

Date : 2026-03-02

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 25J28-BWN01

Customer Identification : Frankincense Carterii ORGANIC - Somaliland - F00115R

Type : Essential Oil

Source : *Boswellia carteri*

Customer : Plant Therapy

Checked and approved by:

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

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

This report is an update of the version first issued on 2025-11-11 to update 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 : 2025-11-07

PHYSICOCHEMICAL DATA

Refractive index : 1.4731 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2025-10-29

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-Methyl-2-butanone | 0.01 | Aliphatic ketone |
| Toluene | 0.08 | Simple phenolic |
| Unknown | 0.02 | Alkene |
| Unknown | 0.02 | Unknown |
| Hashishene | 0.15 | Monoterpene |
| Tricyclene | 0.07 | Monoterpene |
| α -Thujene | 2.14 | Monoterpene |
| α -Pinene | 41.48 | Monoterpene |
| Unknown | 0.07 | Monoterpene |
| α -Fenchene | 0.02 | Monoterpene |
| Camphene | 0.92 | Monoterpene |
| Thuja-2,4(10)-diene | 0.39 | Monoterpene |
| 3,7,7-Trimethylcyclohepta-1,3,5-triene | 0.05 | Monoterpene |
| β -Pinene | 1.37 | Monoterpene |
| Sabinene | 3.72 | Monoterpene |
| Pseudolimonene isomer | 0.01 | Monoterpene |
| 6-Methyl-5-hepten-2-one | 0.01 | Aliphatic ketone |
| Dehydro-1,8-cineole | 0.05 | Monoterpenic ether |
| Myrcene | 7.38 | Monoterpene |
| 6-Methyl-5-hepten-2-ol | 0.01 | Aliphatic alcohol |
| Octanal | 0.04 | Aliphatic aldehyde |
| Pseudolimonene | 0.04 | Monoterpene |
| α -Phellandrene | 1.94 | Monoterpene |
| <i>ortho</i> -Methylanisole | 0.09 | Simple phenolic |
| Δ^3 -Carene | 0.60 | Monoterpene |
| α -Terpinene | 0.14 | Monoterpene |
| <i>meta</i> -Cymene | 0.03 | Monoterpene |
| <i>para</i> -Cymene | 3.30 | Monoterpene |
| Limonene | 17.86 | Monoterpene |
| 1,8-Cineole | 0.15 | Monoterpenic ether |
| β -Phellandrene | 0.65 | Monoterpene |
| <i>ortho</i> -Cymene | 0.03 | Monoterpene |
| (<i>Z</i>)- β -Ocimene | 0.11 | Monoterpene |
| Unknown | 0.03 | Unknown |
| (<i>E</i>)- β -Ocimene | 0.06 | Monoterpene |
| γ -Terpinene | 0.24 | Monoterpene |
| <i>cis</i> -Sabinene hydrate | 0.03 | Monoterpenic alcohol |
| Unknown | 0.01 | Oxygenated monoterpene |
| Unknown | 0.04 | Oxygenated monoterpene |
| Octanol | 0.02 | Aliphatic alcohol |

| | | |
|---|--------|------------------------|
| <i>para</i> -Cymenene | 0.06 | Monoterpene |
| Terpinolene | 0.09 | Monoterpene |
| 6,7-Epoxymyrcene | 0.05 | Monoterpenic ether |
| <i>trans</i> -Sabinene hydrate | 0.02 | Monoterpenic alcohol |
| α -Thujone | [0.11] | Monoterpenic ketone |
| Perillene | [0.11] | Monoterpenic ether |
| Linalool | 0.11 | Monoterpenic alcohol |
| Unknown | 0.05 | Monoterpenic alcohol |
| Verbenol analog? | 0.07 | Monoterpenic alcohol |
| β -Thujone | 0.08 | Monoterpenic ketone |
| <i>cis-para</i> -Menth-2-en-1-ol | 0.02 | Monoterpenic alcohol |
| <i>trans-para</i> -Mentha-2,8-dien-1-ol | 0.07 | Monoterpenic alcohol |
| α -Campholenal | 0.17 | Monoterpenic aldehyde |
| Myrcenol | 0.02 | Monoterpenic alcohol |
| <i>cis</i> -Limonene oxide | 0.02 | Monoterpenic ether |
| <i>trans</i> -Pinocarveol | 0.40 | Monoterpenic alcohol |
| <i>trans</i> -Limonene oxide | 0.03 | Monoterpenic ether |
| <i>cis</i> -Verbenol | 0.18 | Monoterpenic alcohol |
| <i>trans</i> -Sabinol | 0.09 | Monoterpenic alcohol |
| <i>trans</i> -Verbenol | 0.72 | Monoterpenic alcohol |
| <i>meta</i> -Mentha-4,6-dien-8-ol | 0.11 | Monoterpenic alcohol |
| Unknown | 0.02 | Oxygenated monoterpene |
| Sabinaketone | 0.01 | Normonoterpenic ketone |
| Pinocamphone | 0.04 | Monoterpenic ketone |
| Pinocarvone | 0.07 | Monoterpenic ketone |
| Borneol | 0.02 | Monoterpenic alcohol |
| Unknown | 0.04 | Oxygenated monoterpene |
| α -Phellandren-8-ol | 0.25 | Monoterpenic alcohol |
| <i>cis</i> -Sabinol | 0.06 | Monoterpenic alcohol |
| Umbellulone | 0.02 | Monoterpenic ketone |
| Terpinen-4-ol | 0.38 | Monoterpenic alcohol |
| Thuj-3-en-10-al | 0.02 | Monoterpenic aldehyde |
| Cryptone | 0.05 | Normonoterpenic ketone |
| <i>para</i> -Cymen-8-ol | 0.11 | Monoterpenic alcohol |
| α -Terpineol | 0.23 | Monoterpenic alcohol |
| Myrtenal | 0.15 | Monoterpenic aldehyde |
| Myrtenol | 0.17 | Monoterpenic alcohol |
| <i>cis</i> - α -Phellandrene epoxide (iPr vs Me) | 0.13 | Monoterpenic ether |
| Verbenone | 0.34 | Monoterpenic ketone |
| <i>trans</i> -Piperitol | 0.03 | Monoterpenic alcohol |
| Octyl acetate | 0.01 | Aliphatic ester |
| <i>trans</i> -Carveol | 0.19 | Monoterpenic alcohol |
| <i>cis</i> -Carveol | 0.06 | Monoterpenic alcohol |
| Cuminal | 0.05 | Monoterpenic aldehyde |
| Carvone | 0.18 | Monoterpenic ketone |

