

Sample Information

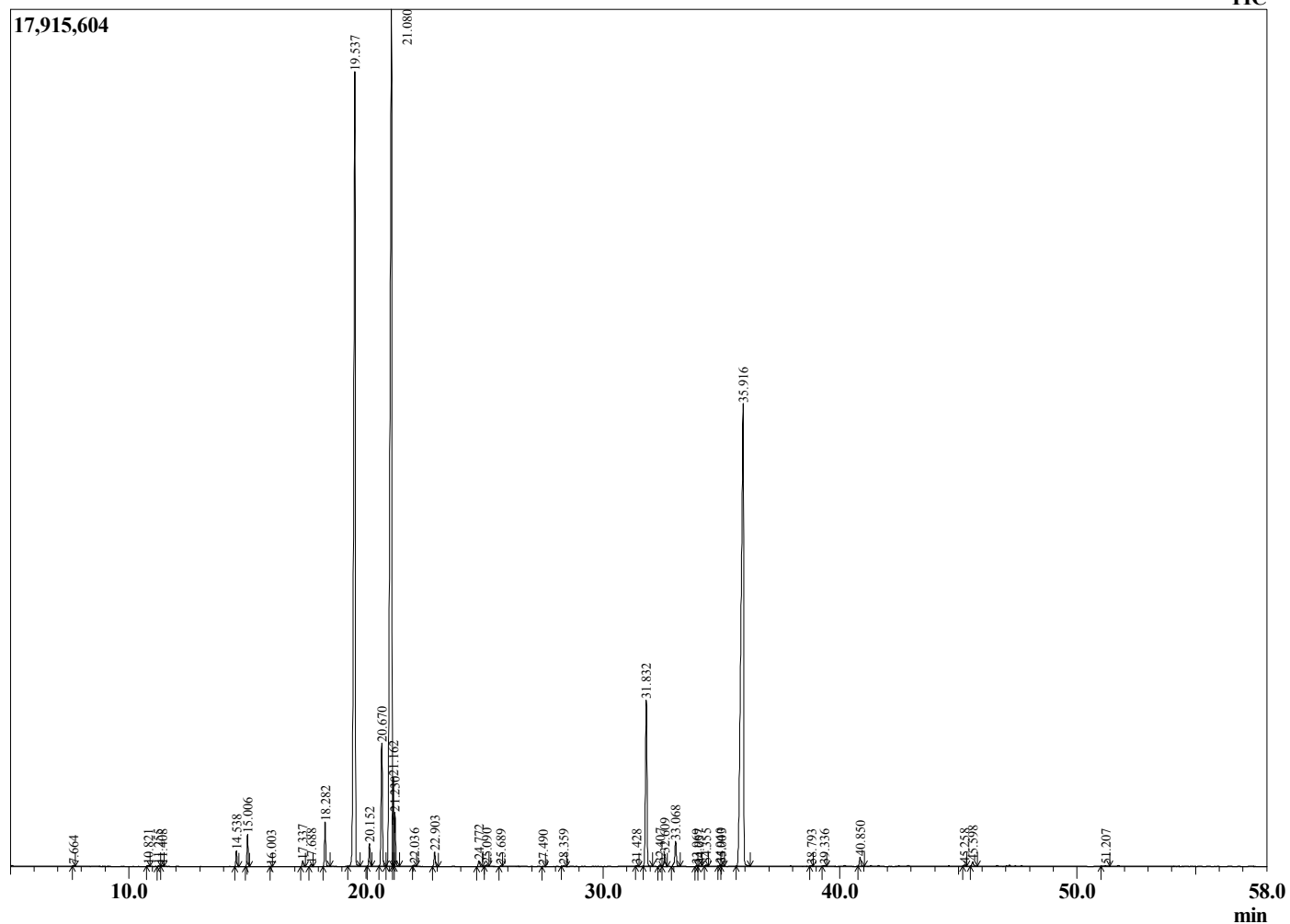
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 10/9/2020 9:44:23 AM
 Sample Type : Essential Oil
 Sample Name : Dill Weed -IOAROMA
 Sample ID : BA29IO
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

| R.Time | Name | Area% |
|--------|-----------------------|--------|
| 7.664 | Toluene | 0.02 |
| 10.821 | (Z)-3-Hexenol | 0.02 |
| 11.255 | (E)-2-Hexenol | 0.02 |
| 11.408 | Hexanol | 0.03 |
| 14.538 | alpha-Thujene | 0.35 |
| 15.006 | alpha-Pinene | 0.71 |
| 16.003 | Camphene | 0.01 |
| 17.337 | Sabinene | 0.14 |
| 17.688 | beta-Pinene | 0.06 |
| 18.282 | Myrcene | 1.07 |
| 19.537 | alpha-Phellandrene | 25.84 |
| 20.152 | alpha-Terpinene | 0.56 |
| 20.670 | para-Cymene | 3.47 |
| 21.080 | Limonene | 33.42 |
| 21.162 | beta-Phellandrene | 1.82 |
| 21.230 | 1,8-Cineole | 1.11 |
| 22.036 | (E)-beta-Ocimene | 0.03 |
| 22.903 | gamma-Terpinene | 0.37 |
| 24.772 | Terpinolene | 0.16 |
| 25.090 | para-Cymenene | 0.04 |
| 25.689 | Linalool | 0.02 |
| 27.490 | cis-p-Menth-2-en-1-ol | 0.02 |
| 28.359 | trans-Limonene oxide | 0.03 |
| 31.428 | Terpinen-4-ol | 0.02 |
| 31.832 | Dill Ether | 4.88 |
| 32.407 | Unidentified | 0.05 |
| 32.609 | (Z)-dihydro-Carvone | 0.34 |
| 33.068 | (E)-dihydro-Carvone | 0.79 |
| 33.969 | Unidentified | 0.03 |
| 34.057 | trans-Carveol | 0.04 |
| 34.355 | Unidentified | 0.04 |
| 34.940 | Unidentified | 0.03 |
| 35.003 | cis-Carveol | 0.05 |
| 35.916 | Carvone | 23.88 |
| 38.793 | Unidentified | 0.02 |
| 39.336 | Unidentified | 0.03 |
| 40.850 | Unidentified | 0.27 |
| 45.258 | Unidentified | 0.04 |
| 45.598 | Unidentified | 0.14 |
| 51.207 | Germacrene D | 0.03 |
| | | 100.00 |

Chromatogram Dill Weed - BIOAROMA



Comments:

The analysis of this Dill Weed batch sample meets the expected chemical profile for authentic essential oil of *Anethum graveolens*. 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.

Sample Information

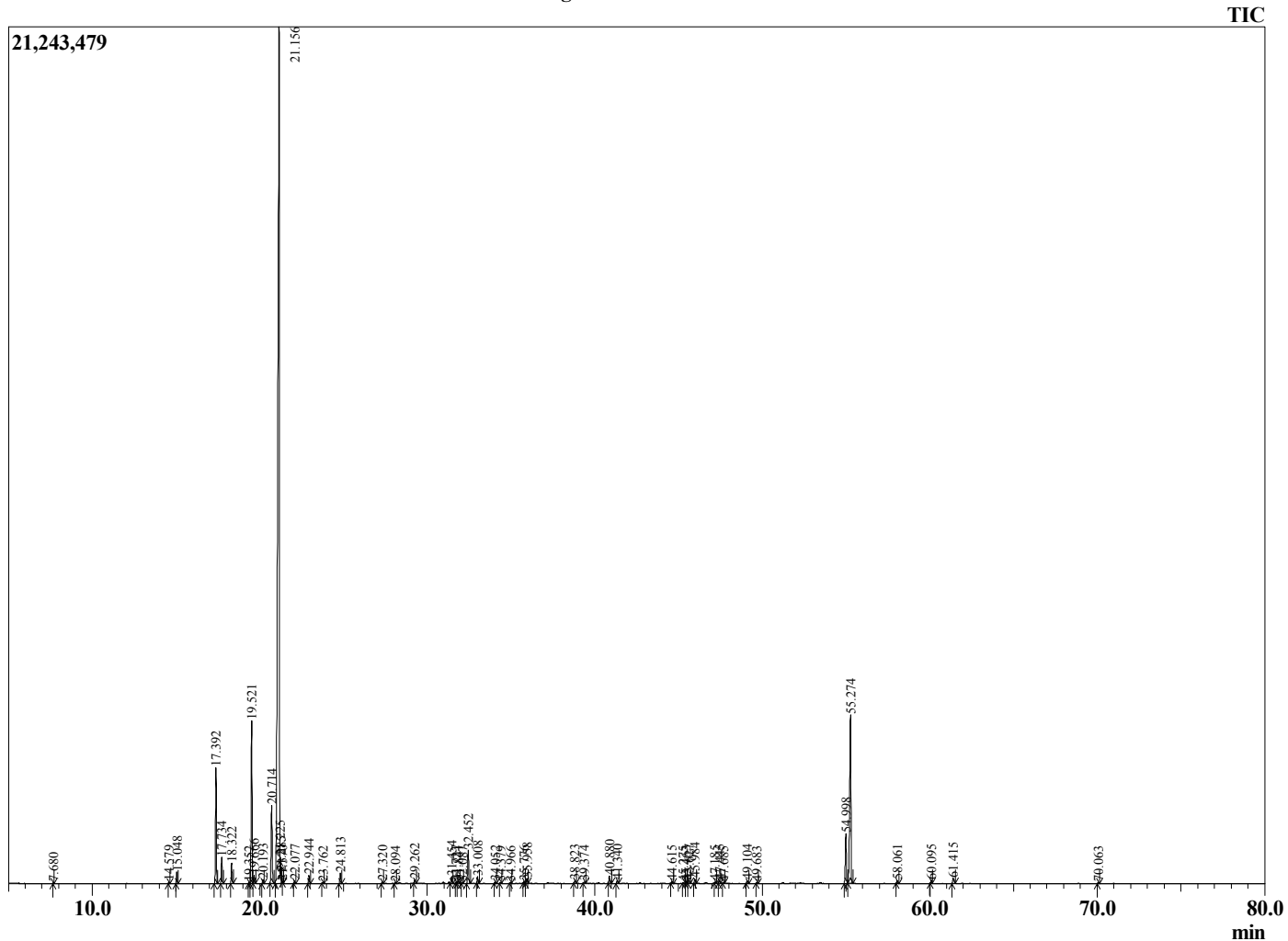
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/13/2020 3:20:13 PM
 Sample Type : Essential Oil
 Sample Name : Elemi - BIOAROMA
 Sample ID : BA18FQ
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

| R.Time | Name | Area% |
|--------|----------------------------|--------|
| 7.680 | Toluene | 0.02 |
| 14.579 | alpha-Thujene | 0.06 |
| 15.048 | alpha-Pinene | 0.41 |
| 17.392 | Sabinene | 4.42 |
| 17.734 | beta-Pinene | 0.98 |
| 18.322 | Myrcene | 0.80 |
| 19.352 | Pseudolimonene | 0.03 |
| 19.521 | alpha-Phellandrene | 6.67 |
| 19.666 | 3-Carene | 0.32 |
| 20.193 | alpha-Terpinene | 0.16 |
| 20.714 | para-Cymene | 3.85 |
| 21.156 | Limonene | 63.81 |
| 21.225 | beta-Phellandrene | 0.12 |
| 21.285 | 1,8-Cineole | 0.08 |
| 21.370 | (Z)-beta-Ocimene | 0.01 |
| 22.077 | (E)-beta-Ocimene | 0.10 |
| 22.944 | gamma-Terpinene | 0.32 |
| 23.762 | trans-Sabinene hydrate | 0.04 |
| 24.813 | Terpinolene | 0.44 |
| 27.320 | trans-p-Mentha-2,8-dienol | 0.05 |
| 28.094 | cis-Limonene oxide | 0.05 |
| 29.262 | Unidentified | 0.17 |
| 31.454 | Terpinen-4-ol | 0.27 |
| 31.727 | Unidentified | 0.06 |
| 31.841 | para-Cymen-8-ol | 0.10 |
| 32.087 | Unidentified | 0.03 |
| 32.452 | alpha-Terpineol | 1.53 |
| 33.008 | alpha-Phellandrene epoxide | 0.30 |
| 34.052 | trans-Carveol | 0.07 |
| 34.379 | Unidentified | 0.04 |
| 34.966 | cis-Carveol | 0.05 |
| 35.776 | Carvone | 0.07 |
| 35.958 | Unidentified | 0.23 |
| 38.823 | Unidentified | 0.13 |
| 39.374 | Unidentified | 0.06 |
| 40.880 | Unidentified | 0.32 |
| 41.340 | Unidentified | 0.13 |
| 44.615 | alpha-Copaene | 0.08 |
| 45.275 | Unidentified | 0.02 |
| 45.463 | beta-Elemene | 0.06 |
| 45.627 | Unidentified | 0.14 |
| 45.984 | Methyleugenol | 0.17 |
| 47.185 | Unidentified | 0.06 |
| 47.445 | trans-beta-Caryophyllene | 0.14 |
| 47.685 | Unidentified | 0.03 |
| 49.104 | Unidentified | 0.12 |
| 49.683 | alpha-Humulene | 0.05 |
| 54.998 | Elemicin | 2.40 |
| 55.274 | Elemol | 9.80 |
| 58.061 | Guaiol | 0.11 |
| 60.095 | gamma-Eudesmol | 0.14 |
| 61.415 | alpha-Eudesmol | 0.34 |
| 70.063 | Unidentified | 0.04 |
| | | 100.00 |

Chromatogram Elemi - BIOAROMA



Comments:

The analysis of this Elemi batch sample meets the expected chemical profile for authentic essential oil of *Canarium luzonicum*. 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.

Sample Information

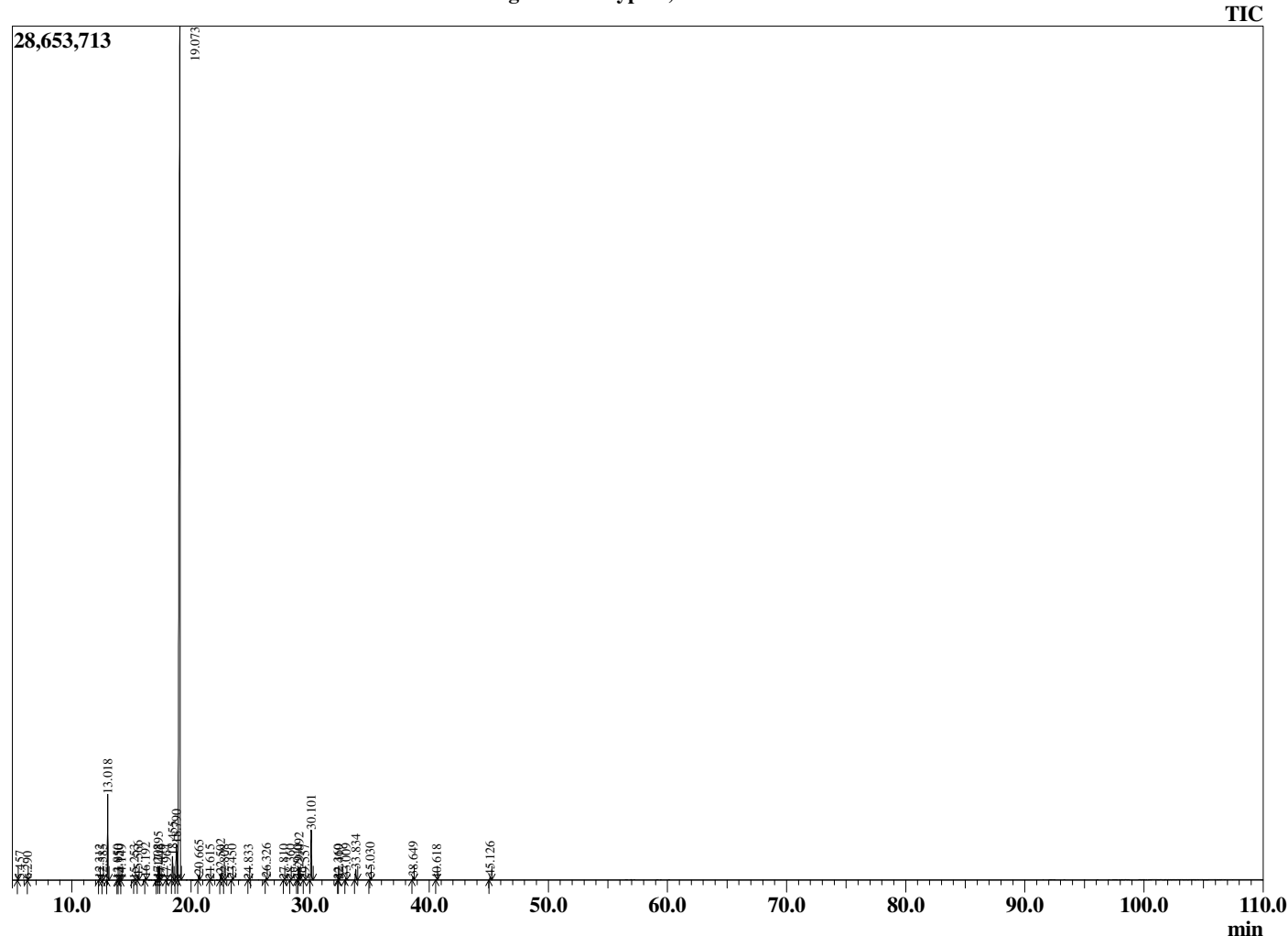
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 8/20/2020 9:36:44 PM
 Sample Type : Essential Oil
 Sample Name : Eucalyptus, Blue -BIOAROMA
 Sample ID : BA08GF
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|------------------------------------|--------|
| 4.240 | 3-Methylbutanal | 0.10 |
| 5.457 | Isoamyl alcohol | 0.01 |
| 6.290 | Toluene | 0.00 |
| 12.312 | Hashishene | 0.04 |
| 12.585 | alpha-Thujene | 0.01 |
| 13.018 | alpha-Pinene | 4.27 |
| 13.850 | alpha-Fenchene | 0.01 |
| 13.950 | Camphene | 0.03 |
| 14.149 | Thuja-2,4(10)diene | 0.01 |
| 15.253 | Unidentified | 0.02 |
| 15.566 | beta-Pinene | 0.21 |
| 16.192 | Myrcene | 0.12 |
| 17.208 | Unidentified | 0.05 |
| 17.295 | alpha-Phellandrene | 0.73 |
| 17.446 | delta-3-Carene | 0.03 |
| 17.964 | alpha-Terpinene | 0.02 |
| 18.455 | para-Cymene | 1.51 |
| 18.790 | Limonene | 3.29 |
| 19.073 | 1,8-cineole | 83.14 |
| 20.665 | gamma-Terpinene | 0.30 |
| 21.615 | Unidentified | 0.01 |
| 22.502 | Terpinolene | 0.35 |
| 22.808 | para-Cymenene | 0.04 |
| 23.450 | Linalool | 0.04 |
| 24.833 | alpha-Fenchol | 0.01 |
| 26.326 | trans-Pinocarveol | 0.10 |
| 27.810 | Pinocarvone | 0.02 |
| 28.360 | delta-Terpineol | 0.03 |
| 28.940 | Unidentified | 0.01 |
| 29.092 | Terpinen-4-ol | 0.80 |
| 29.557 | trans-para-mentha-1(7),8-dien-2-ol | 0.04 |
| 30.101 | alpha-Terpineol | 3.21 |
| 32.360 | Unidentified | 0.01 |
| 32.419 | Unidentified | 0.01 |
| 33.009 | Neral | 0.10 |
| 33.834 | Geraniol | 0.70 |
| 35.030 | Geraniol | 0.16 |
| 38.649 | Methyl geranate | 0.19 |
| 40.618 | Eugenol | 0.01 |
| 45.126 | beta-Caryophyllene | 0.25 |
| | | 100.00 |

