

Sample Information

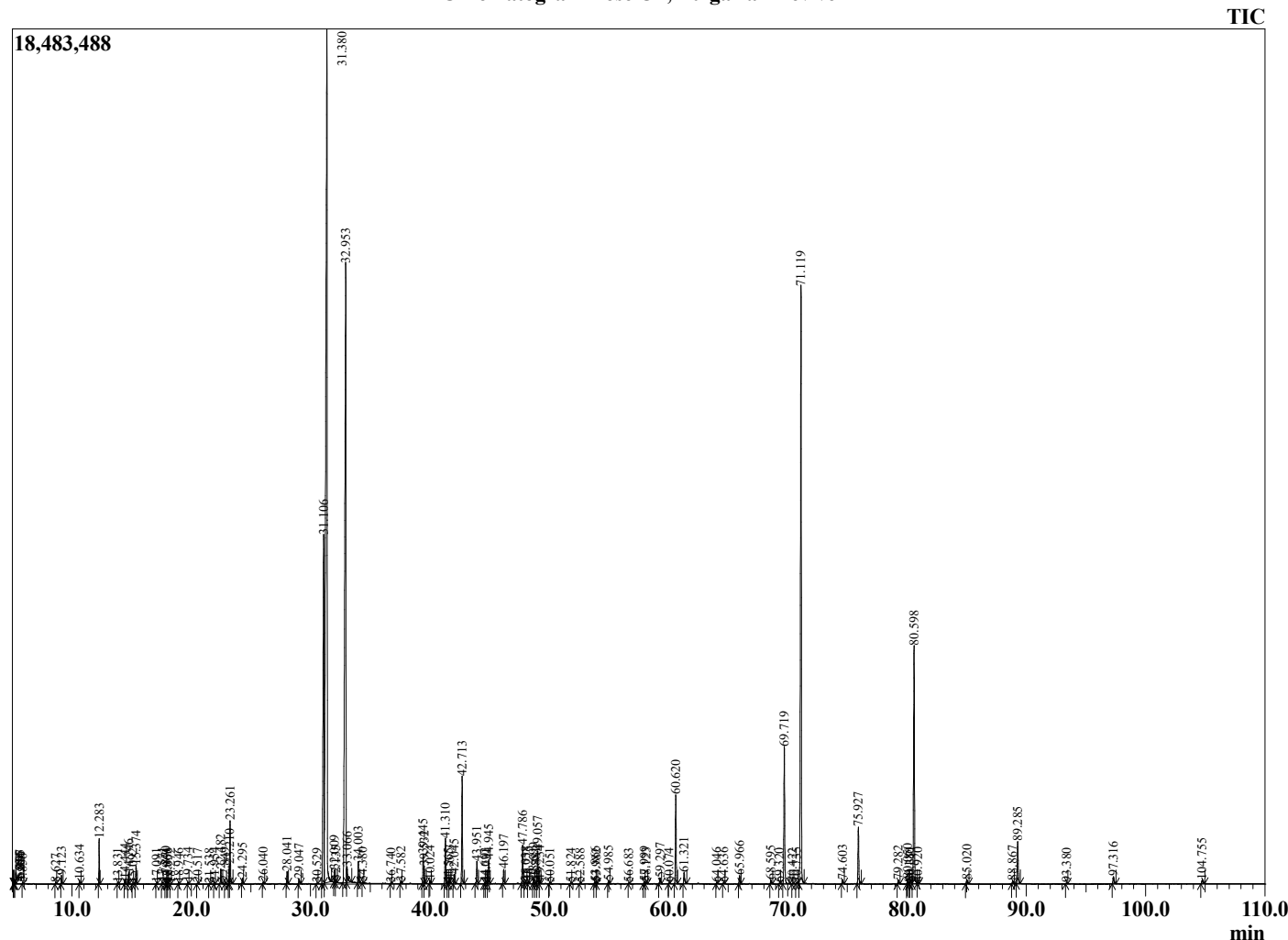
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 6/13/2022 12:01:18 AM
 Sample Type : Essential Oil
 Sample Name : Rose Oil, Bulgaria - Revive
 Sample ID : K4C
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
2.931	Ethanol	1.16
3.533	2-Butanol	0.01
3.728	Isobutyl alcohol	0.01
4.075	1-Methoxy-1-ethoxyethane	0.01
4.554	Pentanal	0.02
5.005	1,1-Diethoxyethane	0.04
5.105	Isoprenol	0.01
5.157	Isopentyl alcohol	0.04
5.236	2-Methylbutanol	0.03
5.856	1-Pentanol	0.02
8.627	cis-3-Hexenol	0.02
9.123	Hexanol	0.10
10.634	Heptanal	0.05
12.283	alpha-Pinene	0.60
13.831	Benzaldehyde	0.02
14.444	Sabinene	0.07
14.746	beta-Pinene	0.14
15.092	6-Methyl-hept-5-en-2-one	0.01
15.374	Myrcene	0.26
17.091	alpha-Terpinene	0.01
17.571	para-Cymene	0.02
17.870	Limonene	0.04
17.969	beta-Phellandrene	0.00
18.056	1,8-Cineole	0.01
18.272	cis-beta-Ocimene	0.01
18.946	trans-beta-Ocimene	0.02
19.734	gamma-Terpinene	0.03
20.517	trans-Sabinene hydrate	0.02
21.538	Terpinolene + cis-Linalool oxide (furanoid)	0.01
21.954	Rosefuran	0.02
22.482	Linalool	0.26
22.849	Nonanal	0.03
23.210	cis-Rose oxide	0.19
23.261	Phenethyl alcohol	1.12
24.295	trans-Rose oxide	0.10
26.040	Nerol oxide	0.04
28.041	Terpinen-4-ol	0.22
29.047	alpha-Terpineol	0.10
30.529	Unidentified	0.02
31.106	Nerol	8.49
31.380	Citronellol	31.05
32.009	Neral	0.21
32.135	Isogeraniol	0.03
32.953	Geraniol	18.96
33.066	2-Phenethyl acetate	0.43
34.003	Geranial	0.38
34.380	Citronellyl formate	0.02
36.740	Undecanal	0.01
37.582	Methyl geranate	0.04
39.445	Citronellyl acetate	0.58
39.532	Eugenol	0.30
40.024	Neryl acetate	0.06
41.310	Geranyl acetate	0.83
41.565	Elemene isomer	0.01
41.673	beta-Bourbonene	0.08
42.045	beta-Elemene	0.18
42.713	Methyleugenol	1.99
43.951	trans-beta-Caryophyllene	0.47
44.602	beta-Copaene	0.02
44.731	Unidentified	0.02
44.945	alpha-Guaiene	0.47
46.197	alpha-Humulene	0.28