| | | |
|--------------------------------------|------|------------------------|
| Carvotanacetone | 0.01 | Monoterpenic ketone |
| Piperitone | 0.06 | Monoterpenic ketone |
| 3,5-Dimethoxytoluene | 0.05 | Simple phenolic |
| Unknown | 0.05 | Oxygenated monoterpene |
| Decanol | 0.01 | Aliphatic alcohol |
| Bornyl acetate | 0.26 | Monoterpenic ester |
| Thymol | 0.02 | Monoterpenic alcohol |
| Carvacrol | 0.02 | Monoterpenic alcohol |
| Bicycloelemene | 0.02 | Sesquiterpene |
| α -Cubebene | 0.16 | Sesquiterpene |
| α -Terpinyl acetate | 0.03 | Monoterpenic ester |
| Cyclosativene I | 0.02 | Sesquiterpene |
| Cyclosativene II | 0.03 | Sesquiterpene |
| α -Ylangene | 0.02 | Sesquiterpene |
| α -Copaene | 0.70 | Sesquiterpene |
| 1,5-diepi- β -Bourbonene | 0.02 | Sesquiterpene |
| β -Bourbonene | 0.06 | Sesquiterpene |
| Geranyl acetate | 0.03 | Monoterpenic ester |
| β -Cubebene | 0.08 | Sesquiterpene |
| β -Elemene | 0.75 | Sesquiterpene |
| Isocaryophyllene | 0.03 | Sesquiterpene |
| α -Gurjunene | 0.07 | Sesquiterpene |
| β -Caryophyllene | 2.64 | Sesquiterpene |
| β -Copaene | 0.03 | Sesquiterpene |
| <i>trans</i> - α -Bergamotene | 0.10 | Sesquiterpene |
| 6,9-Guaiadiene | 0.02 | Sesquiterpene |
| Unknown | 0.02 | Sesquiterpene |
| <i>trans</i> -Muuro-la-3,5-diene | 0.03 | Sesquiterpene |
| α -Humulene | 0.76 | Sesquiterpene |
| allo-Aromadendrene | 0.13 | Sesquiterpene |
| <i>cis</i> -Muuro-la-4(15),5-diene | 0.03 | Sesquiterpene |
| <i>trans</i> -Cadina-1(6),4-diene | 0.03 | Sesquiterpene |
| γ -Muuro-lene | 0.21 | Sesquiterpene |
| Germacrene D | 0.24 | Sesquiterpene |
| β -Selinene | 0.34 | Sesquiterpene |
| <i>trans</i> -Muuro-la-4(15),5-diene | 0.02 | Sesquiterpene |
| δ -Selinene | 0.07 | Sesquiterpene |
| epi-Cubebol | 0.14 | Sesquiterpenic alcohol |
| Bicyclogermacrene | 0.03 | Sesquiterpene |
| α -Selinene | 0.21 | Sesquiterpene |
| α -Muuro-lene | 0.13 | Sesquiterpene |
| δ -Guaiene | 0.02 | Sesquiterpene |
| γ -Cadinene | 0.28 | Sesquiterpene |
| Cubebol | 0.32 | Sesquiterpenic alcohol |
| <i>trans</i> -Calamenene | 0.02 | Sesquiterpene |

