

Sample Information

Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 3/27/2019 10:41:12 AM  
 Sample Type : Essential Oil  
 Sample Name : Oregano - BAREFUT  
 Sample ID : 0106  
 Injection Volume : 0.10  
 Instrument ID : GC-3

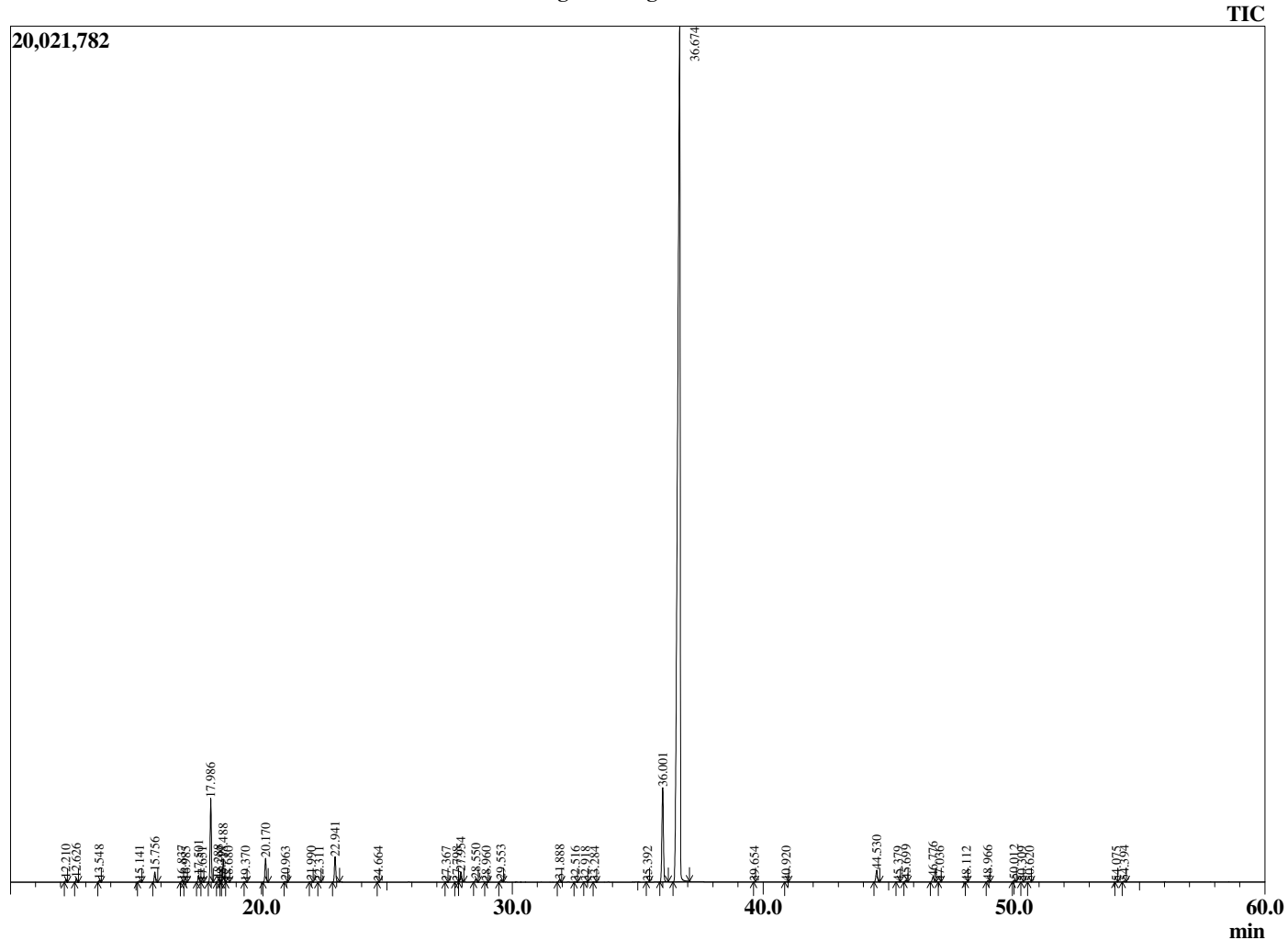


Peak Report TIC

R.Time	Name	Area%
12.210	alpha-Thujene	0.12
12.626	alpha-Pinene	0.16
13.548	Camphene	0.09
15.141	beta-Pinene	0.07
15.756	Myrcene	0.48
16.837	alpha-Phellandrene	0.06
16.985	delta-3-Carene	0.03
17.501	alpha-Terpinene	0.34
17.651	ortho-Cymene	0.01
17.986	para-Cymene	3.93
18.288	Limonene	0.14
18.397	beta-Phellandrene	0.04
18.488	1,8-Cineole	1.11
18.680	cis-beta-Ocimene	0.02
19.370	trans-beta-Ocimene	0.02
20.170	gamma-Terpinene	1.18
20.963	trans-Sabinene hydrate	0.04
21.990	Terpinolene	0.03
22.311	para-Cymenene	0.02
22.941	Linalool	1.34
24.664	cis-Sabinene hydrate	0.00
27.367	Isoborneol	0.01
27.798	Thuj-3-en-2-one (Umbellulone)	0.02
27.954	Borneol	0.57
28.550	Terpinen-4-ol	0.17
28.960	para-Cymen-8-ol	0.01
29.553	alpha-Terpineol	0.13
31.888	Thymol methyl ether	0.14
32.516	Carvacrol methyl ether	0.01
32.918	Carvone	0.03
33.284	Unidentified	0.02
35.392	Isothymol	0.01
36.001	Thymol	5.65
36.674	Carvacrol	82.53
39.654	Thymol acetate	0.01
40.920	Carvacrol acetate	0.02
44.530	beta-Caryophyllene	0.72
45.379	trans-alpha-Bergamotene	0.02
45.699	Aromadendrene	0.10
46.776	alpha-Humulene	0.33
47.036	Alloaromadendrene	0.01
48.112	Unidentified	0.01
48.966	Viridiflorene (Ledene)	0.07
50.012	beta-Bisabolene	0.11
50.309	gamma-Cadinene	0.01
50.620	delta-Cadinene	0.02
54.075	Spathulenol	0.01
54.394	Caryophyllene oxide	0.04
		100.00

This report is valid for 1 year from the analyzed date.

Chromatogram Oregano - BAREFUT



Comments:

The analysis of this Oregano, Turkey batch sample meets the expected chemical profile for authentic essential oil of *Origanum vulgare*. No contamination or adulteration was detected.