Chromatogram Eucalyptus, Blue - BIOAROMA



Comments:

The analysis of this Eucalyptus, blue batch sample meets the expected chemical profile for authentic essential oil of *Eucalyptus bicostata*. 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.

Sample Information

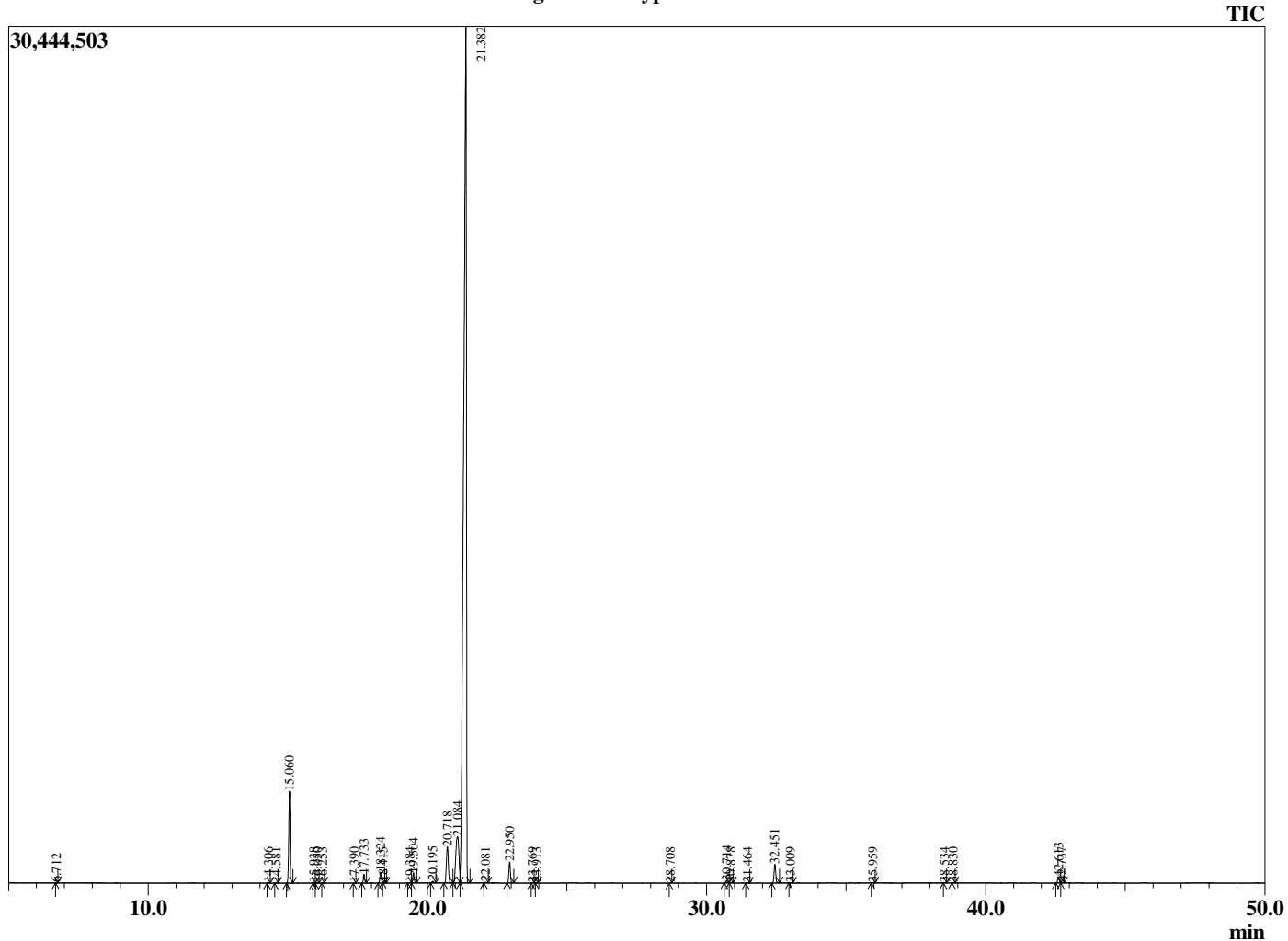
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/13/2020 3:27:22 AM
 Sample Type : Essential Oil
 Sample Name : Eucalyptus -BIOAROMA
 Sample ID : BA18FR
 Injection Volume : 0.10
 Instrument ID: : GC-2



Peak Report TIC

| R.Time | Name | Area% |
|--------|-------------------------------|--------|
| 6.712 | Isoamyl alcohol | 0.00 |
| 14.306 | Hashishene | 0.01 |
| 14.581 | alpha-Thujene | 0.02 |
| 15.060 | alpha-Pinene | 4.29 |
| 15.938 | alpha-Pinene | 0.01 |
| 16.050 | Camphene | 0.03 |
| 16.253 | Thuja-2,4(10)diene | 0.01 |
| 17.390 | Unidentified | 0.01 |
| 17.733 | beta-Pinene | 0.44 |
| 18.324 | Myrcene | 0.61 |
| 18.415 | Herboxide isomer | 0.00 |
| 19.384 | Herboxide isomer | 0.04 |
| 19.504 | alpha-Phellandrene | 0.51 |
| 20.195 | alpha-Terpinene | 0.09 |
| 20.718 | para-Cymene | 2.61 |
| 21.084 | Limonene | 5.23 |
| 21.382 | 1,8-cineole | 83.21 |
| 22.081 | trans-beta-Ocimene | 0.03 |
| 22.950 | gamma-Terpinene | 1.13 |
| 23.769 | cis-Linalool oxide (furanoid) | 0.01 |
| 23.913 | Pinol | 0.01 |
| 28.708 | trans-Pinocarveol | 0.01 |
| 30.714 | delta-Terpineol | 0.13 |
| 30.878 | Borneol | 0.02 |
| 31.464 | Terpinen-4-ol | 0.02 |
| 32.451 | alpha-Terpineol | 1.11 |
| 33.009 | alpha-Phellandrene epoxide | 0.02 |
| 35.959 | Unidentified | 0.02 |
| 38.534 | Bornyl acetate | 0.01 |
| 38.830 | Unidentified | 0.01 |
| 42.613 | alpha-Terpinyl acetate | 0.34 |
| 42.737 | gamma-Terpinyl acetate | 0.04 |
| | | 100.00 |

Chromatogram Eucalyptus -BIOAROMA



Comments:

The analysis of this Eucalyptus batch sample meets the expected chemical profile for authentic essential oil of *Eucalyptus globulus*. 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.

Sample Information

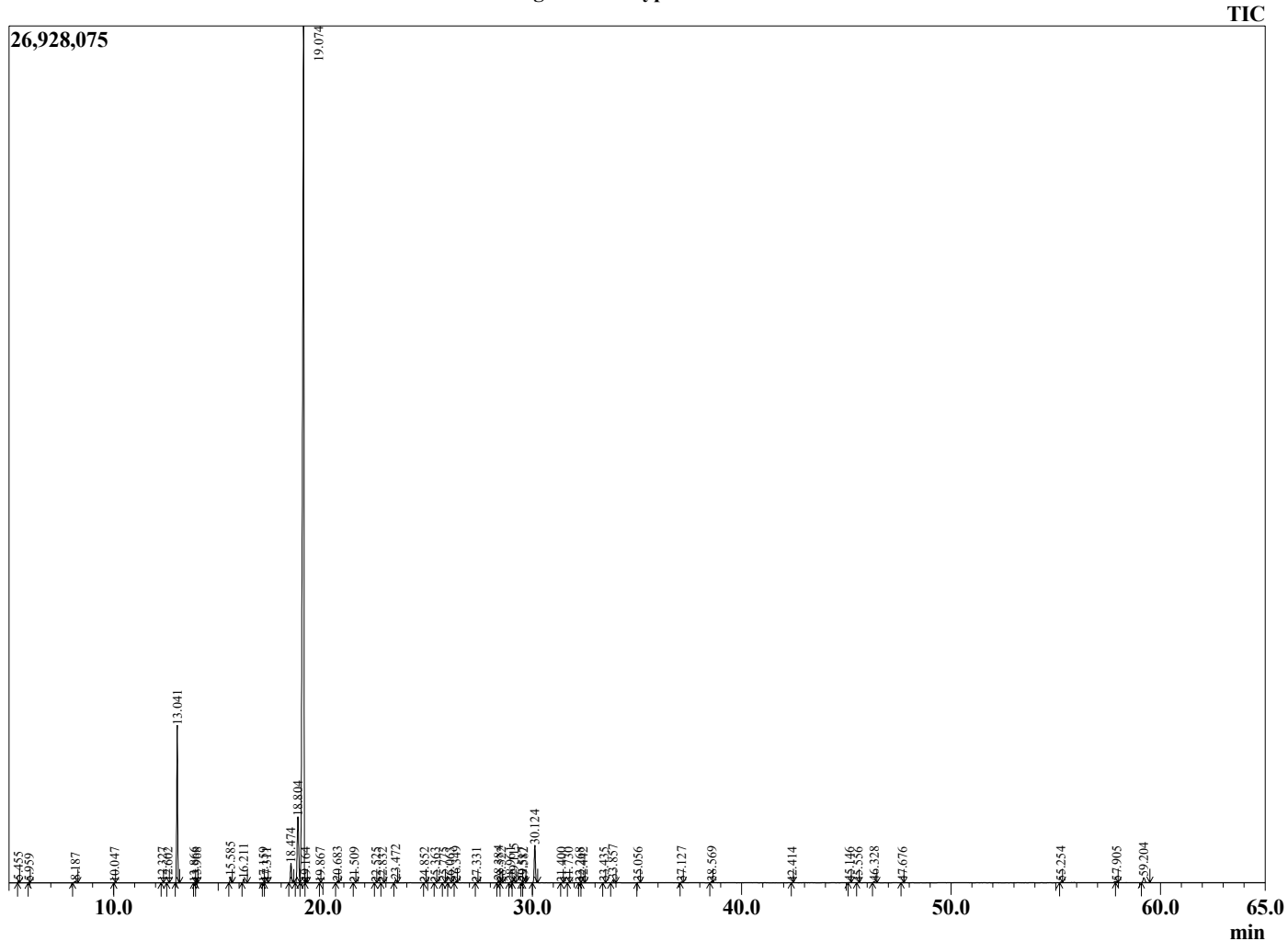
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/12/2020 12:11:43 AM
 Sample Type : Essential Oil
 Sample Name : Eucalyptus - BIOAROMA
 Sample ID : BA18FS
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|---------------------------------|--------|
| 5.455 | 1-Pentanol | 0.09 |
| 5.959 | Unidentified | 0.03 |
| 8.187 | Isovaleric acid | 0.16 |
| 10.047 | Isopentyl acetate | 0.01 |
| 12.327 | Hashishene | 0.03 |
| 12.602 | alpha-Thujene | 0.04 |
| 13.041 | alpha-Pinene | 8.89 |
| 13.866 | alpha-Fenchene | 0.01 |
| 13.968 | Camphene | 0.03 |
| 15.585 | beta-Pinene | 0.37 |
| 16.211 | Myrcene | 0.26 |
| 17.159 | Pseudolimonene | 0.02 |
| 17.311 | alpha-Phellandrene | 0.04 |
| 18.474 | para-Cymene | 1.36 |
| 18.804 | Limonene | 6.04 |
| 19.074 | 1,8-cineole | 77.09 |
| 19.164 | cis-beta-Ocimene | 0.02 |
| 19.867 | trans-beta-Ocimene | 0.00 |
| 20.683 | gamma-Terpinene | 0.09 |
| 21.509 | trans-Linalool oxide (furanoid) | 0.02 |
| 22.525 | Terpinolene | 0.03 |
| 22.832 | para-Cymenene | 0.03 |
| 23.472 | Linalool | 0.22 |
| 24.852 | alpha-Fenchol | 0.02 |
| 25.363 | Unidentified | 0.02 |
| 25.775 | cis-Limonene oxide | 0.03 |
| 26.063 | trans-Limonene oxide | 0.03 |
| 26.349 | trans-Pinocarveol | 0.09 |
| 27.331 | Unidentified | 0.02 |
| 28.384 | delta-Terpineol | 0.12 |
| 28.522 | Borneol | 0.02 |
| 28.961 | Unidentified | 0.07 |
| 29.115 | Terpinen-4-ol | 0.33 |
| 29.517 | para-Cymen-8-ol | 0.03 |
| 29.582 | trans-p-Mentha-1(7),8-dien-2-ol | 0.05 |
| 30.124 | alpha-Terpineol | 2.80 |
| 31.400 | Unidentified | 0.02 |
| 31.730 | trans-Carveol | 0.02 |
| 32.268 | Nerol | 0.02 |
| 32.442 | cis-p-Mentha-1(7),8-dien-2-ol | 0.04 |
| 33.435 | Carvone | 0.03 |
| 33.857 | Geraniol | 0.24 |
| 35.056 | Geranial | 0.04 |
| 37.127 | Unidentified | 0.04 |
| 38.569 | Unidentified | 0.09 |
| 42.414 | Geranyl acetate | 0.02 |
| 45.146 | beta-Caryophyllene | 0.02 |
| 45.556 | Unidentified | 0.02 |
| 46.328 | Aromadendrene | 0.10 |
| 47.676 | Alloaromadendrene | 0.03 |
| 55.254 | Globulol | 0.06 |
| 57.905 | gamma-Eudesmol | 0.11 |
| 59.204 | beta-Eudesmol | 0.57 |
| | | 100.00 |

Chromatogram Eucalyptus - BIOAROMA



Comments:

The analysis of this Eucalyptus radiatabatch sample meets the expected chemical profile for authentic essential oil of *Eucalyptus radiata*. 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.

