

Sample Information

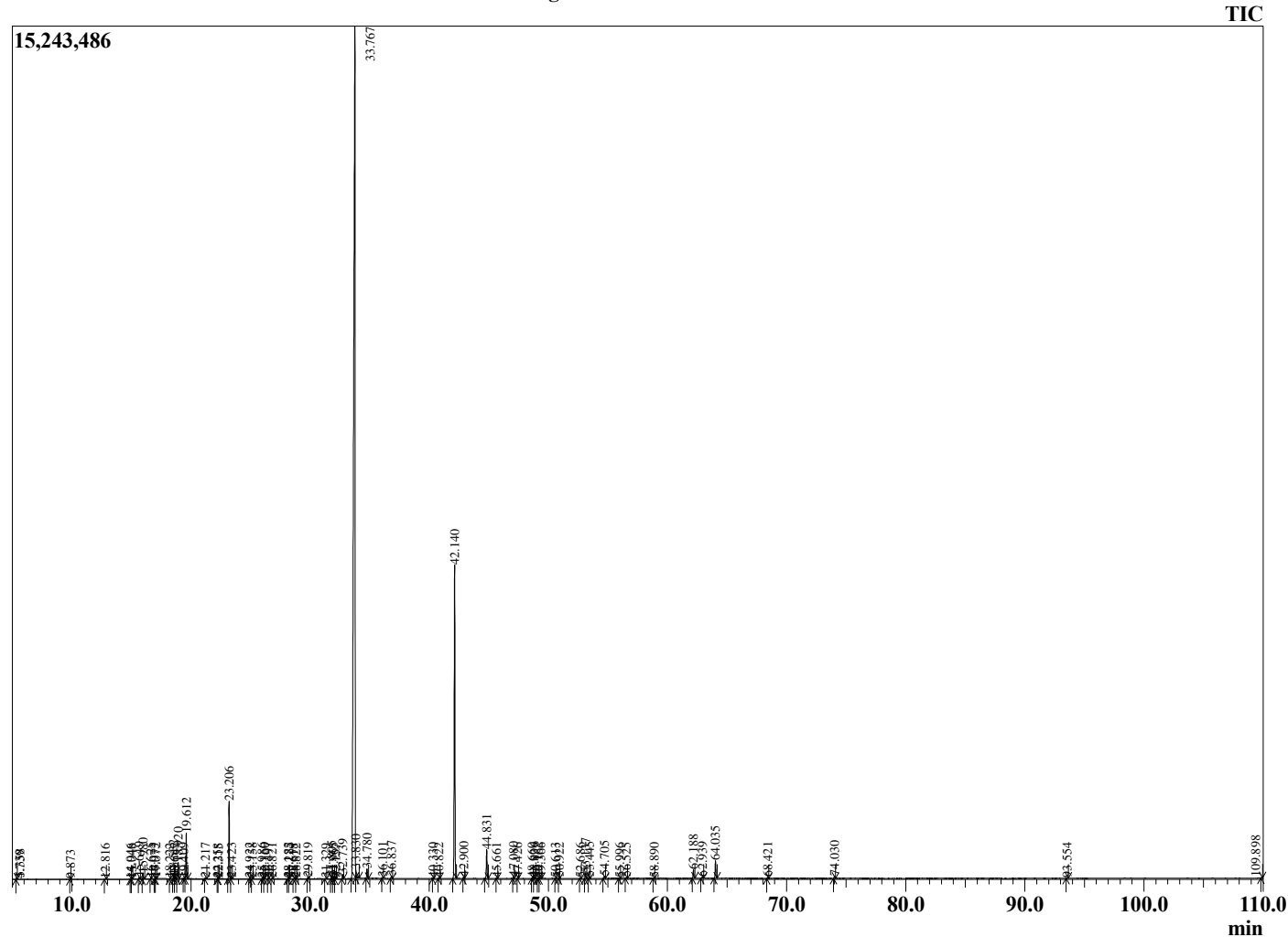
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 3/25/2021 1:41:19 AM  
 Sample Type : Essential Oil  
 Sample Name : Palmarosa Oil - Barefut  
 Sample ID : 0105  
 Injection Volume : 0.10  
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
4.164	3-Methylbutanal	0.01
4.739	2-Ethylfuran	0.00
5.358	1-Pentanol	0.03
9.873	Isopentyl acetate	0.01
12.816	Unidentified	0.02
14.946	Unidentified	0.01
15.048	Unidentified	0.02
15.649	6-Methyl hept-5-en-2-one	0.06
15.980	Myrcene	0.20
16.625	Unidentified	0.02
16.973	Unidentified	0.02
17.072	alpha-Phellandrene	0.02
18.222	para-Cymene	0.01
18.532	Limonene	0.13
18.642	beta-Phellandrene	0.02
18.920	(Z)-beta-Ocimene	0.55
19.409	Unidentified	0.01
19.612	(E)-beta-Ocimene	1.64
21.217	Octanol	0.05
22.258	Terpinolene	0.01
22.315	trans-Linalool oxide (furanoid)	0.01
23.206	Linalool	2.92
23.423	Hotrienol	0.02
24.922	cis-para-Menth-2-en-1-ol	0.02
25.158	allo-Ocimene	0.03
25.986	Unidentified	0.02
26.160	trans-para-Menth-2-en-1-ol	0.02
26.497	Camphor	0.02
26.821	Citronellal	0.02
28.182	Unidentified	0.02
28.225	Unidentified	0.01
28.618	Menthol	0.02
28.822	Unidentified	0.01
29.819	alpha-Terpineol	0.04
31.329	Unidentified	0.01
31.805	Nerol	0.13
31.965	Citronellol	0.05
32.157	Unidentified	0.01
32.739	Neral	0.18
33.767	Geraniol	74.69
33.830	Geraniol	0.29
34.780	Unidentified	0.38
36.101	Unidentified	0.05
36.837	Geranyl formate	0.10
40.330	Eugenol	0.02
40.822	Neryl acetate	0.02
42.140	Geranyl acetate	14.42
42.900	beta-Elementene	0.07
44.831	trans-beta-Caryophyllene	1.30
45.661	trans-alpha-Bergamotene	0.01
47.080	alpha-Humulene	0.07
47.426	Unidentified	0.01
48.660	Germacrene D	0.02
48.836	Unidentified	0.04
49.162	Unidentified	0.03
49.366	Valencene	0.03
50.613	Unidentified	0.01
50.922	delta-Cadinene	0.04
52.686	Elemol	0.01
53.137	Geranyl butyrate	0.23
53.445	(E)-Nerolidol	0.07
54.705	Caryophyllene oxide	0.12

Chromatogram Palmarosa Oil - Barefut



Comments:

The analysis of this Palmarosa batch sample meets the expected chemical profile for authentic essential oil of *Cymbopogon martinii*. 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%
55.996	Geranyl isovalerate	0.03
56.525	Unidentified	0.04
58.890	Unidentified	0.03
62.188	(2E,6E)-Farnesol	0.39
62.939	Chamazulene	0.07
64.035	Geranyl hexanoate	0.78
68.421	Farnesyl acetate	0.06
74.030	Unidentified	0.11
93.554	Unidentified	0.02
109.898	Unidentified	0.03
		100.00