1,8-CINEOLE + β-PHELLANDRENE | 58.5 |
| SABINENE | 13.1 |
| α-TERPINEOL | 6.9 |
| α-PINENE | 4.5 |
| β-PINENE | 3.3 |
| TERPINEN-4-ol | 2.1 |
| MYRCENE | 1.4 |
| γ-TERPINENE | 1.3 |

Comments from Robert Tisserand: Fresh, green, Eucalyptus-Rosemary odor profile. Constituents are in expected amounts.

**Date :** July 19, 2018

# *Certificate of Analysis – GC Profiling*

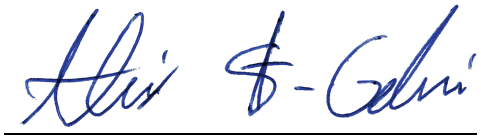
## *Sample identification*

**Internal code :** 18G19-PTH1-1-CC
**Customer identification :** Ravintsara - Madagascar - RG010284R
**Type :** Essential oil
**Source :** *Cinnamomum camphora*
**Customer :** Plant Therapy

## *Analysis*

**Method:** PC-PA-014-17J19 - 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 :** July 19, 2018

Checked and approved by :



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

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*PHYSICOCHEMICAL DATA*

**Physical aspect:** Clear liquid
**Refractive index:** 1.4640 ± 0.0003 (20 °C)

*CONCLUSION*

No adulterant, contaminant or diluent has been detected using this method.

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*ANALYSIS SUMMARY*

| Identification | DB-5 (%) | DB-WAX (%) | Classe |
|---|---|---|---|
| Ethanol | 0.02 | 0.02 | Aliphatic alcohol |
| Isoamyl alcohol | tr | 58.52* | Aliphatic alcohol |
| 2-Methylbutanol | tr | [58.52]* | Aliphatic alcohol |
| (3*Z*)-Hexenol | 0.01 | 0.02 | Aliphatic alcohol |
| (2*E*)-Hexenol | tr | tr | Aliphatic alcohol |
| Hexanol | tr | 0.01 | Aliphatic alcohol |
| Bornylene | tr | | Monoterpene |
| Hashishene | tr | 4.52* | Monoterpene |
| Tricyclene | 0.01 | 0.01 | Monoterpene |
| α-Thujene | 0.83 | 0.84 | Monoterpene |
| α-Pinene | 4.49 | [4.52]* | Monoterpene |
| Camphene | 0.20* | 0.18 | Monoterpene |
| α-Fenchene | [0.20]* | 0.01 | Monoterpene |
| Thuja-2,4(10)-diene | tr | 13.30* | Monoterpene |
| Sabinene | 16.47* | [13.30]* | Monoterpene |
| β-Pinene | [16.47]* | 3.33 | Monoterpene |
| 6-Methyl-5-hepten-2-one | 0.02 | 0.01 | Aliphatic ketone |
| Myrcene | 1.40 | 1.41 | Monoterpene |
| α-Phellandrene | 0.06 | 0.06 | Monoterpene |
| α-Terpinene | 0.78 | 0.79 | Monoterpene |
| para-Cymene | 59.68 | 0.24 | Monoterpene |
| 1,8-Cineole | [59.68]* | [58.52]* | Monoterpenic ether |
| β-Phellandrene | [59.68]* | [58.52]* | Monoterpene |
| Limonene | [59.68]* | 0.73 | Monoterpene |
| Benzyl alcohol | 0.04 | | Simple phenolic |
| (*Z*)-β-Ocimene | 0.05 | 0.04 | Monoterpene |
| (*E*)-β-Ocimene | 0.21 | 0.22 | Monoterpene |
| γ-Terpinene | 1.28 | 1.30 | Monoterpene |
| *cis*-Sabinene hydrate | 0.37 | 0.38* | Monoterpenic alcohol |
| Octanol | tr | tr | Aliphatic alcohol |
| Terpinolene | 0.33* | 0.33 | Monoterpene |
| para-Cymenene | [0.33]* | tr | Monoterpene |
| *trans*-Linalool oxide (fur.) | [0.33]* | tr | Monoterpenic alcohol |
| *trans*-Sabinene hydrate | 0.21 | 0.22 | Monoterpenic alcohol |
| Linalool | 0.04 | 0.04 | Monoterpenic alcohol |
| Unknown | 0.01 | 0.73* | Monoterpenic alcohol |
| endo-Fenchol | 0.01 | 0.01 | Monoterpenic alcohol |
| *trans*-para-Mentha-2,8-dien-1-ol | 0.10* | 0.01 | Monoterpenic alcohol |
| *cis*-para-Menth-2-en-1-ol | [0.10]* | 0.10 | Monoterpenic alcohol |
| α-Campholenal | tr | 0.01 | Monoterpenic aldehyde |
| allo-Ocimene | tr | | Monoterpene |
| *cis*-para-Mentha-2,8-dien-1-ol | 0.01* | 0.02 | Monoterpenic alcohol |
| *trans*-Limonene oxide | [0.01]* | tr | Monoterpenic ether |
| *trans*-para-Menth-2-en-1-ol | 0.07* | 0.07 | Monoterpenic alcohol |
| Camphor | [0.07]* | 0.01 | Monoterpenic ketone |
| neo-allo-Ocimene | 0.01 | | Monoterpene |
| Unknown | 0.01 | tr | Unknown |
| Unknown | 0.01 | [0.38]* | Oxygenated monoterpene |

