

Sample Information

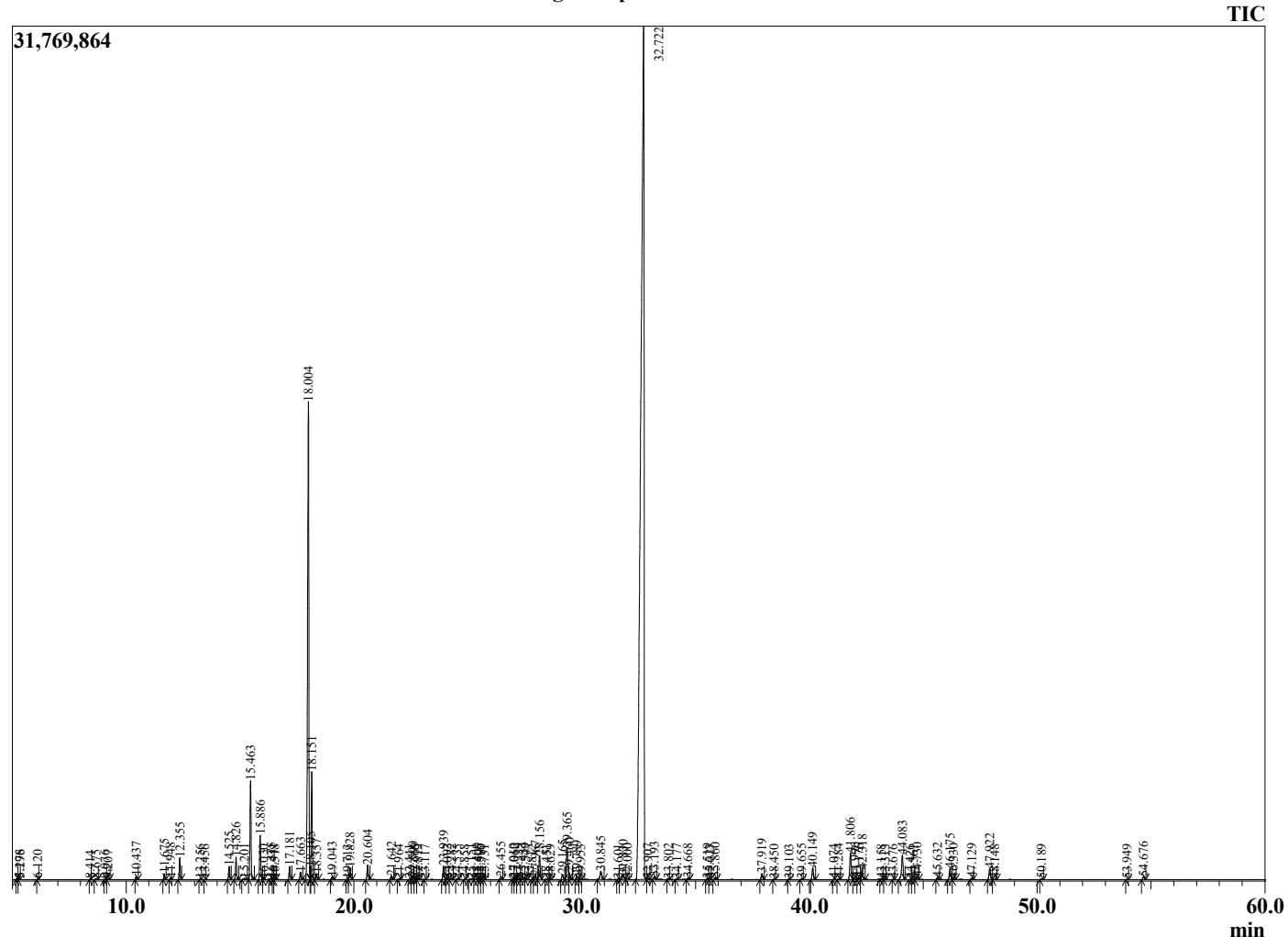
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 06/04/2024 12:22:02 PM
 Sample Type : Essential Oil
 Sample Name : Spearmint EO
 Sample ID : 9B
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
3.757	Isobutyl alcohol	0.01
4.060	3-Methylbutanal	0.05
4.165	2-Methylbutanal	0.03
4.606	2-Ethyl furan	0.02
5.198	1-Pentanol	0.02
5.276	2-Methylbutanol	0.02
6.120	Methyl 2-methylbutyrate	0.01
8.414	Ethyl 2-methylbutyrate	0.01
8.675	Hex-(3Z)-enol	0.03
9.076	Hex-(2E)-enol	0.01
9.207	Hexanol	0.01
10.437	2,5-Diethyl tetrahydrofuran	0.07
11.675	Hashishene	0.13
11.948	alpha-Thujene	0.04
12.355	alpha-Pinene	0.51
13.256	Camphene	0.01
13.456	Thuja-2,4(10)-diene	0.01
14.525	Sabinene	0.33
14.826	beta-Pinene	0.59
15.201	3-Octanone	0.05
15.463	Myrcene	2.52
15.886	3-Octanol	1.15
16.030	Unidentified	0.01
16.375	Pseudolimonene	0.06
16.441	Unidentified	0.02
16.518	alpha-Phellandrene	0.02
17.181	alpha-Terpinene	0.36
17.663	para-Cymene	0.21
18.004	Limonene	14.92
18.105	beta-Phellandrene	0.10
18.151	1,8-Cineole	2.67
18.357	cis-beta-Ocimene	0.16
19.043	trans-beta-Ocimene	0.08
19.713	Unidentified	0.01
19.828	gamma-Terpinene	0.34
20.604	trans-Sabinene hydrate	0.42
21.642	Terpinolene	0.10
21.964	para-Cymenene	0.02
22.441	3-Nonanol	0.01
22.590	Linalool	0.08
22.669	cis-Sabinene hydrate	0.04
22.819	2-Methylbutyl-2-methylbutyrate	0.02
23.117	1-Octen-3-yl acetate	0.01
23.939	3-Octyl acetate	0.40
24.092	trans-para-Mentha-2,8-dienol	0.02
24.282	cis-para-Menth-2-en-1-ol	0.03
24.535	Unidentified	0.02
24.858	cis-Limonene oxide	0.00
25.151	trans-Limonene oxide	0.04
25.400	trans-Pinocarveol	0.03
25.505	trans-para-Menth-2-en-1-ol	0.03
25.580	Unidentified	0.01
25.731	trans-Verbenol	0.01
26.455	Menthone	0.08
27.010	Unidentified	0.03
27.062	Unidentified	0.03
27.229	para-Mentha-1,5-dien-8-ol	0.03
27.434	delta-Terpineol	0.08
27.549	Borneol	0.02
27.812	Unidentified	0.00
27.967	Menthol	0.13
28.156	Terpinen-4-ol	0.76

