

**Date :** 2025-11-12

**CERTIFICATE OF ANALYSIS - GC PROFILING**

**SAMPLE IDENTIFICATION**

**Internal code :** 25J23-PTH04

**Customer Identification :** Lavender - Bulgaria - L40123R

**Type :** Essential Oil

**Source :** *Lavandula angustifolia*

**Customer :** Plant Therapy

Checked and approved by:

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

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*This report is an update of the version first issued on October 28, 2025 to make a correction in the sample identification section.*

## *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 :** 2025-10-28

## *PHYSICOCHEMICAL DATA*

**Refractive index :**  $1.4631 \pm 0.0003$  (20 °C)

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

**Analyst :** Cindy Caron B. Sc.

**Date :** 2025-10-27

## *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              |
|-------------------------------------|------|--------------------|
| 3-Buten-2-one                       | tr   | Aliphatic ketone   |
| Isovaleral                          | 0.01 | Aliphatic aldehyde |
| 2-Methylbutyral                     | 0.01 | Aliphatic aldehyde |
| Isoamyl alcohol                     | 0.01 | Aliphatic alcohol  |
| 2-Methylbutanol                     | 0.01 | Aliphatic alcohol  |
| Toluene                             | 0.01 | Simple phenolic    |
| Butyl acetate                       | 0.02 | Aliphatic ester    |
| Methyl hexyl ether                  | 0.13 | Aliphatic ether    |
| (3Z)-Hexenol                        | 0.03 | Aliphatic alcohol  |
| Hexanol                             | 0.12 | Aliphatic alcohol  |
| Tricyclene                          | 0.02 | Monoterpene        |
| $\alpha$ -Thujene                   | 0.11 | Monoterpene        |
| $\alpha$ -Pinene                    | 0.20 | Monoterpene        |
| Camphene                            | 0.17 | Monoterpene        |
| $\alpha$ -Fenchene                  | 0.01 | Monoterpene        |
| 5,5-Dimethyl-2(5H)-furanone         | 0.01 | Aliphatic lactone  |
| Butyl isobutyrate                   | 0.01 | Aliphatic ester    |
| Sabinene                            | 0.06 | Monoterpene        |
| $\beta$ -Pinene                     | 0.05 | Monoterpene        |
| Octen-3-ol                          | 0.30 | Aliphatic alcohol  |
| 6-Methyl-5-hepten-2-one             | 0.01 | Aliphatic ketone   |
| Octan-3-one                         | 1.44 | Aliphatic ketone   |
| Myrcene                             | 0.65 | Monoterpene        |
| Butyl butyrate                      | 0.12 | Aliphatic ester    |
| Octan-3-ol                          | 0.33 | Aliphatic alcohol  |
| Pseudolimonene                      | 0.01 | Monoterpene        |
| $\alpha$ -Phellandrene              | 0.03 | Monoterpene        |
| <i>cis</i> -Dehydroxylinalool oxide | 0.01 | Monoterpenic ether |
| $\Delta^3$ -Carene                  | 0.15 | Monoterpene        |
| (3Z)-Hexenyl acetate                | 0.01 | Aliphatic ester    |
| $\alpha$ -Terpinene                 | 0.04 | Monoterpene        |
| Hexyl acetate                       | 0.64 | Aliphatic ester    |
| <i>meta</i> -Cymene                 | 0.04 | Monoterpene        |
| <i>para</i> -Cymene                 | 0.23 | Monoterpene        |
| Limonene                            | 0.46 | Monoterpene        |
| 1,8-Cineole                         | 1.23 | Monoterpenic ether |
| Lavender lactone                    | 0.01 | Aliphatic lactone  |
| (Z)- $\beta$ -Ocimene               | 3.69 | Monoterpene        |
| (E)- $\beta$ -Ocimene               | 2.10 | Monoterpene        |
| $\gamma$ -Terpinene                 | 0.13 | Monoterpene        |

