

Sample Information

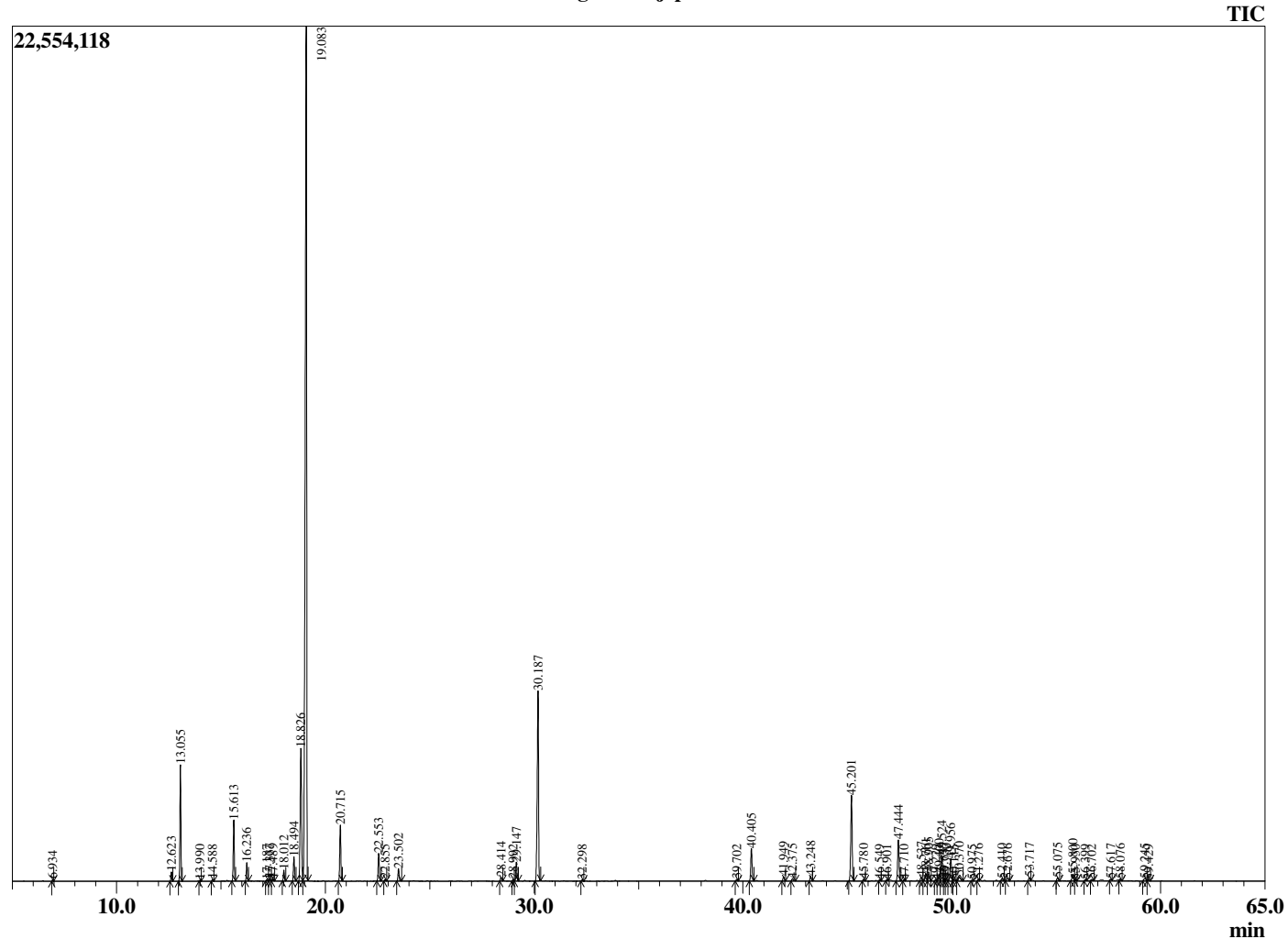
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 4/25/2020 11:00:55 AM
 Sample Type : Essential Oil
 Sample Name : Cajeput - Barefut
 Sample ID : 0103
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
4.366	2-Methylbutanal	0.03
6.934	Acetylbutyryl	0.05
12.623	alpha-Thujene	0.34
13.055	alpha-Pinene	4.40
13.990	Camphene	0.04
14.588	Benzaldehyde	0.07
15.613	beta-Pinene	2.50
16.236	Myrcene	0.72
17.187	Pseudolimonene	0.06
17.337	alpha-Phellandrene	0.11
17.489	delta-3-Carene	0.08
18.012	alpha-Terpinene	0.45
18.494	para-Cymene	1.04
18.826	Limonene	7.43
19.083	1,8-cineole	50.83
20.715	gamma-Terpinene	2.46
22.553	Terpinolene	1.27
22.855	para-Cymenene	0.06
23.502	Linalool	0.57
28.414	delta-Terpineol	0.19
28.992	Unidentified	0.07
29.147	Terpinen-4-ol	0.91
30.187	alpha-Terpineol	10.09
32.298	Unidentified	0.06
39.702	delta-Elementene	0.07
40.405	alpha-Terpinyl acetate	1.64
41.949	alpha-Ylangene	0.22
42.375	alpha-Copaene	0.15
43.248	beta-Elementene	0.24
45.201	beta-Caryophyllene	4.69
45.780	gamma-Elementene	0.09
46.549	6,9-Guaiadiene	0.04
46.901	Unidentified	0.04
47.444	alpha-Humulene	2.28
47.710	Alloaromadendrene	0.05
48.537	Selina-4,11-diene	0.21
48.761	Unidentified	0.44
48.905	alpha-Amorphene	0.47
49.229	Unidentified	0.06
49.400	delta-Selinene	0.40
49.524	beta-Selinene	1.43
49.637	Viridiflorene (Ledene)	0.14
49.730	trans-Murrola-4(14),5-diene	0.11
49.956	alpha-Selinene	1.27
50.115	Unidentified	0.08
50.370	delta-Amorphene	0.34
50.975	gamma-Cadinene	0.04
51.276	delta-Cadinene	0.10
52.410	Eremophilene isomer	0.13
52.676	Unidentified	0.18
53.717	Germacrene B	0.16
55.075	Caryophyllene oxide	0.15
55.800	Viridiflorol	0.37
55.930	Guaiol	0.05
56.399	Ledol	0.05
56.702	Humulene epoxide II	0.07
57.617	Unidentified	0.06
58.076	Unidentified	0.08
59.245	alpha-Eudesmol	0.19
59.429	Unidentified	0.07
		100.00

Chromatogram Cajeput - Barefut



Comments:

The analysis of this Cajeput batch sample meets the expected chemical profile for authentic essential oil of *Melaleuca cajuputi*. 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.