Sample Information

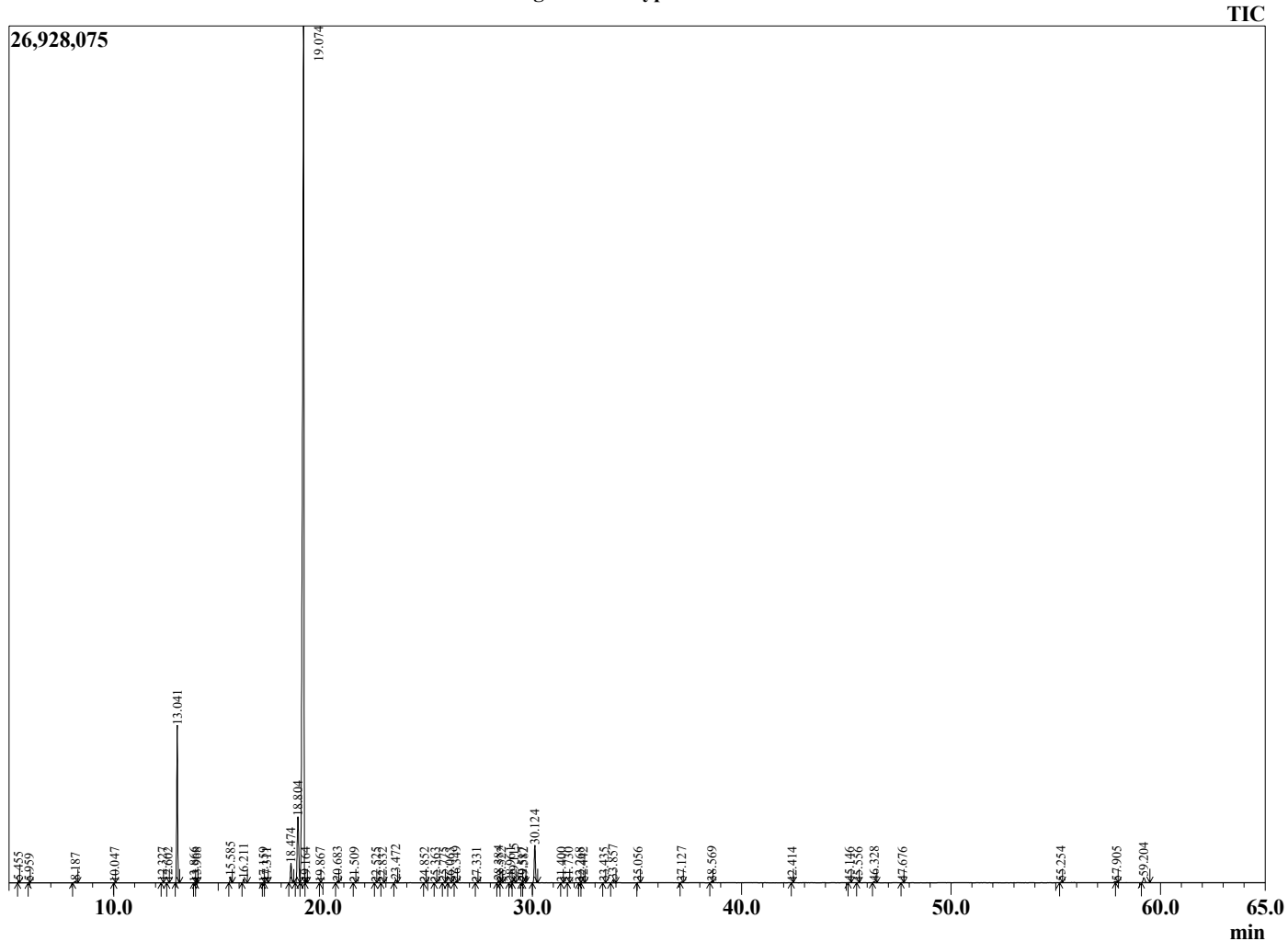
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/12/2020 12:11:43 AM
 Sample Type : Essential Oil
 Sample Name : Eucalyptus - BIOAROMA
 Sample ID : BA18FS
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|---------------------------------|--------|
| 5.455 | 1-Pentanol | 0.09 |
| 5.959 | Unidentified | 0.03 |
| 8.187 | Isovaleric acid | 0.16 |
| 10.047 | Isopentyl acetate | 0.01 |
| 12.327 | Hashishene | 0.03 |
| 12.602 | alpha-Thujene | 0.04 |
| 13.041 | alpha-Pinene | 8.89 |
| 13.866 | alpha-Fenchene | 0.01 |
| 13.968 | Camphene | 0.03 |
| 15.585 | beta-Pinene | 0.37 |
| 16.211 | Myrcene | 0.26 |
| 17.159 | Pseudolimonene | 0.02 |
| 17.311 | alpha-Phellandrene | 0.04 |
| 18.474 | para-Cymene | 1.36 |
| 18.804 | Limonene | 6.04 |
| 19.074 | 1,8-cineole | 77.09 |
| 19.164 | cis-beta-Ocimene | 0.02 |
| 19.867 | trans-beta-Ocimene | 0.00 |
| 20.683 | gamma-Terpinene | 0.09 |
| 21.509 | trans-Linalool oxide (furanoid) | 0.02 |
| 22.525 | Terpinolene | 0.03 |
| 22.832 | para-Cymenene | 0.03 |
| 23.472 | Linalool | 0.22 |
| 24.852 | alpha-Fenchol | 0.02 |
| 25.363 | Unidentified | 0.02 |
| 25.775 | cis-Limonene oxide | 0.03 |
| 26.063 | trans-Limonene oxide | 0.03 |
| 26.349 | trans-Pinocarveol | 0.09 |
| 27.331 | Unidentified | 0.02 |
| 28.384 | delta-Terpineol | 0.12 |
| 28.522 | Borneol | 0.02 |
| 28.961 | Unidentified | 0.07 |
| 29.115 | Terpinen-4-ol | 0.33 |
| 29.517 | para-Cymen-8-ol | 0.03 |
| 29.582 | trans-p-Mentha-1(7),8-dien-2-ol | 0.05 |
| 30.124 | alpha-Terpineol | 2.80 |
| 31.400 | Unidentified | 0.02 |
| 31.730 | trans-Carveol | 0.02 |
| 32.268 | Nerol | 0.02 |
| 32.442 | cis-p-Mentha-1(7),8-dien-2-ol | 0.04 |
| 33.435 | Carvone | 0.03 |
| 33.857 | Geraniol | 0.24 |
| 35.056 | Geranial | 0.04 |
| 37.127 | Unidentified | 0.04 |
| 38.569 | Unidentified | 0.09 |
| 42.414 | Geranyl acetate | 0.02 |
| 45.146 | beta-Caryophyllene | 0.02 |
| 45.556 | Unidentified | 0.02 |
| 46.328 | Aromadendrene | 0.10 |
| 47.676 | Alloaromadendrene | 0.03 |
| 55.254 | Globulol | 0.06 |
| 57.905 | gamma-Eudesmol | 0.11 |
| 59.204 | beta-Eudesmol | 0.57 |
| | | 100.00 |

Chromatogram Eucalyptus - BIOAROMA



Comments:

The analysis of this Eucalyptus batch sample meets the expected chemical profile for authentic essential oil of *Eucalyptus smithii*. 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.

Sample Information

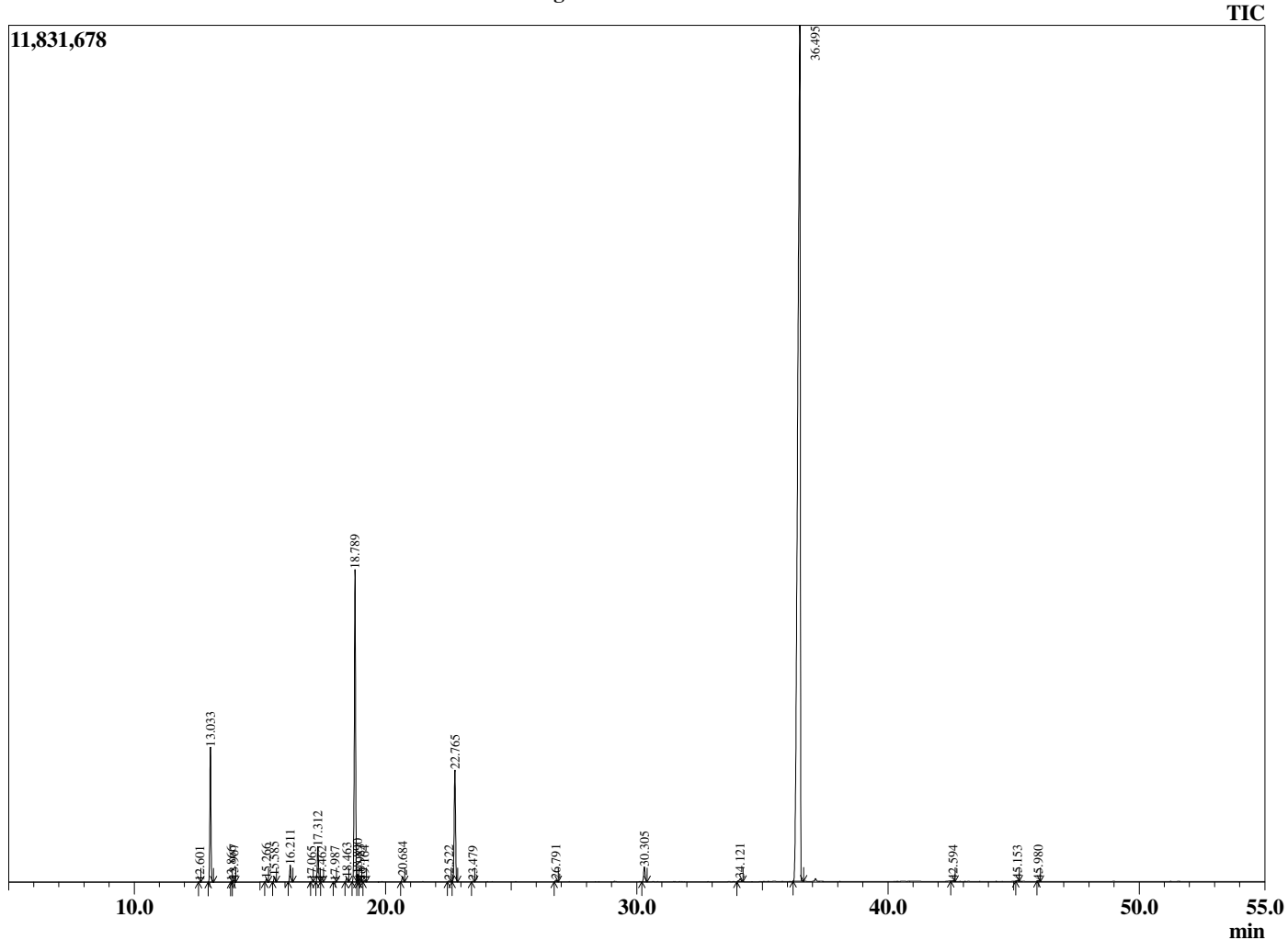
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/12/2020 12:00:51 PM
 Sample Type : Essential Oil
 Sample Name : Fennel -BIOAROMA
 Sample ID : BA18FT
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|-------------------------|--------|
| 12.601 | alpha-Thujene | 0.02 |
| 13.033 | alpha-Pinene | 4.95 |
| 13.866 | alpha-Fenchene | 0.01 |
| 13.967 | Camphene | 0.09 |
| 15.266 | Sabinene | 0.13 |
| 15.585 | beta-Pinene | 0.21 |
| 16.211 | Myrcene | 0.66 |
| 17.065 | Octanal | 0.02 |
| 17.312 | alpha-Phellandrene | 1.43 |
| 17.462 | delta-3-Carene | 0.02 |
| 17.987 | alpha-Terpinene | 0.02 |
| 18.463 | para-Cymene | 0.18 |
| 18.789 | Limonene | 13.13 |
| 18.890 | beta-Phellandrene | 0.28 |
| 18.983 | 1,8-Cineole | 0.09 |
| 19.164 | trans-beta-Ocimene | 0.06 |
| 20.684 | gamma-Terpinene | 0.23 |
| 22.522 | Terpinolene | 0.04 |
| 22.765 | Fenchone | 5.06 |
| 23.479 | Linalool | 0.02 |
| 26.791 | Camphor | 0.08 |
| 30.305 | (Z)-Anisole | 0.71 |
| 34.121 | para-Anisaldehyde | 0.19 |
| 36.495 | (E)-Anethole | 72.27 |
| 42.594 | para-Acetonylanisole | 0.05 |
| 45.153 | beta-Caryophyllene | 0.04 |
| 45.980 | trans-alpha-Bergamotene | 0.03 |
| | | 100.00 |

Chromatogram Fennel - BIOAROMA



Comments:

The analysis of this Fennel, Sweet batch sample meets the expected chemical profile for authentic essential oil of *Foeniculum vulgare*. 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.

Sample Information

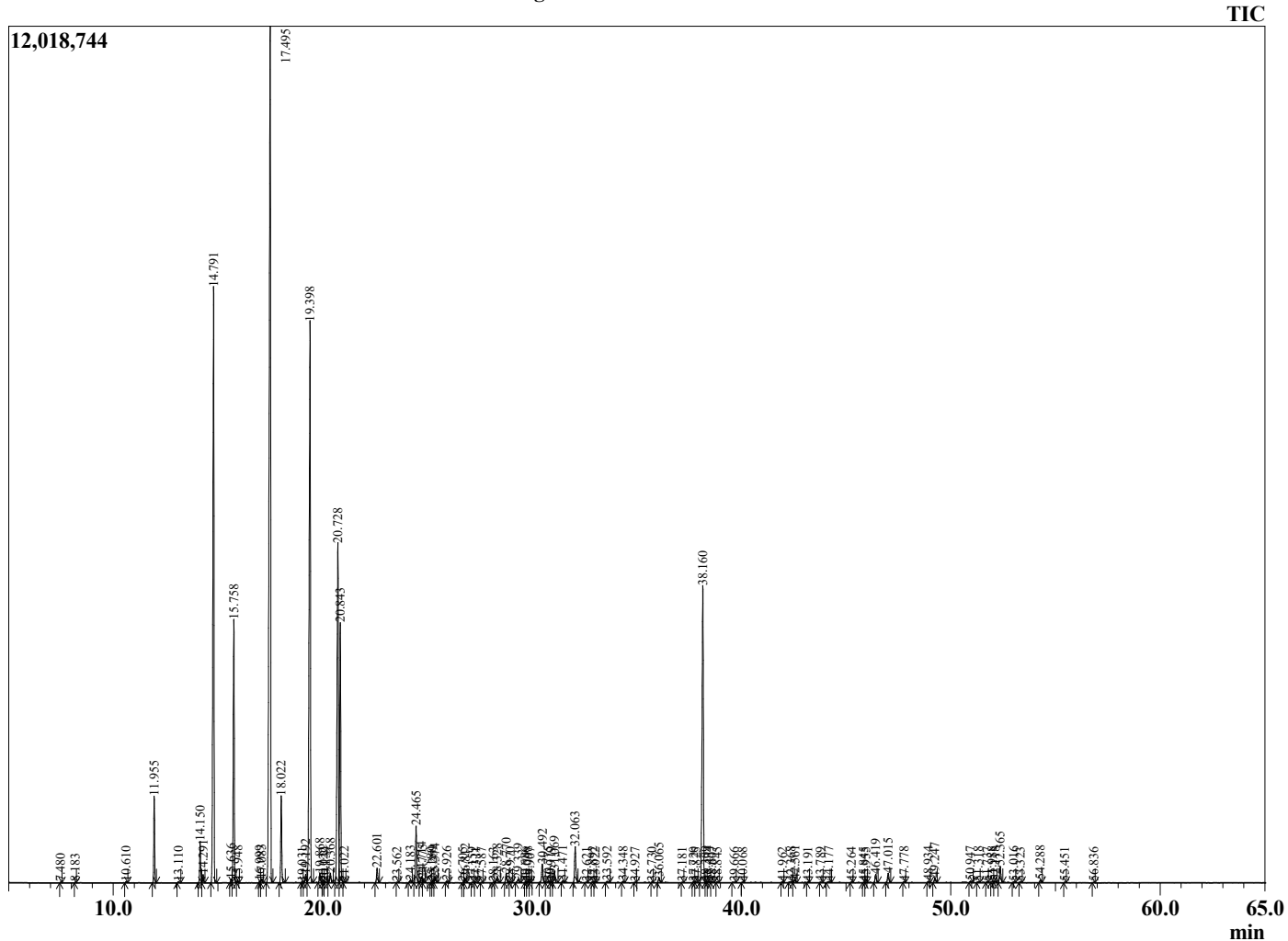
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/6/2021 10:11:06 AM
 Sample Type : Essential Oil
 Sample Name : Fir Balsam - BIOAROMA
 Sample ID : BB22AK
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|---------------------------|-------|
| 7.480 | Toluene | 0.01 |
| 8.183 | Hexyl methyl ether | 0.01 |
| 10.610 | Hex-3(Z)-enol | 0.02 |
| 11.955 | Santene | 1.60 |
| 13.110 | Unidentified | 0.03 |
| 14.150 | Tricyclene | 0.85 |
| 14.291 | alpha-Thujene | 0.18 |
| 14.791 | alpha-Pinene | 14.33 |
| 15.636 | alpha-Fenchene | 0.08 |
| 15.758 | Camphene | 5.73 |
| 15.948 | Thuja-2,4(10)diene | 0.04 |
| 16.999 | Unidentified | 0.04 |
| 17.083 | Sabinene | 0.09 |
| 17.495 | beta-Pinene | 26.75 |
| 18.022 | Myrcene | 1.87 |
| 19.031 | Pseudolimonene | 0.02 |
| 19.192 | alpha-Phellandrene | 0.23 |
| 19.398 | delta-3-Carene | 16.02 |
| 19.868 | alpha-Terpinene | 0.21 |
| 20.022 | ortho-Cymene | 0.01 |
| 20.139 | Unidentified | 0.02 |
| 20.368 | para-Cymene | 0.25 |
| 20.728 | Limonene | 10.03 |
| 20.843 | beta-Phellandrene | 5.87 |
| 21.022 | Unidentified | 0.02 |
| 22.601 | gamma-Terpinene | 0.35 |
| 23.562 | Pinol | 0.01 |
| 24.183 | Isoterpinolene | 0.06 |
| 24.465 | Terpinolene | 1.38 |
| 24.714 | Fenchone | 0.15 |
| 24.775 | para-Cymenene | 0.07 |
| 25.180 | Unidentified | 0.01 |
| 25.269 | alpha-Campholenal isomer | 0.05 |
| 25.374 | Linalool | 0.11 |
| 25.926 | alpha-Thujone | 0.04 |
| 26.705 | beta-Thujone | 0.01 |
| 26.812 | alpha-Fenchol | 0.11 |
| 27.159 | cis-para-Menth-2-en-1-ol | 0.01 |
| 27.311 | alpha-Campholenal | 0.02 |
| 27.587 | Unidentified | 0.01 |
| 28.163 | Nopinone | 0.01 |
| 28.328 | trans-Pinocarveol | 0.13 |
| 28.770 | Camphor | 0.25 |
| 28.970 | para-Mentha-1,5-dien-8-ol | 0.02 |
| 29.339 | trans-beta-Terpineol | 0.11 |
| 29.686 | Pinocamphone | 0.02 |
| 29.798 | Unidentified | 0.03 |
| 29.907 | Isoborneol | 0.01 |
| 30.492 | Borneol | 0.51 |
| 30.775 | Isopinocampnone | 0.04 |
| 30.919 | Unidentified | 0.01 |
| 31.069 | Terpinen-4-ol | 0.31 |
| 31.471 | Cryptone | 0.05 |
| 32.063 | alpha-Terpinol | 1.02 |
| 32.621 | Unidentified | 0.02 |
| 32.892 | Verbenone | 0.02 |
| 33.022 | Unidentified | 0.02 |
| 33.592 | alpha-Fenchyl acetate | 0.04 |
| 34.348 | Thymol methyl ether | 0.04 |
| 34.927 | Unidentified | 0.01 |
| 35.730 | 3-Methylbutyl hexanoate | 0.01 |
| 36.065 | Piperitone | 0.14 |