|                                                             |       |                       |
|-------------------------------------------------------------|-------|-----------------------|
| <i>cis</i> -Sabinene hydrate                                | 0.05  | Monoterpenic alcohol  |
| <i>cis</i> -Linalool oxide (fur.)                           | 0.17  | Monoterpenic alcohol  |
| Octanol                                                     | 0.02  | Aliphatic alcohol     |
| $\alpha$ -Pinene oxide analog                               | 0.03  | Monoterpenic ether    |
| <i>trans</i> -Linalool oxide (fur.)                         | 0.12  | Monoterpenic alcohol  |
| Terpinolene                                                 | 0.03  | Monoterpene           |
| Rosefuran                                                   | 0.06  | Monoterpenic ether    |
| Linalool                                                    | 33.16 | Monoterpenic alcohol  |
| ( <i>Z</i> )-6-Methyl-3,5-heptadien-2-one                   | 0.05  | Aliphatic ketone      |
| $\beta$ -Thujone                                            | 0.04  | Monoterpenic ketone   |
| Octen-3-yl acetate                                          | 0.89  | Aliphatic ester       |
| Unknown                                                     | 0.04  | Unknown               |
| Octan-3-yl acetate                                          | 0.12  | Aliphatic ester       |
| allo-Ocimene                                                | 0.06  | Monoterpene           |
| ( <i>Z</i> )-Myroxide                                       | 0.06  | Monoterpenic ether    |
| Camphor                                                     | 0.25  | Monoterpenic ketone   |
| ( <i>E</i> )-Myroxide                                       | 0.03  | Monoterpenic ether    |
| Hexyl isobutyrate                                           | 0.09  | Aliphatic ester       |
| Nerol oxide                                                 | 0.02  | Aliphatic ether       |
| Borneol                                                     | 0.64  | Monoterpenic alcohol  |
| <i>cis</i> -Linalool oxide (pyr.)                           | 0.01  | Monoterpenic alcohol  |
| Lavandulol                                                  | 1.17  | Monoterpenic alcohol  |
| (3 <i>E</i> ,5 <i>Z</i> )-Undeca-1,3,5-triene               | 0.03  | Alkene                |
| Terpinen-4-ol                                               | 3.61  | Monoterpenic alcohol  |
| <i>meta</i> -Cymen-8-ol                                     | 0.07  | Monoterpenic alcohol  |
| Cryptone                                                    | 0.26  | Normoterpenic ketone  |
| <i>para</i> -Cymen-8-ol                                     | 0.08  | Monoterpenic alcohol  |
| $\alpha$ -Terpineol                                         | 1.16  | Monoterpenic alcohol  |
| Hodiendiol (2,6-dimethylocta-3,7-diene-2,6-diol)            | 0.05  | Monoterpenic alcohol  |
| Hexyl butyrate                                              | 0.44  | Aliphatic ester       |
| Verbenone                                                   | 0.03  | Monoterpenic ketone   |
| Unknown                                                     | 0.04  | Unknown               |
| (3 <i>E</i> ,5 <i>E</i> )-2,6-Dimethylocta-3,5,7-trien-2-ol | 0.03  | Monoterpenic alcohol  |
| <i>trans</i> -Carveol                                       | 0.04  | Monoterpenic alcohol  |
| Bornyl formate                                              | 0.03  | Monoterpenic ester    |
| Nerol                                                       | 0.21  | Monoterpenic alcohol  |
| Hexyl 2-methylbutyrate                                      | tr    | Aliphatic ester       |
| Cuminal                                                     | 0.01  | Monoterpenic aldehyde |
| Carvone                                                     | 0.04  | Monoterpenic ketone   |
| Neral                                                       | 0.04  | Monoterpenic aldehyde |
| Hexyl isovalerate                                           | 0.01  | Aliphatic ester       |
| Geraniol                                                    | 0.47  | Monoterpenic alcohol  |
| Linalyl acetate                                             | 27.70 | Monoterpenic ester    |
| Geranial                                                    | 0.04  | Monoterpenic aldehyde |

|                                      |      |                          |
|--------------------------------------|------|--------------------------|
| 2,6-Dimethyl-1,7-octadiene-3,6-diol  | 0.02 | Monoterpenic alcohol     |
| Bornyl acetate                       | 0.11 | Monoterpenic ester       |
| Cuminol                              | 0.05 | Monoterpenic alcohol     |
| Lavandulyl acetate                   | 3.06 | Monoterpenic ester       |
| Thymol                               | 0.02 | Monoterpenic alcohol     |
| Hexyl tiglate                        | 0.05 | Aliphatic ester          |
| Hodiendiol derivative                | 0.03 | Oxygenated monoterpene   |
| Unknown                              | 0.03 | Oxygenated monoterpene   |
| Unknown                              | 0.03 | Oxygenated monoterpene   |
| Neryl acetate                        | 0.33 | Monoterpenic ester       |
| $\alpha$ -Copaene                    | 0.03 | Sesquiterpene            |
| Daucene                              | 0.03 | Sesquiterpene            |
| $\beta$ -Bourbonene                  | 0.06 | Sesquiterpene            |
| Geranyl acetate                      | 0.55 | Monoterpenic ester       |
| 7-epi-Sesquithujene                  | 0.10 | Sesquiterpene            |
| Hexyl hexanoate                      | 0.12 | Aliphatic ester          |
| Isocaryophyllene                     | 0.02 | Sesquiterpene            |
| Sesquithujene                        | 0.04 | Sesquiterpene            |
| <i>cis</i> - $\alpha$ -Bergamotene   | 0.07 | Sesquiterpene            |
| $\beta$ -Caryophyllene               | 3.69 | Sesquiterpene            |
| $\alpha$ -Santalene                  | 0.46 | Sesquiterpene            |
| Lavandulyl isobutyrate               | 0.06 | Monoterpenic ester       |
| Coumarin                             | 0.01 | Coumarin                 |
| <i>trans</i> - $\alpha$ -Bergamotene | 0.16 | Sesquiterpene            |
| Sesquisabinene A                     | 0.04 | Sesquiterpene            |
| <i>cis</i> - $\beta$ -Bergamotene?   | 0.04 | Sesquiterpene            |
| $\alpha$ -Humulene                   | 0.12 | Sesquiterpene            |
| Lavandulyl butyrate?                 | 0.13 | Monoterpenic ester       |
| ( <i>E</i> )- $\beta$ -Farnesene     | 3.43 | Sesquiterpene            |
| $\beta$ -Santalene                   | 0.04 | Sesquiterpene            |
| Germacrene D                         | 0.41 | Sesquiterpene            |
| <i>trans</i> - $\beta$ -Bergamotene  | 0.07 | Sesquiterpene            |
| Isodaucene                           | 0.01 | Sesquiterpene            |
| Lavandulyl isovalerate               | 0.02 | Monoterpenic ester       |
| $\beta$ -Bisabolene                  | tr   | Sesquiterpene            |
| $\gamma$ -Cadinene                   | 0.17 | Sesquiterpene            |
| Unknown                              | 0.05 | Oxygenated sesquiterpene |
| $\beta$ -Sesquiphellandrene          | 0.02 | Sesquiterpene            |
| $\delta$ -Cadinene                   | 0.01 | Sesquiterpene            |
| Isocaryophyllene epoxide B           | 0.05 | Sesquiterpenic ether     |
| ( <i>E</i> )-Nerolidol               | 0.02 | Sesquiterpenic alcohol   |
| Caryophyllene oxide                  | 0.42 | Sesquiterpenic ether     |
| Caryophyllene oxide isomer           | 0.06 | Sesquiterpenic ether     |
| Humulene epoxide II                  | 0.02 | Sesquiterpenic ether     |
| $\tau$ -Cadinol                      | 0.08 | Sesquiterpenic alcohol   |

