

Sample Information

Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 11/29/2018 8:53:21 PM  
 Sample Type : Essential Oil  
 Sample Name : Lavender Oil, France  
 Sample ID : Barefut-0103  
 Injection Volume : 0.10  
 Instrument ID : GC-3

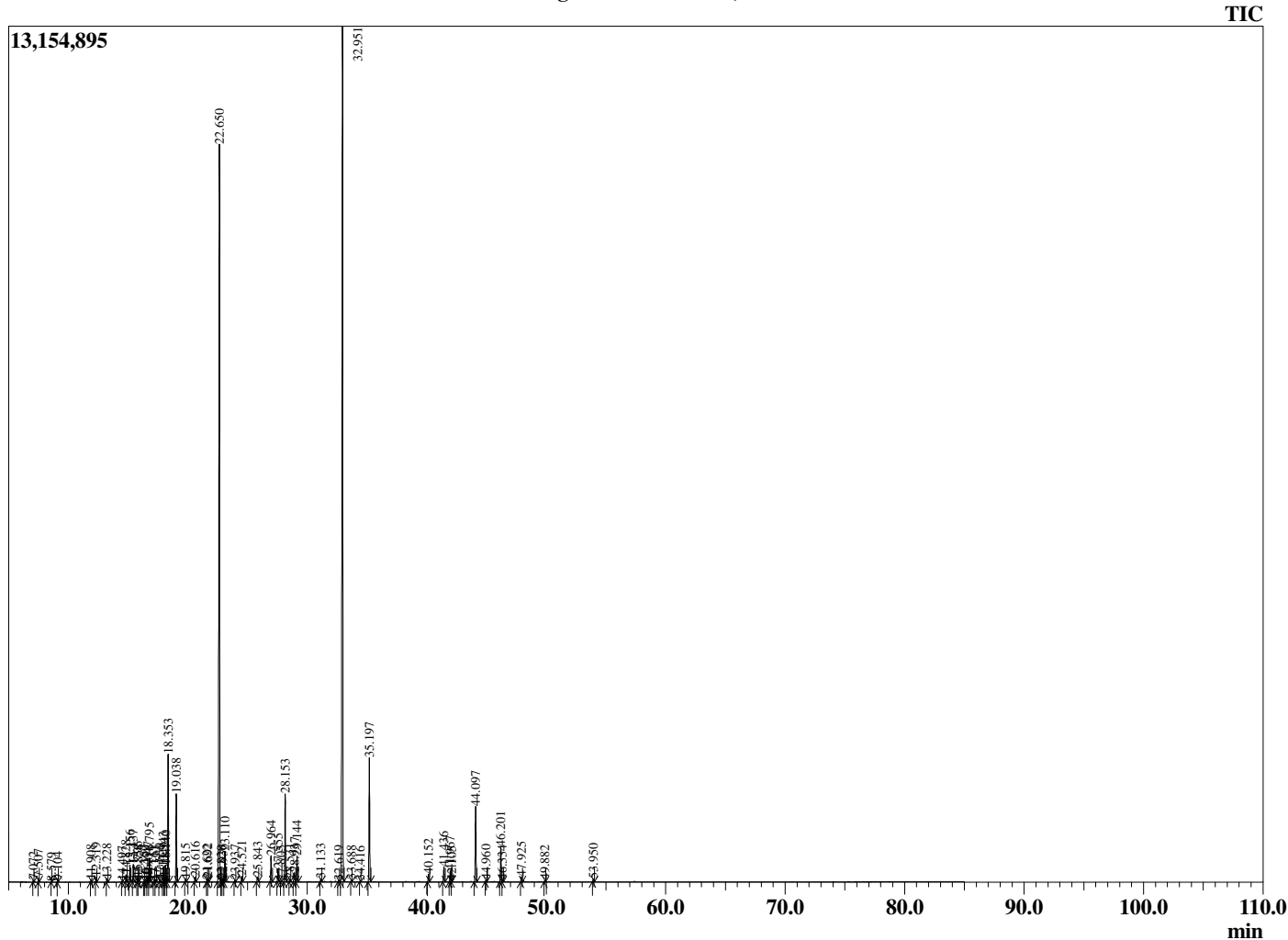


Peak Report TIC

| R.Time | Name                            | Area%  |
|--------|---------------------------------|--------|
| 7.072  | Butyl acetate                   | 0.04   |
| 7.507  | Hexyl methyl ether              | 0.08   |
| 8.579  | Hex-3(Z)-enol                   | 0.01   |
| 9.104  | n-Hexanol                       | 0.03   |
| 11.908 | alpha-Thujene                   | 0.06   |
| 12.319 | alpha-Pinene                    | 0.12   |
| 13.228 | Camphene                        | 0.10   |
| 14.497 | Sabinene                        | 0.02   |
| 14.828 | 1-Octen-3-ol                    | 0.23   |
| 15.156 | 3-Octanone                      | 0.50   |
| 15.437 | Myrcene                         | 0.55   |
| 15.796 | Butyl butyrate                  | 0.15   |
| 15.858 | 3-Octanol                       | 0.06   |
| 16.352 | Pseudolimonene                  | 0.02   |
| 16.499 | alpha-Phellandrene              | 0.03   |
| 16.647 | delta-3-Carene                  | 0.15   |
| 16.795 | Hexyl acetate                   | 0.73   |
| 17.161 | alpha-Terpinene                 | 0.03   |
| 17.313 | ortho-Cymene                    | 0.03   |
| 17.639 | para-Cymene                     | 0.11   |
| 17.943 | Limonene                        | 0.46   |
| 18.049 | beta-Phellandrene               | 0.14   |
| 18.140 | 1,8-Cineole                     | 0.52   |
| 18.353 | cis-beta-Ocimene                | 4.11   |
| 19.038 | trans-beta-Ocimene              | 2.85   |
| 19.815 | gamma-Terpinene                 | 0.09   |
| 20.616 | cis-Linalool oxide (furanoid)   | 0.18   |
| 21.622 | Terpinolene                     | 0.08   |
| 21.692 | trans-Linalool oxide (furanoid) | 0.13   |
