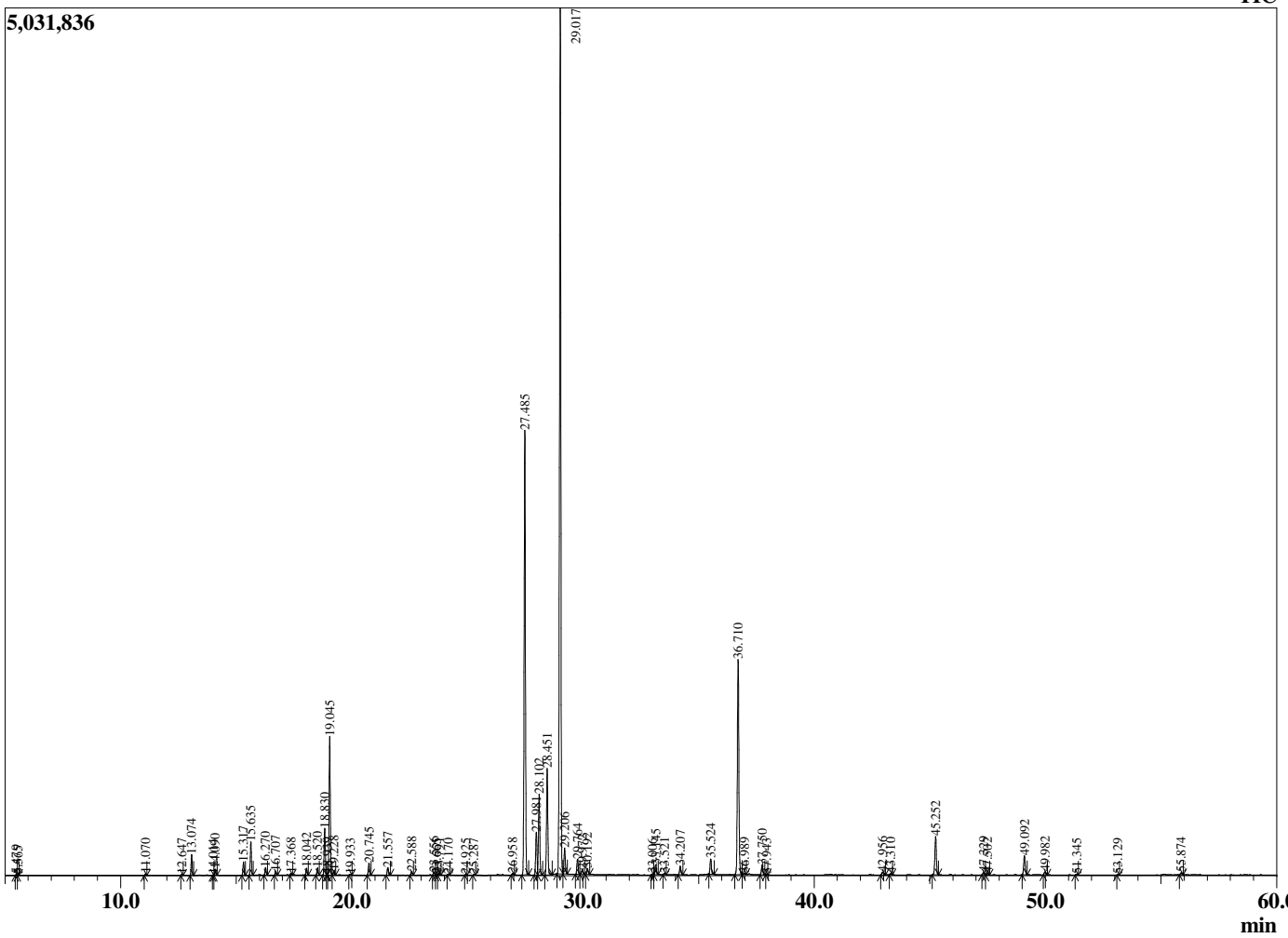
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 11/23/2019 12:54:01 AM
Sample Type : Essential Oil
Sample Name : Peppermint - Revive
Sample ID : E0C0315E
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Peppermint - Revive



Comments:

The analysis of this Peppermint batch sample meets the expected chemical profile for authentic essential oil of *Mentha piperita*. 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.

Peak Report TIC

R.Time	Name	Area%
4.248	3-Methylbtuanal	0.02
5.479	1-Pentanol	0.02
5.565	2-Methyl butanol	0.01
11.070	2,5-Diethyltetrahydrofuran	0.04
12.647	alpha-Thujene	0.04
13.074	alpha-Pinene	0.70
14.014	Camphene	0.02
14.090	3-Methylcyclohexanone	0.21
15.317	Sabinene	0.49
15.635	beta-Pinene	1.25
16.270	Myrcene	0.28
16.707	3-Octanol	0.15
17.368	alpha-Phellandrene	0.06
18.042	alpha-Terpinene	0.26
18.520	para-Cymene	0.27
18.830	Limonene	1.80
18.939	beta-Phellandrene	0.06
19.045	1,8-Cineole	5.48
19.228	cis-beta-Ocimene	0.16
19.933	trans-beta-Ocimene	0.05
20.745	gamma-Terpinene	0.48
21.557	trans-Sabinene hydrate	0.33
22.588	Terpinolene	0.14
23.556	Linalool	0.13
23.665	cis-Sabinene hydrate	0.03
23.791	2-Methylbutyl-2-methylbutyrate	0.06
24.170	2-Methylbutyl isovalerate	0.04
24.925	3-Octyl acetate	0.02
25.287	cis-para-Menth-2-en-1-ol	0.03
26.958	Neoisopulegol	0.07
27.485	Menthone	19.39
27.981	Menthofuran	1.90
28.102	Isomenthone	3.52
28.451	Neomenthol	4.71
29.017	Menthol	39.19
29.206	Terpinen-4-ol	1.17
29.764	Isomenthol	0.68
29.972	Neoisomenthol	0.23
30.192	alpha-Terpineol	0.26
33.006	Hex-(3Z)-enyl isovalerate	0.04
33.145	Pulegone	0.46
33.521	Carvone	0.06
34.207	Piperitone	0.39
35.524	Neomenthyl acetate	0.73
36.710	Menthyl acetate	10.47
36.989	Dihydroedulan I	0.05
37.750	Isomenthyl acetate	0.47
37.943	Unidentified	0.02
42.956	beta-Bourbonene	0.16
43.310	beta-Elemene	0.05
45.252	beta-Caryophyllene	1.88
47.329	trans-beta-Farnesene	0.13
47.502	alpha-Humulene	0.08
49.092	Germacrene D	0.95
49.982	Bicyclogermacrene	0.16
51.345	delta-Cadinene	0.04
53.129	Elemol	0.02
55.874	Viridiflorol	0.10
		100.00