|                                                                   |              |                        |
|-------------------------------------------------------------------|--------------|------------------------|
| (3Z)-Caryophylla-3,8(13)-dien-5 $\beta$ -ol                       | 0.01         | Sesquiterpenic alcohol |
| Unknown                                                           | 0.01         | Unknown                |
| Phytone                                                           | 0.01         | Terpenic ketone        |
| Unknown UNKN CDIV [m/z 99, 69 (61), 71 (34), 43 (30), 81 (27)...] | 0.03         | Unknown                |
| <b>Consolidated total</b>                                         | <b>98.56</b> |                        |

tr: The compound has been detected below 0.005% of the total signal

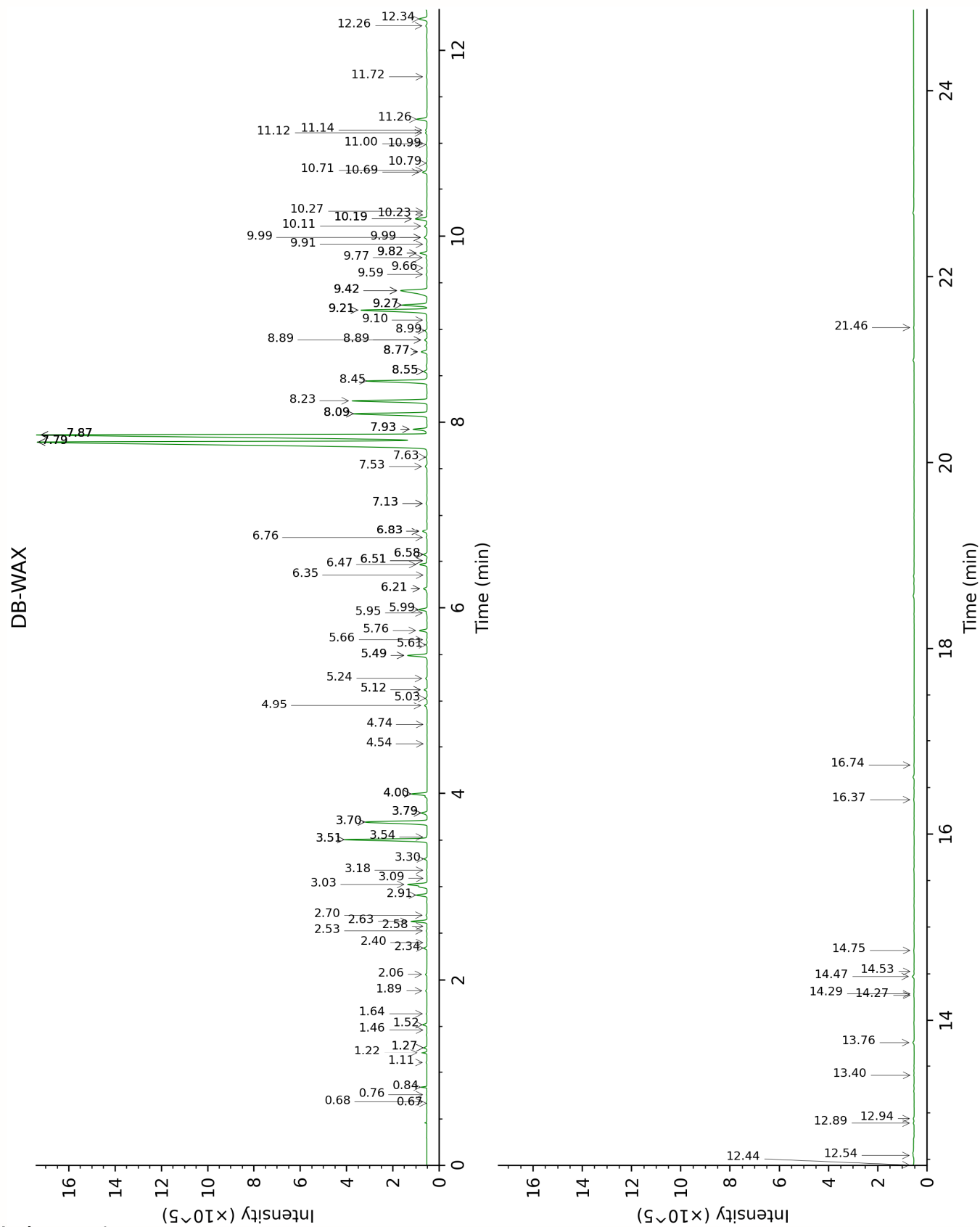
Note: no correction factor was applied

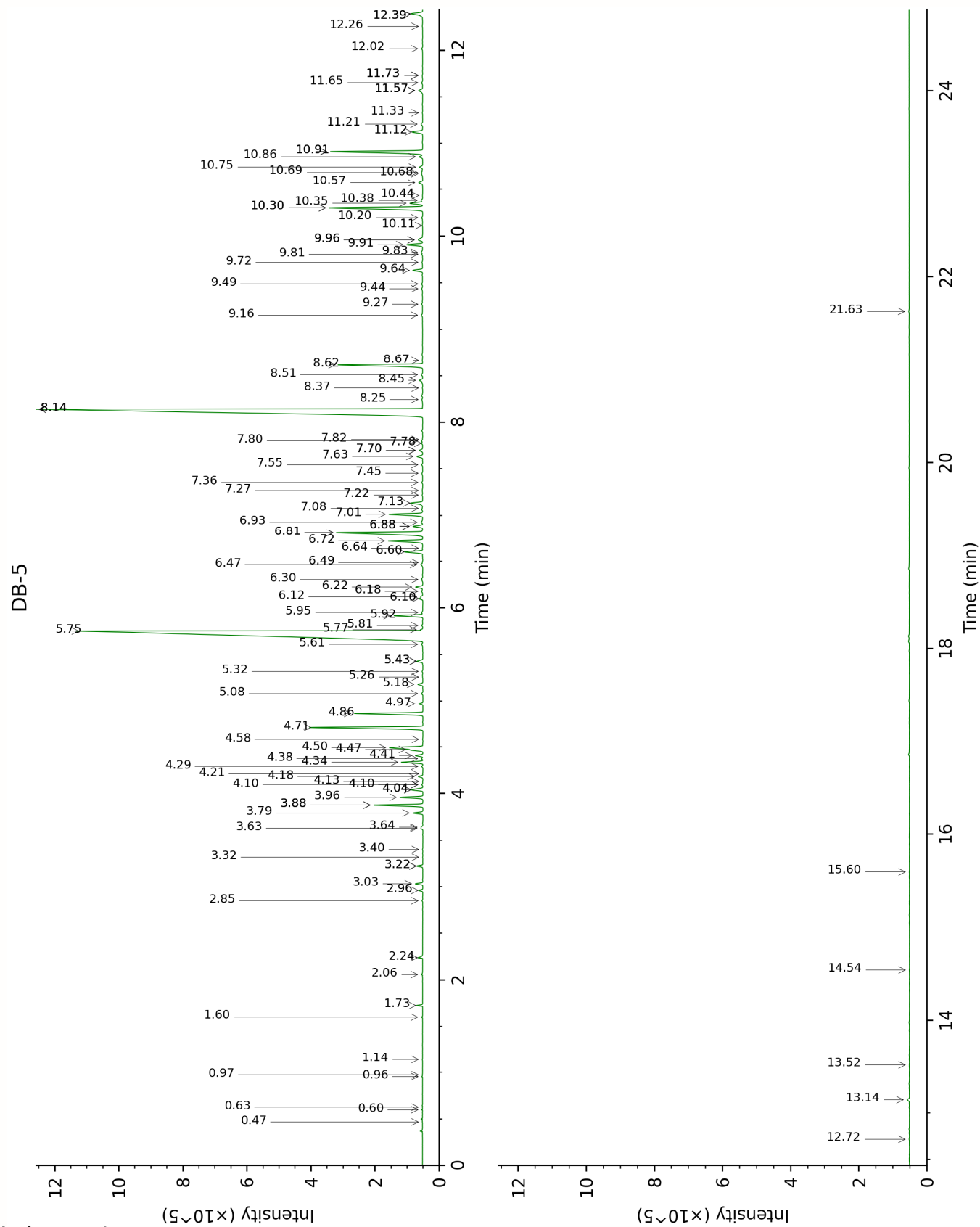
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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