| 22.650 | Linalool                        | 31.58  |
| 22.820 | Hotrienol                       | 0.06   |
| 22.936 | Hexyl propionate                | 0.09   |
| 23.110 | 1-Octen-3-yl acetate            | 1.03   |
| 23.937 | 3-Octyl acetate                 | 0.06   |
| 24.521 | allo-Ocimene                    | 0.19   |
| 25.843 | Camphor                         | 0.24   |
| 26.964 | Lavandulol                      | 0.92   |
| 27.555 | Borneol                         | 0.46   |
| 27.805 | Undeca-1,3,5-triene             | 0.02   |
| 28.153 | Terpinen-4-ol                   | 3.24   |
| 28.531 | Cryptone                        | 0.10   |
| 28.937 | Hexyl butyrate                  | 0.38   |
| 29.144 | alpha-Terpineol                 | 0.95   |
| 31.133 | Nerol                           | 0.11   |
| 32.619 | Unidentified                    | 0.05   |
| 32.951 | Linalyl acetate                 | 37.62  |
| 33.688 | Unidentified                    | 0.05   |
| 34.416 | Isopulegyl acetate              | 0.02   |
| 35.197 | Lavandulyl acetate              | 4.83   |
| 40.152 | Neryl acetate                   | 0.29   |
| 41.436 | Geranyl acetate                 | 0.57   |
| 41.967 | Hexyl hexanoate                 | 0.42   |
| 42.105 | 7-epi-Sesquithujene             | 0.02   |
| 44.097 | beta-Caryophyllene              | 3.22   |
| 44.960 | trans-alpha-Bergamotene         | 0.06   |
| 46.201 | trans-beta-Farnesene            | 1.42   |
| 46.334 | alpha-Humulene                  | 0.06   |
| 47.925 | Germacrene D                    | 0.20   |
| 49.882 | gamma-Cadinene                  | 0.05   |
| 53.950 | Caryophyllene oxide             | 0.12   |
|        |                                 | 100.00 |

This report is valid for 1 year from the analyzed date.

Chromatogram Lavender Oil, France



Comments:

The analysis of this Lavender France batch sample meets the expected chemical profile for authentic essential oil of *Lavandula angustifolia*. No contamination or adulteration was detected.