| | | | |
|---|---|---|---|
| Borneol | 0.12 | 7.03* | Monoterpenic alcohol |
| *cis*-Linalool oxide (pyr.) | 0.56* | 0.03 | Monoterpenic alcohol |
| Unknown | [0.56]* | | Oxygenated monoterpene |
| δ-Terpineol | [0.56]* | 0.58 | Monoterpenic alcohol |
| Terpinen-4-ol | 2.09 | 2.10 | Monoterpenic alcohol |
| Cryptone | 0.01 | tr | Normonoterpenic ketone |
| α-Terpineol | 6.86 | [7.03]* | Monoterpenic alcohol |
| Hodiendiol | 0.04 | 0.04* | Monoterpenic alcohol |
| Dodecane | 0.03 | | Alkane |
| Unknown | tr | | Unknown |
| Unknown | tr | | Unknown |
| Nerol | 0.06 | 0.06 | Monoterpenic alcohol |
| Unknown | 0.02 | | Oxygenated monoterpene |
| Carvone | 0.01 | 0.10* | Monoterpenic ketone |
| Unknown | tr | tr | Unknown |
| Geraniol | 0.01 | 0.01* | Monoterpenic alcohol |
| *trans*-Ascaridole glycol | 0.02 | 0.01 | Monoterpenic alcohol |
| Safrole | tr | [0.01]* | Phenylpropanoid |
| Unknown | 0.01 | | Unknown |
| Unknown | 0.01 | 0.01 | Unknown |
| δ-Elemene isomer | 0.03 | [0.38]* | Sesquiterpene |
| α-Cubebene | 0.02 | [0.38]* | Sesquiterpene |
| Unknown | 0.01 | 0.01 | Unknown |
| α-Ylangene | 0.02 | 0.03 | Sesquiterpene |
| α-Copaene | 0.01 | 0.01 | Sesquiterpene |
| β-Bourbonene | 0.02 | 0.02 | Sesquiterpene |
| β-Elemene | 0.09 | [0.73]* | Sesquiterpene |
| α-Gurjunene | 0.01* | tr | Sesquiterpene |
| Methyleugenol | [0.01]* | tr | Phenylpropanoid |
| β-Caryophyllene | 0.66 | [0.73]* | Sesquiterpene |
| α-Santalene | tr | 0.01 | Sesquiterpene |
| β-Gurjunene | 0.01 | tr | Sesquiterpene |
| Aromadendrene | 0.01 | 0.02 | Sesquiterpene |
| *trans*-α-Bergamotene | 0.03 | [0.73]* | Sesquiterpene |
| 6,9-Guaiadiene | 0.02 | 0.02 | Sesquiterpene |
| α-Humulene | 0.63 | 0.63 | Sesquiterpene |
| β-Santalene | 0.02 | 0.02 | Sesquiterpene |
| Germacrene D | 0.28 | 0.28 | Sesquiterpene |
| β-Selinene | 0.15 | 0.15 | Sesquiterpene |
| Patchoulene analog II | 0.01 | [7.03]* | Sesquiterpene |
| α-Selinene | 0.01 | [0.10]* | Sesquiterpene |
| Viridiflorene | 0.63* | 0.05 | Sesquiterpene |
| Bicyclogermacrene | [0.63]* | 0.51 | Sesquiterpene |
| γ-Cadinene | 0.02 | 0.05 | Sesquiterpene |
| δ-Cadinene | 0.03 | 0.02 | Sesquiterpene |
| Germacrene B | 0.08 | 0.08 | Sesquiterpene |
| Spathulenol | 0.04 | 0.04 | Sesquiterpenic alcohol |
| Caryophyllene oxide | 0.04* | [0.04]* | Sesquiterpenic ether |
| Caryophyllene oxide isomer | [0.04]* | tr | Sesquiterpenic ether |
| Globulol | 0.01 | 0.02 | Sesquiterpenic alcohol |
| Viridiflorol | 0.01 | 0.01 | Sesquiterpenic alcohol |
| Guaiol | 0.04 | 0.04 | Sesquiterpenic alcohol |