| | | |
|---|--------------|--------------------------|
| δ -Cadinene | 0.51 | Sesquiterpene |
| <i>trans</i> -Cadina-1,4-diene | 0.02 | Sesquiterpene |
| α -Cadinene | 0.03 | Sesquiterpene |
| α -Calacorene | 0.01 | Sesquiterpene |
| Isocaryophyllene epoxide B | 0.03 | Sesquiterpenic ether |
| α -Elemol | 0.02 | Sesquiterpenic alcohol |
| Germacrene B | 0.03 | Sesquiterpene |
| Palustrol | 0.01 | Sesquiterpenic alcohol |
| Unknown | 0.03 | Oxygenated sesquiterpene |
| Germacrene D-4-ol | 0.05 | Sesquiterpenic alcohol |
| Caryophyllene oxide isomer | 0.02 | Sesquiterpenic ether |
| Caryophyllene oxide | 0.44 | Sesquiterpenic ether |
| Viridiflorol | 0.10 | Sesquiterpenic alcohol |
| Copaborneol | 0.05 | Sesquiterpenic alcohol |
| Humulene epoxide II | 0.09 | Sesquiterpenic ether |
| 1,10-diepi-Cubenol | 0.03 | Sesquiterpenic alcohol |
| Junenol | 0.01 | Sesquiterpenic alcohol |
| 1-epi-Cubenol | 0.04 | Sesquiterpenic alcohol |
| τ -Cadinol | 0.20 | Sesquiterpenic alcohol |
| α -Muurolol | 0.03 | Sesquiterpenic alcohol |
| β -Eudesmol | tr | Sesquiterpenic alcohol |
| α -Cadinol | 0.02 | Sesquiterpenic alcohol |
| (3Z)-Caryophylla-3,8(13)-dien-5 β -ol | 0.03 | Sesquiterpenic alcohol |
| α -Phellandrene dimer II | 0.03 | Diterpene |
| <i>meta</i> -Camphorene | 0.01 | Diterpene |
| (3E)-Cembrene A | 0.05 | Diterpene |
| Cembrene C | 0.02 | Diterpene |
| Verticilla-4(20),7,11-triene | 0.01 | Diterpene |
| Cembrenol | 0.03 | Diterpenic alcohol |
| Incensole | 0.03 | Diterpenic alcohol |
| Serratol | 0.20 | Diterpenic alcohol |
| Consolidated total | 98.98 | |

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

Note: no correction factor was applied

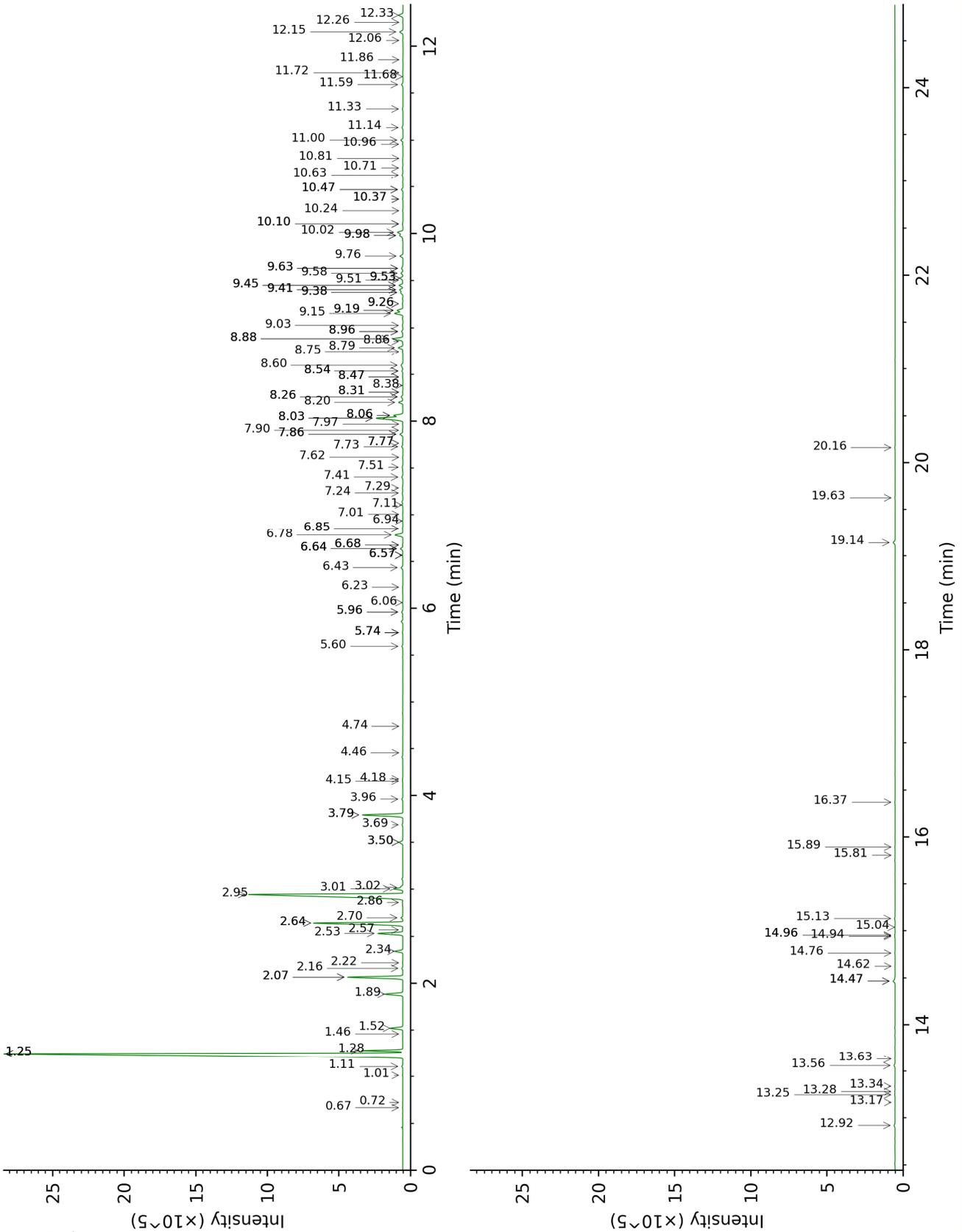
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

