

Sample Information

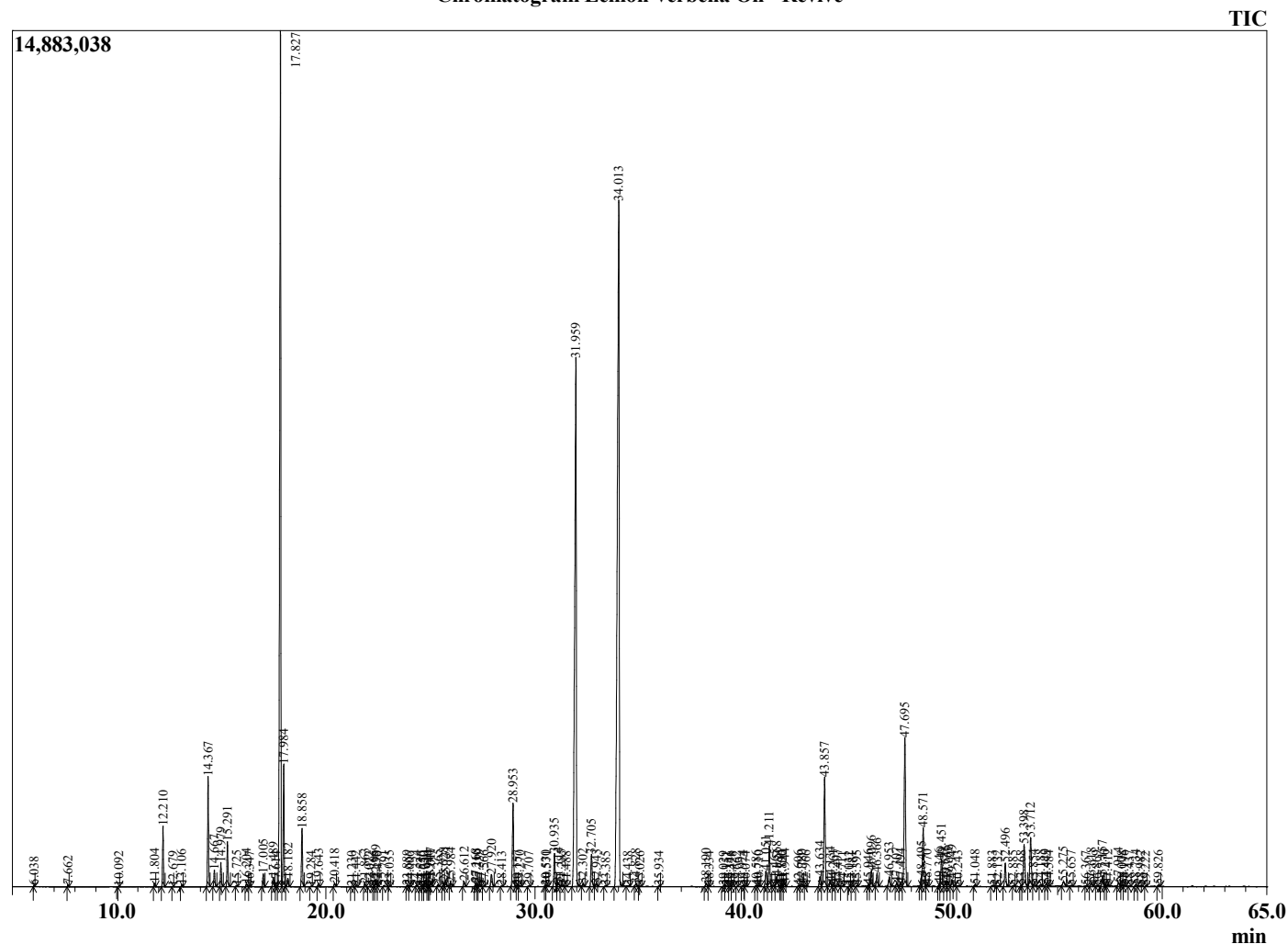
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 6/9/2023 9:29:27 AM
 Sample Type : Essential Oil
 Sample Name : Lemon Verbena Oil - Revive
 Sample ID : 8G
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
3.595	2-Methyl-3-buten-2-ol	0.01
6.038	Methyl-alpha-methylbutyrate	0.02
7.662	Unidentified	0.03
10.092	Unidentified	0.01
11.804	alpha-Thujene	0.06
12.210	alpha-Pinene	1.11
12.679	Dihydromyrcene	0.00
13.106	Camphene	0.04
14.367	Sabinene	2.09
14.667	beta-Pinene	0.37
14.979	6-Methyl-hept-5-en-2-one	0.48
15.291	Myrcene	0.89
15.725	Octan-3-ol	0.02
16.204	Pseudolimonene	0.07
16.347	alpha-Phellandrene	0.01
17.005	alpha-Terpinene	0.26
17.489	para-Cymene	0.21
17.614	Methyl octyl ether	0.01
17.827	Limonene	20.40
17.984	1,8-Cineole	2.51
18.182	cis-beta-Ocimene	0.19
18.858	trans-beta-Ocimene	1.25
19.284	Melonal	0.01
19.643	gamma-Terpinene	0.07
20.418	trans-Sabinene hydrate	0.07
21.230	Unidentified	0.01
21.442	Terpinolene	0.02
21.863	Ocimenone isomer	0.06
22.072	Unidentified	0.01
22.305	Perillene	0.03
22.389	Linalool	0.18
22.470	cis-Sabinene hydrate	0.01
22.791	alpha-Pinene oxide	0.04
23.035	Unidentified	0.02
23.889	trans-para-Mentha-2,8-dienol	0.02
24.006	Unidentified	0.01
24.324	allo-Ocimene	0.02
24.526	Limona ketone	0.01
24.650	cis-Limonene oxide	0.01
24.720	Unidentified	0.01
24.910	cis-para-Mentha-2,8-dien-1-ol	0.02
24.944	trans-Limonene oxide	0.03
25.017	Epiphocitral A	0.10
25.365	exo-Isocitral	0.04
25.628	Camphor	0.10
25.731	trans-Chrysanthemal	0.14
25.984	Citronellal	0.09
26.612	Isoneral	0.12
27.168	Rose furan oxide	0.09
27.210	delta-Terpineol	0.04
27.339	Borneol	0.06
27.566	Unidentified	0.02
27.920	Isogeranial + Terpinen-4-ol	0.36
28.413	trans-Isocarveol	0.02
28.953	alpha-Terpineol	2.10
29.157	Unidentified	0.01
29.270	Unidentified	0.03
29.707	Unidentified	0.02
30.530	Unidentified	0.01
30.571	trans-Carveol	0.03
30.935	Nerol	0.85
31.114	Citronellol	0.12