| | | | |
|---|---|---|---|
| Humulene epoxide II | 0.03 | 0.03 | Sesquiterpenic ether |
| Isospathulenol | 0.01 | 0.01 | Sesquiterpenic alcohol |
| Neointermedeol | 0.03 | 0.02 | Sesquiterpenic alcohol |
| **Total identified** | **99.51%** | **99.53%** | |

*: Two or more compounds are coeluting on this column
[xx]: Duplicate percentage due to coelutions, not taken account in the identified total
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

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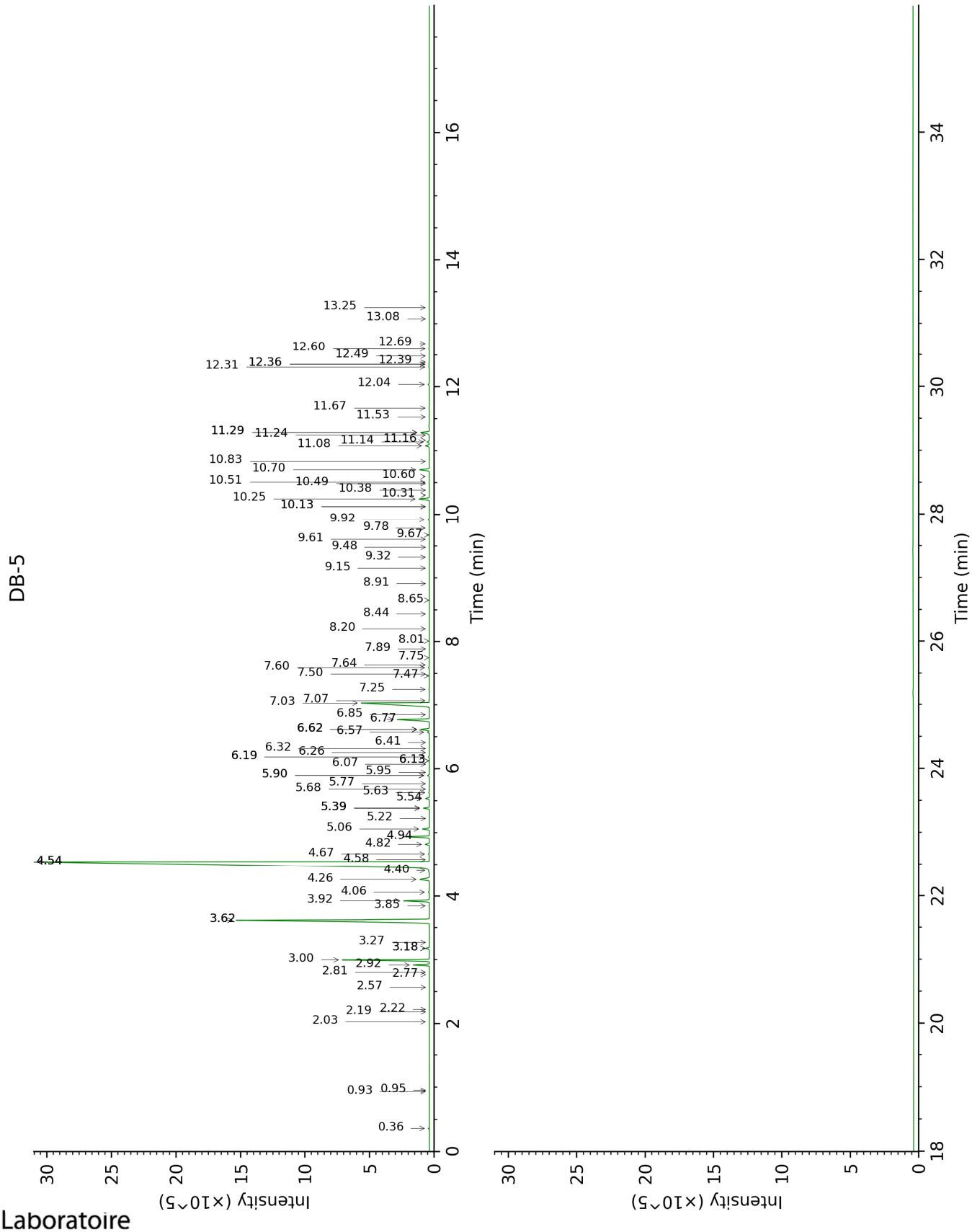
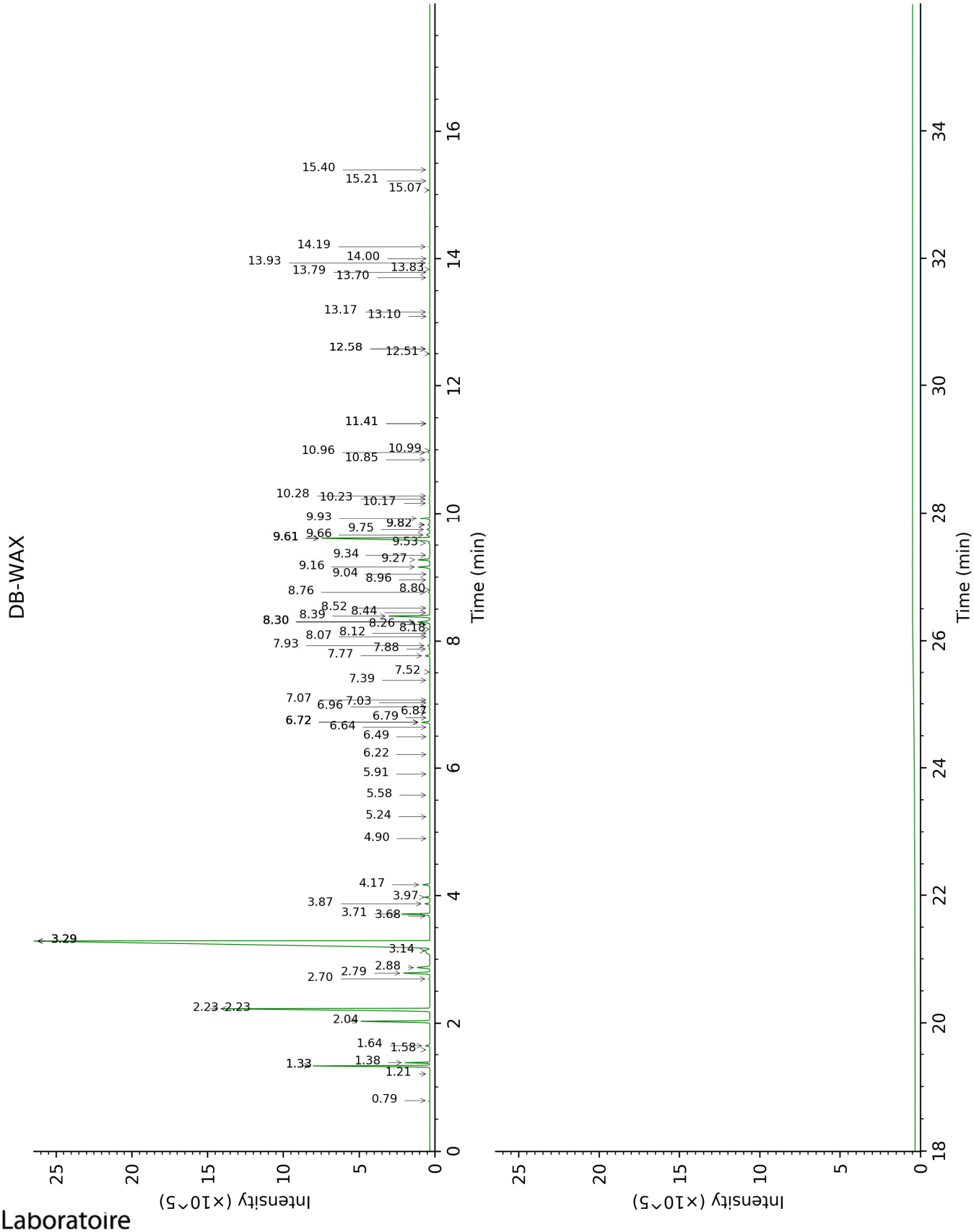