| 3-Buten-2-one               | Column DB-WAX |        |        | Column DB-5 |        |        |
|-----------------------------|---------------|--------|--------|-------------|--------|--------|
|                             | 0.76          | 911.3  | 0.01   | 0.47        | 578.4  | tr     |
| Isovaleral                  | 0.68          | 886.7  | 0.01   | 0.60        | 642.7  | 0.01   |
| 2-Methylbutyral             | 0.67          | 880.7  | tr     | 0.63        | 652.9  | 0.01   |
| Isoamyl alcohol             | 3.18          | 1178.1 | 0.02   | 0.96        | 732.1  | 0.01   |
| 2-Methylbutanol             | 3.09          | 1171.1 | 0.01   | 0.98        | 734.9  | 0.01   |
| Toluene                     | 1.27*         | 1000.8 | [0.12] | 1.14        | 758.7  | 0.01   |
| Butyl acetate               | 1.64          | 1040.1 | 0.02   | 1.60        | 816.8  | 0.02   |
| Methyl hexyl ether          | 0.84          | 925.4  | 0.13   | 1.73        | 827.3  | 0.13   |
| (3Z)-Hexenol                | 5.49*         | 1349.3 | [0.91] | 2.06        | 855.2  | 0.03   |
| Hexanol                     | 5.12*         | 1322.3 | [0.12] | 2.24        | 870.5  | 0.12   |
| Tricyclene                  | 1.11          | 971.7  | 0.02   | 2.85        | 918.4  | 0.02   |
| α-Thujene                   | 1.27*         | 1000.8 | [0.12] | 2.96        | 925.8  | 0.11   |
| α-Pinene                    | 1.22          | 990.7  | 0.20   | 3.03        | 930.6  | 0.20   |
| Camphene                    | 1.52          | 1028.0 | 0.17   | 3.22*       | 943.3  | [0.18] |
| α-Fenchene                  | 1.46          | 1022.1 | 0.01   | 3.22*       | 943.3  | [0.18] |
| 5,5-Dimethyl-2(5H)-furanone | 8.09*         | 1545.6 | [3.86] | 3.32        | 949.6  | 0.01   |
| Butyl isobutyrate           | 2.40          | 1115.7 | 0.01   | 3.40        | 955.2  | 0.01   |
| Sabinene                    | 2.06          | 1083.7 | 0.06   | 3.63        | 970.4  | 0.06   |
| β-Pinene                    | 1.88          | 1065.6 | 0.06   | 3.64        | 971.2  | 0.05   |
| Octen-3-ol                  | 6.47          | 1421.2 | 0.33   | 3.79        | 981.5  | 0.30   |
| 6-Methyl-5-hepten-2-one     | 4.74          | 1296.4 | 0.01   | 3.88*       | 987.1  | [1.45] |
| Octan-3-one                 | 3.70*         | 1218.6 | [3.53] | 3.88*       | 987.1  | [1.45] |
| Myrcene                     | 2.63          | 1134.0 | 0.65   | 3.96        | 992.8  | 0.65   |
| Butyl butyrate              | 3.30          | 1187.9 | 0.12   | 4.04*       | 998.2  | [0.43] |
| Octan-3-ol                  | 5.76          | 1368.9 | 0.33   | 4.04*       | 998.2  | [0.43] |
| Pseudolimonene              | 2.58          | 1129.8 | 0.01   | 4.10*       | 1001.9 | [0.04] |
| α-Phellandrene              | 2.53          | 1125.9 | 0.03   | 4.10*       | 1001.9 | [0.04] |
| cis-Dehydroxylinalool oxide | 3.54          | 1206.7 | 0.02   | 4.13        | 1004.2 | 0.01   |
| Δ3-Carene                   | 2.34          | 1111.1 | 0.14   | 4.18        | 1007.6 | 0.15   |
| (3Z)-Hexenyl acetate        | 4.54          | 1280.8 | 0.01   | 4.21        | 1009.4 | 0.01   |
| α-Terpinene                 | 2.70          | 1139.3 | 0.04   | 4.29        | 1014.4 | 0.04   |
| Hexyl acetate               | 4.00*         | 1240.9 | [0.67] | 4.34        | 1017.2 | 0.64   |
| meta-Cymene                 | 3.79*         | 1225.8 | [0.28] | 4.38        | 1019.7 | 0.04   |
| para-Cymene                 | 3.79*         | 1225.8 | [0.28] | 4.41        | 1021.8 | 0.23   |
| Limonene                    | 2.91          | 1156.6 | 0.46   | 4.47*†      | 1025.9 | [0.32] |
| 1,8-Cineole                 | 3.03          | 1165.8 | 1.23   | 4.50*†      | 1027.2 | [1.36] |
| Lavender lactone            | 8.89*         | 1608.5 | [0.11] | 4.58        | 1032.8 | 0.01   |
| (Z)-β-Ocimene               | 3.51*         | 1204.6 | [3.79] | 4.71        | 1041.0 | 3.69   |

