

Sample Information

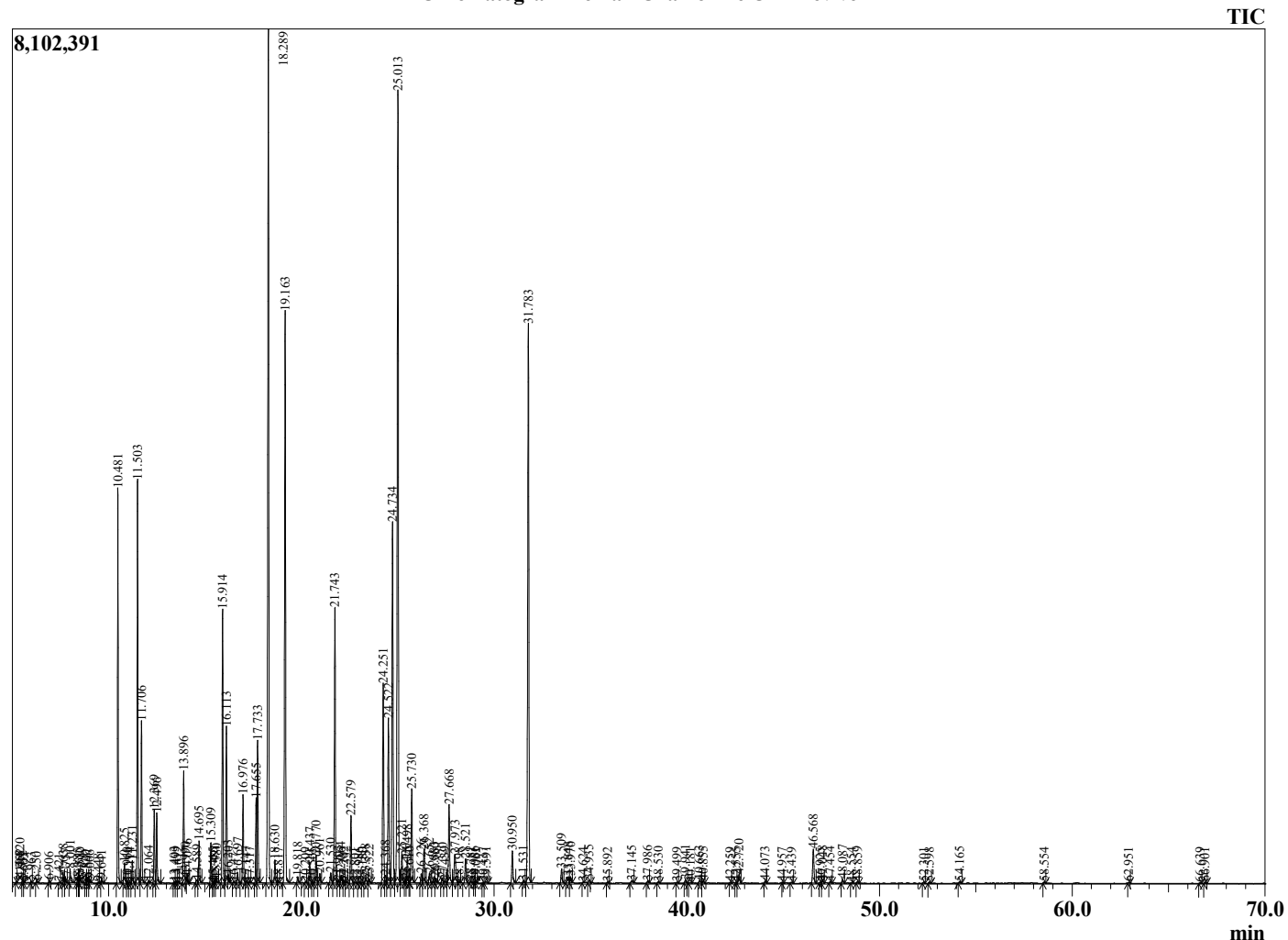
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 5/4/2023 12:45:01 PM
 Sample Type : Essential Oil
 Sample Name : Roman Chamomile Oil - Revive
 Sample ID : 3F
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
3.720	2-Pentanone	0.05
4.202	2-Ethylfuran	0.01
4.752	1-Pentanol	0.04
4.820	2-Methyl butanol	0.15
5.194	Ethyl isobutyrate	0.01
5.532	Isobutyl acetate	0.04
5.603	Methyl alpha-methylbutyrate	0.01
5.963	1-Octene	0.02
6.250	Hexanal	0.03
6.906	Methyl tiglate	0.03
7.421	2-Methyl butyric acid	0.01
7.638	3-Methyl pentanol	0.12
7.757	Ethyl 2-methylbutyrate	0.07
8.001	Hex-(3Z)-enol	0.19
8.385	Hex-(2E)-enol	0.07
8.461	Isobutyl propionate	0.02
8.510	Hexanol	0.10
8.820	Isoamyl acetate	0.05
8.897	2-Methylbutyl acetate	0.06
9.006	Propyl methacrylate	0.05
9.448	Nonene	0.01
9.641	Unidentified	0.05
10.481	Isobutyl isobutyrate	4.48
10.825	Prenyl acetate	0.36
10.960	Tricyclene	0.01
11.114	alpha-Thujene	0.01
11.231	2,5,8-Trimethyl nonane	0.27
11.503	alpha-Pinene	4.80
11.706	Isobutyl methacrylate	1.95
12.064	Propyl 2-methylbutyrate	0.03
12.369	Camphene	0.90
12.496	3-Methylcyclohexanone	0.92
13.403	Isopentyl propanoate	0.02
13.499	2-Methylbutyl propionate	0.03
13.612	Sabinene	0.02
13.896	beta-Pinene	1.64
13.990	1-Octen-3-ol	0.01
14.076	Hexyl acetate	0.08
14.589	2-Pentylfuran	0.07
14.695	Propyl angelate	0.57
15.309	Isobutyl 2-methylbutanoate	0.54
15.415	Unidentified	0.01
15.491	Hex-(3E)-enyl acetate	0.05
15.580	Isobutyl isovalerate	0.07
15.914	Isoamyl isobutyrate	3.67
16.113	2-Methylbutyl isobutyrate	2.25
16.203	Unidentified	0.02
16.477	Unidentified	0.02
16.697	para-Cymene	0.16
16.976	Limonene	1.23
17.147	1,8-Cineole	0.03
17.317	Prenyl isobutyrate	0.02
17.655	Pentyl methacrylate	1.18
17.733	Isopentyl methacrylate	1.97
18.289	Isobutyl angelate	12.82
18.630	Prenyl isobutyrate	0.34
18.817	gamma-Terpinene	0.01
19.163	Methallyl angelate	8.41
19.818	Hexyl propanoate	0.09
20.209	Unidentified	0.01
20.437	Camphenilone	0.31
20.565	Terpinolene	0.01

