

**Date :** March 06, 2018

**CERTIFICATE OF ANALYSIS - GC PROFILING**

*SAMPLE IDENTIFICATION*

**Internal code :** 18B20-PLG16-1-CC

**Customer identification :** Patchouli Dark

**Type :** Essential oil

**Source :** *Pogostemon cablin*

**Customer :** Plant Guru

*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 :** February 28, 2018

Checked and approved by :

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

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#### *PHYSICOCHEMICAL DATA*

**Physical aspect:** Yellow/orange viscous liquid

**Refractive index:**  $1.5095 \pm 0.0003$  (20 °C)

#### *CONCLUSION*

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

## ANALYSIS SUMMARY

| Identification             | DB-5 (%) | DB-WAX (%) | Classe                   |
|----------------------------|----------|------------|--------------------------|
| 5-Methyl-2-hexanone        | tr       | tr         | Aliphatic ketone         |
| α-Pinene                   | 0.07     | 0.07       | Monoterpene              |
| Camphene                   | tr       | tr         | Monoterpene              |
| Sabinene                   | 0.16*    | tr         | Monoterpene              |
| β-Pinene                   | [0.16]*  | 0.17       | Monoterpene              |
| Octen-3-ol                 | tr       | 0.01       | Aliphatic alcohol        |
| Octan-3-one                | tr       | tr         | Aliphatic ketone         |
| Octan-3-ol                 | 0.01     | 0.01       | Aliphatic alcohol        |
| Limonene                   | 0.02     | 0.02       | Monoterpene              |
| Linalool                   | 0.01     |            | Monoterpenic alcohol     |
| α-Terpineol                | tr       | 2.71*      | Monoterpenic alcohol     |
| Unknown                    | 0.02     | 0.02*      | Unknown                  |
| δ-Elemene                  | 0.12     | 2.32*      | Sesquiterpene            |
| Unknown                    | 0.02     | 0.01       | Sesquiterpene            |
| β-Patchoulene              | 2.22*    | [2.32]*    | Sesquiterpene            |
| α-Copaene                  | [2.22]*  | [0.02]*    | Sesquiterpene            |
| β-Bourbonene               | 0.06*    | 0.01       | Sesquiterpene            |
| cis-β-Elemene              | [0.06]*  | 0.03       | Sesquiterpene            |
| β-Elemene                  | 1.01     | 4.43*      | Sesquiterpene            |
| Cycloseychellene           | 0.64     | 0.60       | Sesquiterpene            |
| β-Caryophyllene            | 2.86     | [4.43]*    | Sesquiterpene            |
| α-Guaiene                  | 19.49    | 11.93      | Sesquiterpene            |
| Seychellene                | [19.49]* | 8.05       | Sesquiterpene            |
| Selina-5,11-diene          | [19.49]* | 0.01       | Sesquiterpene            |
| Unknown                    | 8.28*    | 0.08       | Sesquiterpene            |
| α-Humulene                 | [8.28]*  | 0.53*      | Sesquiterpene            |
| α-Patchoulene              | [8.28]*  | 4.96*      | Sesquiterpene            |
| Patchoulene analog I       | [8.28]*  | [4.96]*    | Sesquiterpene            |
| γ-Patchoulene              | [8.28]*  | 1.01       | Sesquiterpene            |
| 9-epi-β-Caryophyllene      | 0.38     | 0.75*      | Sesquiterpene            |
| Unknown                    | 0.02     | [0.53]*    | Sesquiterpene            |
| Selina-4,11-diene          | 0.56*    | 0.11       | Sesquiterpene            |
| Unknown                    | [0.56]*  | [0.75]*    | Sesquiterpene            |
| β-Selinene                 | 0.63     | 16.75*     | Sesquiterpene            |
| Unknown                    | 0.22     | 0.25       | Sesquiterpene            |
| δ-Selinene                 | 0.09     | 0.12       | Sesquiterpene            |
| Aciphyllene                | 2.84*    | [2.71]*    | Sesquiterpene            |
| Eudesma-2,4(15),11-triene  | [2.84]*  | 0.05       | Sesquiterpene            |
| δ-Guaiene                  | 17.08    | [16.75]*   | Sesquiterpene            |
| Nootkatene                 | 0.53*    | 0.09       | Sesquiterpene            |
| γ-Cadinene                 | [0.53]*  | 0.42       | Sesquiterpene            |
| 7-epi-α-Selinene           | 0.08     | 0.14       | Sesquiterpene            |
| Unknown                    | 0.04     | 0.04       | Oxygenated sesquiterpene |
| Unknown                    | 0.13     | 0.05       | Oxygenated sesquiterpene |
| Unknown                    | 0.10     |            | Oxygenated sesquiterpene |
| Unknown                    | 0.01     |            | Oxygenated sesquiterpene |
| Isocaryophyllene epoxide B | 0.66*    | 0.13       | Sesquiterpenic ether     |
| α-Elemol                   | [0.66]*  | 0.62       | Sesquiterpenic alcohol   |

