

Sample Information

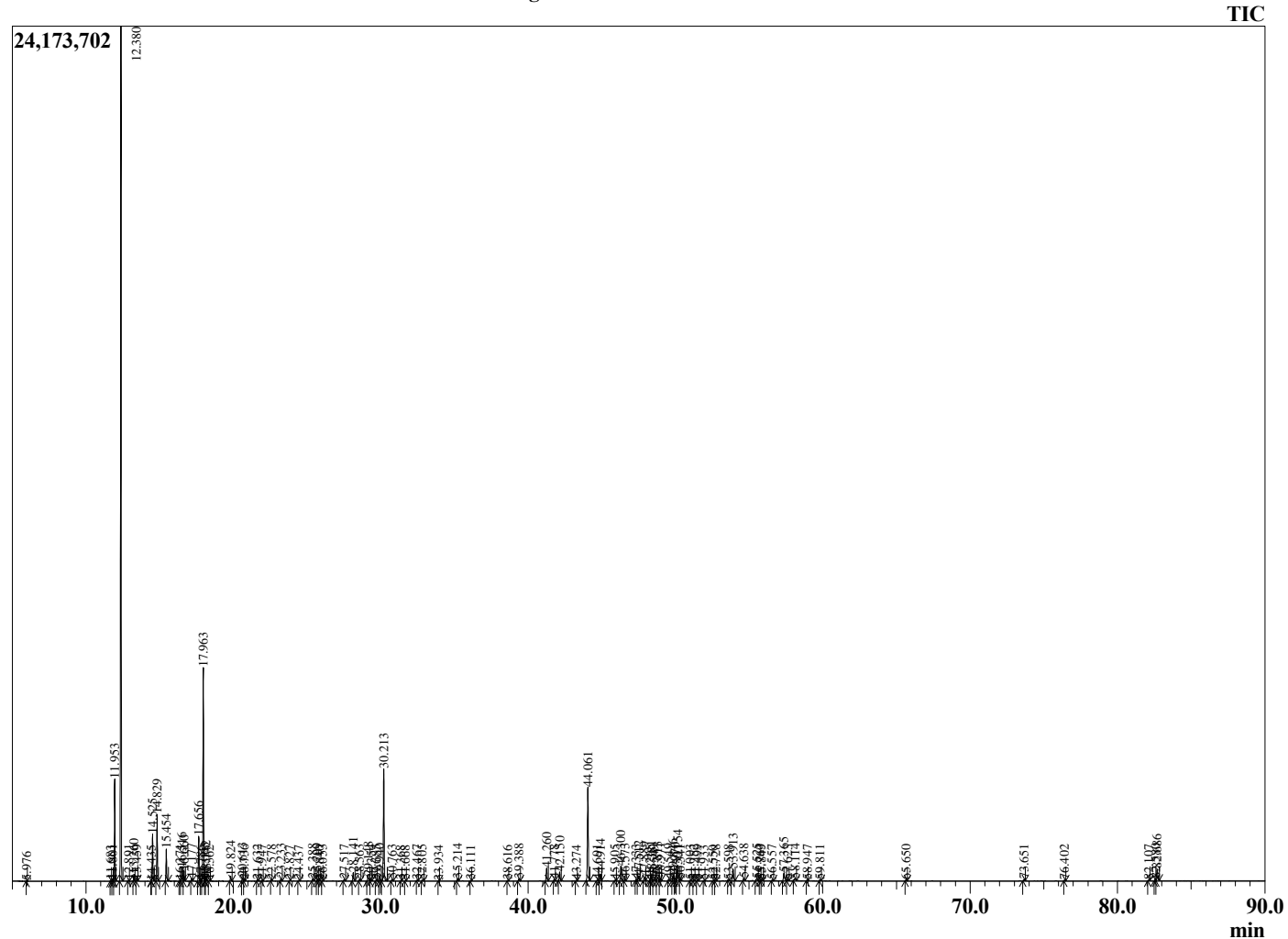
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 3/30/2021 10:15:48 PM  
 Sample Type : Essential Oil  
 Sample Name : Frankincense Vital - Barefut  
 Sample ID : 0104  
 Injection Volume : 0.10  
 Instrument ID : GC-4



