

Sample Information

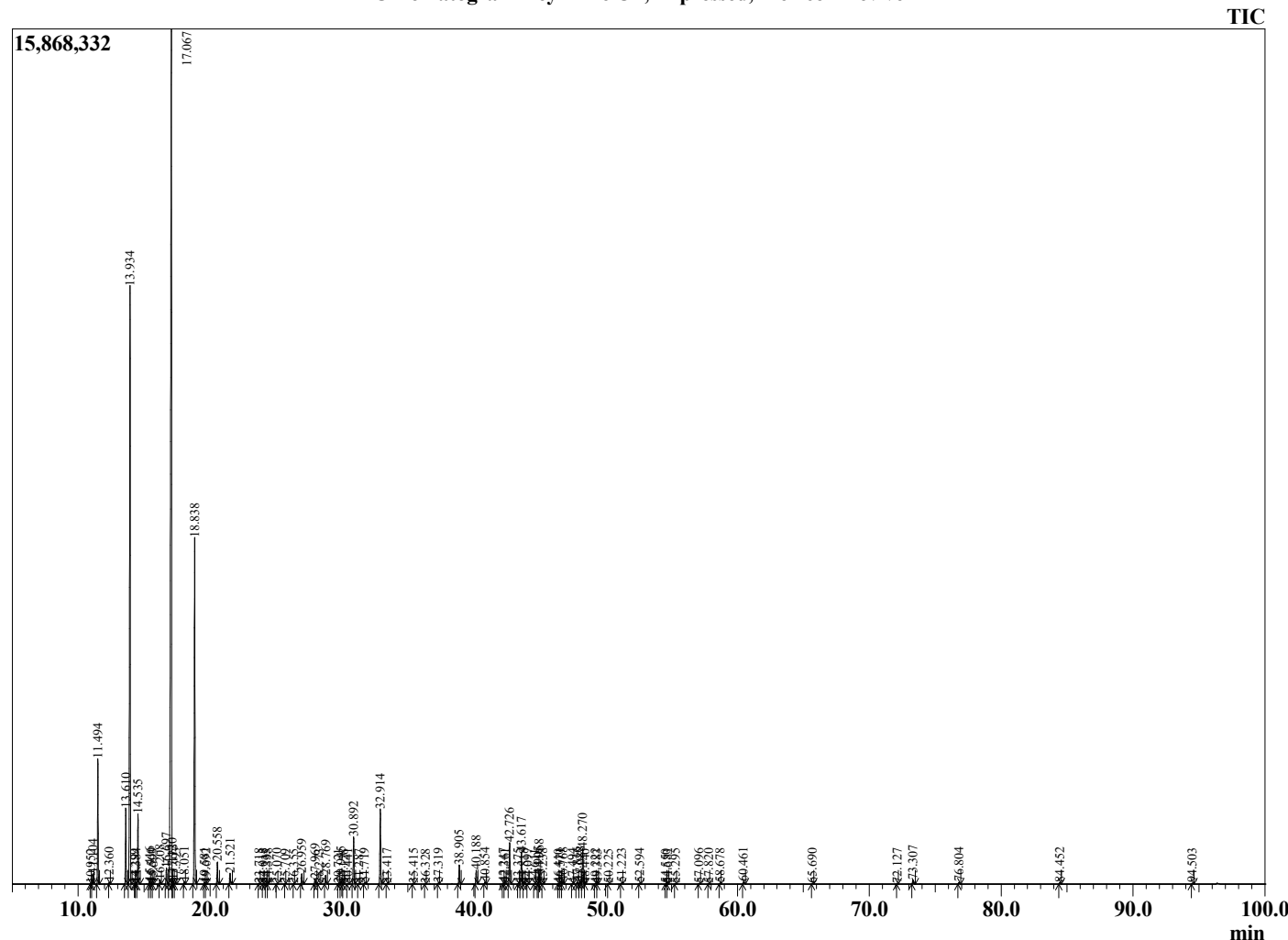
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 6/6/2023 5:07:06 PM
 Sample Type : Essential Oil
 Sample Name : Key Lime Oil, Expressed, Mexico - Revive
 Sample ID : 1L
 Injection Volume : 0.10
 Instrument ID: : GC-2