|                            |               |               |                           |
|----------------------------|---------------|---------------|---------------------------|
| Norpachoulenol             | [0.66]*       | 0.02          | Norsesquiterpenic alcohol |
| Unknown                    | 0.02          | 0.01          | Oxygenated sesquiterpene  |
| Unknown                    | 0.10          |               | Oxygenated sesquiterpene  |
| Unknown                    | 0.49          | 0.49          | Oxygenated sesquiterpene  |
| Caryophyllene oxide        | 0.70*         | 0.54          | Sesquiterpenic ether      |
| Caryophyllene oxide isomer | [0.70]*       | 0.15*         | Sesquiterpenic ether      |
| Unknown                    | [0.70]*       | 0.01          | Oxygenated sesquiterpene  |
| Unknown                    | 0.53          | 0.39          | Oxygenated sesquiterpene  |
| Unknown                    | 0.13          | 0.28          | Oxygenated sesquiterpene  |
| Hexadecane                 | 0.08          | 0.06          | Alkane                    |
| Humulene epoxide II        | 0.10          | 0.09          | Sesquiterpenic ether      |
| Unknown                    | 0.24          | 0.54          | Oxygenated sesquiterpene  |
| Unknown                    | 0.27*         | 0.33          | Oxygenated sesquiterpene  |
| Unknown                    | [0.27]*       |               | Oxygenated sesquiterpene  |
| Unknown                    | 0.86          | 30.77*        | Oxygenated sesquiterpene  |
| Patchoulol                 | 33.35         | [30.77]*      | Sesquiterpenic alcohol    |
| Unknown                    | [33.35]*      | 0.33          | Oxygenated sesquiterpene  |
| Pogostol                   | [33.35]*      | 2.09          | Sesquiterpenic alcohol    |
| Unknown                    | 0.04          | 0.02          | Oxygenated sesquiterpene  |
| Unknown                    | 0.38          | 0.25*         | Oxygenated sesquiterpene  |
| Unknown                    | 0.02          | 0.07          | Oxygenated sesquiterpene  |
| Unknown                    | 0.09          | 0.06          | Oxygenated sesquiterpene  |
| Rotundone                  | 0.40          | 0.39          | Sesquiterpenic ketone     |
| Unknown                    | 0.02          |               | Oxygenated sesquiterpene  |
| Pogostone                  | 0.43          |               | Terpenic lactone          |
| Unknown                    | 0.35*         | 0.17          | Oxygenated sesquiterpene  |
| Unknown                    | [0.35]*       | 0.19          | Oxygenated sesquiterpene  |
| Unknown                    | 0.21          | 0.24          | Oxygenated sesquiterpene  |
| Unknown                    | 0.02          |               | Oxygenated sesquiterpene  |
| Unknown                    | 0.07          | 0.16          | Oxygenated sesquiterpene  |
| Unknown                    | 0.13          |               | Oxygenated sesquiterpene  |
| Unknown                    | 0.04          | 0.03          | Oxygenated sesquiterpene  |
| Unknown                    | 0.04          | 0.02          | Oxygenated sesquiterpene  |
| Unknown                    | 0.02          | tr            | Oxygenated sesquiterpene  |
| Unknown                    | 0.02          |               | Oxygenated sesquiterpene  |
| Unknown                    | 0.10          | 0.05          | Oxygenated sesquiterpene  |
| Unknown                    | 0.06          | 0.05          | Oxygenated sesquiterpene  |
| Unknown                    | 0.05          | 0.02          | Oxygenated sesquiterpene  |
| Unknown                    | 0.02          | 0.02          | Oxygenated sesquiterpene  |
| Unknown                    | 0.07          | 0.07          | Oxygenated sesquiterpene  |
| Corymbolone analog         | 0.02          |               | Sesquiterpenic alcohol    |
| Corymbolone                | 0.09          |               | Sesquiterpenic alcohol    |
| Drima-7,9(11)-diene?       |               | 0.01          | Sesquiterpene             |
| Unknown                    |               | 0.19          | Sesquiterpene             |
| Unknown                    |               | [0.15]*       | Oxygenated sesquiterpene  |
| Unknown                    |               | 0.02          | Oxygenated sesquiterpene  |
| Unknown                    |               | [0.25]*       | Oxygenated sesquiterpene  |
| <b>Total identified</b>    | <b>93.75%</b> | <b>90.63%</b> |                           |