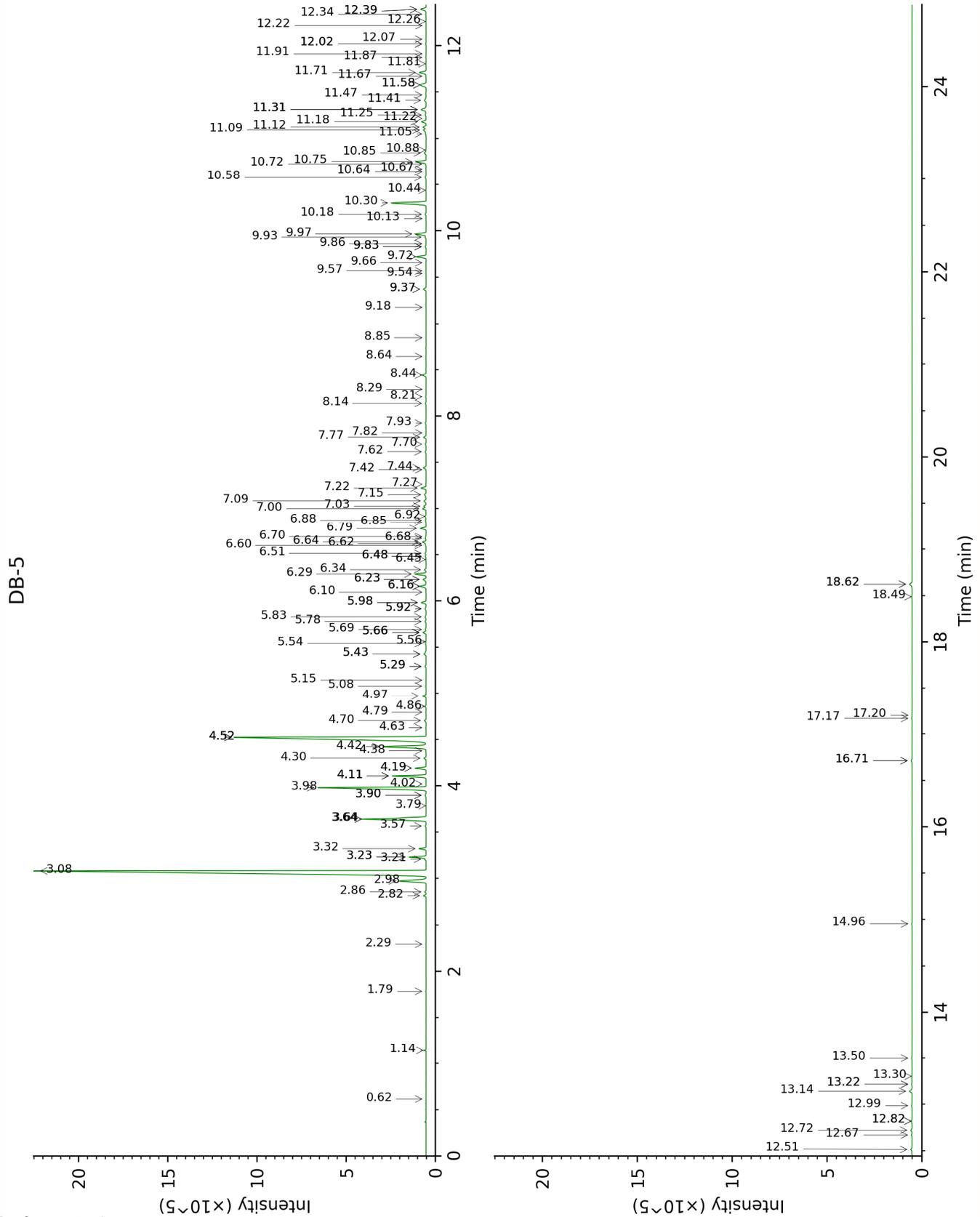
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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





