

Sample Information

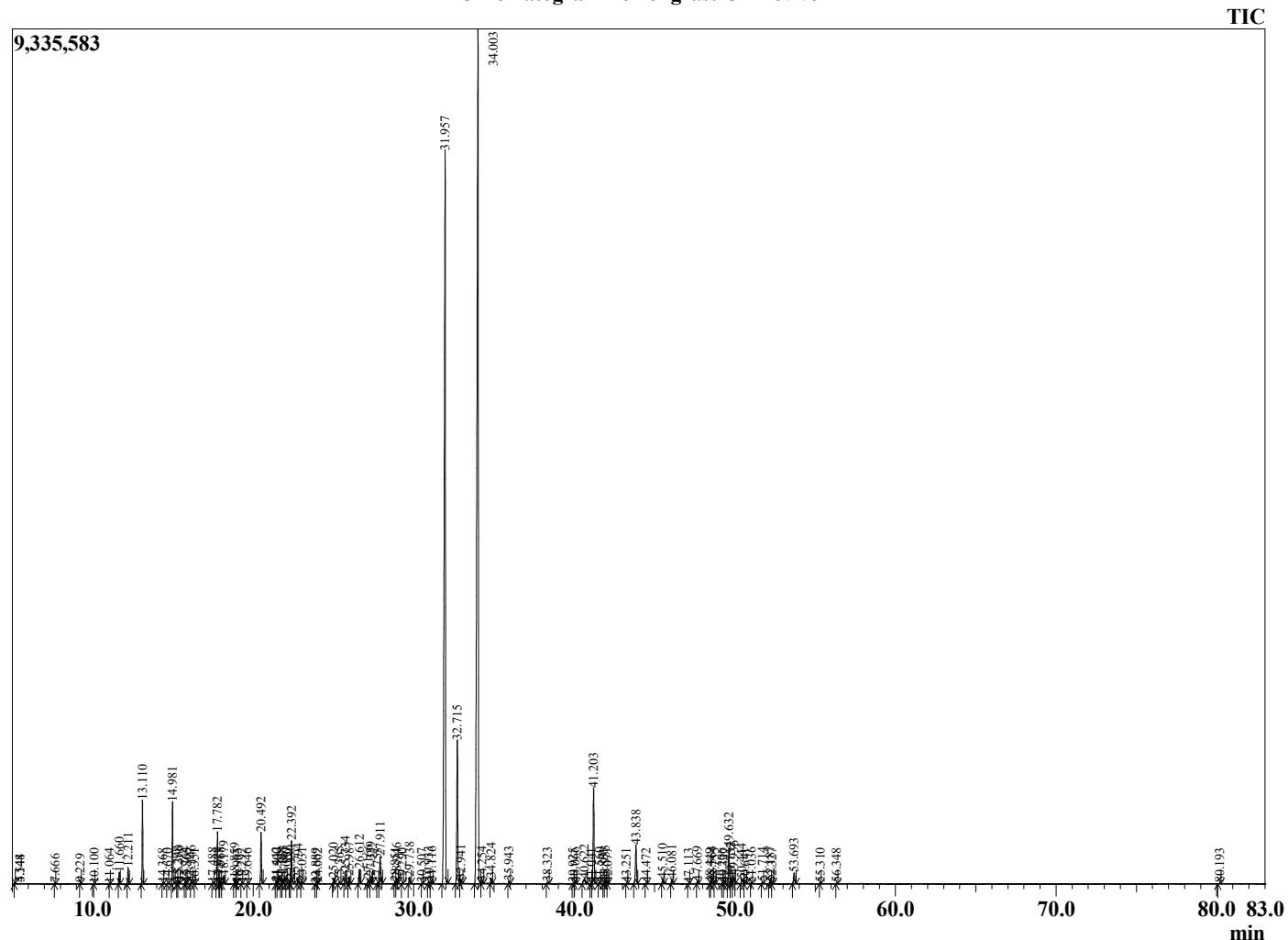
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 2/8/2023 1:30:56 AM
 Sample Type : Essential Oil
 Sample Name : Lemongrass Oil Revive
 Sample ID : 4D
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
3.592	2-Methyl-3-buten-2-ol	0.05
4.017	3-Methylbutanal	0.01
4.127	Unidentified	0.01
4.548	2-Ethylfuran	0.01
5.144	3-Methylbutanol	0.01
7.666	Unidentified	0.02
9.229	4-Heptanone	0.02
10.100	Unidentified	0.01
11.064	Unidentified	0.01
11.660	Tricyclene	0.26
12.211	alpha-Pinene	0.38
13.110	Camphene	1.99
14.368	Sabinene	0.02
14.670	beta-Pinene	0.02
14.981	6-Methyl hept-5-en-2-one	1.98
15.298	Myrcene	0.05
15.360	dehydro-1,8-Cineole	0.09
15.764	trans-Dehydroxylinalool oxide	0.04
15.865	Unidentified	0.01
16.146	Octanal	0.09
16.351	alpha-Phellandrene	0.00
17.488	para-Cymene	0.03
17.782	Limonene	1.41
17.877	beta-Phellandrene	0.02
17.968	1,8-Cineole	0.05
18.179	cis-beta-Ocimene	0.22
18.859	trans-beta-Ocimene	0.16
18.995	Unidentified	0.01
19.292	Melon aldehyde	0.02
19.646	gamma-Terpinene	0.02
20.492	4-Nonanone	1.48
21.442	Terpinolene	0.06
21.500	trans-Linalool oxide (furanoid)	0.01
21.768	4-Nonanol	0.03
21.863	Rosefuran	0.10
22.080	Unidentified	0.01
22.330	Perillene	0.07
22.392	Linalool	1.25
22.794	alpha-Pinene oxide	0.15
23.031	Unidentified	0.05
23.889	Unidentified	0.01
24.002	Unidentified	0.01
25.020	Epiphocitral A	0.17
25.365	exo-Isocitral	0.08
25.734	trans-Chrysanthemal	0.36
25.987	Citronellal	0.22
26.612	Isogeranial	0.44
27.166	Rose furan oxide	0.14
27.339	Borneol	0.23
27.753	Menthof	0.03
27.911	Isogeranial	0.99
28.851	Unidentified	0.05
28.946	alpha-Terpineol	0.18
29.290	Unidentified	0.02
29.738	Decanal	0.22
30.507	Unidentified	0.01
30.933	Nerol	0.08
31.116	Citronellol	0.07
31.957	Neral	31.27
32.715	Geraniol	4.74
32.941	Piperitone	0.12
34.003	Geranial	41.68