\*: Two or more compounds are coeluting on this column

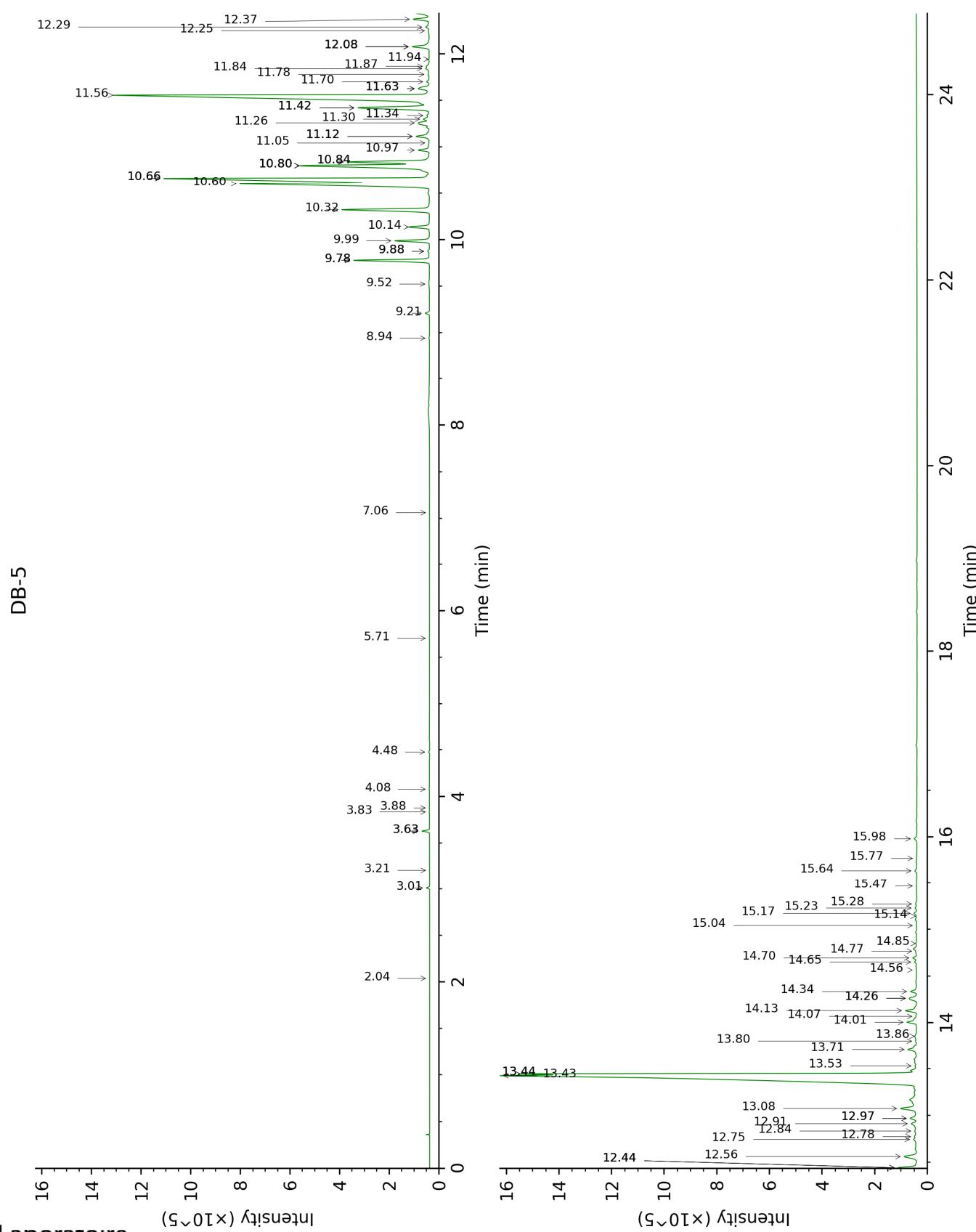
[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

