

Sample Information

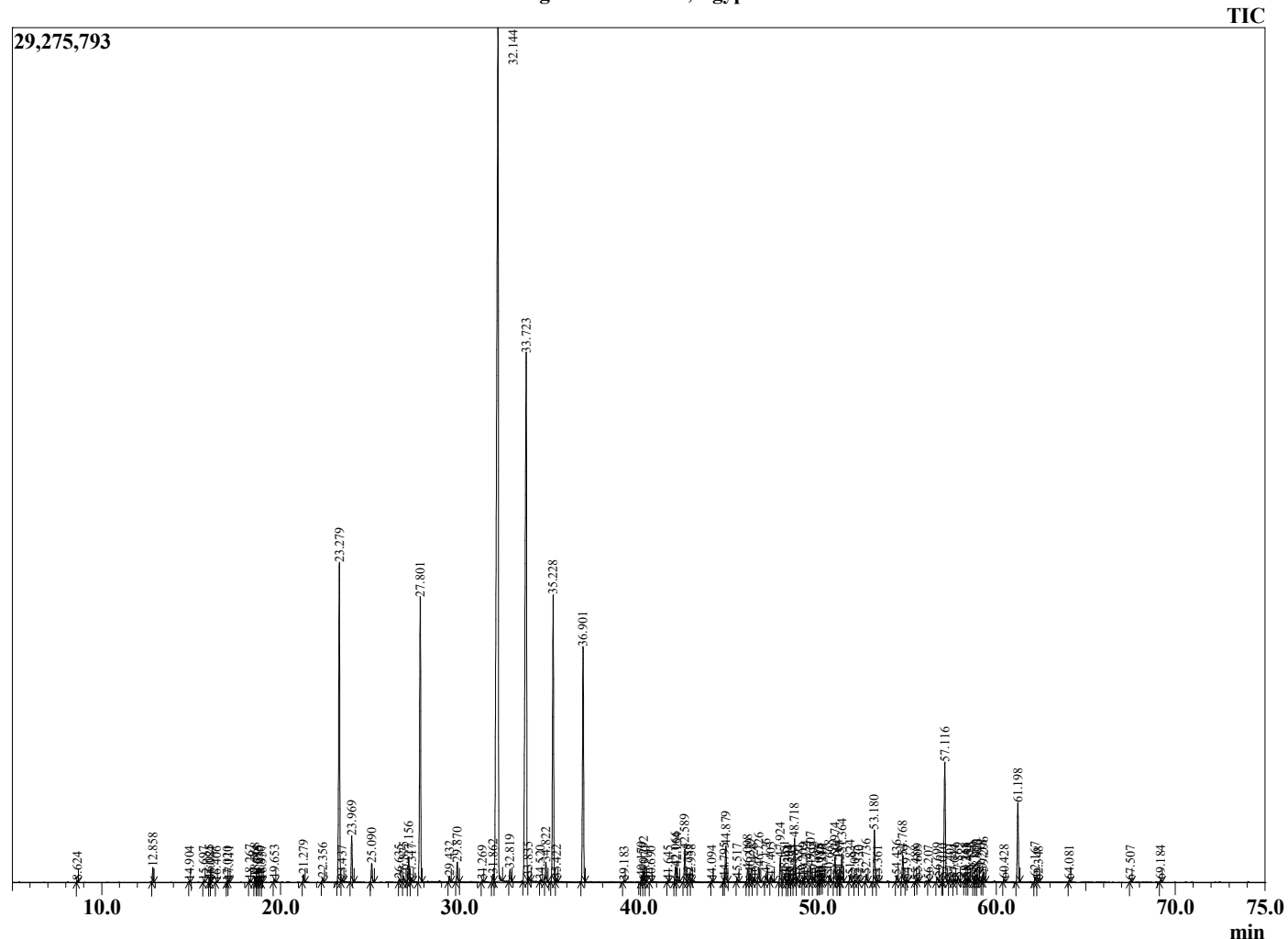
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 1/8/2022 12:52:10 AM
 Sample Type : Essential Oil
 Sample Name : Geranium, Egypt - Revive
 Sample ID : 2031
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
8.624	3-Methyl pentanol	0.02
12.858	alpha-Pinene	0.25
14.904	Bois de Rose oxide	0.02
15.697	6-Methyl hept-5-en-2-one	0.02
16.025	Myrcene	0.06
16.084	Unidentified	0.01
16.406	Unidentified	0.01
17.020	cis-Dehydrolinalool oxide	0.02
17.111	alpha-Phellandrene	0.03
18.267	para-Cymene	0.05
18.568	Limonene	0.09
18.675	beta-Phellandrene	0.03
18.755	Dihydromyrcenol analogue	0.03
18.870	Dihydromyrcenol	0.03
18.957	cis-beta-Ocimene	0.04
19.653	trans-beta-Ocimene	0.06
21.279	cis-Linalool oxide (furanoid)	0.16
22.356	trans-Linalool oxide (furanoid)	0.10
23.279	Linalool	7.27
23.437	6-Methyl-heptadi-3,5-en-2-one	0.06
23.969	cis-Rose oxide	0.96
25.090	trans-Rose oxide	0.41
26.635	Isopulegol	0.06
26.875	Citronellal	0.12
27.156	Menthone	0.56
27.317	Unidentified	0.09
27.801	Isomenthone	6.61
29.432	Isomenthol	0.13
29.870	alpha-Terpineol	0.45
31.269	Unidentified	0.04
31.862	Nerol	0.19
32.144	Citronellol	32.59
32.819	Neral	0.27
33.723	Geraniol	17.37
33.835	neo-Isopulegol	0.12
34.520	Unidentified	0.04
34.822	Geranial	0.44
35.228	Citronellyl formate	6.81
35.422	Neryl formate	0.05
36.901	Geranyl formate	5.52
39.183	delta-Elementene	0.02
40.179	alpha-Cubebene	0.12
40.292	Citronellyl acetate	0.25
40.370	Eugenol	0.02
40.690	Unidentified	0.03
41.645	alpha-Ylangene	0.03
42.066	alpha-Copaene	0.37
42.154	Geranyl acetate	0.35
42.589	beta-Bourbonene	0.79
42.785	alpha-Bourbonene + beta-Cubebene	0.09
42.938	beta-Elementene	0.05
44.094	alpha-Gurjunene	0.03
44.795	beta-Ylangene	0.05
44.879	trans-beta-Caryophyllene	0.89
45.517	beta-Copaene	0.08
46.098	Citronellyl propionate	0.30
46.239	Guaia-6,9-diene	0.21
46.426	Isogermacrene D	0.06
46.726	Unidentified	0.36
47.126	alpha-Humulene	0.19
47.403	Alloaromadendrene	0.14
47.924	Geranyl propanoate	0.59

