

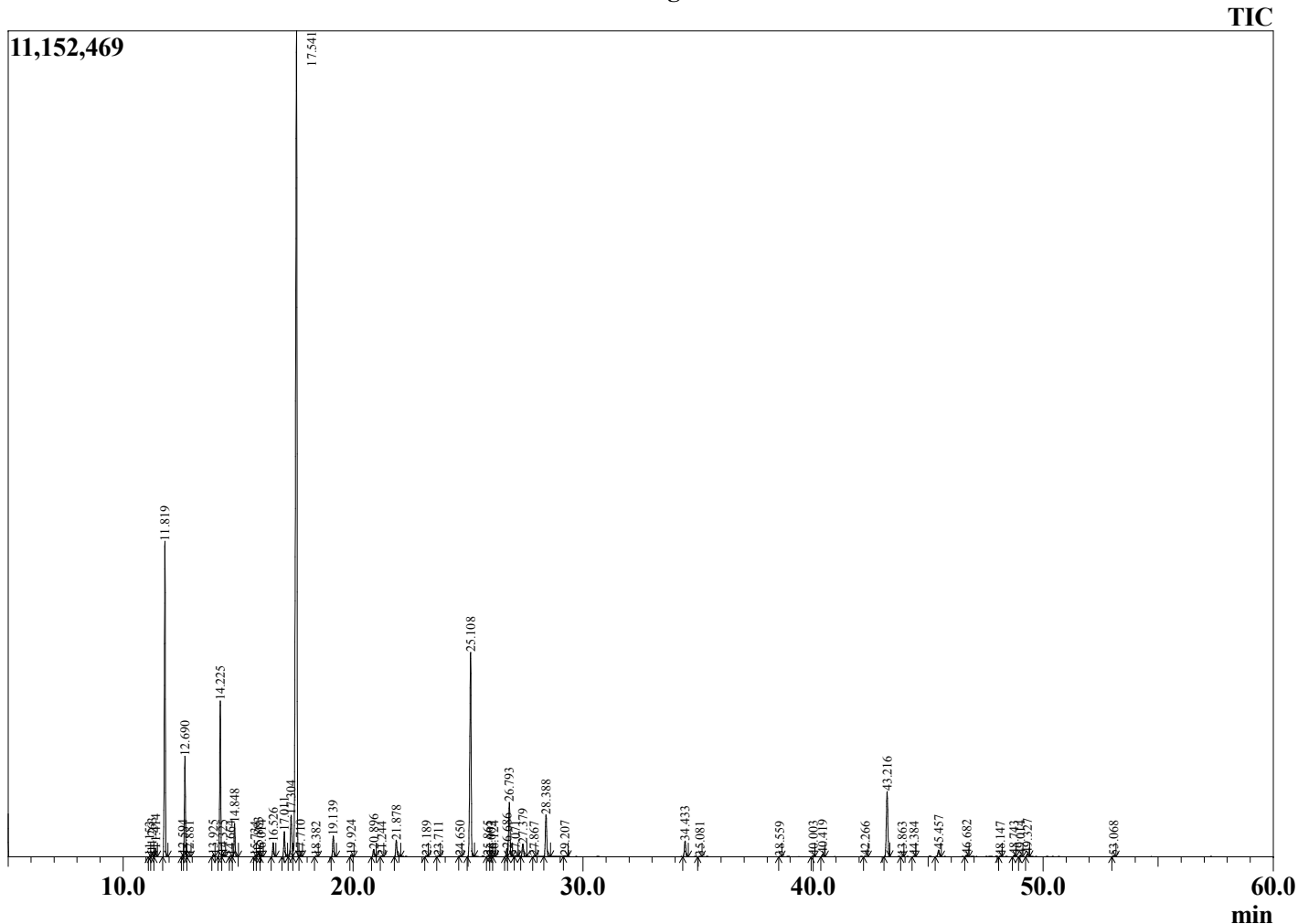
Rosemary Essential Oil

Lot Number: 1623211
 Date Filled: 08/19/16
 Analyst: AC



Peak Report		
Ret. Time	Compound Name	Area %
11.153	Hashishene	0.02
11.263	Tricyclene	0.15
11.414	alpha-Thujene	0.27
11.819	alpha-Pinene	12.01
12.594	alpha-Fenchene	0.07
12.690	Camphene	3.86
12.881	Thuja-2,4(10)diene	0.04
13.925	Sabinene	0.09
14.225	beta-Pinene	6.33
14.325	1-Octen-3-ol	0.12
14.664	3-Octanone	0.04
14.848	Myrcene	1.37
15.734	Pseudolimonene	0.03
15.883	alpha-Phellandrene	0.19
16.014	delta-3-Carene	0.07
16.526	alpha-Terpinene	0.62
17.011	para-Cymene	1.14
17.304	Limonene	2.25
17.541	1,8-Cineole	45.92
17.710	cis-beta-Ocimene	0.08
18.382	trans-beta-Ocimene	0.02
19.139	gamma-Terpinene	0.96
19.924	cis-Sabinene hydrate	0.10
20.896	Terpinolene	0.35
21.244	para-Cymenene	0.03
21.878	Linalool	0.85
23.189	endo-Fenchol	0.05
23.711	alpha-Campholenal	0.03
24.650	trans-Pinocarveol	0.03
25.108	Camphor	10.91
25.865	Isoisopulegol	0.03
26.003	trans-Pinocamphone	0.03
26.124	Pinocarvone	0.04
26.686	delta-Terpineol	0.38
26.793	Borneol	2.78
27.071	cis-Pinocamphone	0.04
27.379	Terpinen-4-ol	0.67
27.867	para-Cymen-8-ol	0.02
28.388	alpha-Terpineol	2.22
29.207	Verbenone	0.05
34.433	Bornyl acetate	0.84
35.081	Undecan-2-one	0.02
38.559	alpha-Cubebene	0.02
40.003	alpha-Ylangene	0.05
40.419	alpha-Copaene	0.14
42.266	cis-beta-Caryophyllene	0.03
43.216	trans-beta-Caryophyllene	3.71
43.863	beta-Copaene	0.02
44.384	Aromadendrene	0.03
45.457	alpha-Humulene	0.40
46.682	trans-Cadina-1(6),4-diene	0.10
48.147	alpha-Murolene	0.03
48.743	beta-Bisabolene	0.07
49.014	gamma-Cadinene	0.07
49.327	delta-Cadinene	0.15
53.068	Caryophyllene oxide	0.06
		100.00

Chromatogram



Comments: The analysis of this Rosemary batch sample meets the expected chemical profile for authentic essential oil of *Rosmarinus officinalis*. No contamination or adulteration was detected.

Approved:

Dr. Robert S. Pappas

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