|                                                                |        |        |         |       |        |        |
|----------------------------------------------------------------|--------|--------|---------|-------|--------|--------|
| (E)- $\beta$ -Ocimene                                          | 3.70*  | 1218.6 | [3.53]  | 4.86  | 1050.4 | 2.10   |
| $\gamma$ -Terpinene                                            | 3.51*  | 1204.6 | [3.79]  | 4.97  | 1057.4 | 0.13   |
| cis-Sabinene hydrate                                           | 6.58*  | 1429.3 | [0.17]  | 5.08  | 1064.5 | 0.05   |
| cis-Linalool oxide (fur.)                                      | 6.21*  | 1401.7 | [0.17]  | 5.18  | 1070.8 | 0.17   |
| Octanol                                                        | 7.87*† | 1527.7 | [27.46] | 5.26  | 1075.8 | 0.02   |
| $\alpha$ -Pinene oxide analog                                  | 5.12*  | 1322.3 | [0.12]  | 5.32  | 1079.6 | 0.03   |
| trans-Linalool oxide (fur.)                                    | 6.58*  | 1429.3 | [0.17]  | 5.43* | 1086.5 | [0.22] |
| Terpinolene                                                    | 4.00*  | 1240.9 | [0.67]  | 5.43* | 1086.5 | [0.22] |
| Rosefuran                                                      | 5.66   | 1361.7 | 0.03    | 5.61  | 1098.1 | 0.06   |
| Linalool                                                       | 7.79*† | 1521.6 | [33.49] | 5.75  | 1107.3 | 33.16  |
| (Z)-6-Methyl-3,5-heptadien-2-one                               | 7.87*† | 1527.7 | [27.46] | 5.77  | 1108.1 | 0.05   |
| $\beta$ -Thujone                                               | 5.95   | 1382.7 | 0.04    | 5.81  | 1111.1 | 0.04   |
| Octen-3-yl acetate                                             | 5.49*  | 1349.3 | [0.91]  | 5.92  | 1118.0 | 0.89   |
| Unknown LAAN I [m/z 82, 81 (72), 43 (64), 54 (32), 41 (20)...] | 9.26*  | 1639.2 | [1.14]  | 5.95  | 1120.2 | 0.04   |
| Octan-3-yl acetate                                             | 4.95   | 1309.4 | 0.11    | 6.10  | 1129.8 | 0.12   |
| allo-Ocimene                                                   | 5.24   | 1331.2 | 0.06    | 6.12  | 1131.1 | 0.06   |
| (Z)-Myroxide                                                   | 6.51*  | 1424.2 | [0.05]  | 6.18  | 1134.9 | 0.06   |
| Camphor                                                        | 6.82*  | 1448.2 | [0.24]  | 6.22  | 1137.9 | 0.25   |
| (E)-Myroxide                                                   | 6.76   | 1443.1 | 0.04    | 6.30  | 1143.1 | 0.03   |
| Hexyl isobutyrate                                              | 5.03   | 1315.5 | 0.06    | 6.47  | 1153.6 | 0.09   |
| Nerol oxide                                                    | 6.51*  | 1424.2 | [0.05]  | 6.49  | 1155.0 | 0.02   |
| Borneol                                                        | 9.42*  | 1651.9 | [2.19]  | 6.60  | 1162.5 | 0.64   |
| cis-Linalool oxide (pyr.)                                      | 9.91   | 1692.6 | 0.02    | 6.64  | 1165.0 | 0.01   |
| Lavandulol                                                     | 9.26*  | 1639.2 | [1.14]  | 6.72  | 1170.2 | 1.17   |
| (3E,5Z)-Undeca-1,3,5-triene                                    | 5.60   | 1357.6 | 0.03    | 6.81* | 1175.9 | [3.64] |
| Terpinen-4-ol                                                  | 8.23   | 1556.5 | 3.61    | 6.81* | 1175.9 | [3.64] |
| meta-Cymen-8-ol                                                | 11.12  | 1795.2 | 0.07    | 6.88* | 1180.8 | [0.33] |
| Cryptone                                                       | 8.76*  | 1598.4 | [0.29]  | 6.88* | 1180.8 | [0.33] |
| para-Cymen-8-ol                                                | 11.14  | 1797.7 | 0.07    | 6.93  | 1183.6 | 0.08   |
| $\alpha$ -Terpineol                                            | 9.42*  | 1651.9 | [2.19]  | 7.01  | 1189.2 | 1.16   |
| Hodiendiol (2,6-dimethylocta-3,7-diene-2,6-diol)               | 12.44  | 1913.9 | 0.05    | 7.08† | 1193.4 | 0.02   |
| Hexyl butyrate                                                 | 5.98   | 1385.4 | 0.40    | 7.13  | 1197.1 | 0.44   |
| Verbenone                                                      | 9.21*  | 1634.8 | [3.53]  | 7.22  | 1202.6 | 0.03   |