Chromatogram Fir Balsam - BIOAROMA



Comments:

The analysis of this Fir Balsam batch sample meets the expected chemical profile for authentic essential oil of *Abies balsamea*. 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% |
|--------|-------------------------|--------|
| 37.181 | Unidentified | 0.01 |
| 37.720 | Phellandral | 0.02 |
| 37.825 | Unidentified | 0.02 |
| 38.160 | Bornyl acetate | 8.62 |
| 38.309 | Isobornyl acetate | 0.03 |
| 38.434 | Thymol | 0.04 |
| 38.607 | 2-Undecanone | 0.02 |
| 38.845 | Unidentified | 0.01 |
| 39.666 | Unidentified | 0.02 |
| 40.068 | Unidentified | 0.01 |
| 41.962 | Unidentified | 0.02 |
| 42.368 | Hexyl hexanoate | 0.05 |
| 42.561 | alpha-Longipinene | 0.08 |
| 43.191 | Unidentified | 0.01 |
| 43.789 | alpha-Ylangene | 0.01 |
| 44.177 | Unidentified | 0.04 |
| 45.264 | Sativene | 0.02 |
| 45.845 | Unidentified | 0.01 |
| 45.955 | Unidentified | 0.01 |
| 46.419 | Junipene | 0.24 |
| 47.015 | beta-Caryophyllene | 0.27 |
| 47.778 | trans-alpha-Bergamotene | 0.03 |
| 48.934 | trans-beta-Farnesene | 0.03 |
| 49.247 | alpha-Humulene | 0.13 |
| 50.947 | Unidentified | 0.04 |
| 51.318 | beta-Selinene | 0.02 |
| 51.737 | alpha-Selinene | 0.01 |
| 51.988 | Unidentified | 0.03 |
| 52.118 | Unidentified | 0.03 |
| 52.365 | beta-Bisabolene | 0.45 |
| 53.016 | delta-Cadinene | 0.02 |
| 53.323 | Unidentified | 0.02 |
| 54.288 | trans-alpha-Bisabolene | 0.07 |
| 55.451 | trans-Nerolidol | 0.01 |
| 56.836 | Caryophyllene oxide | 0.01 |
| | | 100.00 |

Sample Information

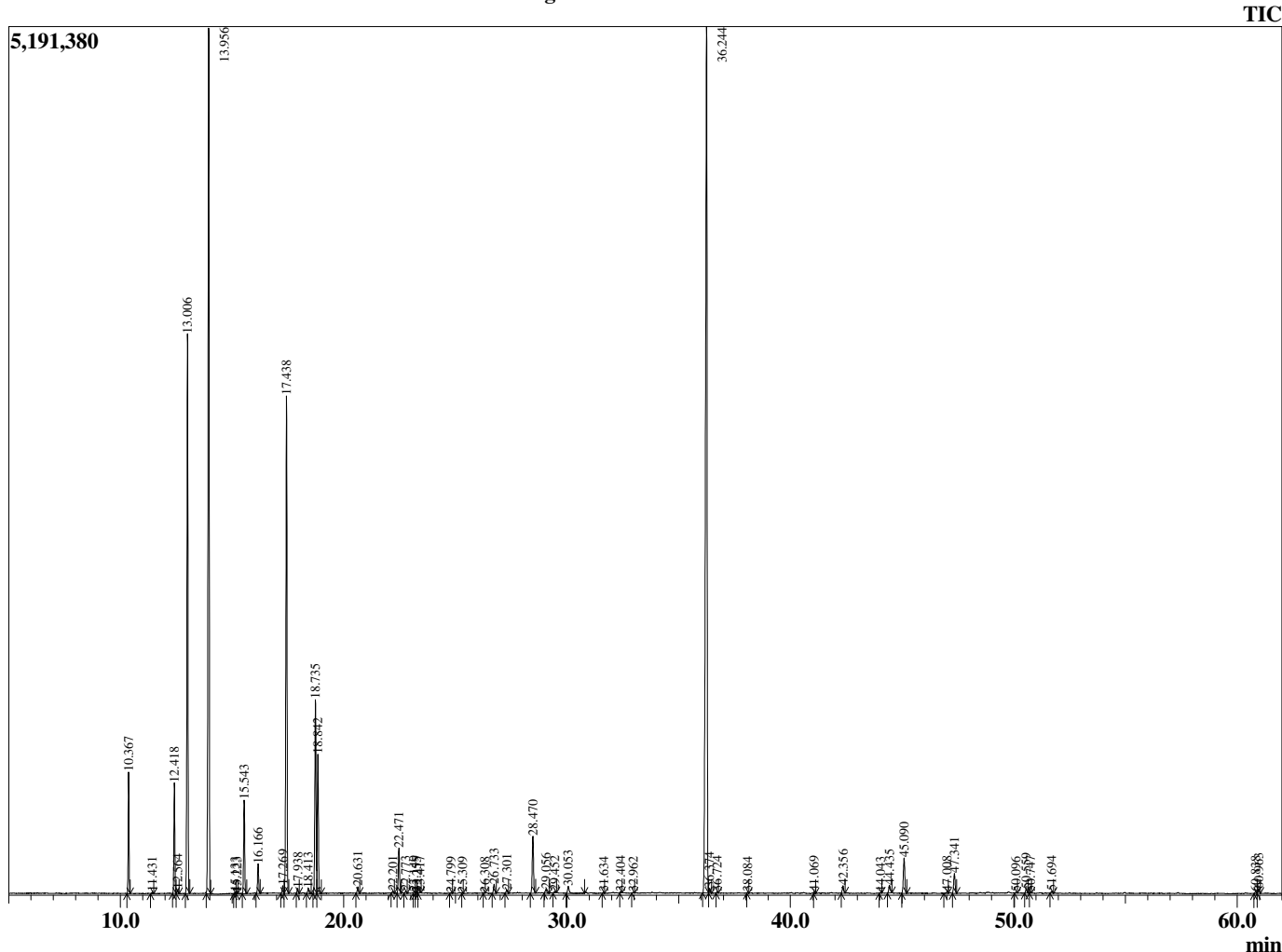
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 10/9/2020 3:41:14 PM
 Sample Type : Essential Oil
 Sample Name : Fir Needle -
 Sample ID : BIOAROMA : BA29IQ
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|------------------------|--------|
| 10.367 | Santene | 2.31 |
| 11.431 | Unidentified | 0.05 |
| 12.418 | Tricyclene | 2.29 |
| 12.564 | alpha-Thujene | 0.10 |
| 13.006 | alpha-Pinene | 12.39 |
| 13.956 | Camphene | 21.26 |
| 15.133 | Unidentified | 0.04 |
| 15.223 | Unidentified | 0.02 |
| 15.543 | beta-Pinene | 2.16 |
| 16.166 | Myrcene | 0.68 |
| 17.269 | alpha-Phellandrene | 0.19 |
| 17.438 | delta-3-Carene | 12.37 |
| 17.938 | alpha-Terpinene | 0.12 |
| 18.413 | para-Cymene | 0.14 |
| 18.735 | Limonene | 5.03 |
| 18.842 | beta-Phellandrene | 3.36 |
| 20.631 | gamma-Terpinene | 0.17 |
| 22.201 | Isoterpinolene | 0.06 |
| 22.471 | Terpinolene | 1.20 |
| 22.773 | Unidentified | 0.06 |
| 23.149 | Unidentified | 0.04 |
| 23.255 | Unidentified | 0.02 |
| 23.417 | Unidentified | 0.04 |
| 24.799 | Unidentified | 0.03 |
| 25.309 | Unidentified | 0.01 |
| 26.308 | Unidentified | 0.01 |
| 26.733 | Camphor | 0.26 |
| 27.301 | trans-beta-Terpineol | 0.11 |
| 28.470 | Borneol | 1.57 |
| 29.056 | Terpinen-4-ol | 0.13 |
| 29.452 | Unidentified | 0.05 |
| 30.053 | alpha-Terpineol | 0.27 |
| 31.634 | Unidentified | 0.03 |
| 32.404 | Unidentified | 0.03 |
| 32.962 | Unidentified | 0.03 |
| 36.244 | Bornyl acetate | 30.34 |
| 36.374 | Isobornyl acetate | 0.14 |
| 36.724 | 2-Undecanone | 0.03 |
| 38.084 | Unidentified | 0.03 |
| 41.069 | Unidentified | 0.05 |
| 42.356 | Geranyl acetate | 0.22 |
| 44.043 | Unidentified | 0.03 |
| 44.435 | Dodecanal | 0.27 |
| 45.090 | beta-Caryophyllene | 1.12 |
| 47.008 | alpha-Himachalene | 0.05 |
| 47.341 | alpha-Humulene | 0.63 |
| 50.096 | Unidentified | 0.03 |
| 50.559 | beta-Bisabolene | 0.13 |
| 50.747 | Unidentified | 0.04 |
| 51.694 | trans-gamma-Bisabolene | 0.06 |
| 60.838 | cis-alpha-Bisabolol | 0.07 |
| 60.963 | trans-alpha-Bisabolol | 0.14 |
| | | 100.00 |

Chromatogram Fir Needle - BIOAROMA



Comments:

The analysis of this Fir Needle batch sample meets the expected chemical profile for authentic essential oil of *Abies siberica*. 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.

Sample Information

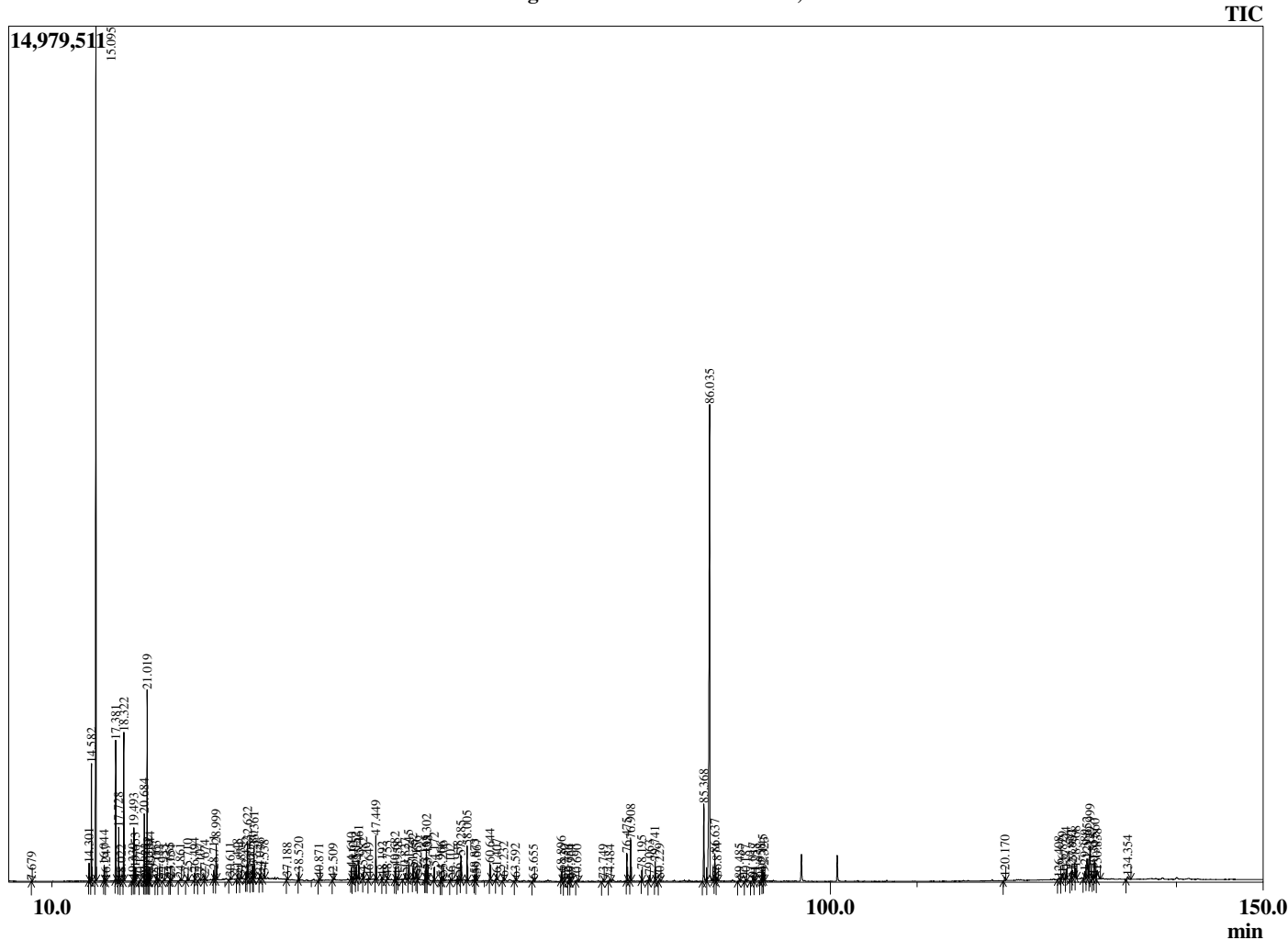
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/15/2020 5:54:51 PM
 Sample Type : Essential Oil
 Sample Name : Frankincense - carterii, CO2
 Sample ID : BA08GAD
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