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

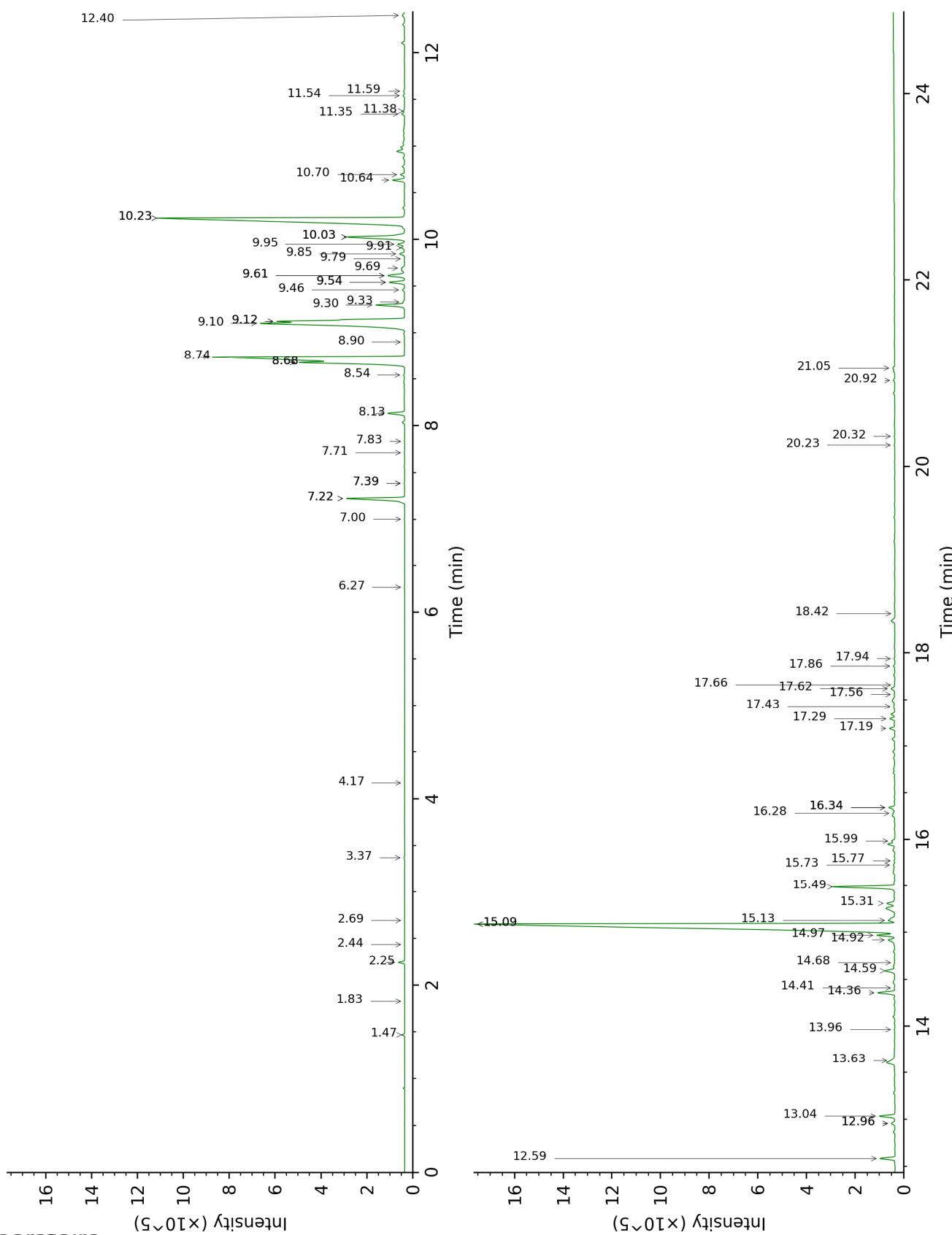
Note: no correction factor was applied



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DB-WAX



FULL ANALYSIS DATA

| Identification                                                               | Column DB-5 |      |         | Column DB-WAX |      |        |
|------------------------------------------------------------------------------|-------------|------|---------|---------------|------|--------|
|                                                                              | R.T         | R.I  | %       | R.T           | R.I  | %      |
| 5-Methyl-2-hexanone                                                          | 2.04        | 850  | tr      | 2.69          | 1107 | tr     |
| α-Pinene                                                                     | 3.01        | 925  | 0.07    | 1.47          | 994  | 0.07   |
| Camphene                                                                     | 3.21        | 938  | tr      | 1.83          | 1030 | tr     |
| Sabinene                                                                     | 3.63*       | 966  | 0.16    | 2.44          | 1086 | tr     |
| β-Pinene                                                                     | 3.63*       | 966  | [0.16]  | 2.25          | 1069 | 0.17   |
| Octen-3-ol                                                                   | 3.83        | 980  | tr      | 7.00          | 1420 | 0.01   |
| Octan-3-one                                                                  | 3.88        | 983  | tr      | 4.17          | 1218 | tr     |
| Octan-3-ol                                                                   | 4.08        | 996  | 0.01    | 6.27          | 1367 | 0.01   |
| Limonene                                                                     | 4.48        | 1021 | 0.02    | 3.37          | 1159 | 0.02   |
| Linalool                                                                     | 5.71        | 1098 | 0.01    |               |      |        |
| α-Terpineol                                                                  | 7.06        | 1185 | tr      | 10.02*        | 1652 | 2.71   |
| Unknown [m/z 159, 117 (68), 132 (55), 200 (35)]                              | 8.94        | 1310 | 0.02    | 7.39*         | 1448 | 0.02   |
| δ-Elemene                                                                    | 9.21        | 1329 | 0.12    | 7.22*         | 1436 | 2.32   |