Chromatogram Geranium, Egypt - Revive



Comments:

The analysis of this Geranium, Egypt batch sample meets the expected chemical profile for authentic essential oil of *Pelargonium graveolens*. 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%
48.151	Cadina-1(6),4-diene	0.17
48.341	gamma-Murolene	0.05
48.394	Unidentified	0.07
48.595	alpha-Amorphene	0.04
48.718	Germacrene D	1.10
48.891	Selina-4,11-diene	0.10
49.209	beta-Selinene	0.09
49.334	Viridiflorene + gamma-Amorphene	0.23
49.607	Bicyclogermacrene	0.40
49.793	alpha-Murolene	0.12
50.085	delta-Amorphene	0.03
50.125	trans,trans-alpha-Farnesene	0.04
50.219	beta-Dihydroagarofuran	0.03
50.316	Geranyl isobutyrate	0.03
50.668	gamma-Cadinene	0.15
50.974	delta-Cadinene	0.63
51.164	trans-Calamenene	0.17
51.257	Zonarene	0.11
51.364	Citronellyl butyrate	0.69
51.824	trans-Cadina-1,4-diene	0.16
52.093	Selina-4(15),7(11)-diene	0.04
52.330	alpha-Calacorene	0.03
52.736	alpha-Agarofuran	0.19
53.180	Geranyl butyrate	1.23
53.361	1-nor-Bourbonanone	0.04
54.436	Spathulenol	0.15
54.768	2-Phenethyl tiglate	0.64
54.979	Globulol	0.03
55.488	Viridiflorol	0.01
55.609	Geranyl 2-methylbutyrate	0.06
56.207	beta-Eudesmol	0.03
56.699	1,10-di-epi-Cubenol	0.11
57.010	Citronellyl valerate	0.04
57.116	10-epi-gamma-Eudesmol	3.16
57.401	Epicubenol	0.10
57.644	Unidentified	0.06
57.869	Agarospirol	0.09
58.268	Cubenol analogue	0.10
58.343	Unidentified	0.06
58.458	Unidentified	0.10
58.759	Geranyl valerate	0.11
58.860	Valerianol	0.17
58.923	beta-Eudesmol	0.21
59.218	Unidentified	0.14
59.296	trans-Citronellyl tiglate	0.24
60.428	Unidentified	0.06
61.198	Geranyl tiglate	1.89
62.167	Geraniol hexanoate	0.12
62.348	Citronellyl hexanoate	0.03
64.081	Unidentified	0.05
67.507	Unidentified	0.03
69.184	Unidentified	0.05
		100.00