DB-5
Intensity (×10^5)
Time (min)
13.25
13.08
12.60
12.69
12.49
12.31
12.36
12.39
12.04
11.67
11.53
11.29
11.24
11.08
11.14
11.16
10.83
10.70
10.60
10.51
10.49
10.38
10.31
10.25
10.13
9.92
9.78
9.67
9.61
9.48
9.32
9.15
8.91
8.65
8.44
8.20
8.01
7.89
7.75
7.60
7.64
7.50
7.47
7.25
7.03
7.07
6.85
6.77
6.62
6.57
6.41
6.32
6.19
6.26
6.07
6.13
5.95
5.90
5.77
5.68
5.63
5.54
5.39
5.22
5.06
4.94
4.82
4.67
4.58
4.54
4.40
4.26
4.06
3.92
3.85
3.62
3.27
3.18
3.00
2.92
2.81
2.77
2.57
2.19
2.22
2.03
0.93
0.95
0.36


DB-WAX
Intensity (×10^5)
Time (min)
15.40
15.21
15.07
14.19
13.93
14.00
13.79
13.83
13.70
13.17
13.10
12.58
12.51
11.41
10.96
10.85
10.99
10.28
10.23
10.17
9.93
9.61
9.66
9.75
9.82
9.53
9.34
9.27
9.16
9.04
8.96
8.76
8.80
8.52
8.39
8.44
8.30
8.26
8.18
8.07
8.12
7.93
7.88
7.77
7.52
7.39
7.07
6.96
7.03
6.79
6.87
6.72
6.64
6.49
6.22
5.91
5.58
5.24
4.90
4.17
3.97
3.87
3.71
3.68
3.29
3.14
2.88
2.79
2.70
2.23
2.23
2.04
1.64
1.58
1.38
1.33
1.21
0.79

