

Date : 2023-09-05

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

**Internal code :** 23H18-SDC02

**Customer Identification :** TST 814

**Type :** Essential Oil

**Source :** *Oplopanax horridus*

**Customer :** Southeast Devilsclub

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*Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 first version issued on 2023-09-01 to correct a faulty identification.



## GAS CHROMATOGRAPHIC ANALYSIS

**Method :** PC-MAT-014 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID



**Results :** See analysis summary (next page)

**Analyst :** Sylvain Mercier, M. Sc., Chimiste 2014-005

**Date :** 2023-09-05

## PHYSICOCHEMICAL DATA

**Refractive index :**  $1.489 \pm 0.0003$  (20 °C)

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

**Analyst :** Dany Massé B. Sc. Chimiste

**Date :** 2023-08-18

## 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                |
|-----------------------------------|------|----------------------|
| Hexanal                           | 0.01 | Aliphatic aldehyde   |
| Hexanol                           | 0.01 | Aliphatic alcohol    |
| Heptanal                          | 0.02 | Aliphatic aldehyde   |
| (E)-1,3-Nonadiene                 | 0.01 | Alkene               |
| α-Pinene                          | 0.25 | Monoterpene          |
| Allylbenzene                      | 0.01 | Phenylpropanoid      |
| β-Pinene                          | 0.01 | Monoterpene          |
| Sabinene                          | 0.01 | Monoterpene          |
| 6-Methyl-5-hepten-2-one           | 0.01 | Aliphatic ketone     |
| 2-Pentylfuran                     | 0.01 | Furan                |
| Myrcene                           | 0.03 | Monoterpene          |
| 6-Methyl-5-hepten-2-ol            | 0.01 | Aliphatic alcohol    |
| Octanal                           | 0.13 | Aliphatic aldehyde   |
| α-Phellandrene                    | 0.01 | Monoterpene          |
| Δ3-Carene                         | 0.01 | Monoterpene          |
| para-Cymene                       | 0.01 | Monoterpene          |
| Limonene                          | 0.05 | Monoterpene          |
| β-Phellandrene                    | 0.12 | Monoterpene          |
| 2-Heptyl acetate                  | 0.02 | Aliphatic ester      |
| Octanol                           | 0.04 | Aliphatic alcohol    |
| 2-Nonanone                        | 0.01 | Aliphatic ketone     |
| Linalool                          | 0.04 | Monoterpenic alcohol |
| Nonanal                           | 0.04 | Aliphatic aldehyde   |
| (E)-4,8-Dimethyl-1,3,7-nonatriene | 0.14 | Monoterpene          |
| (2E)-Nonenal                      | 0.02 | Aliphatic aldehyde   |
| (3E,5Z)-Undeca-1,3,5-triene       | 0.42 | Alkene               |
| (3E,5E)-Undeca-1,3,5-triene       | 0.01 | Alkene               |
| 3-Isobutyl-2-methoxypyrazine      | 0.03 | Pyrazine             |
| α-Terpineol                       | 0.01 | Monoterpenic alcohol |
| (2E)-Octenyl acetate?             | 0.01 | Aliphatic ester      |
| Octyl acetate                     | 0.02 | Aliphatic ester      |
| Unknown                           | 0.13 | Unknown              |
| (2Z)-Decenal                      | 0.02 | Aliphatic aldehyde   |
| Decenol isomer                    | 0.01 | Aliphatic alcohol    |
| (4Z)-Decenol                      | 0.08 | Aliphatic alcohol    |
| (2E)-Decenol                      | 0.06 | Aliphatic aldehyde   |
| (2E)-Decenol                      | 0.02 | Aliphatic alcohol    |
| Decanol                           | 0.02 | Aliphatic alcohol    |
| (2Z?,4E?)-Decadienol              | 0.05 | Aliphatic aldehyde   |
| 4-Vinylguaiacol                   | 0.01 | Simple phenolic      |