| Unknown [m/z 145, 91 (67), 105 (57), 131 (56), 119 (52), 159 (49), 202 (45)] | 9.52        | 1351 | 0.02    | 7.83          | 1481 | 0.01   |
| β-Patchoulene                                                                | 9.78*       | 1369 | 2.22    | 7.22*         | 1436 | [2.32] |
| α-Copaene                                                                    | 9.78*       | 1369 | [2.22]  | 7.39*         | 1448 | [0.02] |
| β-Bourbonene                                                                 | 9.88*       | 1376 | 0.06    | 7.71          | 1472 | 0.01   |
| cis-β-Elemene                                                                | 9.88*       | 1376 | [0.06]  | 8.54          | 1535 | 0.03   |
| β-Elemene                                                                    | 9.99        | 1384 | 1.01    | 8.68*         | 1546 | 4.43   |
| Cycloseychellene                                                             | 10.14       | 1394 | 0.64    | 8.13          | 1504 | 0.60   |
| β-Caryophyllene                                                              | 10.32       | 1408 | 2.86    | 8.68*         | 1546 | [4.43] |
| α-Guaiene                                                                    | 10.60†      | 1429 | 19.49   | 8.74          | 1550 | 11.93  |
| Seychellene                                                                  | 10.66*†     | 1433 | [19.49] | 9.10          | 1578 | 8.05   |
| Selina-5,11-diene                                                            | 10.66*†     | 1433 | [19.49] | 8.90          | 1563 | 0.01   |
| Unknown [m/z 91, 93 (98), 79 (82), 81 (82), 105 (71), 107 (70)... 204 (38)]  | 10.80*†     | 1443 | 8.28    | 9.46          | 1606 | 0.08   |
| α-Humulene                                                                   | 10.80*†     | 1443 | [8.28]  | 9.54*         | 1613 | 0.53   |
| α-Patchoulene                                                                | 10.80*†     | 1443 | [8.28]  | 9.12*         | 1580 | 4.96   |
| Patchoulene analog I                                                         | 10.84*†     | 1446 | [8.28]  | 9.12*         | 1580 | [4.96] |
| γ-Patchoulene                                                                | 10.84*†     | 1446 | [8.28]  | 9.30          | 1594 | 1.01   |
| 9-epi-β-Caryophyllene                                                        | 10.97       | 1456 | 0.38    | 9.61*         | 1619 | 0.75   |
| Unknown [m/z 159, 91 (88), 93 (72), 79 (69), 105                             | 11.05       | 1462 | 0.02    | 9.54*         | 1613 | [0.53] |

