

Sample Information

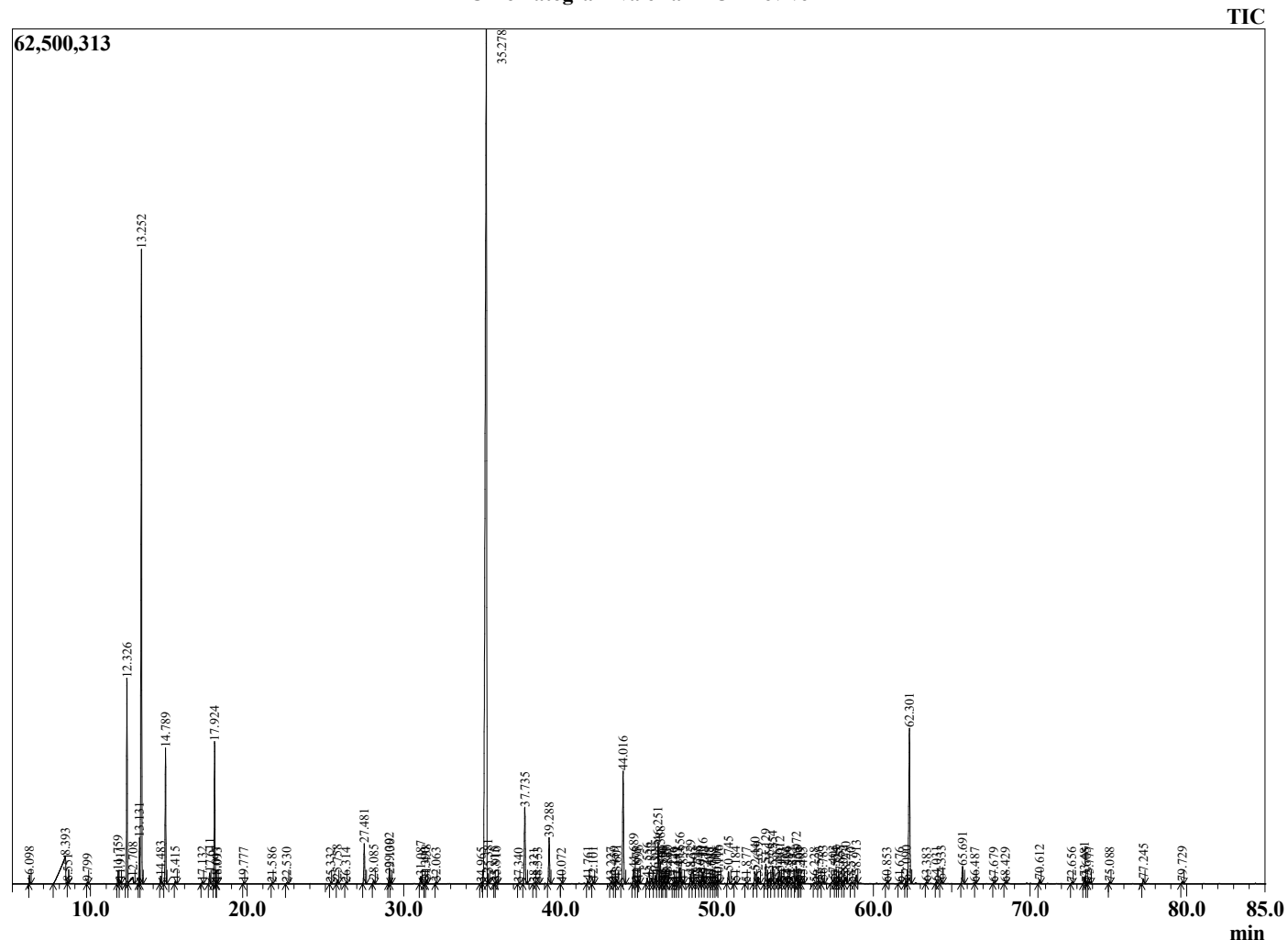
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 07/26/2024 9:43:00 PM
 Sample Type : Essential Oil
 Sample Name : Valerian EO
 Sample ID : 4R
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
6.098	Methyl 3-methylpentanoate	0.12
8.393	3-Methylpentanoic acid	4.25
8.551	Ethyl isovalerate	0.02
9.799	Methyl 3-methylpentanoate	0.03
11.759	Tricyclene	0.26
11.911	alpha-Thujene	0.05
12.326	alpha-Pinene	4.26
12.708	3-Methylpentanoic acid	0.49
13.131	alpha-Fenchene	1.10
13.252	Camphene	15.62
14.483	Sabinene	0.17
14.789	beta-Pinene	2.96
15.415	Myrcene	0.06
17.132	alpha-Terpinene	0.05
17.611	para-Cymene	0.26
17.924	Limonene	3.44
18.017	beta-Phellandrene	0.04
18.093	1,8-Cineole	0.03
19.777	gamma-Terpinene	0.03
21.586	Terpinolene	0.02
22.530	Linalool	0.03
25.332	trans-Pinocarveol	0.02
25.758	Camphor	0.12
26.314	trans-beta-Terpineol	0.03
27.481	Borneol	1.09
28.085	Terpinen-4-ol	0.10
29.092	alpha-Terpineol	0.42
29.130	Unidentified	0.13
31.087	Thymol methyl ether isomer	0.20
31.390	Bornyl formate	0.03
31.438	Thymol methyl ether	0.11
32.063	Carvacryl methyl ether	0.03
34.965	Myrcen-8-yl acetate	0.04
35.278	Bornyl acetate	38.95
35.381	Isobornyl acetate	0.22
35.815	Unidentified	0.02
35.910	trans-Pinocarvyl acetate	0.06
37.340	Myrtenyl acetate isomer	0.02
37.735	Myrtenyl acetate	2.19
38.321	Unidentified	0.03
38.553	delta-Elementene	0.03
39.288	alpha-Terpinyl acetate	1.34
40.072	trans-Carvyl acetate	0.02
41.761	beta-Patchoulene	0.08
42.101	beta-Elementene	0.07
43.227	alpha-Gurjunene	0.02
43.459	beta-Ionol	0.06
43.601	Thymohydroquinone dimethyl ether	0.16
44.016	beta-Caryophyllene	3.50
44.689	beta-Gurjunene (Calarene)	0.46
44.875	trans-alpha-Bergamotene	0.08
44.996	alpha-Guaiene	0.12
45.556	(Z)-beta-Farnesene	0.17
45.832	Seychellene	0.20
46.085	Valerna-4,7(11)-diene	0.26
46.251	alpha-Humulene	1.33
46.388	Unidentified	0.67
46.550	Alloaromadendrene	0.04
46.599	alpha-Patchoulene	0.10
46.785	Patchoulene	0.02
46.840	Unidentified	0.11
47.226	Unidentified	0.03

