

Sample Information

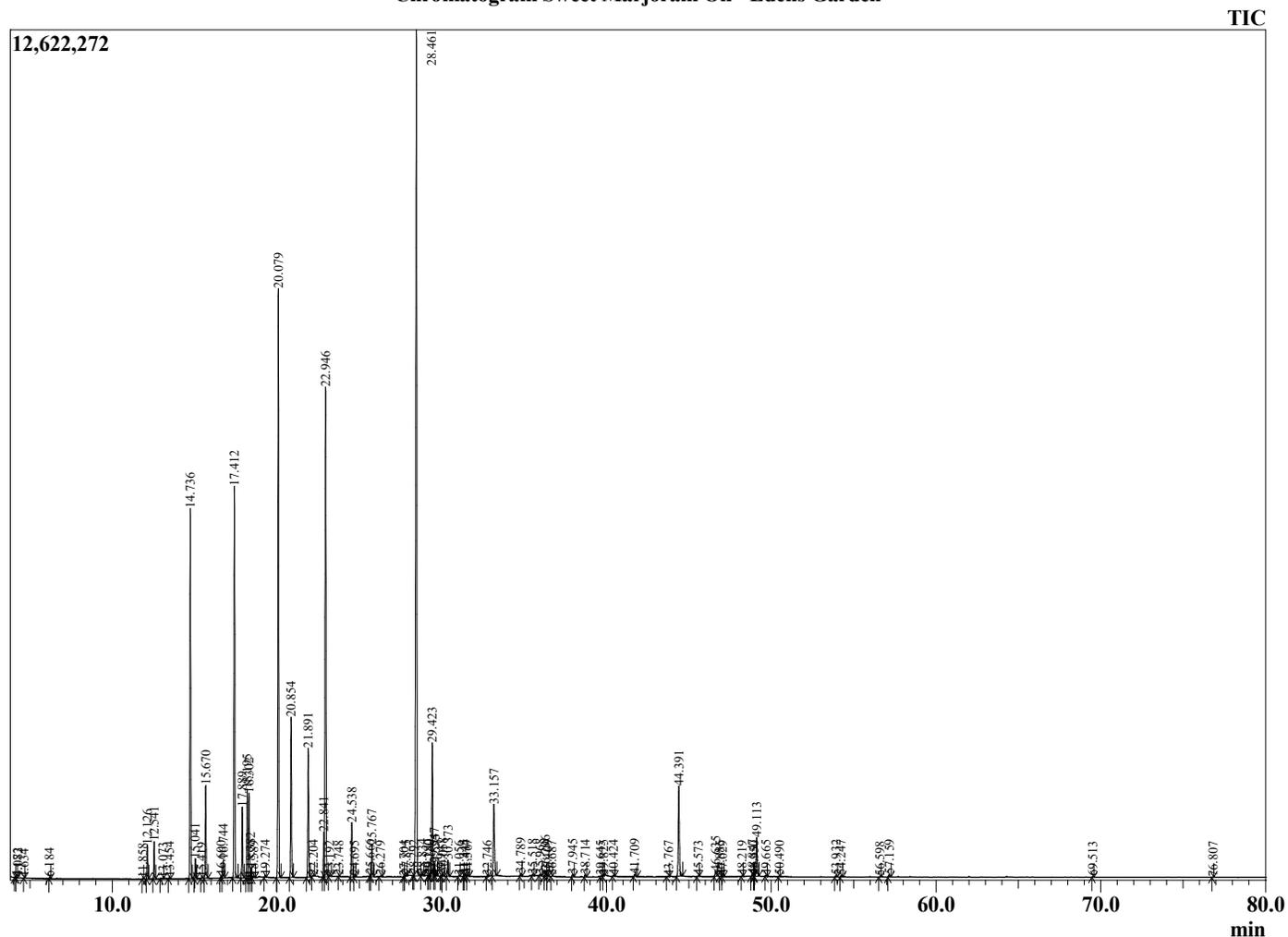
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/29/2022 10:05:31 PM
 Sample Type : Essential Oil
 Sample Name : Sweet Marjoram Oil - Edens Garden
 Sample ID : EG Lot #BB13GBB
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
4.073	3-Methylbutanal	0.00
4.182	2-Methylbutanal	0.01
4.634	2-Ethylfuran	0.00
6.184	Methyl 2-methylbutyrate	0.02
11.858	Hashishene	0.01
12.126	alpha-Thujene	0.70
12.541	alpha-Pinene	0.76
13.073	Unidentified	0.02
13.454	Camphene	0.03
14.736	Sabinene	7.72
15.041	beta-Pinene	0.43
15.419	3-Octanone	0.02
15.670	Myrcene	2.04
16.600	Pseudolimonene	0.06
16.744	alpha-Phellandrene	0.41
17.412	alpha-Terpinene	8.87
17.889	para-Cymene	1.63
18.195	Limonene	1.99
18.302	beta-Phellandrene	1.97
18.382	1,8-Cineole	0.19
18.589	(Z)-beta-Ocimene	0.04
19.274	(E)-beta-Ocimene	0.04
20.079	gamma-Terpinene	13.80
20.854	trans-Sabinene hydrate	3.86
21.891	Terpinolene	3.08
22.204	para-Cymenene	0.03
22.841	Linalool	0.90
22.946	cis-Sabinene hydrate	13.05
23.192	Unidentified	0.03
23.748	Unidentified	0.01
24.538	cis-para-Menth-2-en-1-ol	1.37
24.695	alpha-Campholenal	0.03
25.666	trans-Pinocarveol	0.05
25.767	trans-para-Menth-2-en-1-ol	0.80
26.279	Unidentified	0.03
27.704	delta-Terpineol	0.01
27.825	Borneol	0.04
28.292	Unidentified	0.01
28.461	Terpinen-4-ol	23.93
28.834	para-Cymen-8-ol	0.04
29.180	Unidentified	0.01
29.240	Unidentified	0.03
29.423	alpha-Terpineol	3.50