FULL ANALYSIS DATA

| 3-Methyl-2-butanone | Column DB-WAX | | | Column DB-5 | | |
|--|---------------|--------|---------|-------------|--------|---------|
| | 0.72 | 904.4 | 0.01 | 0.62 | 649.0 | 0.01 |
| Toluene | 1.25* | 998.2 | [41.64] | 1.14 | 759.1 | 0.08 |
| Unknown BOCA I [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)] | 0.67 | 882.2 | 0.02 | 1.79 | 832.5 | 0.02 |
| Unknown BOCA II [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)] | 1.02 | 957.2 | 0.02 | 2.29 | 875.3 | 0.02 |
| Hashishene | 1.25* | 998.2 | [41.64] | 2.82 | 916.4 | 0.15 |
| Tricyclene | 1.11 | 973.7 | 0.08 | 2.86 | 919.1 | 0.07 |
| α -Thujene | 1.28 | 1004.3 | 2.23 | 2.98 | 927.0 | 2.14 |
| α -Pinene | 1.25* | 998.2 | [41.64] | 3.08 | 934.2 | 41.48 |
| Unknown SAOF I [m/z 91, 92 (47), 65 (11)... 134 (1)] | 2.16 | 1095.5 | 0.08 | 3.21 | 942.7 | 0.07 |
| α -Fenchene | 1.46 | 1023.4 | 0.02 | 3.23* | 944.2 | [0.92] |
| Camphene | 1.52 | 1029.7 | 0.92 | 3.23* | 944.2 | [0.92] |
| Thuja-2,4(10)-diene | 2.07* | 1085.8 | [4.10] | 3.32 | 950.3 | 0.39 |
| 3,7,7- Trimethylcyclohepta- 1,3,5-triene | 2.64* | 1136.4 | [7.40] | 3.57 | 966.6 | 0.05 |
| β -Pinene | 1.89 | 1067.1 | 1.37 | 3.64* | 971.7 | [5.09] |
| Sabinene | 2.07* | 1085.8 | [4.10] | 3.64* | 971.7 | [5.09] |
| Pseudolimonene isomer | 2.22 | 1101.5 | 0.02 | 3.79 | 981.3 | 0.01 |
| 6-Methyl-5-hepten- 2-one | 4.74 | 1296.7 | 0.01 | 3.90* | 988.9 | [0.08] |
| Dehydro-1,8-cineole | 2.86 | 1153.9 | 0.05 | 3.90* | 988.9 | [0.08] |
| Myrcene | 2.64* | 1136.4 | [7.40] | 3.98 | 994.4 | 7.38 |
| 6-Methyl-5-hepten- 2-ol | 6.57* | 1430.2 | [0.05] | 4.02 | 997.0 | 0.01 |
| Octanal | 4.15 | 1253.5 | 0.04 | 4.11* | 1002.9 | [2.04] |
| Pseudolimonene | 2.57 | 1130.5 | 0.04 | 4.11* | 1002.9 | [2.04] |
| α -Phellandrene | 2.53 | 1127.5 | 1.94 | 4.11* | 1002.9 | [2.04] |
| <i>ortho</i> -Methylanisole | 5.60 | 1358.1 | 0.09 | 4.19* | 1008.3 | [0.68] |
| Δ 3-Carene | 2.34 | 1112.4 | 0.60 | 4.19* | 1008.3 | [0.68] |
| α -Terpinene | 2.70 | 1140.9 | 0.13 | 4.30 | 1015.1 | 0.14 |
| <i>meta</i> -Cymene | 3.79* | 1226.9 | [3.27] | 4.38 | 1020.1 | 0.03 |
| <i>para</i> -Cymene | 3.79* | 1226.9 | [3.27] | 4.42 | 1023.0 | 3.30 |
| Limonene | 2.95 | 1160.7 | 17.86 | 4.52* | 1029.3 | [18.70] |

| | | | | | | |
|--|-------|--------|--------|-------|--------|---------|
| 1,8-Cineole | 3.02 | 1166.7 | 0.15 | 4.52* | 1029.3 | [18.70] |
| β-Phellandrene | 3.01 | 1165.5 | 0.65 | 4.52* | 1029.3 | [18.70] |
| <i>ortho</i> -Cymene | 4.18 | 1255.1 | 0.03 | 4.63 | 1035.9 | 0.03 |
| (Z)-β-Ocimene | 3.50* | 1205.4 | [0.35] | 4.70 | 1040.8 | 0.11 |
| Unknown BOFR III [m/z 109, 43 (57), 91 (28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)...] | 6.94 | 1458.4 | 0.02 | 4.80 | 1046.6 | 0.03 |
| (E)-β-Ocimene | 3.69 | 1219.1 | 0.07 | 4.86 | 1050.5 | 0.06 |
| γ-Terpinene | 3.50* | 1205.4 | [0.35] | 4.97 | 1057.8 | 0.24 |
| <i>cis</i> -Sabinene hydrate | 6.57* | 1430.2 | [0.05] | 5.08 | 1064.8 | 0.03 |
| Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)] | 4.46 | 1275.7 | 0.02 | 5.15 | 1068.9 | 0.01 |
| Unknown BODA VI [m/z 43, 94 (63), 109 (61), 59 (55), 79 (51)...152 (2)] | 6.85* | 1452.0 | [0.05] | 5.30* | 1078.3 | [0.07] |
| Octanol | 7.86* | 1529.4 | [0.29] | 5.30* | 1078.3 | [0.07] |
| <i>para</i> -Cymenene | 5.96* | 1385.0 | [0.11] | 5.43* | 1086.8 | [0.15] |
| Terpinolene | 3.96 | 1239.3 | 0.09 | 5.43* | 1086.8 | [0.15] |
| 6,7-Epoxymenth-2-en-1-ol | 5.74* | 1368.8 | [0.05] | 5.54 | 1094.1 | 0.05 |
| <i>trans</i> -Sabinene hydrate | 7.62 | 1510.0 | 0.03 | 5.56 | 1095.3 | 0.02 |
| α-Thujone | 5.74* | 1368.8 | [0.05] | 5.66* | 1101.6 | [0.21] |
| Perillene | 5.74* | 1368.8 | [0.05] | 5.66* | 1101.6 | [0.21] |
| Linalool | 7.73 | 1519.0 | 0.11 | 5.66* | 1101.6 | [0.21] |
| Unknown ORMA I [m/z 119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)] | 8.06* | 1545.2 | [0.74] | 5.69 | 1103.6 | 0.05 |
| Verbenol analog? | 7.90 | 1532.7 | 0.04 | 5.78 | 1109.2 | 0.07 |
| β-Thujone | 5.96* | 1385.0 | [0.11] | 5.83 | 1112.4 | 0.08 |
| <i>cis-para</i> -Menth-2-en-1-ol | 7.77* | 1521.8 | [0.04] | 5.92* | 1118.1 | [0.10] |
| <i>trans-para</i> -Menth-2,8-dien-1-ol | 8.54* | 1582.6 | [0.09] | 5.92* | 1118.1 | [0.10] |
| α-Campholenal | 6.64* | 1435.5 | [0.23] | 5.98* | 1122.4 | [0.31] |
| Myrcenol | 8.47* | 1577.6 | [0.05] | 5.98* | 1122.4 | [0.31] |
| <i>cis</i> -Limonene oxide | 6.06 | 1392.4 | 0.02 | 6.10 | 1129.7 | 0.02 |