*FULL ANALYSIS DATA*

| Identification | Column DB-5 | | | Column DB-WAX | | |
|---|---|---|---|---|---|---|
| | R.T | R.I | % | R.T | R.I | % |
| Ethanol | 0.36 | 498 | 0.02 | 0.79 | 905 | 0.02 |
| Isoamyl alcohol | 0.93 | 728 | tr | 3.29* | 1176 | 58.52 |
| 2-Methylbutanol | 0.95 | 731 | tr | 3.29* | 1176 | [58.52] |
| (3*Z*)-Hexenol | 2.03 | 854 | 0.01 | 5.58 | 1344 | 0.02 |
| (2*E*)-Hexenol | 2.19 | 867 | tr | 5.91 | 1368 | tr |
| Hexanol | 2.22 | 870 | tr | 5.24 | 1320 | 0.01 |
| Bornylene | 2.57 | 900 | tr | | | |
| Hashishene | 2.77 | 914 | tr | 1.33* | 994 | 4.52 |
| Tricyclene | 2.81 | 916 | 0.01 | 1.20 | 974 | 0.01 |
| α-Thujene | 2.92 | 924 | 0.83 | 1.38 | 1002 | 0.84 |
| α-Pinene | 3.00 | 930 | 4.49 | 1.33* | 994 | [4.52] |
| Camphene | 3.18* | 942 | 0.20 | 1.64 | 1031 | 0.18 |
| α-Fenchene | 3.18* | 942 | [0.20] | 1.58 | 1024 | 0.01 |
| Thuja-2,4(10)-diene | 3.27 | 948 | tr | 2.23* | 1089 | 13.30 |
| Sabinene | 3.62* | 971 | 16.47 | 2.23* | 1089 | [13.30] |
| β-Pinene | 3.62* | 971 | [16.47] | 2.04 | 1070 | 3.33 |
| 6-Methyl-5-hepten-2-one | 3.85 | 986 | 0.02 | 4.90 | 1295 | 0.01 |
| Myrcene | 3.92 | 992 | 1.40 | 2.79 | 1137 | 1.41 |
| α-Phellandrene | 4.06 | 1001 | 0.06 | 2.70 | 1130 | 0.06 |
| α-Terpinene | 4.26 | 1014 | 0.78 | 2.88 | 1143 | 0.79 |
| para-Cymene | 4.40† | 1023 | 59.68 | 3.97 | 1228 | 0.24 |
| 1,8-Cineole | 4.54*† | 1032 | [59.68] | 3.29* | 1176 | [58.52] |
| β-Phellandrene | 4.54*† | 1032 | [59.68] | 3.29* | 1176 | [58.52] |
| Limonene | 4.54*† | 1032 | [59.68] | 3.14 | 1164 | 0.73 |
| Benzyl alcohol | 4.58 | 1034 | 0.04 | | | |
| (*Z*)-β-Ocimene | 4.67 | 1039 | 0.05 | 3.68 | 1206 | 0.04 |
| (*E*)-β-Ocimene | 4.82 | 1049 | 0.21 | 3.87 | 1220 | 0.22 |
| γ-Terpinene | 4.94 | 1057 | 1.28 | 3.71 | 1209 | 1.30 |
| *cis*-Sabinene hydrate | 5.06 | 1064 | 0.37 | 6.72* | 1427 | 0.38 |
| Octanol | 5.22 | 1075 | tr | 8.07 | 1529 | tr |
| Terpinolene | 5.39* | 1085 | 0.33 | 4.17 | 1242 | 0.33 |
| para-Cymenene | 5.39* | 1085 | [0.33] | 6.22 | 1390 | tr |
| *trans*-Linalool oxide (fur.) | 5.39* | 1085 | [0.33] | 6.79 | 1432 | tr |
| *trans*-Sabinene hydrate | 5.54 | 1094 | 0.21 | 7.77 | 1506 | 0.22 |
