

Sample Information

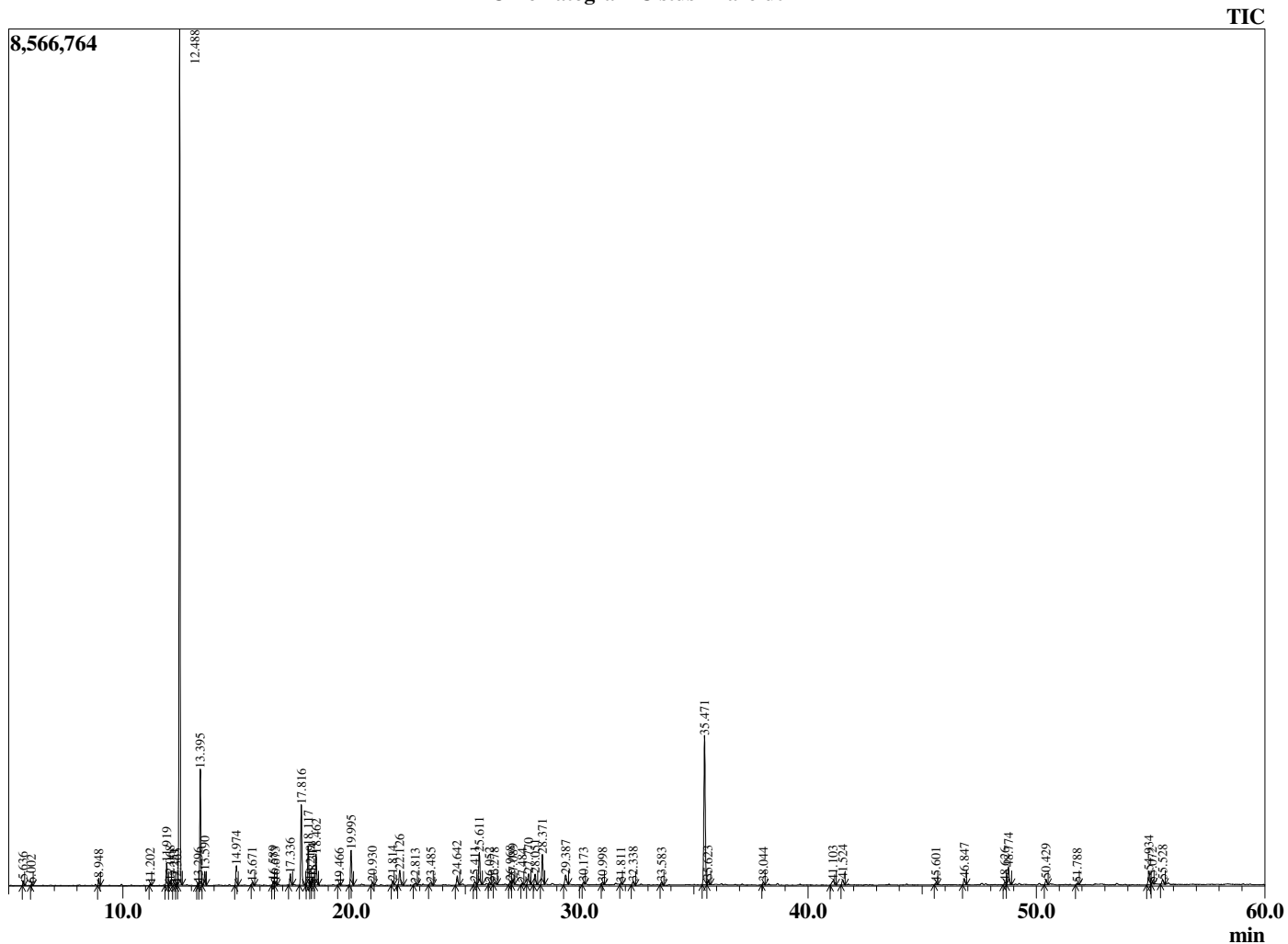
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 10/10/2019 5:46:16 PM  
 Sample Type : Essential Oil  
 Sample Name : Cistus - Barefut  
 Sample ID : 0102  
 Injection Volume : 0.10  
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
5.636	1,2,3-Trimethyl-1-cyclopentene	0.19
6.002	Toluene	0.08
8.948	6,6-Dimethylhepta-2,4-diene	0.34
11.202	Unidentified	0.09
11.919	Tricyclene	1.18
12.068	alpha-Thujene	0.24
12.251	Unidentified	0.11
12.365	2,7-Dimethyloxepine	0.09
12.488	alpha-Pinene	46.38
13.296	alpha-Fenchene	0.14
13.395	Camphene	6.45
13.590	Thuja-2,4(10)diene	0.79
14.974	beta-Pinene	1.13
15.671	Unidentified	0.17
16.589	Unidentified	0.25
16.673	alpha-Phellandrene	0.20
17.336	alpha-Terpinene	0.71
17.816	para-Cymene	5.17
18.117	Limonene	2.44
18.219	beta-Phellandrene	0.24
18.314	1,8-Cineole	0.45
18.462	2,2,6-Trimethylcyclohexanone	1.95
19.466	Unidentified	0.10
19.995	gamma-Terpinene	2.27
20.930	Pinol	0.22
21.814	Terpinolene	0.25
22.126	para-Cymenene	1.12
22.813	Unidentified	0.17
23.485	cis-Rose oxide	0.23
24.642	alpha-Campholenal	0.64
25.411	Unidentified	0.26
25.611	trans-Pinocarveol	2.32
26.052	Camphor	0.13
26.278	para-Mentha-1,5-dien-8-ol	0.18
26.968	Pinocamphone	0.25
27.089	Pinocarvone	0.36
27.484	Borneol	0.10
27.770	Isoborneol	0.92
28.051	Isopinocampnone	0.75
28.371	Terpinen-4-ol	2.14
29.387	Myrtenol	0.91
30.173	Verbenone	0.15
30.998	trans-Carveol	0.15
31.811	Unidentified	0.10
32.338	Unidentified	0.27
33.583	Unidentified	0.18
35.471	Bornyl acetate	11.08
35.623	Isobornyl acetate	0.31
38.044	Myrtenyl acetate	0.18
41.103	Cyclosativene	0.52
41.524	alpha-Copaene	0.42
45.601	Aromadendrene	0.13
46.847	Alloaromadendrene	0.51
48.626	Unidentified	0.21
48.774	Viridiflorene (Ledene)	1.42
50.429	delta-Cadinene	0.42
51.788	alpha-Calacorene	0.13
54.934	Viridiflorol	1.17
55.072	Guaiol	0.16
55.528	Ledol	0.39
		100.00

Chromatogram Cistus - Barefut



Comments:

The analysis of this Cistus batch sample meets the expected chemical profile for authentic essential oil of *Cistus ladanifer*. 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.