| R.Time | Name | Area% |
|--------|----------------------------|-------|
| 7.679 | Toluene | 0.01 |
| 14.301 | Hashishene | 0.39 |
| 14.582 | alpha-Thujene | 2.70 |
| 15.095 | alpha-Pinene | 23.88 |
| 16.044 | Camphene | 0.34 |
| 16.247 | Thuja-2,4(10)diene | 0.03 |
| 17.381 | Sabinene | 3.30 |
| 17.728 | beta-Pinene | 1.29 |
| 18.022 | Unidentified | 0.05 |
| 18.322 | Myrcene | 3.55 |
| 19.339 | Pseudolimonene | 0.06 |
| 19.493 | alpha-Phellandrene | 1.32 |
| 19.653 | 3-Carene | 0.30 |
| 20.177 | alpha-Terpinene | 0.02 |
| 20.684 | para-Cymene | 1.71 |
| 20.823 | Thujol isomer | 0.04 |
| 21.019 | Limonene | 5.05 |
| 21.132 | beta-Phellandrene | 0.21 |
| 21.219 | 1,8-Cineole | 0.14 |
| 21.344 | (Z)-beta-Ocimene | 0.34 |
| 22.063 | (E)-beta-Ocimene | 0.13 |
| 22.322 | Unidentified | 0.04 |
| 22.933 | gamma-Terpinene | 0.05 |
| 23.655 | 1-Octanol | 0.09 |
| 23.754 | trans-Sabinene hydrate | 0.05 |
| 24.861 | Unidentified | 0.09 |
| 25.710 | Linalool | 0.23 |
| 26.494 | Thujol | 0.17 |
| 27.107 | Myrcenol | 0.12 |
| 27.674 | alpha-Campholenal | 0.14 |
| 28.711 | trans-Pinocarveol | 0.31 |
| 28.999 | trans-Verbenol | 0.97 |
| 30.611 | Unidentified | 0.07 |
| 31.448 | Terpinen-4-ol | 0.16 |
| 31.834 | para-Cymen-8-ol | 0.07 |
| 32.452 | alpha-Terpineol | 0.28 |
| 32.622 | Estragole | 1.03 |
| 33.005 | alpha-Phellandrene epoxide | 0.07 |
| 33.280 | Verbenone | 0.30 |
| 33.361 | Octyl acetate | 0.89 |
| 34.046 | trans-Carveol | 0.16 |
| 34.538 | 1-Methoxydecane | 0.10 |
| 37.188 | 3,5-Dimethoxytoluene | 0.08 |
| 38.520 | Bornyl acetate | 0.21 |
| 40.871 | Unidentified | 0.06 |
| 42.509 | Citriodiol | 0.05 |
| 44.610 | alpha-Copaene | 0.36 |
| 44.812 | Unidentified | 0.11 |
| 45.152 | beta-Bourbonene | 0.35 |
| 45.461 | beta-Elemene | 0.49 |
| 45.982 | Methyleugenol | 0.17 |
| 46.649 | alpha-Gurjunene | 0.07 |
| 47.449 | trans-beta-Caryophyllene | 1.33 |
| 48.192 | trans-alpha-Bergamotene | 0.08 |
| 48.753 | 6,9-Guaiadiene | 0.12 |
| 49.682 | alpha-Humulene | 0.37 |
| 49.958 | Alloaromadendrene | 0.14 |
| 50.827 | trans-Cadina-1(6),4-diene | 0.24 |
| 51.245 | Germacrene D | 0.40 |
| 51.752 | beta-Selinene | 0.30 |
| 52.156 | alpha-Selinene | 0.21 |
| 52.267 | alpha-Muurolene | 0.12 |

Chromatogram Frankincense - carterii, CO2



Comments:

The analysis of this Frankincense - carterii, CO2 batch sample meets the expected chemical profile for authentic CO2 extract of *Boswellia carterii*. 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% |
|---------|------------------------------|--------|
| 53.165 | gamma-Cadinene | 0.26 |
| 53.302 | Cubedol | 0.97 |
| 53.438 | delta-Cadinene | 0.26 |
| 54.172 | Unidentified | 0.38 |
| 54.966 | Elemicin | 0.13 |
| 55.206 | Elemol | 0.15 |
| 56.102 | Unidentified | 0.08 |
| 56.938 | Spathulenol | 0.15 |
| 57.285 | Caryophyllene oxide | 0.78 |
| 58.005 | Viridiflorol | 1.12 |
| 58.873 | Humulene epoxide II | 0.22 |
| 59.067 | 10-epi-gamma-Eudesmol | 0.20 |
| 60.644 | alpha-Muurolol | 0.47 |
| 61.407 | alpha-Eudesmol | 0.18 |
| 62.232 | Unidentified | 0.19 |
| 63.592 | Unidentified | 0.08 |
| 65.655 | Unidentified | 0.07 |
| 68.896 | alpha-Phellandrene dimer | 0.28 |
| 69.230 | Unidentified | 0.06 |
| 69.756 | Unidentified | 0.07 |
| 69.964 | Hexadecanal | 0.08 |
| 70.690 | Unidentified | 0.04 |
| 73.749 | Unidentified | 0.07 |
| 74.484 | Unidentified | 0.08 |
| 76.475 | Myrcene dimer I | 0.88 |
| 76.908 | beta-Elementene dimer | 1.35 |
| 78.195 | Myrcene dimer II | 0.31 |
| 79.063 | delta-Elementene dimer | 0.23 |
| 79.741 | Verticilla-4(20),7,11-triene | 0.64 |
| 80.229 | Verticellol | 0.12 |
| 85.368 | Incensole | 2.82 |
| 86.035 | Serratol | 22.63 |
| 86.637 | Unidentified | 0.93 |
| 86.874 | Unidentified | 0.14 |
| 89.485 | Unidentified | 0.10 |
| 90.187 | Unidentified | 0.08 |
| 91.017 | Unidentified | 0.18 |
| 91.258 | Unidentified | 0.11 |
| 91.958 | Unidentified | 0.13 |
| 92.145 | Unidentified | 0.32 |
| 92.323 | Unidentified | 0.23 |
| 120.170 | Unidentified | 0.16 |
| 126.408 | Unidentified | 0.13 |
| 126.829 | Lanosta-8,24-dien-3-one | 0.29 |
| 127.244 | Unidentified | 0.36 |
| 127.832 | Lanosterol | 0.41 |
| 127.991 | Olean-12-en-3-one | 0.34 |
| 128.368 | beta-Amyrin | 0.36 |
| 129.389 | Unidentified | 0.39 |
| 129.652 | Urs-12-en-3-one | 0.98 |
| 129.999 | alpha-Amyrin | 1.65 |
| 130.355 | Unidentified | 0.11 |
| 130.560 | alpha-Amyrenyl acetate | 0.74 |
| 130.838 | Unidentified | 0.78 |
| 134.354 | Unidentified | 0.21 |
| | | 100.00 |

Sample Information

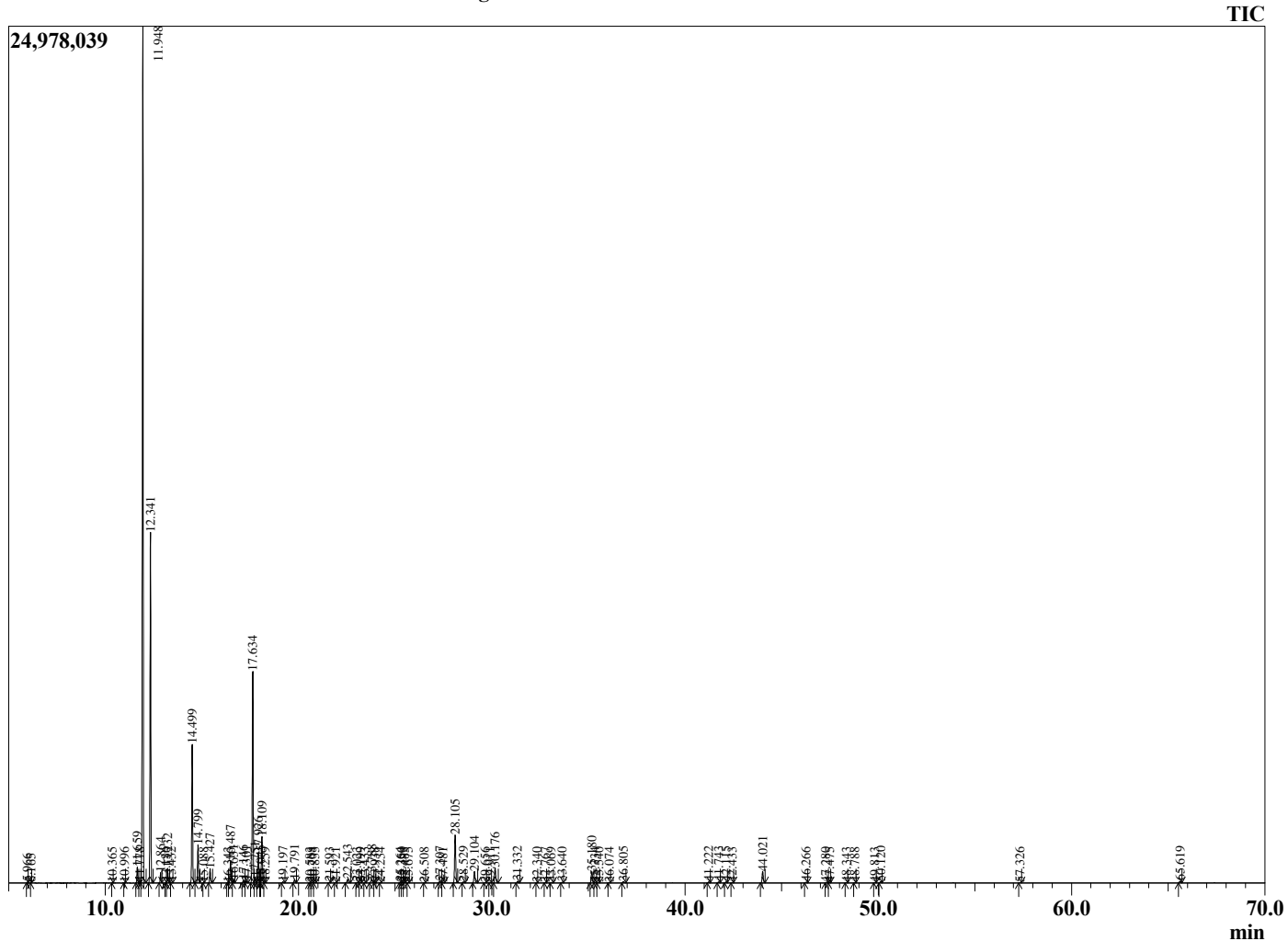
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/7/2021 12:40:05 AM
 Sample Type : Essential Oil
 Sample Name : Frankincense Frereana -BIOAROMA
 Sample ID : BB22AL
 Injection Volume : 0.10
 Instrument ID : GC-4



Peak Report TIC

| R.Time | Name | Area% |
|--------|----------------------------|-------|
| 5.966 | Toluene | 0.02 |
| 6.165 | Unidentified | 0.00 |
| 10.365 | Unidentified | 0.00 |
| 10.996 | Unidentified | 0.01 |
| 11.659 | Hashishene | 0.74 |
| 11.778 | Tricyclene | 0.03 |
| 11.948 | alpha-Thujene | 44.01 |
| 12.341 | alpha-Pinene | 16.80 |
| 12.864 | Thujadiene isomer | 0.48 |
| 13.136 | alpha-Fenchene | 0.02 |
| 13.232 | Camphene | 0.71 |
| 13.432 | Thuja-2,4(10)diene | 0.03 |
| 14.499 | Sabinene | 7.12 |
| 14.799 | beta-Pinene | 1.97 |
| 15.088 | Unidentified | 0.01 |
| 15.427 | Myrcene | 0.77 |
| 16.343 | Pseudolimonene | 0.02 |
| 16.487 | alpha-Phellandrene | 1.21 |
| 16.631 | delta-3-Carene | 0.14 |
| 17.146 | alpha-Terpinene | 0.14 |
| 17.301 | meta-Cymene | 0.12 |
| 17.634 | para-Cymene | 12.00 |
| 17.751 | Unidentified | 0.34 |
| 17.926 | Limonene | 1.76 |
| 18.045 | beta-Phellandrene | 0.08 |
| 18.109 | 1,8-Cineole | 2.62 |
| 18.259 | ortho-Cymene | 0.03 |
| 19.197 | Unidentified | 0.07 |
| 19.791 | gamma-Terpinene | 0.18 |
| 20.583 | trans-Sabinene hydrate | 0.01 |
| 20.708 | Unidentified | 0.02 |
| 20.833 | Unidentified | 0.03 |
| 21.593 | Terpinolene | 0.03 |
| 21.921 | para-Cymenene | 0.02 |
| 22.543 | Linalool | 0.25 |
| 23.023 | alpha-Thujone | 0.03 |
| 23.199 | Unidentified | 0.02 |
| 23.433 | Unidentified | 0.04 |
| 23.788 | beta-Thujone | 0.27 |
| 23.938 | Myrcenol | 0.03 |
| 24.234 | Unidentified | 0.02 |
| 25.264 | trans-Sabinol | 0.03 |
| 25.350 | trans-Pinocarveol | 0.03 |
| 25.485 | Unidentified | 0.02 |
| 25.675 | trans-Verbenol | 0.03 |
| 26.508 | Unidentified | 0.01 |
| 27.307 | Unidentified | 0.12 |
| 27.481 | para-Mentha-1,5-dien-8-ol | 0.03 |
| 28.105 | Terpinen-4-ol | 3.12 |
| 28.529 | para-Cymen-8-ol | 0.06 |
| 29.104 | alpha-Terpineol | 0.76 |
| 29.656 | alpha-Phellandrene epoxide | 0.02 |
| 29.911 | Verbenone | 0.02 |
| 30.176 | Octyl acetate | 1.00 |
| 31.332 | 1-Methoxy Decane | 0.10 |
| 32.340 | Cuminaldehyde | 0.01 |
| 32.767 | Unidentified | 0.02 |
| 33.069 | Unidentified | 0.02 |
| 33.640 | Unidentified | 0.04 |
| 35.180 | Bornyl acetate | 0.78 |
| 35.334 | Isobornyl acetate | 0.03 |
| 35.540 | Thymol | 0.01 |

Chromatogram Frankincense Frereana - BIOAROMA



Comments:

The analysis of this Frankincense - Frereana batch sample meets the expected chemical profile for authentic essential oil of *Boswellia frereana*. 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% |
|--------|---------------------------|--------|
| 36.074 | Carvacrol | 0.02 |
| 36.805 | Unidentified | 0.10 |
| 41.222 | alpha-Copaene | 0.07 |
| 41.743 | beta-Bourbonene | 0.07 |
| 42.115 | beta-Elemene | 0.05 |
| 42.433 | Unidentified | 0.02 |
| 44.021 | trans-beta-Caryophyllene | 0.83 |
| 46.266 | alpha-Humulene | 0.05 |
| 47.280 | Unidentified | 0.01 |
| 47.475 | trans-Cadina-1(6),4-diene | 0.01 |
| 48.343 | beta-Selinene | 0.02 |
| 48.788 | alpha-Selinene | 0.02 |
| 49.813 | gamma-Cadinene | 0.03 |
| 50.120 | delta-Cadinene | 0.08 |
| 57.326 | tau-Cadinol | 0.03 |
| 65.619 | Unidentified | 0.11 |
| | | 100.00 |