| | | | | | | |
|--|--------|--------|--------|-------|--------|--------|
| <i>trans</i> -Pinocarveol | 8.79 | 1602.7 | 0.40 | 6.16* | 1133.8 | [0.45] |
| <i>trans</i> -Limonene oxide | 6.23 | 1404.5 | 0.03 | 6.16* | 1133.8 | [0.45] |
| <i>cis</i> -Verbenol | 8.88* | 1610.3 | [0.95] | 6.23* | 1138.6 | [0.23] |
| <i>trans</i> -Sabinol | 9.41* | 1653.4 | [0.33] | 6.23* | 1138.6 | [0.23] |
| <i>trans</i> -Verbenol | 9.16 | 1632.6 | 0.76 | 6.29 | 1142.5 | 0.72 |
| <i>meta</i> -Mentha-4,6-dien-8-ol | 8.96* | 1616.7 | [0.12] | 6.34 | 1145.4 | 0.11 |
| Unknown BOSE IV [m/z 109, 81 (39), 41 (38), 95 (24)... 152 (1)] | | | | 6.45 | 1152.6 | 0.02 |
| Sabinaketon | 8.31* | 1564.8 | [0.03] | 6.48* | 1154.8 | [0.05] |
| Pinocamphone | 6.85* | 1452.0 | [0.05] | 6.48* | 1154.8 | [0.05] |
| Pinocarvone | 7.51 | 1501.9 | 0.07 | 6.52 | 1157.0 | 0.07 |
| Borneol | 9.38* | 1650.9 | [0.23] | 6.60 | 1162.5 | 0.02 |
| Unknown CALU II [m/z 95, 110 (38), 81 (21), 79 (16)... 152 (7)] | 7.29 | 1485.1 | 0.07 | 6.62 | 1163.7 | 0.04 |
| α -Phellandren-8-ol | 9.76 | 1682.8 | 0.25 | 6.64 | 1164.9 | 0.25 |
| <i>cis</i> -Sabinol | 10.47* | 1742.5 | [0.13] | 6.68 | 1167.6 | 0.06 |
| Umbellulone | 8.54* | 1582.6 | [0.09] | 6.70 | 1168.7 | 0.02 |
| Terpinen-4-ol | 8.20 | 1556.2 | 0.37 | 6.78 | 1174.5 | 0.38 |
| Thuj-3-en-10-al | 8.31* | 1564.8 | [0.03] | 6.85 | 1178.9 | 0.02 |
| Cryptone | 8.75 | 1599.3 | 0.03 | 6.88 | 1180.4 | 0.05 |
| <i>para</i> -Cymen-8-ol | 11.14 | 1800.1 | 0.10 | 6.92 | 1183.2 | 0.11 |
| α -Terpineol | 9.38* | 1650.9 | [0.23] | 7.00 | 1188.7 | 0.23 |
| Myrtenal | 8.26* | 1560.9 | [0.18] | 7.03 | 1190.5 | 0.15 |
| Myrtenol | 10.47* | 1742.5 | [0.13] | 7.09 | 1194.1 | 0.17 |
| <i>cis</i> - α -Phellandrene epoxide (iPr vs Me) | 10.63 | 1756.3 | 0.09 | 7.15 | 1198.5 | 0.13 |
| Verbenone | 9.19* | 1635.3 | [0.53] | 7.22 | 1203.2 | 0.34 |
| <i>trans</i> -Piperitol | 9.98* | 1700.8 | [0.38] | 7.27 | 1205.9 | 0.03 |
| Octyl acetate | 6.68* | 1438.5 | [0.03] | 7.42 | 1216.5 | 0.01 |
| <i>trans</i> -Carveol | 11.00 | 1788.6 | 0.19 | 7.44 | 1217.9 | 0.19 |
| <i>cis</i> -Carveol | 11.33 | 1817.4 | 0.06 | 7.62 | 1229.7 | 0.06 |
| Cuminal | 10.10* | 1711.0 | [0.06] | 7.70 | 1235.3 | 0.05 |
| Carvone | 9.58 | 1667.8 | 0.17 | 7.77 | 1240.4 | 0.18 |
| Carvotanacetone | 9.03 | 1622.0 | 0.06 | 7.82 | 1243.6 | 0.01 |
| Piperitone | 9.53* | 1663.5 | [0.27] | 7.93 | 1250.8 | 0.06 |
| 3,5-Dimethoxytoluene | 10.96 | 1784.8 | 0.04 | 8.14 | 1265.3 | 0.05 |
| Unknown BOSE VI [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)] | | | | 8.21 | 1270.2 | 0.05 |
| Decanol | 10.37* | 1733.8 | [0.03] | 8.29 | 1275.7 | 0.01 |