|                              |      |                        |
|------------------------------|------|------------------------|
| (2E,4E)-Decadienal           | 0.08 | Aliphatic aldehyde     |
| Bicycloelemene analog        | 0.01 | Sesquiterpene          |
| Bicycloelemene               | 0.11 | Sesquiterpene          |
| $\alpha$ -Cubebene           | 0.03 | Sesquiterpene          |
| Cyclosativene II             | 0.04 | Sesquiterpene          |
| $\alpha$ -Ylangene           | 0.24 | Sesquiterpene          |
| $\alpha$ -Copaene            | 0.22 | Sesquiterpene          |
| cis- $\beta$ -Elemene        | 0.01 | Sesquiterpene          |
| $\beta$ -Cubebene            | 0.01 | Sesquiterpene          |
| Geranyl acetate              | 0.03 | Monoterpenic ester     |
| $\beta$ -Elemene             | 0.16 | Sesquiterpene          |
| Dodecenyl acetate isomer?    | 0.01 | Aliphatic ester        |
| $\alpha$ -Gurjunene          | 0.05 | Sesquiterpene          |
| $\beta$ -Caryophyllene       | 0.11 | Sesquiterpene          |
| $\alpha$ -Santalene          | 0.02 | Sesquiterpene          |
| $\beta$ -Copaene             | 0.02 | Sesquiterpene          |
| $\beta$ -Gurjunene           | 0.04 | Sesquiterpene          |
| $\gamma$ -Elemene            | 0.11 | Sesquiterpene          |
| Aromadendrene                | 0.21 | Sesquiterpene          |
| Cadina-3,5-diene isomer I?   | 0.05 | Sesquiterpene          |
| Unknown                      | 0.04 | Sesquiterpene          |
| Cadina-3,5-diene?            | 0.15 | Sesquiterpene          |
| $\alpha$ -Humulene           | 0.20 | Sesquiterpene          |
| allo-Aromadendrene           | 0.23 | Sesquiterpene          |
| cis-Muurola-4(15),5-diene    | 0.09 | Sesquiterpene          |
| (E)- $\beta$ -Farnesene      | 0.19 | Sesquiterpene          |
| trans-Cadina-1(6),4-diene    | 0.07 | Sesquiterpene          |
| $\gamma$ -Muurolene          | 0.24 | Sesquiterpene          |
| Germacrene D                 | 0.56 | Sesquiterpene          |
| $\beta$ -Selinene            | 0.09 | Sesquiterpene          |
| ar-Curcumene                 | 0.34 | Sesquiterpene          |
| Unknown                      | 0.13 | Sesquiterpene          |
| Viridiflorene                | tr   | Sesquiterpene          |
| Bicyclosesquiphellandrene?   | 0.06 | Sesquiterpene          |
| Bicyclogermacrene            | 5.54 | Sesquiterpene          |
| $\alpha$ -Muurolene          | 0.27 | Sesquiterpene          |
| $\alpha$ -Zingiberene        | 0.16 | Sesquiterpene          |
| Germacrene A                 | 0.32 | Sesquiterpene          |
| $\gamma$ -Cadinene           | 3.99 | Sesquiterpene          |
| Cubebol                      | 0.17 | Sesquiterpenic alcohol |
| (3E,6E)- $\alpha$ -Farnesene | 0.47 | Sesquiterpene          |
| 1,4,5-triepi-Kessane?        | 0.06 | Sesquiterpenic ether   |
| $\beta$ -Sesquiphellandrene  | 0.35 | Sesquiterpene          |
| trans-Calamenene             | 0.01 | Sesquiterpene          |
| 10-epi-Cubebol?              | 0.07 | Sesquiterpenic alcohol |

|                            |              |                          |
|----------------------------|--------------|--------------------------|
| α-Cadinene                 | 0.21         | Sesquiterpene            |
| α-Calacorene               | 0.08         | Sesquiterpene            |
| Germacrene B               | 1.06         | Sesquiterpene            |
| Epiglobulol                | 0.02         | Sesquiterpenic alcohol   |
| Unknown                    | 0.15         | Oxygenated sesquiterpene |
| Palustrol                  | 0.02         | Sesquiterpenic alcohol   |
| Spathulenol                | 2.08         | Sesquiterpenic alcohol   |
| Caryophyllene oxide isomer | 0.03         | Sesquiterpenic ether     |
| Caryophyllene oxide        | 0.03         | Sesquiterpenic ether     |
| Globulol                   | 0.13         | Sesquiterpenic alcohol   |
| (E)-Nerolidol              | 56.05        | Sesquiterpenic alcohol   |
| Gleenol                    | 0.24         | Sesquiterpenic alcohol   |
| Viridiflorol               | 0.14         | Sesquiterpenic alcohol   |
| Unknown                    | 0.31         | Oxygenated sesquiterpene |
| Guaiol                     | 0.22         | Sesquiterpenic alcohol   |
| Eudesm-5-en-11-ol analog   | 0.28         | Sesquiterpenic alcohol   |
| Eudesm-5-en-11-ol          | 0.13         | Sesquiterpenic alcohol   |
| Unknown                    | 0.08         | Oxygenated sesquiterpene |
| 10-epi-Cubenol             | 1.60         | Sesquiterpenic alcohol   |
| Rosifolol                  | 0.06         | Sesquiterpenic alcohol   |
| Alismol?                   | 0.02         | Oxygenated sesquiterpene |
| 1-epi-Cubenol              | 0.12         | Sesquiterpenic alcohol   |
| Cubenol                    | 0.55         | Sesquiterpenic alcohol   |
| τ-Cadinol                  | 11.64        | Sesquiterpenic alcohol   |
| τ-Muurolol                 | 0.30         | Sesquiterpenic alcohol   |
| α-Muurolol                 | 0.10         | Sesquiterpenic alcohol   |
| Unknown                    | 0.07         | Oxygenated sesquiterpene |
| Unknown                    | 0.02         | Oxygenated sesquiterpene |
| α-Cadinol                  | 0.53         | Sesquiterpenic alcohol   |
| Unknown                    | 0.13         | Oxygenated sesquiterpene |
| Bulnesol                   | 0.38         | Sesquiterpenic alcohol   |
| Shyobunol                  | 0.11         | Sesquiterpenic alcohol   |
| Unknown                    | 0.02         | Oxygenated sesquiterpene |
| Nootkatol                  | 0.01         | Sesquiterpenic alcohol   |
| Aromadendrane-4,10-diol    | 0.06         | Sesquiterpenic alcohol   |
| Unknown                    | 0.04         | Oxygenated sesquiterpene |
| Unknown                    | 0.01         | Oxygenated sesquiterpene |
| Unknown                    | 0.01         | Oxygenated sesquiterpene |
| para-Camphorene            | 0.03         | Diterpene                |
| (Z)-Falcarinol             | 0.11         | Polyyne                  |
| Octadecanol                | 0.02         | Aliphatic alcohol        |
| Unknown                    | 0.10         | Oxygenated sesquiterpene |
| <b>Consolidated total</b>  | <b>94.55</b> |                          |

