

## Sample Information

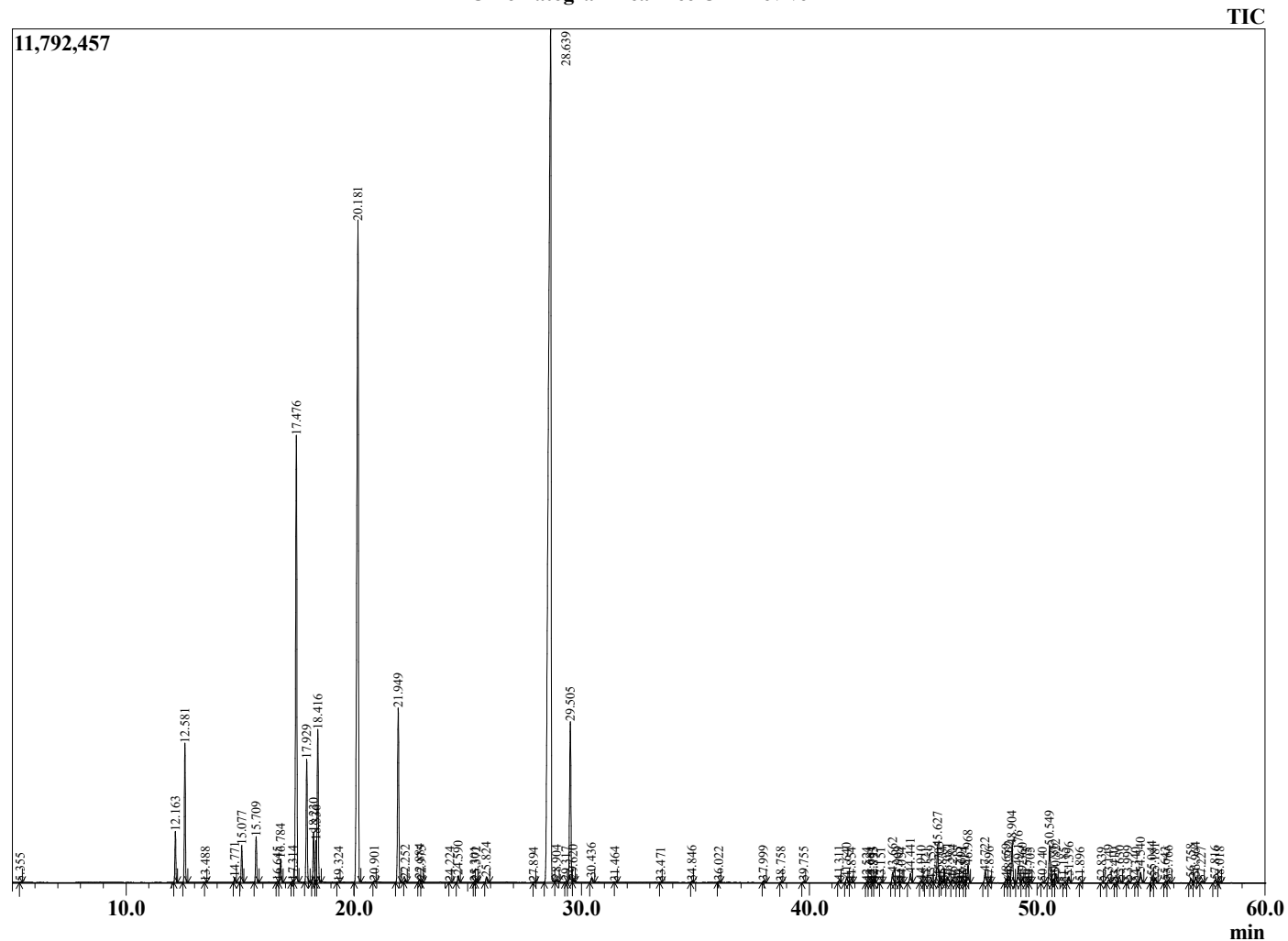
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 2/4/2023 7:54:45 AM  
 Sample Type : Essential Oil  
 Sample Name : Tea Tree Oil - Revive  
 Sample ID : 3V  
 Injection Volume : 0.10  
 Instrument ID: : GC-3