|                                                                                                          |        |      |        |        |      |         |
|----------------------------------------------------------------------------------------------------------|--------|------|--------|--------|------|---------|
| (68), 41 (66), 81 (54), 202? (50)...                                                                     |        |      |        |        |      |         |
| Selina-4,11-diene                                                                                        | 11.12* | 1467 | 0.56   | 9.69   | 1625 | 0.11    |
| Unknown [m/z 147, 93 (87), 107 (77), 105 (77), 91 (73), 79 (63)... 204 (21)]                             | 11.12* | 1467 | [0.56] | 9.61*  | 1619 | [0.75]  |
| $\beta$ -Selinene                                                                                        | 11.26  | 1477 | 0.63   | 10.23* | 1668 | 16.75   |
| Unknown [m/z 79, 107 (99), 91 (88), 93 (86), 81 (78), 105 (73), 41 (73)... 204? (12)]                    | 11.30  | 1480 | 0.22   | 9.95   | 1646 | 0.25    |
| $\delta$ -Selinene                                                                                       | 11.34  | 1483 | 0.09   | 9.91   | 1643 | 0.12    |
| Aciphyllene                                                                                              | 11.42* | 1490 | 2.84   | 10.02* | 1652 | [2.71]  |
| Eudesma-2,4(15),11-triene                                                                                | 11.42* | 1490 | [2.84] | 11.38  | 1764 | 0.05    |
| $\delta$ -Guaiene                                                                                        | 11.56  | 1500 | 17.08  | 10.23* | 1668 | [16.75] |
| Nootkatene                                                                                               | 11.63* | 1505 | 0.53   | 11.35  | 1762 | 0.09    |
| $\gamma$ -Cadinene                                                                                       | 11.63* | 1505 | [0.53] | 10.64  | 1702 | 0.42    |
| 7-epi- $\alpha$ -Selinene                                                                                | 11.70  | 1511 | 0.08   | 10.70  | 1707 | 0.14    |
| Unknown [m/z 41, 67 (95), 93 (92), 107 (91), 55 (77), 81 (77), 79 (73)... 205 (17) ...]                  | 11.78  | 1517 | 0.04   | 11.59  | 1782 | 0.04    |
| Unknown [m/z 161, 119 (92), 91 (69), 105 (52), 145 (49)... 218 (6)]                                      | 11.84  | 1522 | 0.13   | 11.54  | 1778 | 0.05    |
| Unknown [m/z 91, 105 (98), 108 (83), 93 (82), 133 (79), 77 (64), 79 (57), 41 (56), 145 (55)... 218? (5)] | 11.87  | 1524 | 0.10   |        |      |         |
| Unknown [m/z 145, 131 (91), 91 (86), 105 (68), 146 (66), 43 (54)... 220? (5)]                            | 11.94  | 1530 | 0.01   |        |      |         |
| Isocaryophyllene epoxide B                                                                               | 12.08* | 1540 | 0.66   | 12.40  | 1853 | 0.13    |
| $\alpha$ -Elemol                                                                                         | 12.08* | 1540 | [0.66] | 14.36  | 2033 | 0.62    |
| Norpatchoulenol                                                                                          | 12.08* | 1540 | [0.66] | 14.41  | 2038 | 0.02    |
| Unknown [m/z 191, 159 (66), 133 (53), 91 (45), 41 (42), 177 (35),                                        | 12.25  | 1554 | 0.02   | 13.96  | 1995 | 0.01    |