| | | | | | | |
|---|--------|--------|--------|--------|--------|--------|
| Bornyl acetate | 7.86* | 1529.4 | [0.29] | 8.44 | 1286.2 | 0.26 |
| Thymol | 14.62 | 2127.8 | 0.01 | 8.64 | 1299.8 | 0.02 |
| Carvacrol | 14.94 | 2160.1 | 0.02 | 8.85 | 1311.3 | 0.02 |
| Bicycloelemene | 6.68* | 1438.5 | [0.03] | 9.18 | 1334.5 | 0.02 |
| α -Cubebene | 6.44 | 1420.2 | 0.16 | 9.37* | 1348.3 | [0.20] |
| α -Terpinyl acetate | 9.26* | 1641.1 | [0.07] | 9.37* | 1348.3 | [0.20] |
| Cyclosativene I | 6.57* | 1430.2 | [0.05] | 9.54 | 1360.3 | 0.02 |
| Cyclosativene II | 6.64* | 1435.5 | [0.23] | 9.57 | 1362.3 | 0.03 |
| α -Ylangene | 6.64* | 1435.5 | [0.23] | 9.66 | 1368.5 | 0.02 |
| α -Copaene | 6.78 | 1446.7 | 0.73 | 9.72 | 1373.1 | 0.70 |
| 1,5-diepi- β - Bourbonene | 7.01 | 1463.8 | 0.02 | 9.83* | 1380.8 | [0.07] |
| β -Bourbonene | 7.11 | 1471.3 | 0.06 | 9.83* | 1380.8 | [0.07] |
| Geranyl acetate | 10.10* | 1711.0 | [0.06] | 9.86 | 1383.0 | 0.03 |
| β -Cubebene | 7.41 | 1493.9 | 0.11 | 9.93 | 1388.0 | 0.08 |
| β -Elemene | 8.06* | 1545.2 | [0.74] | 9.97 | 1390.5 | 0.75 |
| Isocaryophyllene | 7.77* | 1521.8 | [0.04] | 10.13 | 1402.2 | 0.03 |
| α -Gurjunene | 7.24 | 1481.0 | 0.08 | 10.18 | 1405.5 | 0.07 |
| β -Caryophyllene | 8.03* | 1543.0 | [2.72] | 10.30 | 1414.6 | 2.64 |
| β -Copaene | 7.97 | 1538.0 | 0.03 | 10.44 | 1424.8 | 0.03 |
| <i>trans</i> - α - Bergamotene | 8.03* | 1543.0 | [2.72] | 10.58 | 1435.3 | 0.10 |
| 6,9-Guaiadiene | 8.26* | 1560.9 | [0.18] | 10.64 | 1440.3 | 0.02 |
| Unknown BOCA IV [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)] | 8.38 | 1570.5 | 0.01 | 10.67 | 1442.2 | 0.02 |
| <i>trans</i> -Muurola-3,5- diene | 8.47* | 1577.6 | [0.05] | 10.72 | 1446.4 | 0.03 |
| α -Humulene | 8.88* | 1610.3 | [0.95] | 10.75 | 1448.3 | 0.76 |
| allo-Aromadendrene | 8.60 | 1587.5 | 0.24 | 10.84 | 1455.4 | 0.13 |
| <i>cis</i> -Muurola-4(15),5- diene | 8.96* | 1616.7 | [0.12] | 10.88 | 1457.8 | 0.03 |
| <i>trans</i> -Cadina-1(6),4- diene | 8.86 | 1608.0 | 0.03 | 11.05 | 1470.8 | 0.03 |
| γ -Muurolene | 9.19* | 1635.3 | [0.53] | 11.09 | 1473.9 | 0.21 |
| Germacrene D | 9.41* | 1653.4 | [0.33] | 11.12 | 1476.3 | 0.24 |
| β -Selinene | 9.45* | 1657.2 | [0.36] | 11.18 | 1480.7 | 0.34 |
| <i>trans</i> -Muurola- 4(15),5-diene | 9.45* | 1657.2 | [0.36] | 11.22 | 1483.3 | 0.02 |
| δ -Selinene | 9.26* | 1641.1 | [0.07] | 11.25 | 1486.0 | 0.07 |
| epi-Cubebol | 11.59 | 1840.9 | 0.14 | 11.31* | 1490.4 | [0.44] |
| Bicyclogermacrene | 9.63* | 1672.1 | [0.16] | 11.31* | 1490.4 | [0.44] |
| α -Selinene | 9.53* | 1663.5 | [0.27] | 11.31* | 1490.4 | [0.44] |