## Peak Report TIC

| R.Time | Name                       | Area% |
|--------|----------------------------|-------|
| 4.219  | 2-Methylbutanal            | 0.02  |
| 5.355  | Isobutyric acid            | 0.01  |
| 12.163 | alpha-Thujene              | 0.87  |
| 12.581 | alpha-Pinene               | 2.51  |
| 13.488 | Camphene                   | 0.01  |
| 14.771 | Sabinene                   | 0.09  |
| 15.077 | beta-Pinene                | 0.71  |
| 15.709 | Myrcene                    | 0.88  |
| 16.645 | Unidentified               | 0.02  |
| 16.784 | alpha-Phellandrene         | 0.47  |
| 17.314 | 1,4-Cineole                | 0.03  |
| 17.476 | alpha-Terpinene            | 10.13 |
| 17.929 | para-Cymene                | 2.52  |
| 18.230 | Limonene                   | 1.05  |
| 18.336 | beta-Phellandrene          | 0.80  |
| 18.416 | 1,8-Cineole                | 3.26  |
| 19.324 | trans-beta-Ocimene         | 0.01  |
| 20.181 | gamma-Terpinene            | 19.17 |
| 20.901 | trans-Sabinene hydrate     | 0.03  |
| 21.949 | Terpinolene                | 3.95  |
| 22.252 | para-Cymenene              | 0.05  |
| 22.884 | Linalool                   | 0.07  |
| 22.975 | cis-Sabinene hydrate       | 0.04  |
| 24.224 | endo-Fenchol               | 0.01  |
| 24.590 | cis-para-Menth-2-en-1-ol   | 0.15  |
| 25.301 | Unidentified               | 0.01  |
| 25.372 | Terpin-3-en-1-ol           | 0.02  |
| 25.824 | trans-para-Menth-2-en-1-ol | 0.13  |
| 27.894 | Isoborneol                 | 0.01  |
| 28.639 | Terpinen-4-ol              | 40.38 |
| 28.904 | para-Cymen-8-ol            | 0.06  |
| 29.317 | Unidentified               | 0.02  |
| 29.505 | alpha-Terpineol            | 3.90  |
| 29.620 | cis-Piperitol              | 0.05  |
| 30.436 | trans-Piperitol            | 0.11  |
| 31.464 | Nerol                      | 0.01  |
| 33.471 | Piperitone                 | 0.01  |
| 34.846 | cis-Ascrinol glycol        | 0.03  |
| 36.022 | trans-Ascrinol glycol      | 0.03  |
| 37.999 | Unidentified               | 0.04  |
| 38.758 | delta-Elementene           | 0.02  |
| 39.755 | alpha-Cubebene             | 0.03  |
| 41.311 | Isoledene                  | 0.05  |
| 41.640 | alpha-Copaene              | 0.13  |
| 41.854 | Unidentified               | 0.02  |
| 42.524 | beta-Elementene            | 0.02  |
| 42.681 | Vanillin                   | 0.02  |
| 42.793 | Unidentified               | 0.03  |
| 42.835 | Unidentified               | 0.01  |
| 43.151 | Methyleugenol              | 0.02  |
| 43.662 | alpha-Gurjunene            | 0.28  |
| 43.909 | Gurjunene isomer           | 0.04  |
| 44.054 | Unidentified               | 0.02  |
| 44.441 | beta-Caryophyllene         | 0.26  |
| 44.910 | gamma-Maaliene             | 0.06  |
| 45.121 | Calarene                   | 0.01  |
| 45.359 | alpha-Maaliene             | 0.07  |
| 45.627 | beta-Copaene               | 0.99  |
| 45.705 | Unidentified               | 0.16  |
| 45.834 | Unidentified               | 0.02  |
| 46.081 | alpha-Guaiene              | 0.15  |
| 46.284 | trans-Murrola-3,5-diene    | 0.09  |

## Chromatogram Tea Tree Oil - Revive



## Comments:

The analysis of this Tea Tree batch sample meets the expected chemical profile for authentic essential oil of *Melaleuca alternifolia*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.

| R.Time | Name                      | Area%  |
|--------|---------------------------|--------|
| 46.515 | Valerna-4,7(11)-diene     | 0.03   |
| 46.691 | alpha-Humulene            | 0.07   |
| 46.814 | Unidentified              | 0.01   |
| 46.968 | Alloaromodendrene         | 0.46   |
| 47.722 | cis-Murrola-4(14),5-diene | 0.32   |
| 47.896 | gamma-Murolene            | 0.03   |
| 48.659 | delta-Selinene            | 0.12   |
| 48.762 | beta-Selinene             | 0.20   |
| 48.904 | Viridiflorene             | 0.99   |
| 49.176 | Bicyclgermacrene          | 0.50   |
| 49.360 | alpha-Murolene            | 0.13   |
| 49.575 | Unidentified              | 0.02   |
| 49.705 | Unidentified              | 0.02   |
| 50.240 | gamma-Cadinene            | 0.02   |
| 50.549 | delta-Cadinene            | 0.98   |
| 50.736 | cis-Calamenene            | 0.10   |
| 50.822 | Zonarene                  | 0.24   |
| 51.185 | Unidentified              | 0.01   |
| 51.396 | trans-Cadina-1,4-diene    | 0.16   |
| 51.896 | alpha-Calacorene          | 0.01   |
| 52.839 | Unidentified              | 0.01   |
| 53.149 | Unidentified              | 0.09   |
| 53.410 | Unidentified              | 0.01   |
| 53.630 | Palustrol                 | 0.08   |
| 53.999 | Spathulenol               | 0.06   |
| 54.340 | Unidentified              | 0.01   |
| 54.540 | Viridiflorol              | 0.31   |
| 55.044 | Globulol                  | 0.18   |
| 55.181 | Guaiol                    | 0.13   |
| 55.643 | Ledol                     | 0.04   |
| 55.766 | Rosifoliol                | 0.07   |
| 56.758 | Unidentified              | 0.12   |
| 56.964 | 1-epi-Cubenol             | 0.16   |
| 57.227 | Unidentified              | 0.05   |
| 57.816 | Unidentified              | 0.09   |
| 58.018 | alpha-Murolene            | 0.03   |
|        |                           | 100.00 |