Sample Information

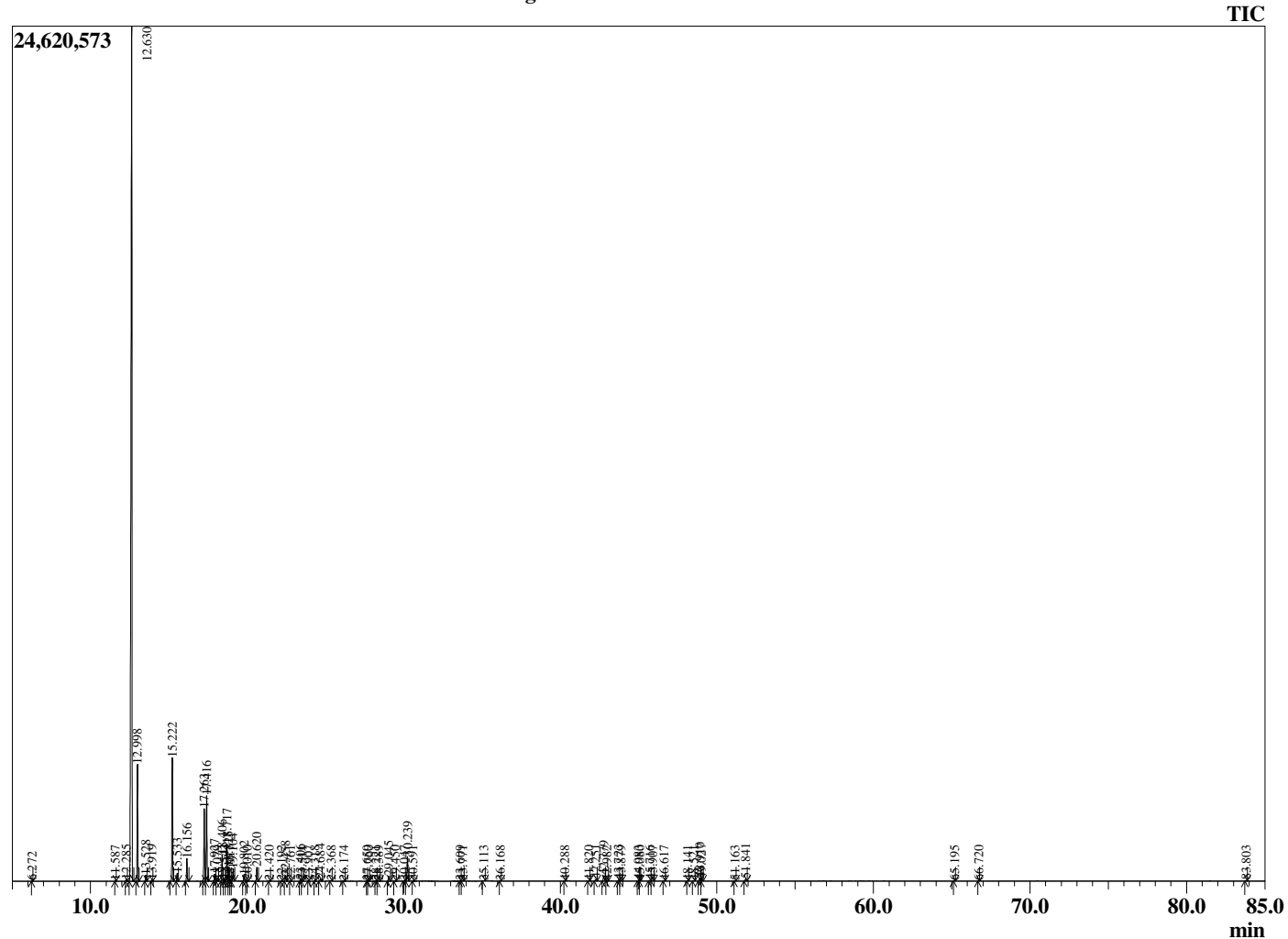
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 10/18/2020 4:44:51 PM
 Sample Type : Essential Oil
 Sample Name : Frankincense -IOAROMA
 Sample ID : BA29IT
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|-------------------------------|-------|
| 4.046 | (3E)-2-Methyl-1,3-Pentadiene | 0.01 |
| 6.272 | Toluene | 0.01 |
| 11.587 | Unidentified | 0.01 |
| 12.285 | Hashishene | 0.08 |
| 12.630 | alpha-Thujene | 64.87 |
| 12.998 | alpha-Pinene | 5.70 |
| 13.528 | Thujadiene isomer | 0.33 |
| 13.919 | Camphene | 0.08 |
| 15.222 | Sabinene | 6.83 |
| 15.533 | beta-Pinene | 0.43 |
| 16.156 | Myrcene | 1.21 |
| 17.263 | alpha-Phellandrene | 4.17 |
| 17.416 | delta-3-Carene | 4.85 |
| 17.927 | alpha-Terpinene | 0.43 |
| 18.079 | ortho-Cymene | 0.05 |
| 18.406 | para-Cymene | 1.51 |
| 18.541 | Thujol Isomer | 0.11 |
| 18.717 | Limonene | 2.20 |
| 18.825 | beta-Phellandrene | 0.76 |
| 18.917 | 1,8-Cineole | 0.03 |
| 19.104 | (Z)-beta-Ocimene | 0.69 |
| 19.802 | (E)-beta-Ocimene | 0.32 |
| 20.010 | Thujol Isomer | 0.05 |
| 20.620 | gamma-Terpinene | 0.82 |
| 21.420 | trans-Sabinene hydrate | 0.03 |
| 22.192 | Isoterpinolene | 0.02 |
| 22.458 | Terpinolene | 0.34 |
| 22.761 | Dehydro-para-cymene | 0.01 |
| 23.406 | Linalool | 0.09 |
| 23.511 | cis-Sabinene hydrate | 0.04 |
| 23.907 | alpha-Thujone | 0.01 |
| 24.318 | Unidentified | 0.02 |
| 24.684 | beta-Thujone | 0.14 |
| 25.368 | allo-Ocimene | 0.04 |
| 26.174 | trans-Sabinol | 0.02 |
| 27.659 | Unidentified | 0.01 |
| 27.760 | para-Mentha-1,5-dien-8-ol | 0.02 |
| 28.221 | Unidentified | 0.03 |
| 28.389 | Unidentified | 0.02 |
| 29.045 | Terpinen-4-ol | 0.35 |
| 29.450 | Unidentified | 0.02 |
| 30.047 | alpha-Terpineol | 0.04 |
| 30.239 | Methyl chavicol | 1.60 |
| 30.591 | Unidentified | 0.01 |
| 33.609 | Unidentified | 0.01 |
| 33.771 | Linalyl acetate | 0.03 |
| 35.113 | Unidentified | 0.04 |
| 36.168 | Bornyl acetate | 0.02 |
| 40.288 | alpha-Terpinyl acetate | 0.02 |
| 41.820 | Isoledene | 0.02 |
| 42.251 | alpha-Copaene | 0.10 |
| 42.779 | beta-Bourbonene | 0.39 |
| 42.982 | alpha-Bourbonene | 0.03 |
| 43.723 | Methyleugenol | 0.06 |
| 43.879 | Junipene | 0.05 |
| 44.983 | beta-Ylangene | 0.05 |
| 45.080 | beta-Caryophyllene | 0.02 |
| 45.716 | beta-Copaene | 0.04 |
| 45.907 | trans-alpha-Bergamotene | 0.05 |
| 46.617 | Unidentified | 0.03 |
| 48.141 | 10-beta-H-Cadinal (6),4-diene | 0.01 |
| 48.521 | trans-Cadinal-1(6),4-diene | 0.03 |

Chromatogram Frankincense - BIOAROMA



Comments:

The analysis of this Frankincense - serrata batch sample meets the expected chemical profile for authentic essential oil of *Boswellia serrata*. 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% |
|--------|-------------------|--------|
| 48.910 | Germacrene D | 0.21 |
| 49.027 | gamma-Himachelene | 0.13 |
| 51.163 | delta-Cadinene | 0.02 |
| 51.841 | Unidentified | 0.15 |
| 65.195 | Unidentified | 0.02 |
| 66.720 | Unidentified | 0.03 |
| 83.803 | Serratol | 0.04 |
| | | 100.00 |

Sample Information

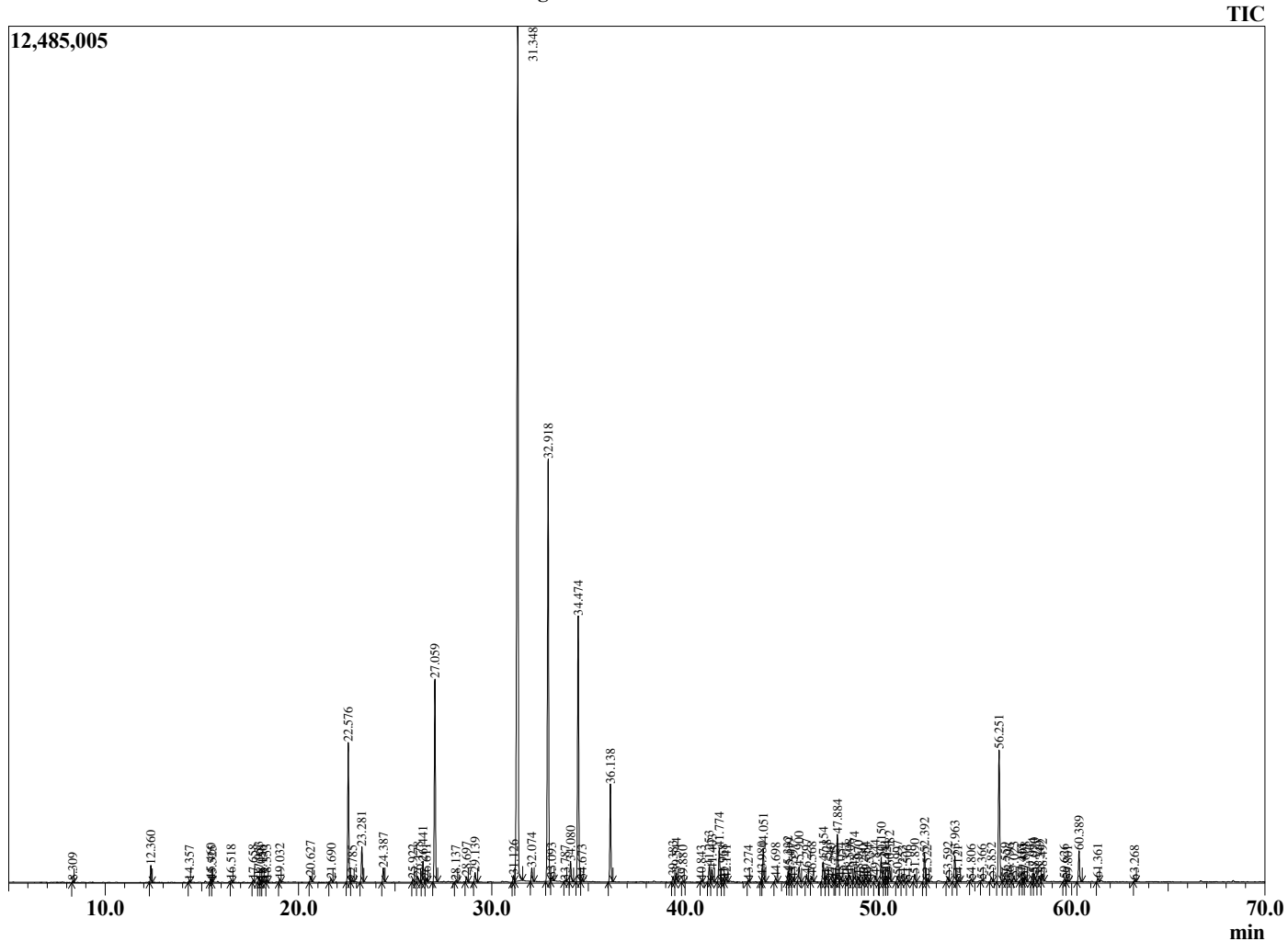
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/15/2021 7:54:05 PM
 Sample Type : Essential Oil
 Sample Name : Geranium - BIOAROMA
 Sample ID : BB22AM
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|---------------------------------|-------|
| 8.309 | 3-Methyl pentanol | 0.03 |
| 12.360 | alpha-Pinene | 0.39 |
| 14.357 | Bois de Rose oxide | 0.05 |
| 15.460 | Myrcene | 0.09 |
| 15.525 | Unidentified | 0.03 |
| 16.518 | alpha-Phellandrene | 0.07 |
| 17.658 | para-Cymene | 0.07 |
| 17.953 | Limonene | 0.15 |
| 18.058 | beta-Phellandrene | 0.05 |
| 18.150 | Unidentified | 0.04 |
| 18.353 | (Z)-beta-Ocimene | 0.06 |
| 19.032 | (E)-beta-Ocimene | 0.09 |
| 20.627 | cis-Linalool oxide (furanoid) | 0.18 |
| 21.690 | trans-Linalool oxide (furanoid) | 0.13 |
| 22.576 | Linalool | 4.17 |
| 22.785 | Unidentified | 0.06 |
| 23.281 | cis-Rose oxide | 1.06 |
| 24.387 | trans-Rose oxide | 0.42 |
| 25.922 | Isopulegol | 0.08 |
| 26.178 | Citronellal | 0.17 |
| 26.441 | Menthone | 0.63 |
| 26.611 | Unidentified | 0.10 |
| 27.059 | Isomenthone | 6.23 |
| 28.137 | Terpinen-4-ol | 0.05 |
| 28.697 | Isomenthol | 0.16 |
| 29.139 | alpha-Terpineol | 0.31 |
| 31.126 | Nerol | 0.20 |
| 31.348 | Citronellol | 33.94 |
| 32.074 | Neral | 0.41 |
| 32.918 | Geraniol | 14.01 |
| 33.093 | Unidentified | 0.14 |
| 33.787 | Unidentified | 0.04 |
| 34.080 | Geranial | 0.66 |
| 34.474 | Citronellyl formate | 8.69 |
| 34.673 | Neryl formate | 0.06 |
| 36.138 | Geranyl formate | 3.07 |
| 39.383 | alpha-Cubebene | 0.18 |
| 39.544 | Citronellyl acetate | 0.30 |
| 39.880 | Unidentified | 0.04 |
| 40.843 | Isodene | 0.04 |
| 41.253 | alpha-Copaene | 0.53 |
| 41.403 | Geranyl acetate | 0.41 |
| 41.774 | beta-Bourbonene | 1.14 |
| 41.968 | alpha-Bourbonene | 0.09 |
| 42.141 | beta-Elemene | 0.13 |
| 43.274 | alpha-Gurjunene | 0.05 |
| 43.980 | beta-Ylangene | 0.10 |
| 44.051 | trans-beta-Caryophyllene | 1.16 |
| 44.698 | beta-Copaene | 0.15 |
| 45.332 | Citronellyl propionate | 0.33 |
| 45.419 | 6,9-Guaiadiene | 0.28 |
| 45.597 | Germacrene D | 0.10 |
| 45.900 | Guaiadiene isomer | 0.52 |
| 46.297 | alpha-Humulene | 0.27 |
| 46.568 | Alloaromadendrene | 0.17 |
| 47.154 | Geranyl propanoate | 0.70 |
| 47.328 | 10-beta-H-Cadina-1(6),4-diene | 0.26 |
| 47.540 | Unidentified | 0.18 |
| 47.775 | Unidentified | 0.04 |
| 47.884 | Germacrene D | 1.69 |
| 48.054 | Unidentified | 0.15 |
| 48.374 | beta-Selinene | 0.15 |

Chromatogram Geranium - BIOAROMA



Comments:

The analysis of this Geranium, Egypt batch sample meets the expected chemical profile for authentic essential oil of *Pelargonium graveolens*. 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% |
|--------|-----------------------------|--------|
| 48.508 | Viridiflorene | 0.34 |
| 48.774 | Bicyclogermacrene | 0.55 |
| 48.970 | alpha-Murolene | 0.19 |
| 49.230 | delta-Amorphene | 0.07 |
| 49.354 | Unidentified | 0.18 |
| 49.534 | Unidentified | 0.07 |
| 49.844 | gamma-Cadinene | 0.21 |
| 50.150 | delta-Cadinene | 0.87 |
| 50.341 | cis-Calamenene | 0.22 |
| 50.424 | Zonarene | 0.17 |
| 50.582 | Citronellyl butyrate | 0.54 |
| 50.997 | trans-Cadina-1,4-diene | 0.22 |
| 51.253 | Selina-4(15),7(11)-diene | 0.08 |
| 51.506 | alpha-Calacorene | 0.05 |
| 51.890 | Unidentified | 0.27 |
| 52.392 | Geranyl butyrate | 0.97 |
| 52.522 | Unidentified | 0.06 |
| 53.592 | Spathulenol | 0.17 |
| 53.963 | 2-Phenylethyl tiglate | 0.98 |
| 54.121 | Globulol | 0.06 |
| 54.806 | Neryl (S)-2-methylbutanoate | 0.07 |
| 55.366 | Eudesmol isomer | 0.04 |
| 55.852 | 1,10-di-epi-Cubenol | 0.15 |
| 56.251 | 10-epi-gamma-Eudesmol | 4.86 |
| 56.559 | 1-epi-Cubenol | 0.16 |
| 56.796 | gamma-Eudesmol | 0.12 |
| 57.023 | Unidentified | 0.21 |
| 57.415 | Unidentified | 0.12 |
| 57.491 | Unidentified | 0.14 |
| 57.608 | Unidentified | 0.15 |
| 57.994 | Unidentified | 0.33 |
| 58.070 | alpha-Eudesmol | 0.33 |
| 58.349 | Unidentified | 0.21 |
| 58.492 | Citronellyl tiglate | 0.26 |
| 59.626 | Unidentified | 0.08 |
| 59.801 | alpha-Bisabolol | 0.05 |
| 60.389 | Geranyl tiglate | 1.03 |
| 61.361 | Unidentified | 0.12 |
| 63.268 | Geranyl hexanoate | 0.04 |
| | | 100.00 |