| | | | | | | |
|---|--------|--------|--------|--------|--------|--------|
| α-Muurolene | 9.63* | 1672.1 | [0.16] | 11.41 | 1497.9 | 0.13 |
| δ-Guaiene | 9.51 | 1661.7 | 0.04 | 11.47 | 1502.3 | 0.02 |
| γ-Cadinene | 9.98* | 1700.8 | [0.38] | 11.58* | 1510.6 | [0.59] |
| Cubebol | 12.15 | 1891.5 | 0.32 | 11.58* | 1510.6 | [0.59] |
| <i>trans</i> -Calamenene | 10.81 | 1771.8 | 0.02 | 11.67 | 1518.0 | 0.02 |
| δ-Cadinene | 10.02 | 1703.7 | 0.54 | 11.71 | 1521.1 | 0.51 |
| <i>trans</i> -Cadina-1,4-diene | 10.24 | 1723.1 | 0.03 | 11.81 | 1528.6 | 0.02 |
| α-Cadinene | 10.37* | 1733.8 | [0.03] | 11.87 | 1533.9 | 0.03 |
| α-Calacorene | 11.68 | 1848.5 | 0.01 | 11.91 | 1537.1 | 0.01 |
| Isocaryophyllene epoxide B | 11.72 | 1852.3 | 0.03 | 12.02* | 1545.5 | [0.03] |
| α-Elemol | 13.63 | 2030.4 | 0.02 | 12.02* | 1545.5 | [0.03] |
| Germacrene B | 10.70 | 1763.0 | 0.07 | 12.07 | 1549.5 | 0.03 |
| Palustrol | 11.86 | 1864.8 | 0.01 | 12.22 | 1561.1 | 0.01 |
| Unknown BOCA V [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)] | | | | 12.26 | 1564.6 | 0.03 |
| Germacrene D-4-ol | 13.25 | 1993.4 | 0.03 | 12.34 | 1570.8 | 0.05 |
| Caryophyllene oxide isomer | 12.26 | 1900.7 | 0.02 | 12.40* | 1575.1 | [0.46] |
| Caryophyllene oxide | 12.33 | 1907.5 | 0.44 | 12.40* | 1575.1 | [0.46] |
| Viridiflorol | 13.56 | 2023.3 | 0.09 | 12.51 | 1584.4 | 0.10 |
| Copaborneol | 14.47* | 2111.6 | [0.19] | 12.67 | 1596.7 | 0.05 |
| Humulene epoxide II | 12.92 | 1962.7 | 0.10 | 12.72 | 1600.9 | 0.09 |
| 1,10-diepi-Cubenol | 13.28 | 1996.7 | 0.03 | 12.82* | 1608.7 | [0.06] |
| Junenol | 13.17 | 1985.8 | 0.01 | 12.82* | 1608.7 | [0.06] |
| 1-epi-Cubenol | 13.34 | 2002.1 | 0.03 | 12.99 | 1622.6 | 0.04 |
| τ-Cadinol | 14.47* | 2111.6 | [0.19] | 13.14 | 1635.5 | 0.20 |
| α-Muurolol | 14.76 | 2142.0 | 0.03 | 13.22* | 1641.8 | [0.03] |
| β-Eudesmol | 14.96* | 2161.4 | [0.03] | 13.22* | 1641.8 | [0.03] |
| α-Cadinol | 15.04 | 2170.0 | 0.03 | 13.30 | 1649.0 | 0.02 |
| (3Z)-Caryophylla-3,8(13)-dien-5β-ol | 16.37 | 2308.3 | 0.03 | 13.50 | 1665.2 | 0.03 |
| α-Phellandrene dimer II | 12.06 | 1883.3 | 0.02 | 14.96 | 1789.8 | 0.03 |
| <i>meta</i> -Camphorene | 14.96* | 2161.4 | [0.03] | 16.71* | 1951.4 | [0.07] |
| (3E)-Cembrene A | 15.13 | 2179.4 | 0.05 | 16.71* | 1951.4 | [0.07] |
| Cembrene C | 15.81 | 2249.0 | 0.02 | 17.17 | 1994.9 | 0.02 |
| Verticilla-4(20),7,11-triene | 15.89 | 2258.2 | 0.03 | 17.20 | 1998.1 | 0.01 |
| Cembrenol | 19.63 | 2680.0 | 0.02 | 18.49 | 2126.2 | 0.03 |
| Incensole | 20.16 | 2745.7 | 0.03 | 18.62* | 2140.2 | [0.23] |
| Serratol | 19.14 | 2621.7 | 0.20 | 18.62* | 2140.2 | [0.23] |

| | | |
|----------------|--------|--------|
| Total reported | 98.62% | 99.19% |
|----------------|--------|--------|

*: 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