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

Note: no correction factor was applied

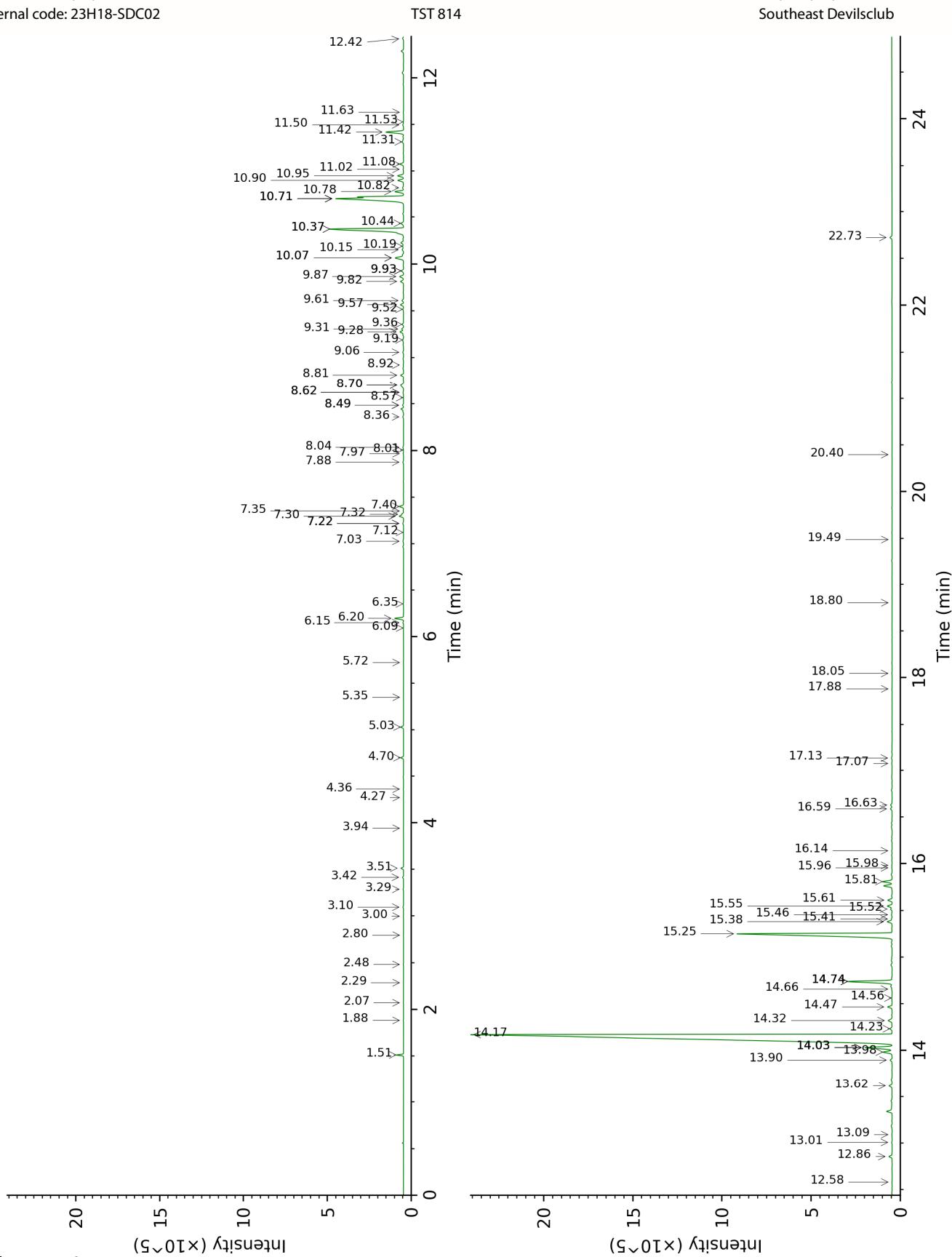
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