Chromatogram Rose Oil, Bulgaria - Revive



Comments:

The analysis of this Rose Oil, Bulgaria batch sample meets the expected chemical profile for authentic essential oil of *Rosa damascena*. 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%
47.786	Germacone D	0.80
48.038	Phenylethyl 2-methylbutyrate	0.05
48.275	beta-Selinene	0.05
48.699	Aciphyllene	0.11
48.881	Unidentified	0.03
49.057	Pentadecane + alpha-Bulnesene	0.66
49.234	trans,trans-alpha-Farnesene	0.06
50.051	delta-Cadinene	0.02
51.824	alpha-Elemol	0.02
52.588	trans-Nerolidol	0.01
53.866	2-Phenylethyl tiglate	0.05
53.982	Spathulenol	0.01
54.985	Hexadecane	0.07
56.683	gamma-Eudesmol	0.02
57.999	alpha-Eudesmol	0.05
58.123	Pogostol	0.04
59.297	Heptadecene isomer	0.15
60.074	(2Z,6Z)-Farnesol	0.02
60.620	Heptadecane	1.84
61.321	(2E,6E)-Farnesol	0.27
64.046	Benzyl benzoate	0.02
64.636	Unidentified	0.03
65.966	Octadecane	0.18
68.595	Phenethyl benzoate	0.08
69.320	Unidentified	0.02
69.719	(Z)-9-Nonadecene	3.03
70.422	Unidentified	0.02
70.735	Unidentified	0.03
71.119	Nonadecane	13.95
74.603	Eicosene	0.10
75.927	Eicosane	1.24
79.282	Unidentified	0.09
80.050	Unidentified	0.11
80.186	Unidentified	0.02
80.311	Unidentified	0.07
80.598	Heneicosane	5.44
80.920	Unidentified	0.02
85.020	Docosane	0.10
88.867	Tricosene	0.07
89.285	Tricosane	0.94
93.380	Tetracosane	0.02
97.316	Pentacosane	0.19
104.755	Heptacosane	0.11
		100.00