

Melaleuca (Tea Tree) Essential Oil

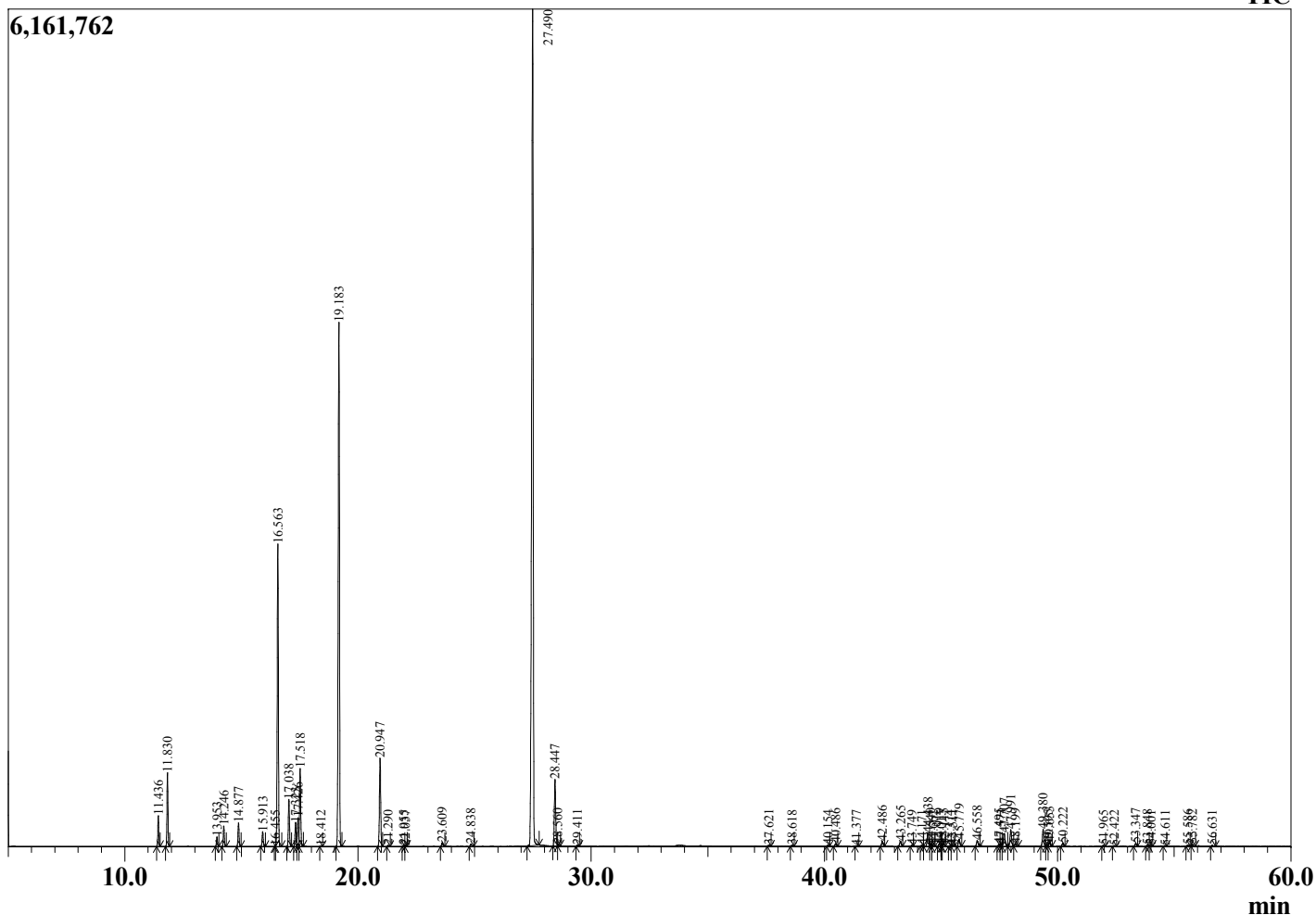


Lot Number: 1607110
Date Filled: 03/11/16
Analyst: AC

Peak Report

Ret. Time	Compound Name	Area %
11.436	alpha-Thujene	0.94
11.830	alpha-Pinene	2.33
13.953	Sabinene	0.32
14.246	beta-Pinene	0.70
14.877	Myrcene	0.83
15.913	alpha-Phellandrene	0.54
16.455	1,4-Cineole	0.02
16.563	alpha-Terpinene	11.03
17.038	para-Cymene	1.75
17.323	Limonene	0.90
17.426	beta-Phellandrene	1.00
17.518	1,8-Cineole	2.94
18.412	trans-beta-Ocimene	0.03
19.183	gamma-Terpinene	21.04
20.947	Terpinolene	3.50
21.290	para-Cymenene	0.04
21.955	Linalool	0.05
22.037	trans-Sabinene hydrate	0.03
23.609	cis-para-Menth-2-en-1-ol	0.17
24.838	trans-para-Menth-2-en-1-ol	0.11
27.490	Terpinen-4-ol	42.21
28.447	alpha-Terpineol	2.94
28.560	cis-Piperitol	0.05
29.411	trans-Piperitol	0.06
37.621	delta-Elementene	0.06
38.618	alpha-Cubebene	0.05
40.154	Isoledene	0.04
40.486	alpha-Copaene	0.13
41.377	beta-Elementene	0.03
42.486	alpha-Gurjunene	0.25
43.265	beta-Caryophyllene	0.27
43.749	Tea Tree sesquiterpenoid 1	0.04
44.171	Tea Tree sesquiterpenoid 2	0.05
44.438	Aromadendrene	0.69
44.540	Tea Tree sesquiterpenoid 3	0.09
44.662	Tea Tree sesquiterpenoid 4	0.04
44.919	Myrtal-4(12)-ene	0.11
45.015	Tea Tree sesquiterpenoid 5	0.01
45.115	cis-Murrola-3,5-diene	0.11
45.374	Tea Tree sesquiterpenoid 6	0.02
45.511	alpha-Humulene	0.06
45.779	Alloaromadendrene	0.35
46.558	cis-Murrola-4(14),5-diene	0.30
47.495	delta-Selinene	0.11
47.571	beta-Selinene	0.13
47.707	Viridiflorene	0.73
47.991	Bicyclogermacrene	0.86
48.199	alpha-Murolene	0.12
49.380	delta-Cadinene	0.82
49.595	trans-Calamenene	0.06
49.653	Zonarene	0.21
50.222	trans-Cadina-1,4-diene	0.15
51.965	Tea Tree sesquiterpenoid 7	0.05
52.422	Tea Tree sesquiterpenoid 8	0.04
53.347	Globulol	0.14
53.848	Viridiflorol	0.07
54.001	Cubeban-11-ol	0.06
54.611	Eudesm-5-en-11-ol	0.03
55.586	Eudesmol isomer	0.05
55.782	1-epi-Cubenol	0.08
56.631	Cubenol	0.06
		100.00

Chromatogram



Comments: The analysis of this Melaleuca (Tea Tree) batch sample meets the expected chemical profile for authentic essential oil of Melaleuca alternifolia. No contamination or adulteration was detected.

Approved:

Dr. Robert J. Pappas

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