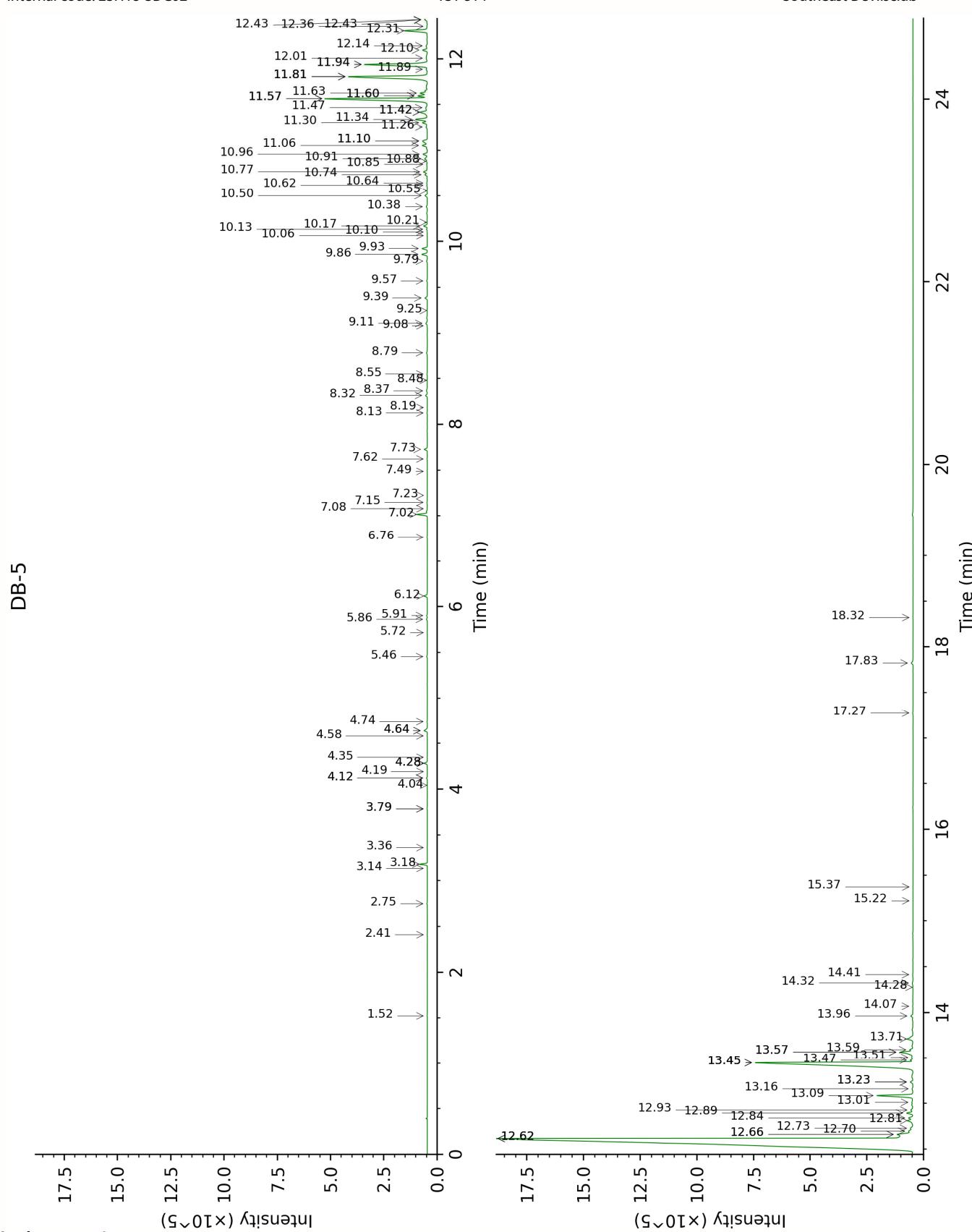
This page was intentionally left blank. The following pages present the complete data of the analysis.