|                                                                                                                                |        |        |         |       |        |         |
|--------------------------------------------------------------------------------------------------------------------------------|--------|--------|---------|-------|--------|---------|
| Unknown SASC VII<br>[m/z 43, 71 (66), 59<br>(52), 41 (47), 68<br>(46)...]<br>(3E,5E)-2,6-<br>Dimethylocta-3,5,7-<br>trien-2-ol | 7.13*  | 1471.2 | [0.05]  | 7.27  | 1205.9 | 0.04    |
| trans-Carveol                                                                                                                  | 11.00  | 1785.1 | 0.03    | 7.45  | 1218.4 | 0.04    |
| Bornyl formate                                                                                                                 | 7.63   | 1508.8 | 0.06    | 7.55  | 1224.7 | 0.03    |
| Nerol                                                                                                                          | 10.69  | 1759.0 | 0.21    | 7.64  | 1230.8 | 0.21    |
| Hexyl 2-<br>methylbutyrate                                                                                                     | 6.21*  | 1401.7 | [0.17]  | 7.70* | 1235.2 | [0.13]  |
| Cuminal                                                                                                                        | 10.19* | 1715.4 | [0.56]  | 7.70* | 1235.2 | [0.13]  |
| Carvone                                                                                                                        | 9.59   | 1666.1 | 0.04    | 7.78  | 1240.4 | 0.04    |
| Neral                                                                                                                          | 9.10   | 1626.0 | 0.03    | 7.80  | 1242.2 | 0.04    |
| Hexyl isovalerate                                                                                                              | 6.35   | 1412.6 | 0.01    | 7.82  | 1243.2 | 0.01    |
| Geraniol                                                                                                                       | 11.26  | 1807.9 | 0.47    | 8.14* | 1265.4 | [28.18] |
| Linalyl acetate                                                                                                                | 7.87*† | 1527.7 | [27.46] | 8.14* | 1265.4 | [28.18] |
| Geranial                                                                                                                       | 9.77   | 1680.9 | 0.05    | 8.25  | 1272.5 | 0.04    |
| 2,6-Dimethyl-1,7-<br>octadiene-3,6-diol                                                                                        | 14.27  | 2088.7 | 0.01    | 8.37  | 1281.0 | 0.02    |
| Bornyl acetate                                                                                                                 | 7.93*  | 1532.5 | [0.61]  | 8.45  | 1286.6 | 0.11    |
| Cuminol                                                                                                                        | 13.76  | 2039.2 | 0.07    | 8.51  | 1290.8 | 0.05    |
| Lavandulyl acetate                                                                                                             | 8.44   | 1573.3 | 3.10    | 8.62  | 1298.1 | 3.06    |
| Thymol                                                                                                                         | 14.75  | 2136.7 | 0.02    | 8.67  | 1301.3 | 0.02    |
| Hexyl tiglate                                                                                                                  | 8.55*  | 1581.3 | [0.16]  | 9.16  | 1332.2 | 0.05    |
| Hodiendiol<br>derivative                                                                                                       | 12.54  | 1923.7 | 0.04    | 9.27  | 1340.5 | 0.03    |
| Unknown SASC II<br>[m/z 43, 79 (47), 71<br>(31), 94 (27), 81 (23),<br>41 (22)... 197 (0)]                                      | 10.71  | 1760.6 | 0.03    | 9.44  | 1352.2 | 0.03    |
| Unknown SASC III<br>[m/z 43, 79 (46), 71<br>(30), 94 (25), 41 (23),<br>81 (21)... 197 (0)]                                     | 10.79  | 1767.3 | 0.03    | 9.49  | 1356.0 | 0.03    |
| Neryl acetate                                                                                                                  | 9.82*  | 1684.9 | [0.33]  | 9.64  | 1366.3 | 0.33    |
| α-Copaene                                                                                                                      | 6.82*  | 1448.2 | [0.24]  | 9.72  | 1372.4 | 0.03    |
| Daucene                                                                                                                        | 6.82*  | 1448.2 | [0.24]  | 9.81  | 1378.6 | 0.03    |
| β-Bourbonene                                                                                                                   | 7.13*  | 1471.2 | [0.05]  | 9.83  | 1380.1 | 0.06    |
| Geranyl acetate                                                                                                                | 10.19* | 1715.4 | [0.56]  | 9.91  | 1385.8 | 0.55    |
| 7-epi-<br>Sesquithujene                                                                                                        | 7.53   | 1501.2 | 0.10    | 9.96* | 1389.5 | [0.22]  |
| Hexyl hexanoate                                                                                                                | 8.55*  | 1581.3 | [0.16]  | 9.96* | 1389.5 | [0.22]  |
| Isocaryophyllene                                                                                                               | 7.79*† | 1521.6 | [33.49] | 10.11 | 1400.3 | 0.02    |