Peak Report TIC

R.Time	Name	Area%
5.976	Toluene	0.02
11.683	Hashishene	0.04
11.801	Tricyclene	0.07
11.953	alpha-Thujene	4.72
12.380	alpha-Pinene	42.55
12.891	Thujadiene isomer	0.05
13.260	Camphene	0.33
13.459	Thuja-2,4(10)diene	0.07
14.435	Unidentified	0.01
14.525	Sabinene	2.40
14.829	beta-Pinene	3.47
15.454	Myrcene	1.65
16.371	Pseudolimonene	0.05
16.516	alpha-Phellandrene	0.76
16.660	delta-3-Carene	0.56
17.177	alpha-Terpinene	0.14
17.656	para-Cymene	2.58
17.786	Unidentified	0.04
17.963	Limonene	11.72
18.063	beta-Phellandrene	0.15
18.142	1,8-Cineole	0.29
18.362	(Z)-beta-Ocimene	0.04
19.824	gamma-Terpinene	0.28
20.613	Octanol	0.23
20.736	Pinol	0.07
21.632	Terpinolene	0.07
21.947	para-Cymene	0.06
22.578	Linalool	0.05
23.233	Unidentified	0.16
23.827	alpha-Thujone	0.03
24.437	alpha-Campholenal	0.04
25.388	trans-Pinocarveol	0.12
25.709	Unidentified	0.15
25.840	Camphor	0.03
26.053	alpha-Phellandrene-8-ol	0.06
27.517	Unidentified	0.11
28.141	Terpinen-4-ol	0.52
28.563	para-Cymen-8-ol	0.10
29.148	alpha-Terpineol	0.36
29.354	Methyl chavicol	0.05
29.685	alpha-Phellandrene epoxide	0.05
29.940	Verbenone	0.16
30.213	Octyl acetate	7.08
30.763	trans-Carveol	0.10
31.368	1-Methoxy Decane	0.03
31.668	cis-Carveol	0.04
32.467	Carvone	0.04
32.805	Piperitone	0.06
33.934	Unidentified	0.01
35.214	Bornyl acetate	0.17
36.111	Carvacrol	0.03
38.616	delta-Elementene	0.03
39.388	alpha-Cubebene	0.18
41.260	alpha-Copaene	0.93
41.778	beta-Bourbonene	0.09
42.150	beta-Elementene	0.57
43.274	alpha-Gurjunene	0.04
44.061	trans-beta-Caryophyllene	6.52
44.691	beta-Copaene	0.05
44.914	trans-alpha-Bergamotene	0.48
45.905	trans-Murrola-3,5-diene	0.05
46.300	alpha-Humulene	1.04

Chromatogram Frankincense Vital - Barefut



Comments:

The analysis of this Frankincense vital batch sample meets the expected chemical profile for authentic vital oil of *Boswellia carterii*. 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.

R.Time	Name	Area%
46.573	Alloaromadendrene	0.14
47.333	10-beta-H-Cadina-1(6),4-diene	0.08
47.512	trans-Cadina-1(6),4-diene	0.37
47.889	Germacrene D	0.29
48.265	Unidentified	0.05
48.381	beta-Selinene	0.36
48.549	trans-Muurolo-4(14),5-diene	0.13
48.813	alpha-Selinene	0.32
48.971	alpha-Murolene	0.20
49.549	beta-Bisabolene	0.13
49.846	gamma-Cadinene	0.43
49.970	Cubebol	0.20
50.154	delta-Cadinene	1.06
50.341	cis-Calamenene	0.04
51.003	trans-Cadina-1,4-diene	0.05
51.252	alpha-Cadinene	0.04
51.499	alpha-Calacorene	0.07
51.933	alpha-Elemol	0.02
52.550	Germacrene B	0.02
52.728	Unidentified	0.05
53.598	Spathulenol	0.05
53.913	Caryophyllene oxide	0.98
54.638	Viridiflorol	0.15
55.525	Humulene epoxide II	0.19
55.763	Unidentified	0.07
55.849	1,10-di-epi-Cubenol	0.06
56.557	1-epi-Cubenol	0.05
57.365	tau-Cadinol	0.71
57.623	delta-Cadinol	0.09
58.114	alpha-Cadinol	0.16
58.947	Unidentified	0.04
59.811	alpha-Bisabolol	0.06
65.650	Phellandrene dimer	0.07
73.651	Unidentified	0.09
76.402	Verticilla-4(20),7,11-triene	0.04
82.107	Cembrenol	0.05
82.580	Incensole	0.12
82.686	Serratol	0.98
		100.00