DB-WAX



Laboratoire  
**PhytoChemia**

Plus que des analyses... des conseils



FULL ANALYSIS DATA

| <b>Hexanal</b>   | <b>Column DB-WAX</b> |        |        | <b>Column DB-5</b> |        |        |
|--|----------------------|--------|--------|--------------------|--------|--------|
|  | 2.07                 | 1045.0 | 0.01   | 1.52               | 800.6  | 0.01   |
| Hexanol  | 5.72                 | 1324.3 | 0.01   | 2.41               | 875.0  | 0.01   |
| Heptanal   | 3.29                 | 1147.5 | 0.02   | 2.75               | 902.7  | 0.02   |
| (E)-1,3-Nonadiene  | 1.88                 | 1027.2 | 0.01   | 3.14               | 928.5  | 0.01   |
| α-Pinene   | 1.51                 | 991.2  | 0.25   | 3.18               | 931.5  | 0.25   |
| Allylbenzene   | 4.27                 | 1221.6 | 0.01   | 3.36               | 943.4  | 0.01   |
| β-Pinene   | 2.29                 | 1065.3 | 0.01   | 3.79*              | 971.2  | [0.02] |
| Sabinene   | 2.48                 | 1083.9 | 0.01   | 3.79*              | 971.2  | [0.02] |
| 6-Methyl-5-hepten-2-one  | 5.35                 | 1297.8 | 0.01   | 4.04               | 988.1  | 0.01   |
| 2-Pentylfuran  | 3.94                 | 1197.8 | 0.01   | 4.12*              | 993.2  | [0.04] |
| Myrcene  | 3.10                 | 1132.8 | 0.03   | 4.12*              | 993.2  | [0.04] |
| 6-Methyl-5-hepten-2-ol   | 7.22*                | 1432.5 | [0.05] | 4.19               | 997.8  | 0.01   |
| Octanal  | 4.70                 | 1252.8 | 0.13   | 4.28*              | 1003.8 | [0.14] |
| α-Phellandrene   | 3.00                 | 1125.4 | 0.01   | 4.28*              | 1003.8 | [0.14] |
| Δ3-Carene  | 2.80                 | 1109.8 | 0.01   | 4.35               | 1007.9 | 0.01   |
| para-Cymene  | 4.36                 | 1228.3 | 0.01   | 4.58               | 1022.5 | 0.01   |
| Limonene   | 3.42                 | 1157.4 | 0.05   | 4.64*              | 1026.1 | [0.16] |
| β-Phellandrene   | 3.51                 | 1164.9 | 0.12   | 4.64*              | 1026.1 | [0.16] |
| 2-Heptyl acetate   |                      |        |        | 4.74               | 1032.3 | 0.02   |
| Octanol  | 8.49*                | 1527.2 | [0.05] | 5.46               | 1077.0 | 0.04   |
| 2-Nonanone   | 6.09                 | 1350.7 | 0.01   | 5.72               | 1093.3 | 0.01   |
| Linalool   | 8.36                 | 1517.6 | 0.04   | 5.86               | 1102.4 | 0.04   |
| Nonanal  | 6.15                 | 1354.8 | 0.03   | 5.90               | 1104.9 | 0.04   |
| (E)-4,8-Dimethyl-1,3,7-nonatriene  | 5.03                 | 1277.5 | 0.13   | 6.12               | 1118.6 | 0.14   |
| (2E)-Nonenal   | 7.97                 | 1487.6 | 0.02   | 6.76               | 1159.6 | 0.02   |
| (3E,5Z)-Undeca-1,3,5-triene  | 6.20                 | 1358.1 | 0.43   | 7.02               | 1175.7 | 0.42   |
| (3E,5E)-Undeca-1,3,5-triene  | 6.35                 | 1369.2 | 0.02   | 7.08               | 1179.7 | 0.01   |
| 3-Isobutyl-2-methoxypyrazine   | 8.04                 | 1492.6 | 0.04   | 7.15               | 1184.1 | 0.03   |
| α-Terpineol  | 10.07*               | 1651.2 | [0.59] | 7.23               | 1189.0 | 0.01   |
| (2E)-Octenyl acetate?  |                      |        |        | 7.49               | 1205.7 | 0.01   |
| Octyl acetate  | 7.35                 | 1442.3 | 0.02   | 7.62               | 1214.7 | 0.02   |
| Unknown SORU I [m/z 79, 71 (69), 59 (66), 43 (59), 81 (53), 41 (52), 93 (50)...] |                      |        |        | 7.73               | 1221.7 | 0.13   |
| (2Z)-Decenal   | 8.92                 | 1560.8 | 0.03   | 8.13               | 1248.3 | 0.02   |
| Decenol isomer   |                      |        |        | 8.18               | 1252.2 | 0.01   |
| (4Z)-Decenol   | 11.32                | 1754.2 | 0.12   | 8.32               | 1261.0 | 0.08   |
| (2E)-Decenal   | 9.36                 | 1594.3 | 0.08   | 8.37               | 1264.4 | 0.06   |
| (2E)-Decenol   | 11.63                | 1780.8 | 0.02   | 8.48               | 1272.0 | 0.02   |
| Decanol  | 11.02                | 1729.6 | 0.02   | 8.55               | 1276.7 | 0.02   |
| (2Z?,4E?)-Decadienal   |                      |        |        | 8.79               | 1292.6 | 0.05   |