Chromatogram Spearmint EO - Revive



Comments:

The analysis of this Spearmint EO batch sample meets the expected chemical profile for authentic essential oil of *Mentha spicata*. 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%
28.451	Unidentified	0.02
28.629	Unidentified	0.01
29.165	alpha-Terpineol	0.18
29.365	cis-Dihydrocarvone	1.19
29.460	trans-Dihydrocarveol	0.19
29.789	trans-Dihydrocarvone	0.10
29.953	Unidentified	0.01
30.845	trans-Carveol	0.33
31.601	Unidentified	0.01
31.830	cis-Carveol	0.18
32.000	Hex-(3Z)-enyl 2-methylbutyrate	0.03
32.722	Carvone	66.21
32.907	Carvotanacetone	0.02
33.193	Piperitone	0.09
33.802	cis-Carvone oxide	0.02
34.177	Unidentified	0.02
34.668	trans-Carvone oxide	0.05
35.519	Dihydroedulan I	0.04
35.623	Unidentified	0.02
35.860	Dihydroedulan II	0.06
37.919	trans-Dihydrocarvyl acetate	0.20
38.450	cis-Carvyl acetate	0.01
39.103	Myrcen-8-yl acetate	0.01
39.655	Eugenol	0.02
40.149	cis-Carvyl acetate	0.39
41.074	Unidentified	0.01
41.284	alpha-Copaene	0.03
41.806	beta-Bourbonene	0.91
41.996	alpha-Bourbonene	0.07
42.176	beta-Elemene	0.05
42.318	cis-Jasmone	0.33
43.158	cis-beta-Caryophyllene	0.01
43.313	Unidentified	0.01
43.676	Unidentified	0.01
44.083	beta-Caryophyllene	0.93
44.426	Unidentified	0.01
44.561	Unidentified	0.02
44.730	beta-Copaene	0.09
45.632	Octyl isovalerate	0.07
46.175	trans-beta-Farnesene	0.36
46.330	alpha-Humulene	0.04
47.129	Unidentified	0.05
47.922	Germacrene D	0.39
48.148	Phenethyl 2-methylbutyrate	0.02
50.189	delta-Cadinene	0.02
53.949	Caryophyllene oxide	0.01
54.676	Viridiflorol	0.11
		100.00