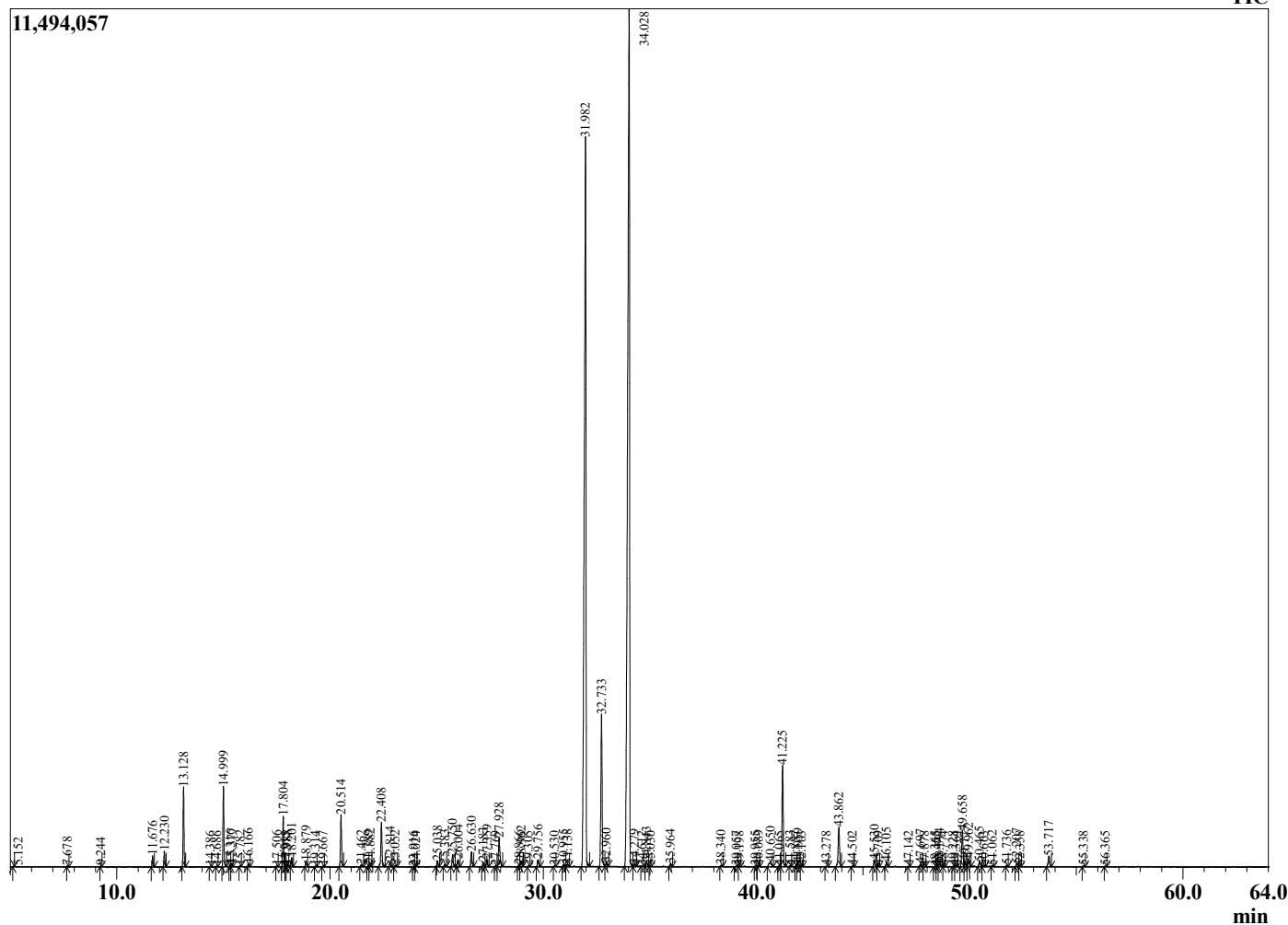


Analyzed by : Dr. Robert S. Pappas
Analyzed : 10/7/2022 11:13:14 PM
Sample Type : Essential Oil
Sample Name : Lemongrass Oil - Revive
Sample ID : 4D
Injection Volume : 0.10
Instrument ID: : GC-4



TIC



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.