Laboratoire  
**PhytoChemia**

Plus que des analyses... des conseils

|   |         |        |        |        |        |        |
|---|---------|--------|--------|--------|--------|--------|
| 4-Vinylguaiacol   | 15.41   | 2127.6 | 0.04   | 9.08   | 1312.6 | 0.01   |
| (2E,4E)-Decadienal  | 11.50   | 1769.5 | 0.05   | 9.11   | 1314.5 | 0.08   |
| Bicycloelemene analog   | 7.12    | 1425.4 | 0.02   | 9.25   | 1324.3 | 0.01   |
| Bicycloelemene  | 7.32    | 1439.7 | 0.07   | 9.39   | 1333.9 | 0.11   |
| $\alpha$ -Cubebene  | 7.03    | 1418.4 | 0.05   | 9.57   | 1347.0 | 0.03   |
| Cyclosativene II  | 7.22*   | 1432.5 | [0.05] | 9.79   | 1362.1 | 0.04   |
| $\alpha$ -Ylangene  | 7.30    | 1438.2 | 0.26   | 9.86   | 1367.3 | 0.24   |
| $\alpha$ -Copaene   | 7.40    | 1445.9 | 0.22   | 9.92   | 1371.8 | 0.22   |
| cis- $\beta$ -Elemene   | 8.57    | 1533.5 | 0.01   | 10.06  | 1381.6 | 0.01   |
| $\beta$ -Cubebene   | 8.01    | 1490.4 | 0.01   | 10.10  | 1384.4 | 0.01   |
| Geranyl acetate   | 10.82   | 1713.0 | 0.06   | 10.13  | 1386.5 | 0.03   |
| $\beta$ -Elemene  | 8.70*   | 1543.9 | [0.24] | 10.17  | 1389.0 | 0.16   |
| Dodecenyl acetate isomer?   |         |        |        | 10.21  | 1391.8 | 0.01   |
| $\alpha$ -Gurjunene   | 7.88    | 1480.8 | 0.04   | 10.38  | 1403.8 | 0.05   |
| $\beta$ -Caryophyllene  | 8.70*   | 1543.9 | [0.24] | 10.50  | 1412.8 | 0.11   |
| $\alpha$ -Santalene   | 8.49*   | 1527.2 | [0.05] | 10.55  | 1416.7 | 0.02   |
| $\beta$ -Copaene  | 8.62*   | 1537.9 | [0.04] | 10.62  | 1421.5 | 0.02   |
| $\beta$ -Gurjunene  | 8.62*   | 1537.9 | [0.04] | 10.64  | 1423.4 | 0.04   |
| $\gamma$ -Elemene   | 9.31    | 1590.3 | 0.10   | 10.74  | 1430.2 | 0.11   |
| Aromadendrene   | 8.82    | 1552.5 | 0.16   | 10.77  | 1432.6 | 0.21   |
| Cadina-3,5-diene isomer I?  |         |        |        | 10.85  | 1438.6 | 0.05   |
| Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]           | 9.06    | 1571.3 | 0.05   | 10.88  | 1441.1 | 0.04   |
| Cadina-3,5-diene?   | 9.19    | 1581.4 | 0.07   | 10.91  | 1443.1 | 0.15   |
| $\alpha$ -Humulene  | 9.57    | 1611.1 | 0.18   | 10.96  | 1446.8 | 0.20   |
| allo-Aromadendrene  | 9.28    | 1588.0 | 0.22   | 11.06  | 1454.0 | 0.23   |
| cis-Muurola-4(15),5-diene   | 9.61    | 1614.7 | 0.09   | 11.10* | 1457.6 | [0.32] |
| (E)- $\beta$ -Farnesene   | 9.82    | 1631.1 | 0.19   | 11.10* | 1457.6 | [0.32] |
| trans-Cadina-1(6),4-diene   | 9.52    | 1607.2 | 0.05   | 11.26  | 1468.9 | 0.07   |
| $\gamma$ -Muurolene   | 9.87    | 1635.2 | 0.24   | 11.30  | 1472.4 | 0.24   |
| Germacrene D  | 10.07*  | 1651.2 | [0.59] | 11.34  | 1475.1 | 0.56   |
| $\beta$ -Selinene   | 10.15   | 1658.3 | 0.09   | 11.42* | 1480.9 | [0.45] |
| ar-Curcumene  | 10.95   | 1723.8 | 0.34   | 11.42* | 1480.9 | [0.45] |
| Unknown POCA VI [m/z 79, 107 (99), 91 (88), 93 (86), 81 (78), 105 (73), 41 (73)... 204? (12)] | 9.93*   | 1640.1 | [0.14] | 11.47  | 1484.6 | 0.13   |
| Viridiflorene   | 9.93*   | 1640.1 | [0.14] | 11.57* | 1491.9 | [5.55] |
| Bicyclosesquiphellandrene?  | 10.19   | 1661.3 | 0.06   | 11.57* | 1491.9 | [5.55] |
| Bicyclogermacrene   | 10.37*  | 1675.9 | [5.80] | 11.57* | 1491.9 | [5.55] |
| $\alpha$ -Muurolene   | 10.37*  | 1675.9 | [5.80] | 11.60* | 1494.2 | [0.42] |
| $\alpha$ -Zingiberene   | 10.44   | 1680.8 | 0.16   | 11.60* | 1494.2 | [0.42] |
| Germacrene A  | 10.71*† | 1703.2 | [4.99] | 11.63  | 1496.4 | 0.32   |
| $\gamma$ -Cadinene  | 10.71*† | 1703.2 | [4.99] | 11.81* | 1510.1 | [4.63] |