Chromatogram Lemongrass Oil Revive



Comments:

The analysis of this Lemongrass batch sample meets the expected chemical profile for authentic essential oil of *Cymbopogon flexuosus*. 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%
34.254	4-Undecanone	0.08
34.824	trans-Carvone oxide	0.17
35.943	Geranyl formate	0.08
38.323	Unidentified	0.05
39.925	Neryl acetate	0.02
40.066	Unidentified	0.04
40.622	Cyclosativene	0.29
41.041	alpha-Copaene	0.02
41.203	Geranyl acetate	3.14
41.560	beta-Bourbonene	0.03
41.831	beta-Cubebene	0.02
41.933	beta-Elemene	0.11
42.077	Sativene	0.02
43.251	Dodecanal	0.02
43.838	beta-Caryophyllene	1.40
44.472	Unidentified	0.02
45.510	trans-Isoeugenol	0.17
46.081	alpah-Humulene	0.14
47.113	trans-Muurola-4(14),5-diene	0.02
47.669	Germacrene D	0.07
48.449	Unidentified	0.01
48.564	epi-Cubebol	0.10
48.755	alpha-Murolene	0.02
49.206	alpha-Chamigrene	0.01
49.337	Cuparene	0.02
49.632	gamma-Cadinene	1.23
49.752	Cubebol	0.19
49.936	delta-Cadinene	0.29
50.444	trans-gamma-Bisabolene	0.20
50.641	10-epi-Cubebol	0.03
51.036	alpha-Cadinene	0.03
51.714	alpha-Elemol	0.05
52.187	Geranyl butyrate	0.09
52.327	Germacrene B	0.02
53.693	Caryophyllene oxide	0.42
55.310	Humulene epoxide II	0.02
56.348	Epicubenol	0.02
80.193	Unidentified	0.02
		100.00