Chromatogram Roman Chamomile Oil - Revive



Comments:

The analysis of this Roman Chamomile batch sample meets the expected chemical profile for authentic essential oil of *Anthemis nobilis*. 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%
20.770	Butyl angelate	0.41
20.961	Isobutyl tiglate	0.16
21.530	Isopentyl 2-methyl butanoate	0.17
21.743	2-Methylbutyl-2-methylbutyrate	4.17
21.903	Nonanal	0.04
22.064	2-Methylbutyl isovalerate	0.15
22.202	Isobutyl hexanoate	0.02
22.332	Unidentified	0.02
22.579	Hexyl isobutyrate	1.04
22.801	Unidentified	0.02
22.986	trans-para-Mentha-2,8-dienol	0.02
23.180	Unidentified	0.01
23.338	alpha-Campholenal	0.10
23.522	Unidentified	0.06
24.251	trans-Pinocarveol	3.12
24.368	Hex-(3Z)-enyl isobutyrate	0.13
24.522	Butanoic Acid Ester	2.67
24.734	Isoamyl angelate	5.86
25.013	Isoamyl tiglate	13.20
25.221	trans-beta-Terpineol	0.48
25.420	Sabina ketone	0.05
25.498	Amyl angelate isomer	0.38
25.610	Pinocamphone	0.01
25.730	Pinocarvone	1.49
26.226	3-cis-Hexenyl butenoate	0.15
26.368	Borneol	0.53
26.652	Isopinocamphone	0.15
26.883	Unidentified	0.10
26.960	Terpinen-4-ol	0.08
27.320	Hexyl angelate isomer	0.09
27.439	Unidentified	0.04
27.668	2-Methyl-2-butene angelate	1.29
27.973	Myrtenol	0.70
28.198	Unidentified	0.02
28.521	3-Methyl-3-methylpentyl butanoate	0.39
28.781	Unidentified	0.03
28.986	Unidentified	0.01
29.061	Unidentified	0.01
29.437	Unidentified	0.01
29.591	trans-Carveol	0.04
30.950	2-Hydroxy-2-methyl-but-3-enyl 2-methyl-2-ci	0.53
31.531	4-Methyl amyl angelate isomer	0.03
31.783	4-Methyl amyl angelate	9.35
33.509	Hex-(3Z)-enyl angelate	0.23
33.848	1-Octen-3-ol butanoate isomer	0.14
33.970	Hexyl angelate	0.11
34.624	Unidentified	0.01
34.935	3-Methylpentyl 2-methyltiglate	0.06
35.892	2-Ethylbutyl hexanoate	0.02
37.145	Unidentified	0.05
37.986	7-epi-Silphiperfol-5-ene	0.04
38.530	Unidentified	0.02
39.499	Unidentified	0.02
39.941	alpha-Copaene	0.05
40.181	Unidentified	0.01
40.663	Unidentified	0.06
40.855	beta-Elemene	0.04
42.259	Unidentified	0.01
42.555	Unidentified	0.02
42.720	beta-Caryophyllene	0.17
44.073	Benzyl tiglate	0.03
44.957	alpha-Humulene	0.01
45.439	Unidentified	0.02

R.Time	Name	Area%
46.568	Germacrene D	0.64
46.925	Unidentified	0.02
47.048	beta-Selinene	0.05
47.454	Bicyclogermacrene	0.03
48.087	(E,E)-alpha-Farnesene	0.07
48.554	Unidentified	0.01
48.859	delta-Cadinene	0.03
52.301	Spathulenol	0.02
52.598	Caryophyllene oxide	0.03
54.165	Copaborneol	0.03
58.554	alpha-Bisabolol	0.02
62.951	Benzyl benzoate	0.01
66.639	Neophytadiene	0.02
66.901	Phytone	0.03
		100.00