|  |         |        |        |         |        |         |
|--|---------|--------|--------|---------|--------|---------|
| Cubebol  | 12.86   | 1887.6 | 0.17   | 11.81*  | 1510.1 | [4.63]  |
| (3E,6E)- $\alpha$ -Farnesene   | 10.78   | 1709.6 | 0.47   | 11.81*  | 1510.1 | [4.63]  |
| 1,4,5-triepi-Kessane?  | 10.71*† | 1703.2 | [4.99] | 11.89   | 1516.4 | 0.06    |
| $\beta$ -Sesquiphellandrene  | 10.90   | 1719.6 | 0.35   | 11.94*  | 1520.6 | [3.29]  |
| trans-Calamenene   | 11.53   | 1772.1 | 0.01   | 11.94*  | 1520.6 | [3.29]  |
| 10-epi-Cubebol?  | 14.03*  | 1995.3 | [1.54] | 12.01   | 1525.9 | 0.07    |
| $\alpha$ -Cadinene   | 11.08   | 1734.3 | 0.20   | 12.10   | 1532.8 | 0.21    |
| $\alpha$ -Calacorene   | 12.42   | 1849.6 | 0.05   | 12.14   | 1536.5 | 0.08    |
| Germacrene B   | 11.42   | 1763.0 | 1.02   | 12.31   | 1549.4 | 1.06    |
| Epiglobulol  | 13.62   | 1957.1 | 0.18   | 12.36   | 1553.1 | 0.02    |
| Unknown ENKR VI [m/z 109, 69 (60), 43 (46), 93 (29), 41 (26), 55 (23), 111 (20)...]        |         |        |        | 12.43*  | 1559.1 | [0.17]  |
| Palustrol  | 12.58   | 1863.6 | 0.02   | 12.43*  | 1559.1 | [0.17]  |
| Spathulenol  | 14.74*  | 2062.5 | [2.52] | 12.62*† | 1573.4 | [58.29] |
| Caryophyllene oxide isomer   | 13.01   | 1901.5 | 0.03   | 12.62*† | 1573.4 | [58.29] |
| Caryophyllene oxide  | 13.09   | 1909.1 | 0.03   | 12.62*† | 1573.4 | [58.29] |
| Globulol   | 14.23   | 2014.4 | 0.13   | 12.66*† | 1576.9 | [0.99]  |
| (E)-Nerolidol  | 14.17   | 2008.4 | 56.05  | 12.66*† | 1576.9 | [0.99]  |
| Gleenol  | 13.90   | 1982.7 | 0.13   | 12.70   | 1579.7 | 0.24    |
| Viridiflorol   | 14.32   | 2022.7 | 0.28   | 12.73   | 1582.2 | 0.14    |
| Unknown LEOF XV [m/z 120, 59 (55), 121 (24), 93 (24), 81 (23), 107 (20)...]                | 14.74*  | 2062.5 | [2.52] | 12.81   | 1588.8 | 0.31    |
| Guaiol   | 14.47   | 2036.6 | 0.26   | 12.84   | 1591.0 | 0.22    |
| Eudesm-5-en-11-ol analog   | 14.56   | 2045.6 | 0.04   | 12.90   | 1595.3 | 0.28    |
| Eudesm-5-en-11-ol  | 14.74*  | 2062.5 | [2.52] | 12.93   | 1597.8 | 0.13    |
| Unknown UNKN CCCXII [m/z 162, 105 (46), 43 (44), 119 (42), 107 (39), 149 (38)... 220 (13)] |         |        |        | 13.01   | 1604.5 | 0.08    |
| 10-epi-Cubenol   | 14.03*  | 1995.3 | [1.54] | 13.09   | 1610.6 | 1.60    |
| Rosifoliol   | 14.66   | 2054.6 | 0.03   | 13.16   | 1616.7 | 0.06    |
| Alismol?   | 15.98   | 2184.4 | 0.02   | 13.23*  | 1622.8 | [0.15]  |
| 1-epi-Cubenol  | 14.03*  | 1995.3 | [1.54] | 13.23*  | 1622.8 | [0.15]  |
| Cubenol  | 13.98   | 1990.7 | 0.55   | 13.45*  | 1640.3 | [12.54] |
| $\tau$ -Cadinol  | 15.25   | 2111.9 | 11.64  | 13.45*  | 1640.3 | [12.54] |
| $\tau$ -Muurolol   | 15.38   | 2124.8 | 0.30   | 13.45*  | 1640.3 | [12.54] |
| $\alpha$ -Muurolol   | 15.52   | 2138.1 | 0.08   | 13.48   | 1642.7 | 0.10    |
| Unknown CAIN XXXVII [m/z 204, 161 (97), 59 (87), 189 (78), 105 (45)...]                    | 15.55   | 2141.3 | 0.28   | 13.51   | 1645.4 | 0.07    |
| Unknown CASA XVI [m/z 202, 187 (89), 121 (45), 105   | 15.96   | 2181.7 | 0.02   | 13.57*  | 1650.2 | [0.72]  |