|                                                                                                       |        |      |        |        |       |
|-------------------------------------------------------------------------------------------------------|--------|------|--------|--------|-------|
| 105 (33), 220 (32)]                                                                                   |        |      |        |        |       |
| Unknown [m/z 41, 67 (90), 55 (87), 79 (85), 107 (84), 81 (84), 93 (84), 121 (77), 91 (74)... 220 (7)] | 12.29  | 1557 | 0.10   |        |       |
| Unknown [m/z 43, 107 (94), 81 (71), 41 (63), 67 (58), 111 (58), 93 (55), 83 (54)... 205 (8), 220 (1)] | 12.37  | 1563 | 0.49   | 12.59  | 1869  |
| Caryophyllene oxide                                                                                   | 12.44* | 1569 | 0.70   | 13.04  | 1910  |
| Caryophyllene oxide isomer                                                                            | 12.44* | 1569 | [0.70] | 12.96* | 1903  |
| Unknown isomer                                                                                        | 12.44* | 1569 | [0.70] | 14.68  | 2064  |
| Unknown [m/z 43, 79 (44), 81 (41), 93 (40), 91 (40)... 220 (5)]                                       | 12.56  | 1578 | 0.53   | 14.59  | 2055  |
| Unknown [m/z 43, 105 (77), 91 (71), 93 (68), 41 (62), 107 (6)... 205 (41), 220 (7)]                   | 12.75  | 1592 | 0.13   | 14.92  | 2087  |
| Hexadecane                                                                                            | 12.78  | 1595 | 0.08   | 9.33   | 1596  |
| Humulene epoxide II                                                                                   | 12.84  | 1599 | 0.10   | 13.63  | 1964  |
| Unknown [m/z 43, 161 (73), 91 (53), 95 (52), 79 (46), 119 (45)... 205 (29), 220? (1)]                 | 12.91  | 1606 | 0.24   | 14.97  | 2092  |
| Unknown [m/z 41, 91 (92), 55 (81), 93 (81), 79 (74), 43 (71), 95 (68), 123 (65)... 220 (17)]          | 12.97* | 1610 | 0.27   | 15.13  | 2108  |
| Unknown [m/z 43, 79 (41), 93 (39), 41 (39), 91 (38), 81 (36)... 220 (3)]                              | 12.97* | 1610 | [0.27] |        |       |
| Unknown [m/z 41, 55 (92), 95 (80), 81 (76), 109 (76), 67 (66), 125                                    | 13.08  | 1619 | 0.86   | 15.09* | 2104  |
|                                                                                                       |        |      |        |        | 30.77 |

|                                                                                                            |         |      |         |        |      |         |
|------------------------------------------------------------------------------------------------------------|---------|------|---------|--------|------|---------|
| (65)... 220 (12)]                                                                                          |         |      |         |        |      |         |
| Patchoulol                                                                                                 | 13.42†  | 1648 | 33.35   | 15.09* | 2104 | [30.77] |
| Unknown [m/z 175, 218 (59), 133 (49), 91 (43), 41 (38), 147 (36)]                                          | 13.44*† | 1650 | [33.35] | 15.31  | 2126 | 0.33    |
| Pogostol                                                                                                   | 13.44*† | 1650 | [33.35] | 15.49  | 2144 | 2.09    |
| Unknown [m/z 43, 41 (87), 91 (64), 55 (63), 81 (58), 95 (54), 107 (52)... 222 (12)]                        | 13.53   | 1657 | 0.04    | 20.32  | 2676 | 0.02    |
| Unknown [m/z 95, 107 (99), 41 (85), 93 (82), 91 (82), 109 (71), 105 (71), 105 (71), 108 (66)... 220 (29)]  | 13.71   | 1672 | 0.38    | 16.34* | 2230 | 0.25    |
| Unknown [m/z 91, 41 (100), 107 (98), 108 (95), 95 (87), 93 (87), 105 (85), 79 (77), 119 (72)... 220? (15)] | 13.80   | 1679 | 0.02    | 16.28  | 2224 | 0.07    |
| Unknown [m/z 43, 41 (95), 97 (89), 109 (71), 55 (71), 107 (70), 95 (69), 110 (65)... 222 (5)]              | 13.86   | 1683 | 0.09    | 15.73  | 2167 | 0.06    |
| Rotundone                                                                                                  | 14.00   | 1696 | 0.40    | 15.99  | 2193 | 0.39    |
| Unknown [m/z 43, 41 (82), 137 (78), 109 (76), 95 (75), 91 (72), 55 (67)... 220? (14)]                      | 14.07   | 1701 | 0.02    |        |      |         |
| Pogostone                                                                                                  | 14.13   | 1706 | 0.43    |        |      |         |
| Unknown [m/z 83, 43 (85), 55 (39), 41 (29), 121 (27), 120 (25)... 218 (3)]                                 | 14.26*  | 1718 | 0.35    | 17.29  | 2330 | 0.17    |
| Unknown [m/z 107, 93 (87), 41 (83), 81 (82), 67 (80), 55 (76)... 204 (53), 207 (34), 222 (9)]              | 14.26*  | 1718 | [0.35]  | 17.19  | 2319 | 0.19    |
| Unknown [m/z 133, 148 (68), 147 (59), 91 (56),                                                             | 14.34   | 1724 | 0.21    | 17.43  | 2345 | 0.24    |

