

Sample Information

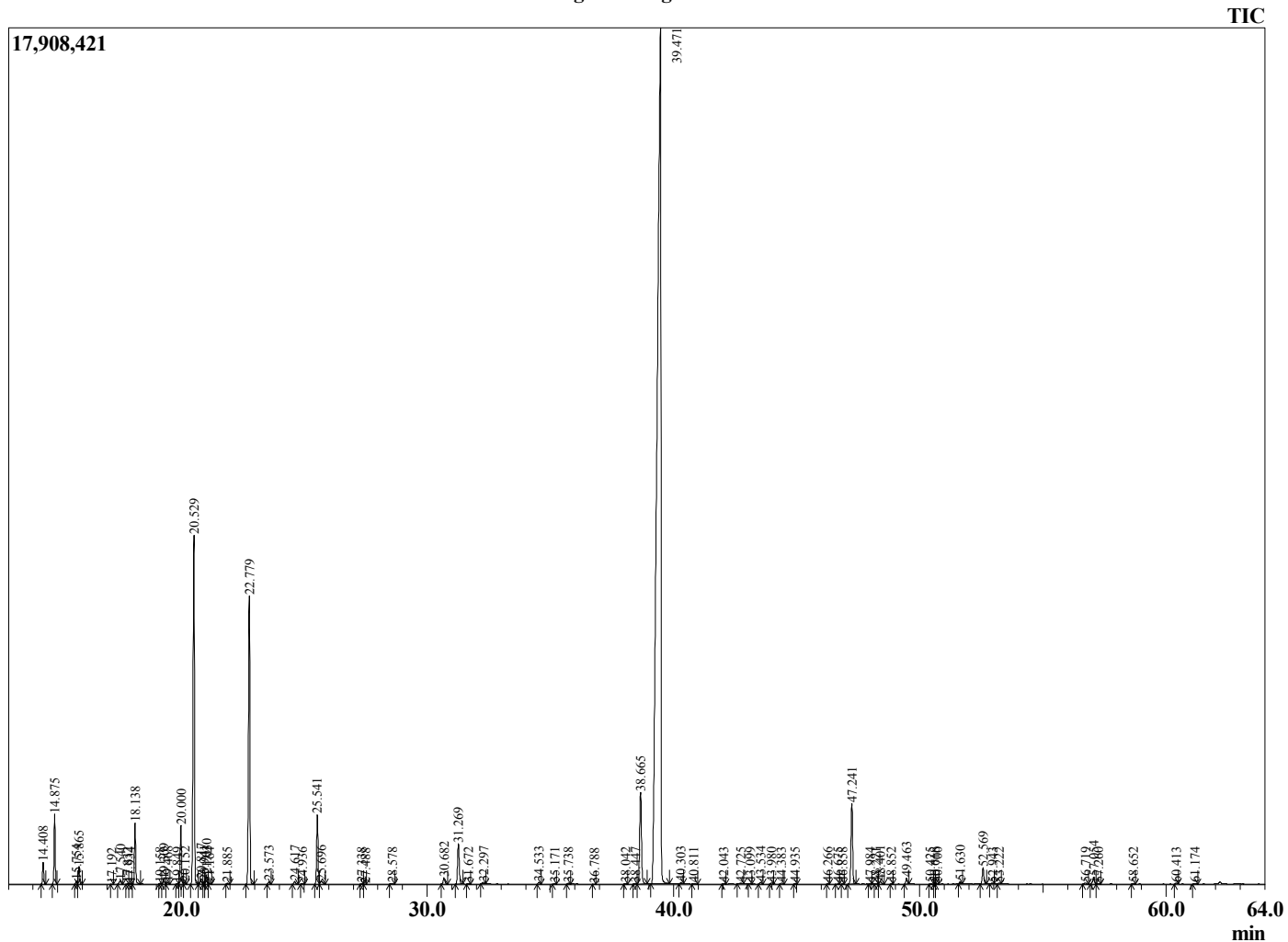
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 11/18/2020 12:45:23 AM
 Sample Type : Essential Oil
 Sample Name : Oregano - Barefut
 Sample ID : 0107
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

R.Time	Name	Area%
5.215	3-Methylbutanal	0.01
5.880	Unidentified	0.01
7.737	Methyl 2-methylbutanoate	0.01
14.408	alpha-Thujene	0.48
14.875	alpha-Pinene	1.56
15.754	alpha-Fenchene	0.08
15.865	Camphene	0.42
17.192	Sabinene	0.00
17.540	beta-Pinene	0.11
17.832	Unidentified	0.01
17.934	3-para-Menthene	0.01
18.138	Myrcene	1.50
19.158	Pseudolimonene	0.02
19.309	alpha-Phellandrene	0.10
19.468	delta-3-Carene	0.04
19.849	1,4-Cineole	0.01
20.000	alpha-Terpinene	1.47
20.152	ortho-Cymene	0.04
20.529	para-Cymene	9.54
20.817	Limonene	0.11
20.941	beta-Phellandrene	0.06
21.030	1,8-cineole	0.24
21.164	(Z)-beta-Ocimene	0.02
21.885	(E)-beta-Ocimene	0.02
22.779	gamma-Terpinene	7.82
23.573	trans-Sabinene hydrate	0.07
24.617	Terpinolene	0.09
24.936	Dehydro-para-cymene	0.02
25.541	Linalool	1.90
25.696	cis-Sabinene hydrate	0.14
27.338	cis-para-Menth-2-en-1-ol	0.01
27.488	alpha-Campholenal	0.01
28.578	trans-para-Menth-2-en-1-ol	0.02
30.682	Borneol	0.20
31.269	Terpinen-4-ol	1.31
31.672	para-Cymen-8-ol	0.01
32.297	alpha-Terpineol	0.07
34.533	Thymol methyl ether	0.05
35.171	Carvacrol methyl ether	0.02
35.738	Carvone	0.03
36.788	Carvenone	0.01
38.042	Carvacrol	0.02
38.447	Unidentified	0.02
38.665	Thymol	3.28
39.471	Carvacrol	64.93
40.303	Unidentified	0.04
40.811	Unidentified	0.01
42.043	Unidentified	0.02
42.725	Unidentified	0.03
43.099	Neryl acetate	0.01
43.534	Thymol acetate	0.06
43.980	Unidentified	0.04
44.383	Geranyl acetate	0.03
44.935	alpha-Bourbonene	0.01
46.266	cis-beta-Caryophyllene	0.01
46.675	Unidentified	0.01
46.858	Unidentified	0.01
47.241	trans-beta-Caryophyllene	2.54
47.984	(E)-alpha-Bergamotene	0.02
48.221	Unidentified	0.02
48.401	beta-Copaene	0.08
48.852	alpha-Guaiene	0.01

Chromatogram Oregano - Barefut



Comments:

The analysis of this Oregano batch sample meets the expected chemical profile for authentic essential oil of *Origanum vulgare*. 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%
49.463	alpha-Humulene	0.16
50.425	Unidentified	0.01
50.618	Unidentified	0.01
50.700	Unidentified	0.01
51.630	Viridiflorene	0.05
52.569	beta-Bisabolene	0.50
52.943	gamma-Cadinene	0.04
53.222	delta-Cadinene	0.03
56.719	Spathulenol	0.05
57.054	Caryophyllene oxide	0.23
57.260	Unidentified	0.01
58.652	Humulene epoxide II	0.02
60.413	tau-Cadinol	0.03
61.174	Unidentified	0.02
		100.00