Sample Information

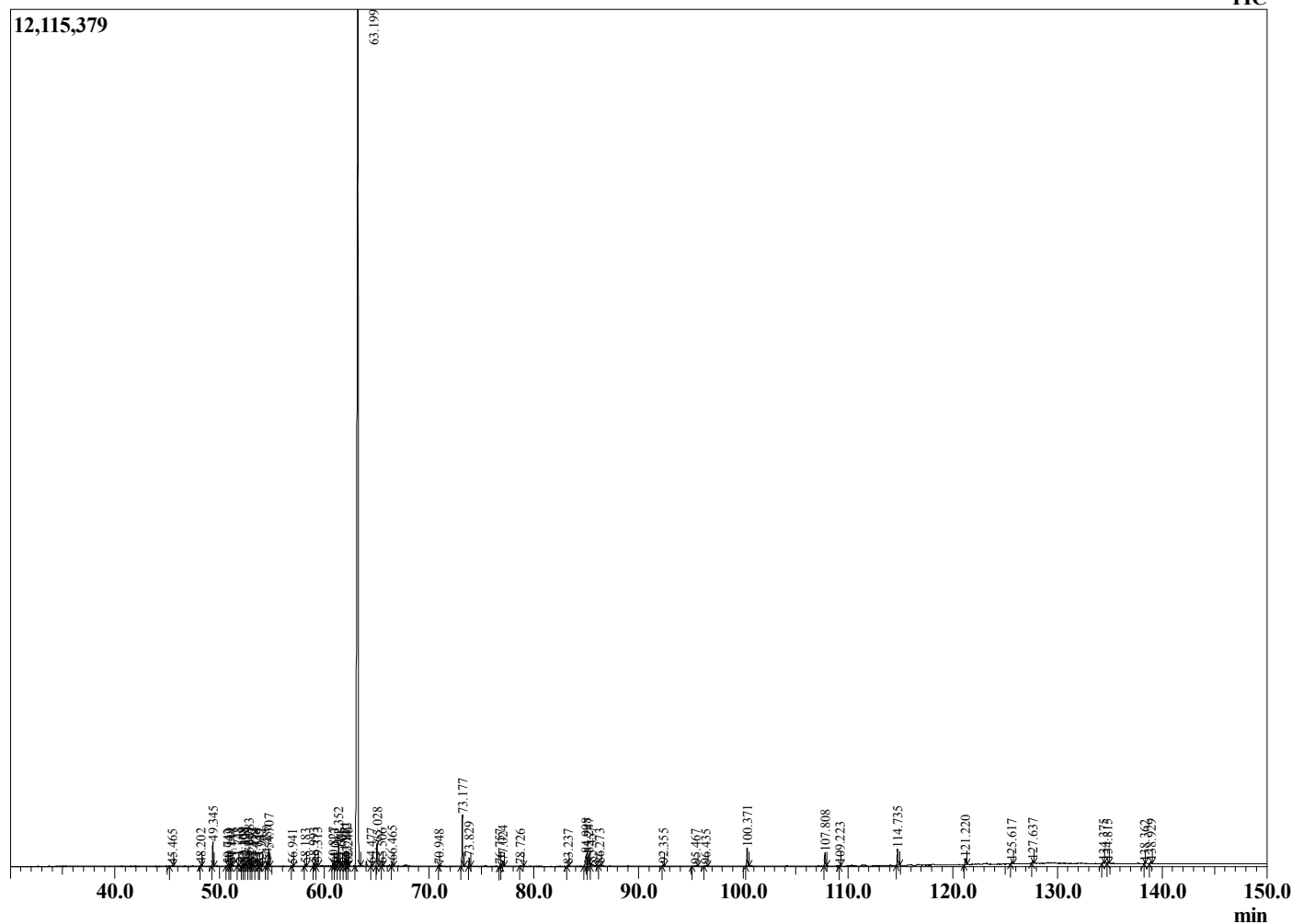
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/18/2020 6:03:10 PM
 Sample Type : CO2 Extract
 Sample Name : German Chamomile CO2 - BIOAROMA
 Sample ID : B08GAB
 Injection Volume : 0.10
 Instrument ID: : GC-2



Peak Report TIC

| R.Time | Name | Area% |
|---------|-------------------------|--------|
| 45.465 | beta-Elemene | 0.05 |
| 48.202 | trans-alpha-Bergamotene | 0.06 |
| 49.345 | (E)-beta-Farnesene | 1.20 |
| 50.742 | Unidentified | 0.06 |
| 50.949 | Unidentified | 0.05 |
| 51.144 | Ar-Curcumene | 0.10 |
| 51.748 | beta-Selinene | 0.14 |
| 52.168 | alpha-Selinene | 0.11 |
| 52.328 | (Z)-alpha-Bisabolene | 0.16 |
| 52.497 | alpha-Bulnesene | 0.17 |
| 52.783 | beta-Bisabolene | 0.61 |
| 52.992 | beta-Himachalene | 0.17 |
| 53.133 | Sesquicineole | 0.09 |
| 53.438 | deta-Cadinene | 0.03 |
| 53.749 | beta-Sesquiphellandrene | 0.04 |
| 53.947 | (E)-gamma-Bisabolene | 0.15 |
| 54.480 | Unidentified | 0.22 |
| 54.707 | (E)-alpha-Bisabolene | 0.83 |
| 56.941 | Spathulenol | 0.06 |
| 58.183 | Unidentified | 0.11 |
| 58.993 | 7-Hydroxyfarnesene | 0.17 |
| 59.313 | Unidentified | 0.14 |
| 60.827 | Unidentified | 0.20 |
| 61.013 | Unidentified | 0.09 |
| 61.352 | alpha-Bisabolol oxide B | 1.53 |
| 61.606 | Unidentified | 0.10 |
| 61.971 | trans-Bisabolol-11-ol | 0.48 |
| 62.142 | Unidentified | 0.37 |
| 62.240 | beta-Bisabolol | 0.08 |
| 63.199 | alpha-Bisabolol | 79.22 |
| 64.477 | Unidentified | 0.08 |
| 65.028 | Hernianin | 1.35 |
| 65.506 | Chamazulene | 0.10 |
| 66.465 | Bisabolol oxide A | 0.28 |
| 70.948 | Neophytadiene | 0.04 |
| 73.177 | cis-Spiroether | 2.87 |
| 73.829 | trans-Spiroether | 0.46 |
| 76.757 | Unidentified | 0.04 |
| 77.024 | Palmitic acid | 0.33 |
| 78.726 | Unidentified | 0.08 |
| 83.237 | Methyl linoleate | 0.08 |
| 84.998 | Linoleic acid | 1.11 |
| 85.247 | Unidentified | 1.21 |
| 85.457 | Unidentified | 0.42 |
| 86.273 | Unidentified | 0.05 |
| 92.355 | Tricosane | 0.09 |
| 95.467 | Matricarin | 0.07 |
| 96.435 | Unidentified | 0.05 |
| 100.371 | Pentacosane | 1.11 |
| 107.808 | Hexatriacontane | 0.86 |
| 109.223 | Unidentified | 0.05 |
| 114.735 | Unidentified | 1.20 |
| 121.220 | Unidentified | 0.49 |
| 125.617 | Stigmasterol | 0.13 |
| 127.637 | gamma-Sitosterol | 0.20 |
| 134.375 | Unidentified | 0.15 |
| 134.815 | Unidentified | 0.10 |
| 138.362 | Unidentified | 0.06 |
| 138.929 | Lupenyl acetate | 0.13 |
| | | 100.00 |

Chromatogram German Chamomile CO2 -BIOAROMA



Comments:

The analysis of this German Chamomile CO2 batch sample meets the expected chemical profile for authentic essential oil of *Matricaria chamomila*. 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.

Sample Information

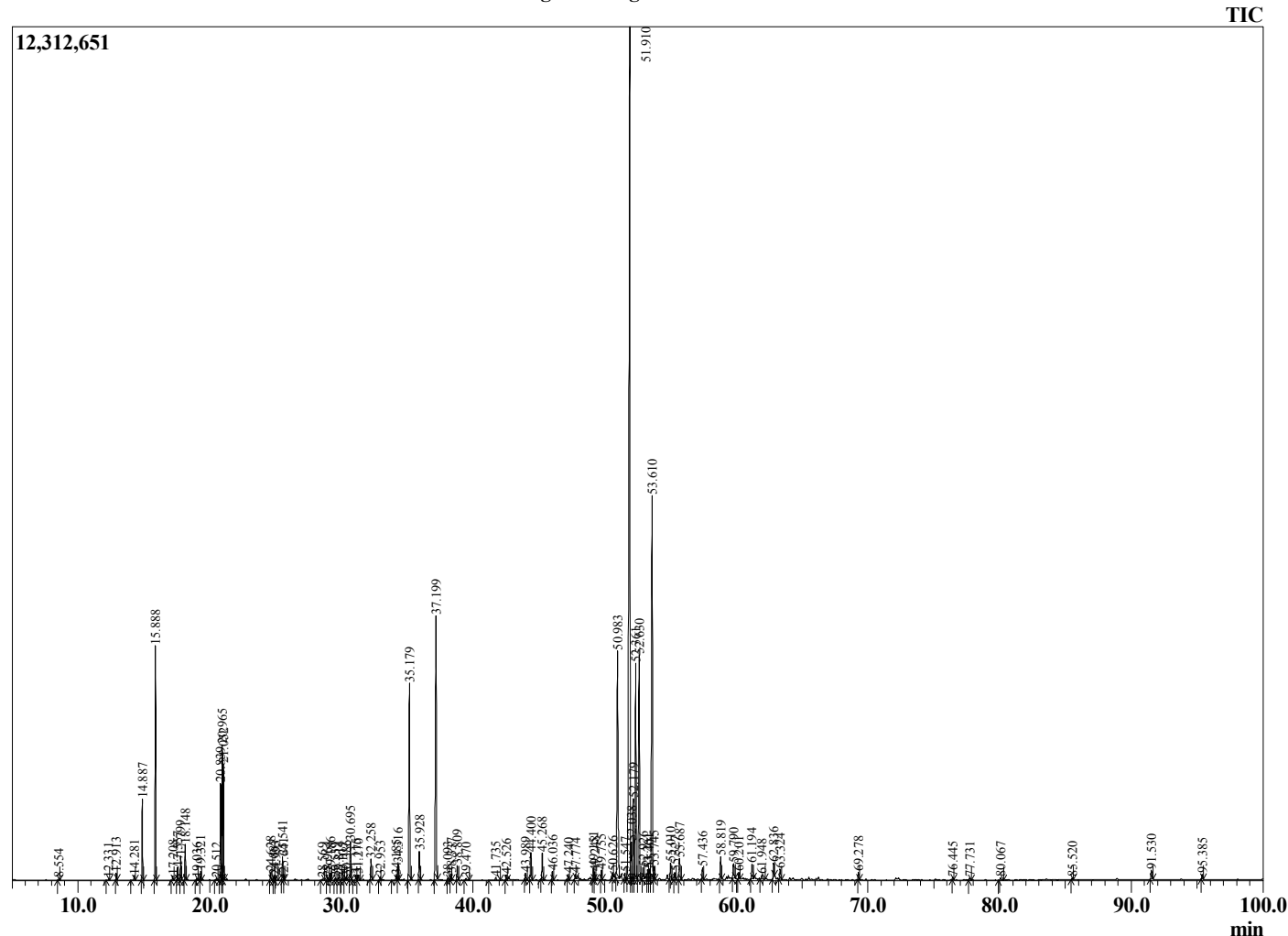
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 10/27/2020 12:50:01 PM
 Sample Type : Essential Oil
 Sample Name : Ginger Oil -BIOAROMA
 Sample ID : BA29IV
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

| R.Time | Name | Area% |
|--------|-----------------------------|-------|
| 8.554 | Hexanal | 0.05 |
| 12.331 | 2-Heptanone | 0.03 |
| 12.913 | 2-Heptanol | 0.12 |
| 14.281 | Tricyclene | 0.09 |
| 14.887 | alpha-Pinene | 1.44 |
| 15.888 | Camphene | 4.30 |
| 17.208 | Sabinene | 0.08 |
| 17.557 | beta-Pinene | 0.24 |
| 17.799 | 6-Methyl-5-hepten-2-one | 0.45 |
| 18.148 | Myrcene | 0.66 |
| 19.036 | Octanal | 0.04 |
| 19.321 | alpha-Phellandrene | 0.17 |
| 20.512 | para-Cymene | 0.05 |
| 20.839 | Limonene | 2.05 |
| 20.965 | beta-Phellandrene | 2.78 |
| 21.052 | 1,8-Cineole | 2.18 |
| 24.628 | Terpinolene | 0.15 |
| 24.887 | 2-Nonanone | 0.10 |
| 24.993 | Rosefuran | 0.09 |
| 25.541 | Linalool | 0.51 |
| 25.641 | 2-Nonanol | 0.11 |
| 28.569 | Unidentified | 0.03 |
| 28.964 | Camphor | 0.08 |
| 29.186 | Citronellal | 0.14 |
| 29.539 | trans-beta-Terpineol | 0.05 |
| 29.814 | Verbenol | 0.08 |
| 30.105 | Isoborneol | 0.03 |
| 30.386 | Unidentified | 0.08 |
| 30.695 | Borneol | 0.83 |
| 31.115 | trans-Isocitral | 0.12 |
| 31.270 | Terpinen-4-ol | 0.13 |
| 32.258 | alpha-Terpineol | 0.49 |
| 32.953 | Decanal | 0.08 |
| 34.185 | Nerol | 0.09 |
| 34.316 | Citronellol | 0.35 |
| 35.179 | Neral | 4.92 |
| 35.928 | Geraniol | 0.67 |
| 37.199 | Geranial | 7.15 |
| 38.093 | Unidentified | 0.06 |
| 38.337 | Bornyl acetate | 0.13 |
| 38.809 | 2-Undecanone | 0.32 |
| 39.470 | 2-Undecanol | 0.07 |
| 41.735 | delta-Elementene | 0.10 |
| 42.526 | Citronellyl acetate | 0.13 |
| 43.989 | Cyclosativene | 0.20 |
| 44.400 | alpha-Copaene | 0.77 |
| 45.268 | trans-beta-Elementene | 0.62 |
| 46.036 | 7-epi-Sesquithujene | 0.19 |
| 47.240 | trans-beta-Caryophyllene | 0.12 |
| 47.774 | gamma-Elementene | 0.10 |
| 49.151 | (E)-beta-Farnesene | 0.29 |
| 49.248 | Unidentified | 0.18 |
| 49.755 | Alloaromadendrene | 0.23 |
| 50.626 | trans-Cadina-1(6),4-diene | 0.10 |
| 50.983 | Ar-Curcumene | 6.89 |
| 51.547 | beta-Selinene | 0.15 |
| 51.910 | alpha-Zingiberene | 28.33 |
| 52.038 | alpha-Selinene | 1.04 |
| 52.179 | trans-Muurola-4(14),5-diene | 2.09 |
| 52.361 | (E,E)-alpha-Farnesene | 5.26 |
| 52.630 | beta-Bisabolene | 5.70 |
| 52.926 | gamma-Cadinene | 0.30 |

Chromatogram Ginger Oil - BIOAROMA



Comments:

The analysis of this Ginger batch sample meets the expected chemical profile for authentic essential oil of *Zingiber officinale*. 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% |
|--------|------------------------------|--------|
| 53.261 | delta-Cadinene | 0.21 |
| 53.401 | alpha-Panasinsene | 0.24 |
| 53.610 | beta-Sesquiphellandrene | 10.34 |
| 53.745 | (E)-gamma-Bisabolene | 0.30 |
| 55.010 | alpha-Elemeol | 0.40 |
| 55.327 | cis-Sesquisabinene hydrate | 0.16 |
| 55.687 | trans-Nerolidol | 0.70 |
| 57.436 | trans-Sesquisabinene hydrate | 0.28 |
| 58.819 | Zingiberenol | 0.54 |
| 59.790 | Unidentified | 0.44 |
| 60.201 | Zingerone | 0.15 |
| 61.194 | alpha-Eudesmol | 0.43 |
| 61.948 | beta-Bisabolol | 0.12 |
| 62.836 | Unidentified | 0.31 |
| 63.324 | Unidentified | 0.32 |
| 69.278 | Unidentified | 0.16 |
| 76.445 | Geranyl-p-cymene | 0.07 |
| 77.731 | Unidentified | 0.06 |
| 80.067 | Unidentified | 0.07 |
| 85.520 | Unidentified | 0.05 |
| 91.530 | [6]-Shogaol | 0.23 |
| 95.385 | [6]-Gingerol | 0.12 |
| | | 100.00 |