|                                                                                       |       |      |      |       |      |
|---------------------------------------------------------------------------------------|-------|------|------|-------|------|
| 79 (45), 105 (44)... 218 (8)]                                                         |       |      |      |       |      |
| Unknown [m/z 43, 83 (93), 55 (42), 41 (37), 121 (34), 111 (28)... 222? (1)]           | 14.56 | 1744 | 0.02 |       |      |
| Unknown [m/z 134, 107 (96), 91 (84), 93 (78), 79 (77), 41 (74), 43 (66), 77 (65)…]    | 14.65 | 1751 | 0.07 | 17.62 | 2365 |
| Unknown [m/z 43, 191 (68), 41 (62), 91 (51), 95 (49), 110 (44)... 234 (22)]           | 14.70 | 1755 | 0.13 |       |      |
| Unknown [m/z 91, 105 (88), 95 (79), 93 (78), 81 (72), 79 (66)... 205 (33), 220 (7)…]  | 14.77 | 1761 | 0.04 | 17.94 | 2400 |
| Unknown [m/z 149, 131 (54), 105 (48), 91 (46), 41 (30), 93 (27)... 218 (23)]          | 14.85 | 1768 | 0.04 | 17.66 | 2370 |
| Unknown [m/z 43, 95 (58), 67 (50), 41 (47), 55 (38), 109 (37)... 221 (9)... 236? (3)] | 15.04 | 1785 | 0.02 | 18.42 | 2454 |
| Unknown [m/z 219, 43 (67), 91 (46), 79 (42), 41 (41), 55 (36)... 234 (6)]             | 15.14 | 1794 | 0.02 |       | tr   |
| Unknown [m/z 43, 91 (77), 79 (74), 109 (73), 110 (71)... 218 (52), 234? (1)]          | 15.17 | 1796 | 0.10 | 17.86 | 2392 |
| Unknown [m/z 43, 91 (43), 41 (37), 79 (32), 219 (31)... 234 (14)]                     | 15.23 | 1801 | 0.06 | 20.92 | 2749 |
| Unknown [m/z 91, 41 (79), 43 (74), 79 (72), 105 (65), 77 (64), 147                    | 15.28 | 1805 | 0.05 | 17.56 | 2359 |
|                                                                                       |       |      |      |       | 0.02 |

| (64), 93 (61)...<br>218 (26), 234<br>(14)]                                                                                         |               |      |               |        |      |
|------------------------------------------------------------------------------------------------------------------------------------|---------------|------|---------------|--------|------|
| Unknown [m/z<br>43, 69 (60), 41<br>(55), 55 (40), 95<br>(33), 163 (27)...<br>234 (17)]                                             | 15.47         | 1823 | 0.02          | 20.23  | 2664 |
| Unknown [m/z<br>41, 110 (77), 55<br>(75), 69 (74), 43<br>(74), 95 (71), 97<br>(71), 123 (71), 67<br>(63), 136 (56)...<br>236? (7)] | 15.64         | 1838 | 0.07          | 21.05  | 2765 |
| Corymbolone<br>analog                                                                                                              | 15.77         | 1850 | 0.02          |        |      |
| Corymbolone                                                                                                                        | 15.98         | 1869 | 0.09          |        |      |
| Drima-7,9(11)-<br>diene?                                                                                                           |               |      |               | 9.79   | 1633 |
| Unknown [m/z<br>159, 91 (81), 117<br>(68), 131 (51),<br>105 (46)... 202<br>(37)]                                                   |               |      |               | 9.84   | 1638 |
| Unknown [m/z<br>43, 41 (59), 109<br>(57), 79 (54), 95<br>(53), 107 (49), 93<br>(48), 67 (48)...<br>205 (18), 220 (4)]              |               |      |               | 12.96* | 1903 |
| Unknown [m/z<br>163, 119 (50), 91<br>(48), 95 (47), 41<br>(44), 105 (41)...<br>220 (18)]                                           |               |      |               | 15.77  | 2172 |
| Unknown [m/z<br>91, 108 (86), 107<br>(85), 93 (80), 120<br>(75), 105 (71), 95<br>(72)... 218 (37)]                                 |               |      |               | 16.34* | 2230 |
| <b>Total identified</b>                                                                                                            | <b>93.75%</b> |      | <b>90.63%</b> |        |      |
| <b>Total reported</b>                                                                                                              | <b>97.93%</b> |      | <b>94.67%</b> |        |      |

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

t: 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