| Linalool | 5.63 | 1100 | 0.04 | 7.88 | 1514 | 0.04 |
| Unknown [m/z 119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)] | 5.68 | 1104 | 0.01 | 8.30* | 1547 | 0.73 |
| endo-Fenchol | 5.77 | 1109 | 0.01 | 8.18 | 1538 | 0.01 |
| *trans*-para- | 5.90* | 1118 | 0.10 | 8.80 | 1587 | 0.01 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Mentha-2,8-dien-1-ol | | | | | | |
| *cis*-para-Menth-2-en-1-ol | 5.90* | 1118 | [0.10] | 7.93 | 1518 | 0.10 |
| α-Campholenal | 5.95 | 1121 | tr | 6.87 | 1439 | 0.01 |
| allo-Ocimene | 6.07 | 1129 | tr | | | |
| *cis*-para-Mentha-2,8-dien-1-ol | 6.13* | 1132 | 0.01 | 9.34 | 1630 | 0.02 |
| *trans*-Limonene oxide | 6.13* | 1132 | [0.01] | 6.49 | 1410 | tr |
| *trans*-para-Menth-2-en-1-ol | 6.19* | 1136 | 0.07 | 8.76 | 1584 | 0.07 |
| Camphor | 6.19* | 1136 | [0.07] | 7.07 | 1453 | 0.01 |
| neo-allo-Ocimene | 6.26 | 1141 | 0.01 | | | |
| Unknown [m/z 109, 124 (45), 119 (41), 43 (35), 91 (28), 95 (25)...] | 6.32 | 1145 | 0.01 | 6.64 | 1421 | tr |
| Unknown [m/z 109, 41 (49), 124 (41), 43 (31), 95 (28), 84 (22)... 152 (7)] | 6.41 | 1151 | 0.01 | 6.72* | 1427 | [0.38] |
| Borneol | 6.57 | 1161 | 0.12 | 9.61* | 1652 | 7.03 |
| *cis*-Linalool oxide (pyr.) | 6.62* | 1164 | 0.56 | 10.17 | 1697 | 0.03 |
| Unknown [m/z 109, 79 (18), 81 (15), 91 (12), 77 (10)... 152 (3)] | 6.62* | 1164 | [0.56] | | | |
| δ-Terpineol | 6.62* | 1164 | [0.56] | 9.27 | 1624 | 0.58 |
| Terpinen-4-ol | 6.77 | 1174 | 2.09 | 8.39 | 1554 | 2.10 |
| Cryptone | 6.85 | 1179 | 0.01 | 9.04 | 1606 | tr |
| α-Terpineol | 7.03 | 1190 | 6.86 | 9.61* | 1652 | [7.03] |
| Hodiendiol | 7.07 | 1193 | 0.04 | 12.58* | 1908 | 0.04 |
| Dodecane | 7.26 | 1205 | 0.03 | | | |
| Unknown [m/z 43, 97 (72), 41 (44), 71 (27), 55 (26), 82 (25)...] | 7.47 | 1219 | tr | | | |
| Unknown [m/z 83, 55 (23), 43 (15), 71 (14), 82 (13), 98 (11), ... 153 (4)] | 7.50 | 1221 | tr | | | |
| Nerol | 7.60 | 1228 | 0.06 | 10.85 | 1755 | 0.06 |
| Unknown [m/z 137, 152 (28), 43 (25), 91 (24), 109 (23), 119 (19)] | 7.64 | 1231 | 0.02 | | | |
| Carvone | 7.75 | 1238 | 0.01 | 9.82* | 1669 | 0.10 |
| Unknown [m/z 43, 97 (69), 107 (46), | 7.89 | 1248 | tr | 10.99 | 1767 | tr |