Sample Information

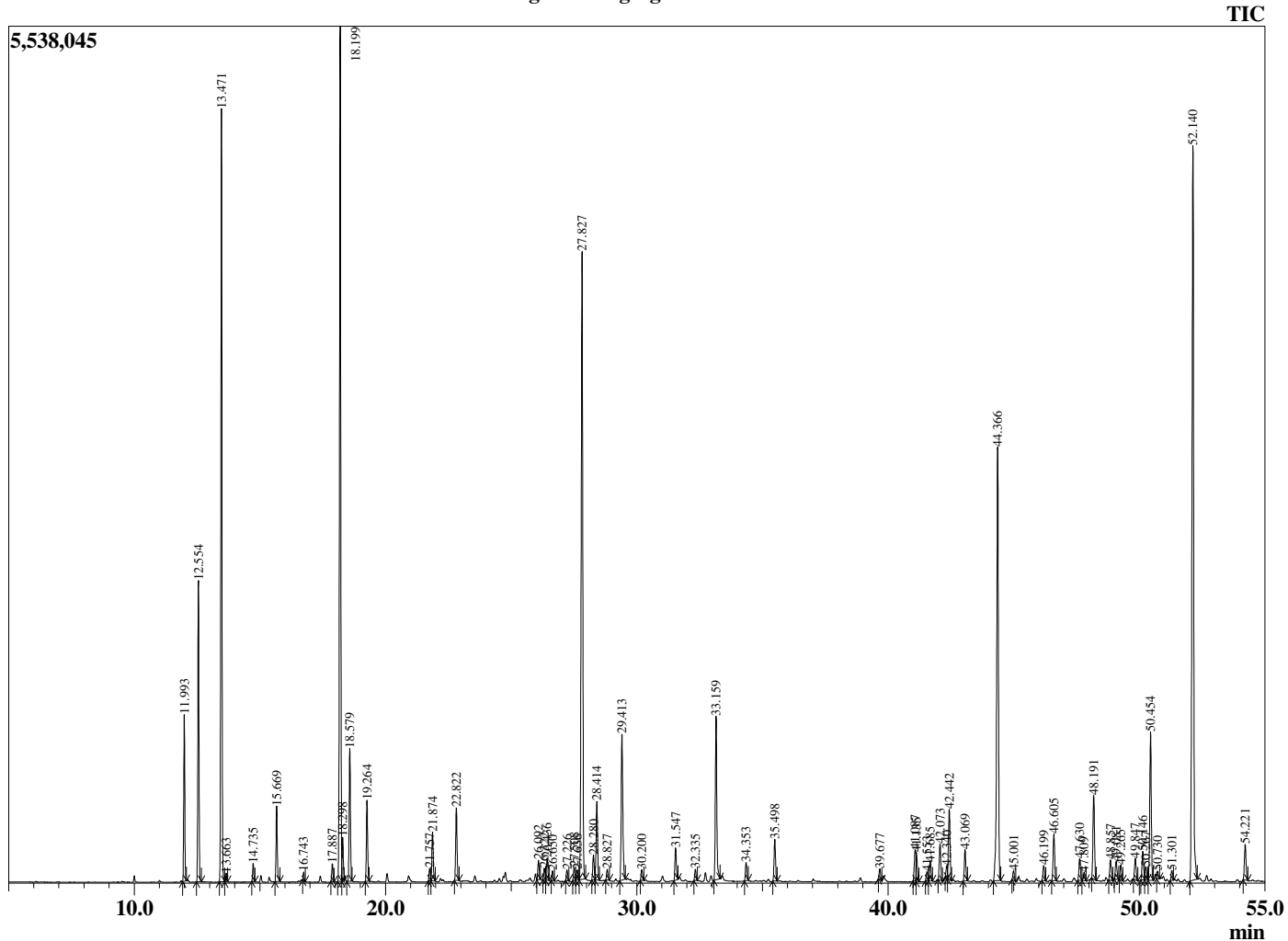
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/11/2020 8:54:42 AM
 Sample Type : Essential Oil
 Sample Name : Gingergrass - BIOAROMA
 Sample ID : BA18FV
 Injection Volume : 0.10
 Instrument ID : GC-4



Peak Report TIC

| R.Time | Name | Area% |
|--------|-------------------------------|--------|
| 11.993 | Tricyclene | 2.16 |
| 12.554 | alpha-Pinene | 4.05 |
| 13.471 | Camphene | 10.70 |
| 13.663 | Thuja-2,4(10)diene | 0.11 |
| 14.735 | Sabinene | 0.25 |
| 15.669 | Myrcene | 1.14 |
| 16.743 | alpha-Phellandrene | 0.11 |
| 17.887 | para-Cymene | 0.26 |
| 18.199 | Limonene | 13.48 |
| 18.298 | beta-Phellandrene | 0.64 |
| 18.579 | cis-beta-Ocimene | 2.04 |
| 19.264 | trans-beta-Ocimene | 1.22 |
| 21.757 | Camphenilone | 0.19 |
| 21.874 | Terpinolene | 0.83 |
| 22.822 | Linalool | 1.20 |
| 26.092 | Camphor | 0.30 |
| 26.322 | trans-Verbenol | 0.18 |
| 26.436 | Citronellal | 0.37 |
| 26.650 | trans-beta-Terpineol | 0.16 |
| 27.226 | Isoborneol | 0.17 |
| 27.508 | Unidentified | 0.22 |
| 27.636 | Unidentified | 0.17 |
| 27.827 | Borneol | 12.12 |
| 28.280 | Unidentified | 0.44 |
| 28.414 | Terpinen-4-ol | 1.41 |
| 28.827 | para-Cymen-8-ol | 0.19 |
| 29.413 | alpha-Terpineol | 2.81 |
| 30.200 | Decanal | 0.20 |
| 31.547 | Citronellol | 0.57 |
| 32.335 | Neral | 0.19 |
| 33.159 | Geraniol | 2.98 |
| 34.353 | Geranial | 0.32 |
| 35.498 | Bornyl acetate | 0.76 |
| 39.677 | alpha-Cubebene | 0.19 |
| 41.087 | Isoledene | 0.59 |
| 41.135 | Cyclosativene | 0.43 |
| 41.553 | alpha-Copaene | 0.15 |
| 41.685 | Geranyl acetate | 0.34 |
| 42.073 | beta-Bourbonene | 0.67 |
| 42.340 | beta-Cubebene | 0.19 |
| 42.442 | beta-Elemene | 1.35 |
| 43.069 | Methyleugenol | 0.56 |
| 44.366 | beta-Caryophyllene | 9.02 |
| 45.001 | beta-Copaene | 0.18 |
| 46.199 | trans-Murrola-3,5-diene | 0.28 |
| 46.605 | alpha-Humulene | 0.89 |
| 47.630 | 10-beta-H-Cadina-1(6),4-diene | 0.41 |
| 47.809 | trans-Cadina-1(6),4-diene | 0.16 |
| 48.191 | Germacrene D | 1.64 |
| 48.857 | trans-Muurolo-4(14),5-diene | 0.39 |
| 49.081 | Unidentified | 0.38 |
| 49.265 | alpha-Muuroloene | 0.28 |
| 49.847 | beta-Bisabolene | 0.41 |
| 50.146 | gamma-Cadinene | 0.55 |
| 50.267 | Unidentified | 0.25 |
| 50.454 | delta-Cadinene | 2.83 |
| 50.730 | Zonarene | 0.12 |
| 51.301 | trans-Cadine-1,4-diene | 0.17 |
| 52.140 | Elemicin | 14.92 |
| 54.221 | Caryophyllene oxide | 0.70 |
| | | 100.00 |

Chromatogram Gingergrass - BIOAROMA



Comments:

The analysis of this Gingergrass batch sample meets the expected chemical profile for authentic essential oil of *Cymbopogon martinii* var. *softa*. 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.

Sample Information

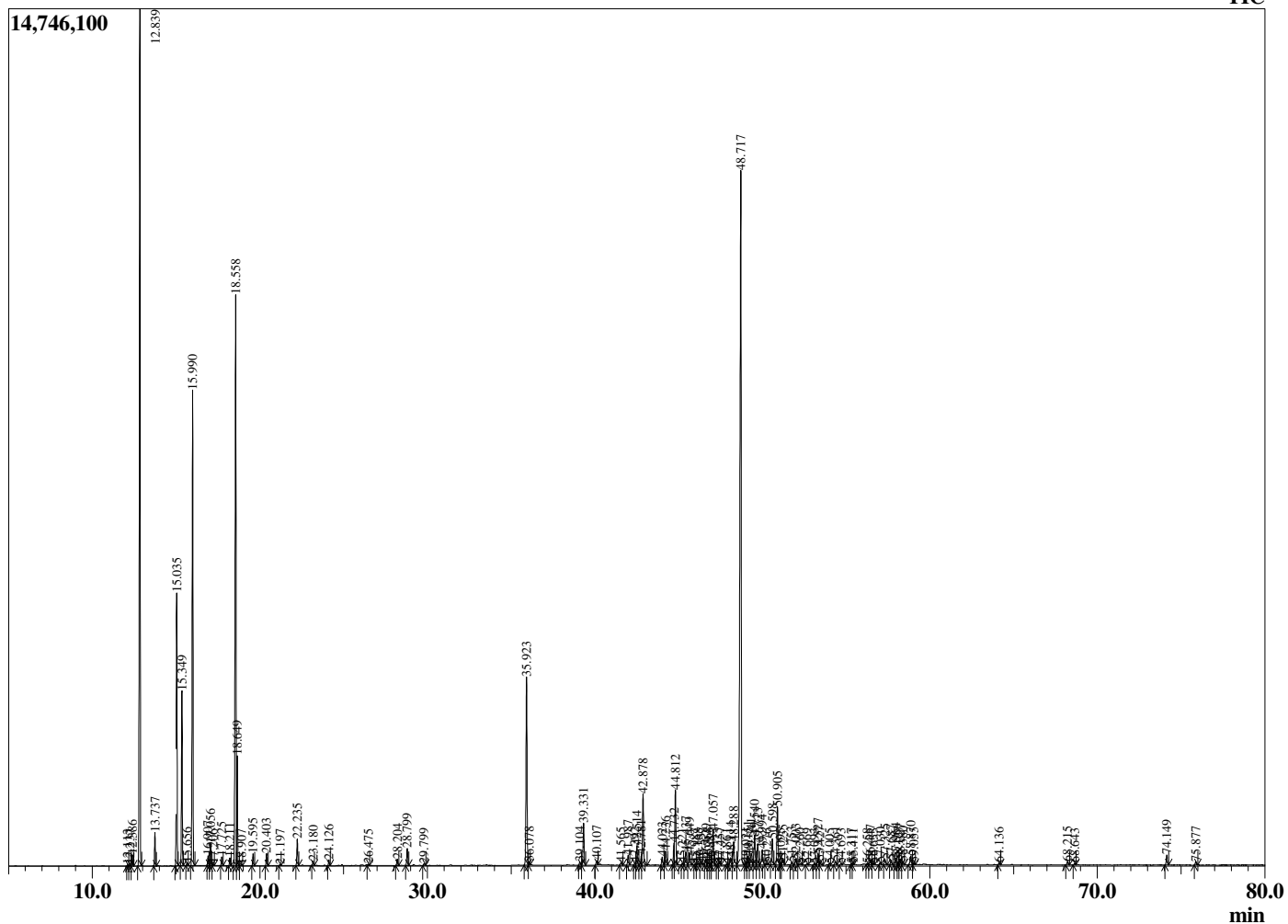
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/6/2021 8:19:09 PM
 Sample Type : Essential Oil
 Sample Name : Goldenrod - BIOAROMA
 Sample ID : BB22AN
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

| R.Time | Name | Area% |
|--------|------------------------------|-------|
| 12.113 | Hashishene | 0.03 |
| 12.237 | Tricyclene | 0.02 |
| 12.386 | alpha-Thujene | 0.19 |
| 12.839 | alpha-Pinene | 17.25 |
| 13.737 | Camphene | 0.61 |
| 15.035 | Sabinene | 5.27 |
| 15.349 | beta-Pinene | 3.29 |
| 15.656 | Unidentified | 0.05 |
| 15.990 | Myrcene | 9.56 |
| 16.907 | Pseudolimonene | 0.19 |
| 17.056 | alpha-Phellandrene | 0.43 |
| 17.206 | delta-3-Carene | 0.02 |
| 17.725 | alpha-Terpinene | 0.16 |
| 18.211 | para-Cymene | 0.16 |
| 18.558 | Limonene | 13.52 |
| 18.649 | beta-Phellandrene | 1.92 |
| 18.907 | (Z)-beta-Ocimene | 0.02 |
| 19.595 | (E)-beta-Ocimene | 0.25 |
| 20.403 | gamma-Terpinene | 0.25 |
| 21.197 | trans-Sabinene hydrate | 0.02 |
| 22.235 | Terpinolene | 0.55 |
| 23.180 | Linalool | 0.09 |
| 24.126 | Unidentified | 0.12 |
| 26.475 | Camphor | 0.03 |
| 28.204 | Borneol | 0.15 |
| 28.799 | Terpinen-4-ol | 0.39 |
| 29.799 | alpha-Terpineol | 0.05 |
| 35.923 | Bornyl acetate | 4.64 |
| 36.078 | Isobornyl acetate | 0.08 |
| 39.104 | Elemene isomer | 0.08 |
| 39.331 | delta-Elemene | 1.06 |
| 40.107 | alpha-Cubebene | 0.11 |
| 41.565 | alpha-Ylangene | 0.08 |
| 41.987 | alpha-Copaene | 0.25 |
| 42.392 | Elemene isomer | 0.06 |
| 42.514 | beta-Bourbonene | 0.49 |
| 42.781 | beta-Cubebene | 0.22 |
| 42.878 | beta-Elemene | 1.91 |
| 44.023 | alpha-Gurjunene | 0.20 |
| 44.236 | Unidentified | 0.36 |
| 44.732 | beta-Ylangene | 0.42 |
| 44.812 | trans-beta-Caryophyllene | 2.02 |
| 45.221 | Unidentified | 0.04 |
| 45.437 | beta-Copaene | 0.41 |
| 45.649 | trans-alpha-Bergamotene | 0.34 |
| 45.987 | Aromadendrene | 0.03 |
| 46.168 | 6,9-Guanidiene | 0.04 |
| 46.357 | Unidentified | 0.08 |
| 46.629 | cis-Murrola-3,5-diene | 0.18 |
| 46.768 | trans-Murrola-3,5-diene | 0.08 |
| 46.885 | (E)-beta-Farnesene | 0.03 |
| 47.057 | alpha-Humulene | 0.94 |
| 47.323 | cis-Murrola-4(14),5-diene | 0.04 |
| 47.457 | cis-Cadina-1(6),4-diene | 0.08 |
| 47.861 | 10-beta-H-Cadina1(6),4-diene | 0.03 |
| 48.114 | Unidentified | 0.25 |
| 48.288 | trans-Cadina-1(6),4-diene | 0.75 |
| 48.717 | Germacrene D | 22.09 |
| 49.021 | delta-Selinene | 0.06 |
| 49.151 | beta-Selinene | 0.23 |
| 49.341 | trans-Muuro1a-4(14),5-diene | 0.42 |
| 49.540 | Bicyclogermacrene | 0.84 |

Chromatogram Goldenrod - BIOAROMA



Comments:

The analysis of this Goldenrod batch sample meets the expected chemical profile for authentic essential oil of *Solidago canadensis*. 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% |
|--------|-------------------------|--------|
| 49.723 | alpha-Muurolene | 0.61 |
| 49.994 | Unidentified | 0.49 |
| 50.276 | beta-Bisabolene | 0.04 |
| 50.598 | gamma-Cadinene | 0.67 |
| 50.905 | delta-Cadinene | 1.49 |
| 51.095 | trans-Calamenene | 0.03 |
| 51.235 | beta-Sesquiphellandrene | 0.17 |
| 51.753 | trans-Cadina-1,4-diene | 0.08 |
| 52.003 | alpha-Cadinene | 0.17 |
| 52.260 | alpha-Calacorene | 0.05 |
| 52.669 | alpha-Elemol | 0.04 |
| 53.093 | Unidentified | 0.02 |
| 53.327 | Germacrene B | 0.31 |
| 53.427 | (E)-Nerolidol | 0.11 |
| 54.005 | Unidentified | 0.04 |
| 54.361 | Spathulenol | 0.10 |
| 54.693 | Caryophyllene oxide | 0.04 |
| 55.317 | Unidentified | 0.03 |
| 55.411 | Viridiflorol | 0.04 |
| 56.258 | Unidentified | 0.03 |
| 56.447 | Unidentified | 0.13 |
| 56.633 | Unidentified | 0.03 |
| 57.030 | Humulane-1,6-dien-3-ol | 0.05 |
| 57.325 | Unidentified | 0.14 |
| 57.687 | Unidentified | 0.13 |
| 57.964 | Unidentified | 0.18 |
| 58.127 | tau-Cadinol | 0.09 |
| 58.227 | epi-alpha-Muurolol | 0.17 |
| 58.380 | delta-Cadinol | 0.08 |
| 58.870 | alpha-Cadinol | 0.31 |
| 59.055 | Unidentified | 0.05 |
| 64.136 | Unidentified | 0.06 |
| 68.215 | Unidentified | 0.09 |
| 68.643 | Neophytadiene | 0.04 |
| 74.149 | Myrcene dimer I | 0.27 |
| 75.877 | Myrcene dimer II | 0.09 |
| | | 100.00 |