|                                                                                |        |        |         |        |        |        |
|--------------------------------------------------------------------------------|--------|--------|---------|--------|--------|--------|
| Sesquithujene                                                                  | 7.79*† | 1521.6 | [33.49] | 10.20  | 1406.4 | 0.04   |
| cis- $\alpha$ -Bergamotene                                                     | 7.87*† | 1527.7 | [27.46] | 10.30* | 1414.4 | [3.76] |
| $\beta$ -Caryophyllene                                                         | 8.09*  | 1545.6 | [3.86]  | 10.30* | 1414.4 | [3.76] |
| $\alpha$ -Santalene                                                            | 7.93*  | 1532.5 | [0.61]  | 10.35  | 1418.0 | 0.46   |
| Lavandulyl isobutyrate                                                         | 8.99   | 1616.7 | 0.09    | 10.38  | 1420.3 | 0.06   |
| Coumarin                                                                       | 16.74  | 2344.1 | 0.02    | 10.44  | 1424.2 | 0.01   |
| trans- $\alpha$ -Bergamotene                                                   | 8.09*  | 1545.6 | [3.86]  | 10.57  | 1434.6 | 0.16   |
| Sesquisabinene A                                                               | 8.76*  | 1598.4 | [0.29]  | 10.68  | 1442.2 | 0.04   |
| cis- $\beta$ -Bergamotene?                                                     |        |        |         | 10.69  | 1443.2 | 0.04   |
| $\alpha$ -Humulene                                                             | 8.89*  | 1608.5 | [0.11]  | 10.75  | 1447.6 | 0.12   |
| Lavandulyl butyrate?                                                           | 10.11  | 1708.7 | 0.13    | 10.86  | 1455.9 | 0.13   |
| (E)- $\beta$ -Farnesene                                                        | 9.21*  | 1634.8 | [3.53]  | 10.91* | 1460.1 | [3.47] |
| $\beta$ -Santalene                                                             | 8.76*  | 1598.4 | [0.29]  | 10.91* | 1460.1 | [3.47] |
| Germacrene D                                                                   | 9.42*  | 1651.9 | [2.19]  | 11.12  | 1475.9 | 0.41   |
| trans- $\beta$ -Bergamotene                                                    | 9.21*  | 1634.8 | [3.53]  | 11.21  | 1482.2 | 0.07   |
| Isodaucene                                                                     | 9.66   | 1671.8 | 0.02    | 11.33  | 1491.3 | 0.01   |
| Lavandulyl isovalerate                                                         | 10.27  | 1722.4 | 0.02    | 11.57* | 1509.3 | [0.20] |
| $\beta$ -Bisabolene                                                            | 9.82*  | 1684.9 | [0.33]  | 11.57* | 1509.3 | [0.20] |
| $\gamma$ -Cadinene                                                             | 9.99*  | 1698.6 | [0.17]  | 11.57* | 1509.3 | [0.20] |
| Unknown CULO LIV<br>[m/z 121, 93 (56),<br>91 (12), 94 (11), 122<br>(10)...220] | 12.89  | 1956.3 | 0.04    | 11.65  | 1516.0 | 0.05   |
| $\beta$ -Sesquiphellandrene                                                    | 10.23  | 1719.0 | 0.02    | 11.73* | 1522.2 | [0.03] |
| $\delta$ -Cadinene                                                             | 9.99*  | 1698.6 | [0.17]  | 11.73* | 1522.2 | [0.03] |
| Isocaryophyllene epoxide B                                                     | 11.72  | 1848.8 | 0.04    | 12.02  | 1544.8 | 0.05   |
| (E)-Nerolidol                                                                  | 13.40  | 2004.4 | 0.02    | 12.26  | 1563.8 | 0.02   |
| Caryophyllene oxide                                                            | 12.34  | 1904.5 | 0.42    | 12.39* | 1574.6 | [0.52] |
| Caryophyllene oxide isomer                                                     | 12.26  | 1897.9 | 0.06    | 12.39* | 1574.6 | [0.52] |
| Humulene epoxide II                                                            | 12.94  | 1960.8 | 0.04    | 12.72  | 1600.1 | 0.02   |
| $\tau$ -Cadinol                                                                | 14.47  | 2108.4 | 0.09    | 13.14  | 1635.1 | 0.08   |
| (3Z)-Caryophylla-3,8(13)-dien-5 $\beta$ -ol                                    | 16.37  | 2303.8 | 0.03    | 13.52  | 1666.2 | 0.01   |
| Unknown LAAN IX<br>[m/z 43, 93 (89), 91                                        | 14.53  | 2113.9 | 0.01    | 14.54  | 1753.6 | 0.01   |

|                                                       |        |        |      |        |        |      |
|-------------------------------------------------------|--------|--------|------|--------|--------|------|
| (54), 79 (52), 121 (51)....]                          |        |        |      |        |        |      |
| Phytone                                               | 14.29  | 2090.2 | 0.02 | 15.60  | 1846.9 | 0.01 |
| Unknown UNKN                                          |        |        |      |        |        |      |
| CDIV [m/z 99, 69 (61), 71 (34), 43 (30), 81 (27)....] | 21.46  | 2905.8 | 0.02 | 21.63  | 2468.0 | 0.03 |
| Total reported                                        | 98.14% |        |      | 98.76% |        |      |
|                                                       |        |        |      |        |        |      |

\*: 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