Chromatogram Valerian EO - Revive



Comments:

The analysis of this Valerian EO batch sample meets the expected chemical profile for authentic essential oil of Valeriana officinalis. 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%
47.339	Unidentified	0.03
47.483	Unidentified	0.03
47.656	trans-beta-Ionone	0.48
47.835	Unidentified	0.08
48.329	Unidentified	0.28
48.465	Viridiflorene analogue	0.03
48.748	Bulnesene analogue	0.14
48.940	alpha-Guaiene	0.07
49.116	alpha-Bulnesene	0.34
49.214	Unidentified	0.05
49.498	Unidentified	0.04
49.682	alpha-Alaskene	0.05
49.798	gamma-Cadinene	0.02
50.006	Bornyl isovalerate	0.11
50.116	delta-Cadinene	0.14
50.745	Kessane	0.36
51.184	Epiligulyl oxide	0.06
51.877	alpha-Elemol	0.03
52.440	Myrtenyl acetate	0.38
52.639	Unidentified	0.21
53.129	Maaliol	0.66
53.356	Unidentified	0.17
53.554	Spathulenol	0.56
53.867	Caryophyllene oxide	0.19
54.012	Unidentified	0.41
54.183	Unidentified	0.04
54.466	Unidentified	0.06
54.589	Viridiflorol	0.02
54.832	Unidentified	0.04
55.072	Unidentified	0.56
55.175	Unidentified	0.07
55.309	Rosifoliol	0.05
55.485	Unidentified	0.08
56.228	Unidentified	0.02
56.526	Unidentified isomer I	0.08
56.783	Unidentified isomer I	0.09
57.403	gamma-Eudesmol	0.13
57.574	Unidentified	0.02
57.725	Eudesmol analogue	0.03
57.857	Unidentified	0.20
58.072	epi-alpha-Muurolol	0.10
58.230	Unidentified	0.26
58.570	Unidentified	0.02
58.913	Patchouli alcohol	0.28
60.853	Caryophyllene analogue	0.03
61.676	Unidentified	0.03
62.090	Unidentified	0.09
62.301	Valerenal	5.30
63.383	Valerenal isomer	0.03
64.031	Unidentified	0.06
64.333	Unidentified	0.10
65.691	Unidentified	0.54
66.487	Unidentified	0.02
67.679	Unidentified	0.02
68.429	Unidentified	0.04
70.612	Unidentified	0.12
72.656	Unidentified	0.02
73.481	Unidentified	0.21
73.605	Unidentified	0.02
73.777	Unidentified	0.08
75.088	Unidentified	0.04
77.245	Unidentified	0.16
79.729	Unidentified	0.06

R.Time Name

Area%
100.00