Peak Report TIC

R.Time	Name	Area%
10.952	Tricyclene	0.00
11.104	alpha-Thujene	0.28
11.494	alpha-Pinene	3.46
12.360	Camphene	0.05
13.610	Sabinene	2.39
13.934	beta-Pinene	21.36
14.299	Unidentified	0.01
14.384	para-Menth-3-ene	0.02
14.535	Myrcene	2.12
15.416	Pseudolimonene	0.09
15.560	alpha-Phellandrene	0.03
15.693	delta-3-Carene	0.01
16.208	alpha-Terpinene	0.14
16.697	para-Cymene	0.60
17.067	Limonene	41.74
17.120	beta-Phellandrene	0.17
17.173	1,8-Cineole	0.12
17.393	cis-beta-Ocimene	0.04
18.051	trans-beta-Ocimene	0.07
18.838	gamma-Terpinene	12.59
19.581	cis-Linalool oxide (furanoid)	0.05
19.692	Pinol	0.03
20.558	Terpinolene	0.75
21.521	Linalool	0.41
23.718	cis-Limonene oxide	0.02
24.013	trans-Limonene oxide	0.01
24.235	trans-Pinocarveol	0.01
24.398	Epoxyterpinolene	0.01
25.070	Citronellal	0.02
25.709	Pinocarvone	0.01
26.355	Borneol	0.01
26.959	Terpinen-4-ol	0.38
27.969	alpha-Terpineol	0.19
28.273	Unidentified	0.01
28.769	Decanal	0.32
29.721	Unidentified	0.01
29.945	Nerol	0.09
30.128	Citronellol	0.01
30.441	Unidentified	0.02
30.892	Neral	1.75
31.287	Carvone	0.01
31.719	Geraniol	0.05
32.914	Geranial	2.89
33.417	Perillaldehyde	0.01
35.415	Unidentified	0.02
36.328	Unidentified	0.01
37.319	delta-Elemene	0.03
38.905	Neryl acetate	0.75
40.188	Geranyl acetate	0.52
40.854	beta-Elemene	0.08
42.247	Dodecanal	0.04
42.361	cis-alpha-Bergamotene	0.04
42.726	beta-Caryophyllene	1.71
43.375	gamma-Elemene	0.02
43.617	trans-alpha-Bergamotene	1.28
43.818	Unidentified	0.03
44.097	Sesquisabinene	0.03
44.611	Humulen-(v1)	0.01
44.905	trans-beta-Farnesene	0.05
44.968	alpha-Humulene	0.41
45.238	beta-Santalene	0.02
46.410	Isoitalicene	0.01

Chromatogram Key Lime Oil, Expressed, Mexico - Revive



Comments:

The analysis of this Key Lime batch sample meets the expected chemical profile for authentic essential oil of *Citrus aurantifolia*. 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%
46.571	Germacrene D	0.03
46.768	trans-beta-Bergamotene	0.09
47.494	alpha-Selinene	0.02
47.836	(Z)-alpha-Bisabolene	0.07
48.088	trans,trans-alpha-Farnesene	0.12
48.270	beta-Bisabolene	1.52
48.440	(Z)-gamma-Bisabolene	0.01
49.222	beta-Sesquiphellandrene	0.02
49.383	(E)-gamma-Bisabolene	0.01
50.225	(E)-alpha-Bisabolene	0.02
51.223	Germacrene B	0.05
52.594	Caryophyllene oxide	0.04
54.550	Unidentified	0.01
54.683	Unidentified	0.01
55.295	Unidentified	0.02
57.096	Unidentified	0.02
57.820	Unidentified	0.02
58.678	alpha-Bisabolol	0.03
60.461	Hernianin	0.09
65.690	Hexadecanal	0.03
72.127	meta-Camphorene	0.02
73.307	Citropten	0.18
76.804	Bergaptene	0.07
84.452	Isopimpinellin	0.06
94.503	Unidentified	0.04
		100.00