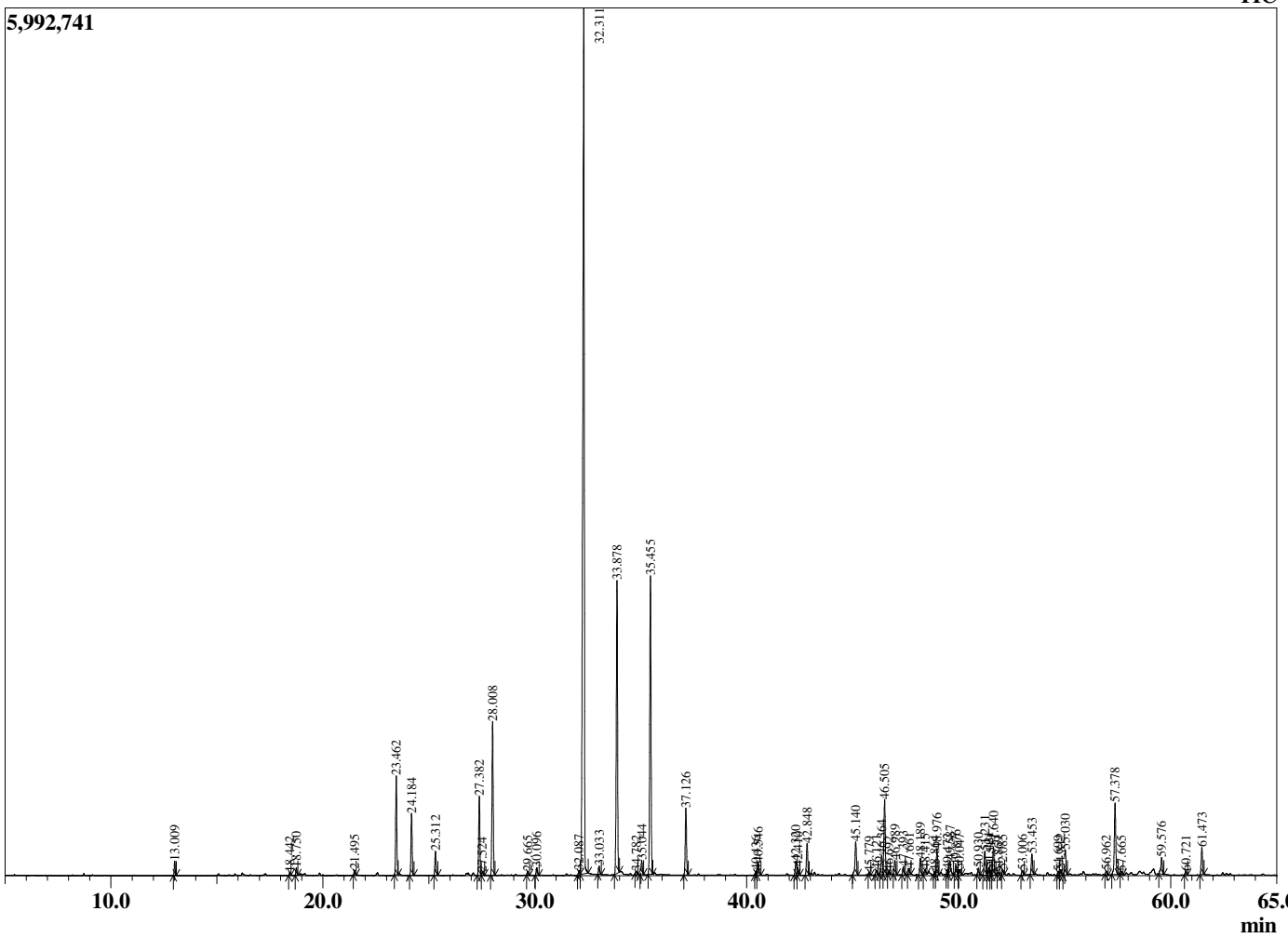
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 3/17/2020 6:26:01 PM
Sample Type : Essential Oil
Sample Name : Rose Geranium - Revive
Sample ID : 8780
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Rose Geranium - Revive



Comments:
The analysis of this Rose Geranium batch sample meets the expected chemical profile for authentic essential oil of *Pelargonium roseum.* 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.

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Peak Report TIC

R.Time	Name	Area%
13.009	alpha-Pinene	0.37
18.442	para-Cymene	0.08
18.750	Limonene	0.21
21.495	cis-Linalool oxide (furanoid)	0.15
23.462	Linalool	3.15
24.184	cis-Rose oxide	2.01
25.312	trans-Rose oxide	0.79
27.382	Menthone	2.64
27.524	Unidentified	0.12
28.008	Isomenthone	5.26
29.665	Isomenthol	0.14
30.096	alpha-Terpineol	0.27
32.087	Nerol	0.15
32.311	Citronellol	38.14
33.033	Neral	0.28
33.878	Geraniol	10.31
34.782	trans-Myrtanol	0.10
35.044	Geranial	0.48
35.455	Citronellyl formate	10.72
37.126	Geranyl formate	2.33
40.436	alpha-Cubebene	0.13
40.546	Citronellyl acetate	0.44
42.320	alpha-Copaene	0.53
42.410	Geranyl acetate	0.26
42.848	beta-Bourbonene	1.18
45.140	beta-Caryophyllene	1.35
45.779	beta-Copaene	0.09
46.121	alpha-Guaiene	0.17
46.364	Citronellyl propionate	0.73
46.505	6,9-Guaiadiene	2.84
46.692	trans-Murrola-3,5-diene	0.09
46.989	Unidentified	0.53
47.393	alpha-Humulene	0.31
47.661	Alloaromadendrene	0.21
48.189	Geranyl propionate	0.60
48.415	10-beta-H-Cadina-1(6),4-diene	0.19
48.864	Unidentified	0.11
48.976	Germacrene D	0.97
49.472	beta-Selinene	0.18
49.587	Viridiflorene (Ledene)	0.63
49.876	Bicyclogermacrene	0.38
50.047	alpha-Muurolene	0.21
50.930	gamma-Cadinene	0.24
51.231	delta-Cadinene	0.96
51.421	trans-Calamenene	0.27
51.519	Zonarene	0.16
51.640	Citronellyl butyrate	1.08
51.869	Unidentified	0.09
52.085	trans-Cadina-1,4-diene	0.16
53.006	Unidentified	0.17
53.453	Geranyl butyrate	0.73
54.699	Spathulenol	0.15
54.812	Unidentified	0.19
55.030	2-Phenethyl tiglate	0.96
56.962	1,10-di-epi-Cubenol	0.13
57.378	10-epi-gamma-Eudesmol	2.92
57.665	1-epi-Cubenol	0.10
59.576	Citronellyl tiglate	0.72
60.721	Unidentified	0.13
61.473	Geranyl tiglate	1.01
		100.00