|  |       |        |      |        |        |        |
|--|-------|--------|------|--------|--------|--------|
| (42), 93 (40), 95 (38)...  |       |        |      |        |        |        |
| α-Cadinol  | 15.81 | 2167.1 | 0.53 | 13.57* | 1650.2 | [0.72] |
| Unknown UNKN XIII [m/z 59, 81 (40), 149 (34), 161 (34), 107 (29)... 204 (19)]                        | 15.46 | 2132.2 | 0.05 | 13.59  | 1652.4 | 0.13   |
| Bulnesol   | 15.61 | 2147.6 | 0.24 | 13.71  | 1662.2 | 0.38   |
| Shyobunol  | 16.63 | 2250.4 | 0.10 | 13.96  | 1682.9 | 0.11   |
| Unknown ZIOF XXVI [m/z 69, 41 (59), 118 (33), 43 (32), 55 (31)... 234? (t)]                          | 17.08 | 2296.7 | 0.03 | 14.07  | 1691.6 | 0.02   |
| Nootkatol  | 17.88 | 2382.5 | 0.01 | 14.28  | 1709.0 | 0.01   |
| Aromadendrane-4,10-diol  | 17.13 | 2302.9 | 0.04 | 14.32  | 1713.1 | 0.06   |
| Unknown PIMA XVII [m/z 159, 220 (92), 93 (88), 177 (63), 91 (57), 107 (55)]                          | 18.05 | 2400.7 | 0.02 | 14.42  | 1721.0 | 0.04   |
| Unknown ZIOF XXXII [m/z 69, 41 (96), 43 (90), 109 (51), 55 (42), 81 (33) ...]                        | 18.80 | 2484.2 | 0.01 | 15.22  | 1790.8 | 0.01   |
| Unknown AMBA XVIII [m/z 69, 43 (95), 41 (84), 109 (78), 95 (54), 93 (49)... 177 (36), 220 (2) ...]   | 20.40 | 2668.3 | 0.01 | 15.37  | 1804.0 | 0.01   |
| para-Camphorene  | 16.14 | 2200.4 | 0.03 | 17.27  | 1980.1 | 0.03   |
| (Z)-Falcarinol   | 22.72 | 2958.2 | 0.12 | 17.83  | 2033.9 | 0.11   |
| Octadecanol  | 19.49 | 2561.9 | 0.01 | 18.32  | 2083.1 | 0.02   |
| Unknown PEHY XXXVIII [m/z 159, 93 (89), 205 (88), 91 (81), 107 (75), 105 (74), 119 (70)... 220 (16)] | 16.59 | 2246.4 | 0.10 |        |        |        |
| Total reported   |       | 95.95% |      |        | 98.55% |        |
|  |       |        |      |        |        |        |

\*: 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