Chromatogram Lemon Verbena Oil - Revive



Comments:

The analysis of this Lemon Verbena batch sample meets the expected chemical profile for authentic essential oil of *Lippia citriodora*. 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%
31.285	cis-para-Mentha-1(7),8-dien-2-ol	0.05
31.488	cis-Carveol	0.02
31.959	Neral	17.37
32.302	Carvone	0.07
32.705	Geraniol	0.83
32.943	Piperitone	0.06
33.385	Unidentified	0.02
34.013	Geranial	26.69
34.438	Perillaldehyde	0.02
34.828	Unidentified	0.07
35.026	Bornyl acetate	0.02
35.934	Carvacrol	0.02
38.190	delta-Elemene	0.09
38.334	Unidentified	0.02
39.029	Unidentified	0.02
39.151	alpha-Terpinyl acetate	0.03
39.346	Phenethyl propionate	0.02
39.428	Eugenol	0.02
39.662	Unidentified	0.01
39.924	Neryl acetate	0.02
40.074	Unidentified	0.02
40.586	Cyclosativene	0.03
40.710	Unidentified	0.03
41.051	alpha-Copaene	0.43
41.211	Geranyl acetate	1.01
41.465	2-epi-alpha-Funebrene	0.04
41.568	beta-Bourbonene	0.31
41.790	alpha-Bourbonene	0.01
41.836	beta-Cubebene	0.04
41.944	beta-Elemene	0.08
42.606	Methyleugenol	0.02
42.780	alpha-Funebrene	0.07
42.966	Unidentified	0.01
43.634	alpha-Cedrene	0.27
43.857	trans-beta-Caryophyllene	3.12
44.134	beta-Cedrene	0.14
44.261	Unidentified	0.05
44.497	beta-Copaene	0.06
44.711	trans-alpha-Bergamotene	0.02
45.032	Aromadendrene	0.01
45.181	Unidentified	0.01
45.395	Isogermacrene D	0.02
45.946	trans-beta-Farnesene	0.04
46.096	alpha-Humulene	0.44
46.366	Alloaromadendrene	0.36
46.953	Geranyl propionate	0.29
47.307	gamma-Murolene	0.09
47.494	gamma-Curcumene	0.08
47.695	alpha-Curcumene	4.28
48.495	alpha-Zingiberene	0.19
48.571	Bicyclogermacrene	1.70
48.770	alpha-Murolene	0.04
49.346	beta-Bisabolene	0.06
49.451	beta-Curcumene	0.77
49.646	gamma-Cadinene	0.16
49.763	Cubedol analogue	0.15
49.949	delta-Cadinene	0.19
50.243	Unidentified	0.03
51.048	alpha-Cadinene	0.05
51.883	Unidentified	0.05
52.132	Unidentified	0.02
52.496	trans-Nerolidol	0.62
52.885	Unidentified	0.01

R.Time	Name	Area%
53.268	Unidentified	0.03
53.398	Spathulenol	1.30
53.712	Caryophyllene oxide	1.50
53.854	Unidentified	0.06
54.188	Unidentified	0.04
54.449	Unidentified	0.06
54.584	Cedrol analogue	0.02
55.275	Cedrol	0.17
55.657	1,10-di-epi-Cubenol	0.03
56.367	Unidentified	0.01
56.618	Unidentified	0.11
56.869	Caryophylla-4(12),8(13)-dien-5-beta-ol	0.01
57.157	epi-alpha-Cadinol	0.31
57.270	Unidentified	0.03
57.412	Unidentified	0.04
57.914	Cadin-4-en-10-ol	0.11
58.078	Unidentified	0.01
58.196	Unidentified	0.03
58.437	Unidentified	0.02
58.734	Unidentified	0.06
58.982	Unidentified	0.05
59.222	Unidentified	0.02
59.826	Acorenone B	0.05
		100.00