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Peak Report TIC		
R.Time	Name	Area%
4.022	3-Methylbutanal	0.01
4.132	2-Methylbutanal	0.01
4.555	2-Ethylfuran	0.00
5.152	3-Methylbutanol	0.01
7.678	Unidentified	0.02
9.244	4-Heptanone	0.01
11.676	Tricyclene	0.25
12.230	alpha-Pinene	0.36
13.128	Camphene	1.85
14.386	Sabinene	0.01
14.686	beta-Pinene	0.02
14.999	6-Methyl hept-5-en-2-one	1.90
15.316	Myrcene	0.05
15.377	dehydro-1,8-Cineole	0.08
15.782	trans-Dehydroxylinalool oxide	0.03
16.166	Octanal	0.08
17.506	para-Cymene	0.03
17.804	Limonene	1.35
17.915	beta-Phellandrene	0.01
17.988	1,8-Cineole	0.05
18.201	cis-beta-Ocimene	0.23
18.879	trans-beta-Ocimene	0.15
19.314	Melonal	0.02
19.667	gamma-Terpinene	0.02
20.514	4-Nonanone	1.45
21.462	Terpinolene	0.06
21.789	4-Nonanol	0.03
21.882	Rosefuran	0.10
22.408	Linalool	1.32
22.814	alpha-Pinene oxide	0.14
23.052	Unidentified	0.04
23.916	Unidentified	0.01
24.024	Unidentified	0.01
25.038	Epiphotocitral A	0.17
25.383	exo-Isocitral	0.07
25.750	trans-Chrysanthemal	0.35
26.004	Citronellal	0.22
26.630	cis-Isocitral	0.45
27.183	Isoborneol	0.13
27.359	Borneol	0.23
27.769	Menthol	0.02
27.928	Isogeranial	1.02
28.866	Unidentified	0.05
28.962	alpha-Terpineol	0.18
29.305	Unidentified	0.02
29.756	Decanal	0.22
30.530	Unidentified	0.02
30.955	Nerol	0.08
31.138	Citronellol	0.08
31.982	Neral	31.38
32.733	Geraniol	4.85
32.960	Piperitone	0.12
34.028	Geranial	41.67
34.279	4-Undecanone	0.07
34.612	Unidentified	0.02
34.843	trans-Carvone oxide	0.14
35.030	Unidentified	0.01
35.964	Geranyl formate	0.08
38.340	Unidentified	0.04
39.057	Geranic acid	0.02
39.198	alpha-Cubebene	0.01
39.955	Neryl acetate	0.01

R.Time	Name	Area%
40.089	Unidentified	0.03
40.650	Cyclosativene	0.29
41.065	alpha-Copaene	0.03
41.225	Geranyl acetate	3.22
41.583	beta-Bourbonene	0.03
41.857	beta-Cubebene	0.02
41.959	beta-Elemene	0.11
42.103	Longifolene-(V4)	0.02
43.278	Dodecanal	0.02
43.862	beta-Caryophyllene	1.42
44.502	beta-Copaene	0.03
45.530	trans-Isoeugenol	0.23
45.709	Unidentified	0.03
46.105	alpha-Humulene	0.14
47.142	Cadina-1(6),4-diene	0.01
47.697	Germacrene D	0.09
47.878	Unidentified	0.01
48.365	gamma-Amorphene	0.01
48.455	Unidentified	0.01
48.594	epi-Cubebol	0.10
48.774	alpha-Murolene	0.02
49.228	alpha-Chamigrene	0.02
49.364	Cuparene	0.03
49.658	gamma-Cadinene	1.23
49.777	Cubebol	0.19
49.962	delta-Cadinene	0.29
50.465	trans-gamma-Bisabolene	0.19
50.663	10-epi-Cubebol	0.03
51.062	alpha-Cadinene	0.03
51.736	alpha-Elemol	0.04
52.207	Geranyl butyrate	0.09
52.358	Germacrene B	0.02
53.717	Caryophyllene oxide	0.41
55.338	Humulene epoxide II	0.03
56.365	Epicubanol	0.02
		100.00