29.547	cis-Piperitol	0.32
29.595	(Z)-Dihydrocarvone	0.12
29.947	Unidentified	0.01
30.058	(E)-Dihydrocarvone	0.07
30.373	trans-Piperitol	0.42
31.056	trans-Carveol	0.02
31.345	trans-Chrysanthenyl acetate	0.02
31.414	Unidentified	0.05
31.567	Citronellol	0.05
32.746	Carvone	0.01
33.157	Linalyl acetate	2.26
34.789	cis-Ascidol glycol	0.08
35.518	Isobornyl acetate	0.05
35.968	trans-Ascidol glycol	0.04
36.296	4-Terpinyl acetate	0.17
36.409	Carvacrol	0.02
36.687	Unidentified	0.01
37.945	Unidentified	0.07
38.714	delta-Elementene	0.07

Chromatogram Sweet Marjoram Oil - Edens Garden



Comments:

The analysis of this Sweet Marjoram Oil batch sample meets the expected chemical profile for authentic essential oil of Origanum majorana.

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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R.Time	Name	Area%
39.645	alpha-Terpinyl acetate	0.02
39.825	Eugenol	0.04
40.424	Neryl acetate	0.03
41.709	Geranyl acetate	0.08
43.767	Longifolene	0.01
44.391	trans-beta-Caryophyllene	2.64
45.573	Aromadendrene	0.03
46.635	alpha-Humulene	0.16
46.885	Unidentified	0.01
47.029	Heneicosane	0.02
48.219	Unidentified	0.01
48.847	Viridiflorene	0.06
48.950	Unidentified	0.01
49.113	Bicyclogermacrene	1.17
49.665	(E,E)-alpha-Farnesene	0.03
50.490	delta-Cadinene	0.03
53.932	Spathulenol	0.04
54.247	Caryophyllene oxide	0.05
56.598	gamma-Eudesmol	0.01
57.159	Unidentified	0.07
69.513	Unidentified	0.01
76.807	Unidentified	0.01
		100.00