| | | | | | | |
|---|---|---|---|---|---|---|
| 41 (28), 55 (21), 109 (20)...] | | | | | | |
| Geraniol | 8.01 | 1256 | 0.01 | 11.41* | 1804 | 0.01 |
| *trans*-Ascaridole glycol | 8.20 | 1269 | 0.02 | 14.00 | 2042 | 0.01 |
| Safrole | 8.44 | 1284 | tr | 11.41* | 1804 | [0.01] |
| Unknown [m/z 112, 97 (93), 83 (60), 43 (46), 41 (20), 69 (19)...] | 8.65 | 1299 | 0.01 | | | |
| Unknown [m/z 111, 126 (93), 43 (90), 71 (60)...] | 8.91 | 1317 | 0.01 | 15.07 | 2147 | 0.01 |
| δ-Elemene isomer | 9.15 | 1334 | 0.03 | 6.72* | 1427 | [0.38] |
| α-Cubebene | 9.32 | 1346 | 0.02 | 6.72* | 1427 | [0.38] |
| Unknown [m/z 43, 95 (62), 107 (45), 110 (41), 55 (28), 67 (25)...] | 9.48 | 1357 | 0.01 | 13.79 | 2021 | 0.01 |
| α-Ylangene | 9.61 | 1366 | 0.02 | 6.96 | 1445 | 0.03 |
| α-Copaene | 9.67 | 1371 | 0.01 | 7.02 | 1450 | 0.01 |
| β-Bourbonene | 9.78 | 1379 | 0.02 | 7.39 | 1477 | 0.02 |
| β-Elemene | 9.92 | 1388 | 0.09 | 8.30* | 1547 | [0.73] |
| α-Gurjunene | 10.13* | 1403 | 0.01 | 7.52 | 1487 | tr |
| Methyleugenol | 10.13* | 1403 | [0.01] | 13.10 | 1956 | tr |
| β-Caryophyllene | 10.25 | 1412 | 0.66 | 8.30* | 1547 | [0.73] |
| α-Santalene | 10.31 | 1416 | tr | 8.12 | 1533 | 0.01 |
| β-Gurjunene | 10.38 | 1422 | 0.01 | 8.26 | 1544 | tr |
| Aromadendrene | 10.49 | 1430 | 0.01 | 8.44 | 1559 | 0.02 |
| *trans*-α-Bergamotene | 10.51 | 1432 | 0.03 | 8.30* | 1547 | [0.73] |
| 6,9-Guaiadiene | 10.60 | 1438 | 0.02 | 8.52 | 1564 | 0.02 |
| α-Humulene | 10.70 | 1446 | 0.63 | 9.16 | 1615 | 0.63 |
| β-Santalene | 10.83 | 1456 | 0.02 | 8.96 | 1599 | 0.02 |
| Germacrene D | 11.08 | 1474 | 0.28 | 9.66 | 1656 | 0.28 |
| β-Selinene | 11.14 | 1479 | 0.15 | 9.75 | 1663 | 0.15 |
| Patchoulene analog II | 11.16 | 1481 | 0.01 | 9.61* | 1652 | [7.03] |
| α-Selinene | 11.24 | 1487 | 0.01 | 9.82* | 1669 | [0.10] |
| Viridiflorene | 11.29* | 1490 | 0.63 | 9.53 | 1645 | 0.05 |
| Bicyclogermacrene | 11.29* | 1490 | [0.63] | 9.92 | 1678 | 0.51 |
| γ-Cadinene | 11.53 | 1508 | 0.02 | 10.23 | 1702 | 0.05 |
| δ-Cadinene | 11.67 | 1519 | 0.03 | 10.28 | 1707 | 0.02 |
| Germacrene B | 12.04 | 1548 | 0.08 | 10.96 | 1765 | 0.08 |
| Spathulenol | 12.31 | 1570 | 0.04 | 14.19 | 2060 | 0.04 |
| Caryophyllene oxide | 12.36* | 1573 | 0.04 | 12.58* | 1908 | [0.04] |
| Caryophyllene oxide isomer | 12.36* | 1573 | [0.04] | 12.51 | 1901 | tr |
| Globulol | 12.39 | 1576 | 0.01 | 13.70 | 2013 | 0.02 |
| Viridiflorol | 12.49 | 1583 | 0.01 | 13.83 | 2025 | 0.01 |
| Guaiol | 12.60 | 1592 | 0.04 | 13.93 | 2035 | 0.04 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Humulene epoxide II | 12.69 | 1599 | 0.03 | 13.17 | 1962 | 0.03 |
| Isospathulenol | 13.08 | 1631 | 0.01 | 15.22 | 2162 | 0.01 |
| Neointermedeol | 13.25 | 1646 | 0.03 | 15.40 | 2181 | 0.02 |
| **Total identified** | | **99.51%** | | | **99.53%** | |
| **Total reported** | | **99.58%** | | | **99.56%** | |

*: Two or more compounds are coeluting on this column
[xx]: Duplicate percentage due to coelutions, not taken account in the identified 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

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