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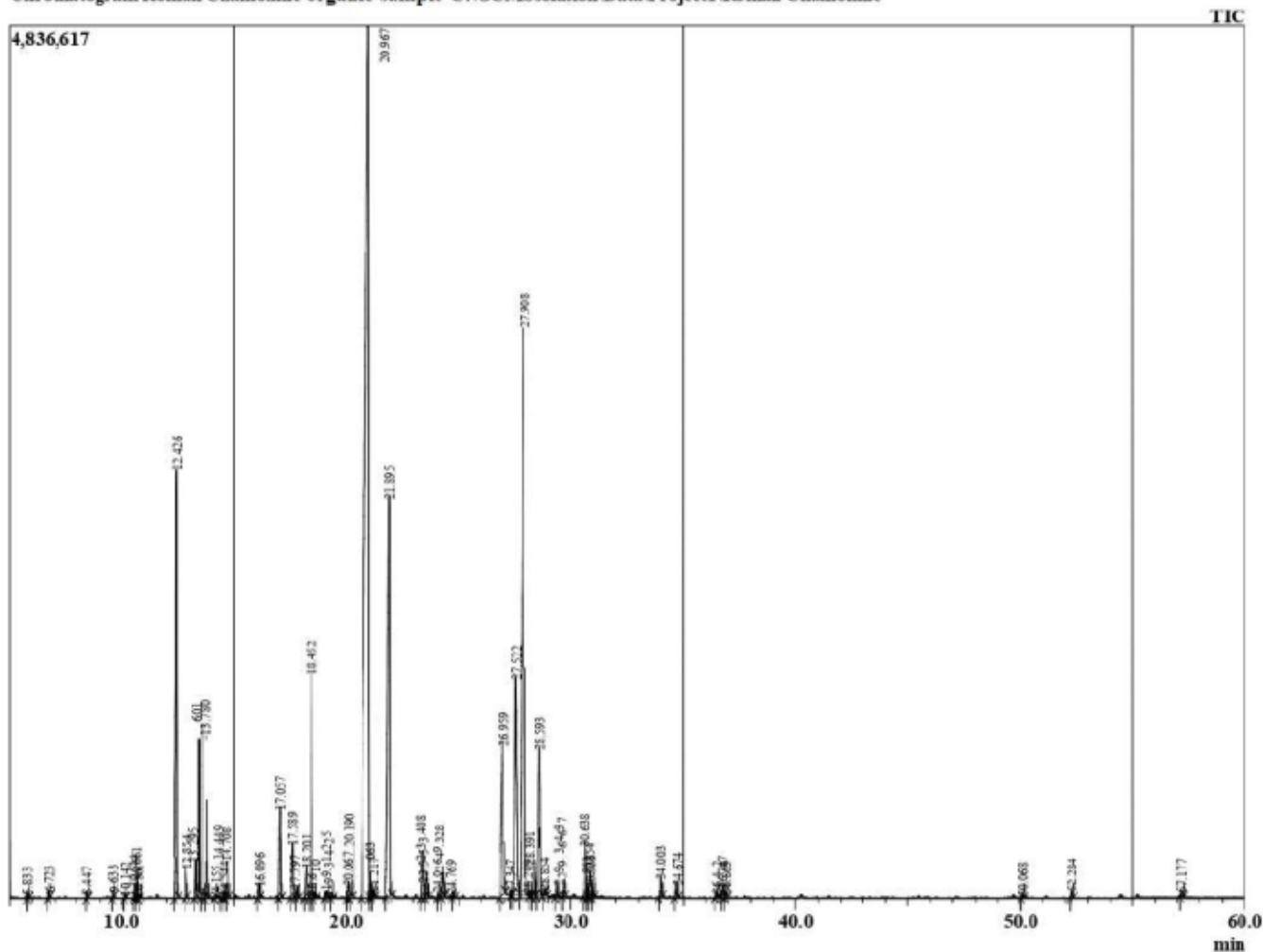
Certificate of Analysis Sheet

Organic Roman Chamomile Essential Oil

(*Anthemis nobilis*)

Sample Type : Essential Oil
Sample Name : Roman Chamomile organic sample
Injection Volume : 1.00
Data File : C:\GCMSsolution\Data\Project1\Roman Chamomile organic

Chromatogram Roman Chamomile organic sample C:\GCMSsolution\Data\Project1\Roman Chamomile



R. Time	Name	Peak Report TIC	Area%
5.833	1-Butanol, 2-methyl-, (S)-		0.049
6.723	acetic acid, 2-methyl-propyl ester		0.065
8.447	2-Butenoic acid 2-methyl-, methyl ester, (Z)-		0.062
9.633	Propanoic acid, 2-methyl-, propyl ester		0.073
10.142	Propanoic acid, 2-methylpropyl ester		0.056
10.544	1-BUTANOL, 3-METHYL-, ACETATE		0.159
10.661	2-Methylbutyl acetate [RT17.970, AI880]		0.272
10.801	2-Propenoic acid, 2-methyl-, propyl ester		0.042
12.426	Isobutyl isobutyrate [RT20.719, AI908]		3.115
12.854	1,2-Dimethyl-2-propenyl acetate		0.403
13.295	URoman@21.825		0.512
13.601	Pinene <alpha> [RT22.163, AI 939]		4.150
13.780	Methacrylic acid, isobutyl ester [RT22.613, PI		2.270
14.155	propyl 2-methylbutanoate		0.046
14.449	Camphene [RT 23.475, AI 954]		0.631
14.544	Isobutyric acid, butyl ester		0.071
14.708	URoman@23.705		0.540
16.096	Pinene <beta> [RT 25.727, AI 979]		0.202
17.057	Ethyl tiglate <isomer> [RT25.669, AI-]		1.354
17.589	Butanoic acid, 2-methyl-, 2-methylpropyl ester		0.855
17.797	Isobutyl isovalerate [RT27.985, AI1013]		0.193
18.201	Isocamyl isobutyrate [RT28.519, AI1007]		4.850
18.452	Propanoic acid, 2-methyl-, pentyl ester		3.650
18.610	2,2-Dimethyl-3-heptanone		0.089
19.125	2-Pentanone, 1-hydroxy-		0.137
19.342	Limonene [RT 30.079, AI 1029]		0.054
20.067	Isopentyl methacrylate		0.280
20.190	Prenyl isobutyrate [RT30.887, AI1048]		0.994
20.967	Isobutyl angelate [RT31.686, AI1045]		30.381
21.063	Pantolactone		0.328
21.217	URoman@31.926		0.133
21.895	Butyl tiglate <2-> [RT32.707, AI1066]		8.006
23.408	Butyl angelate [RT34.634, AI1085]		0.773
23.553	2-Butenoic acid 2-methyl-, 2-methylpropyl es		0.406
24.069	Isopentyl 2-methyl butanoate [RT35.566, AI11		0.135
24.318	Butanoic acid, 2-methyl-, 2-methylbutyl ester		0.436
24.769	Butyl tiglate <2-> [RT32.707, AI1066]		0.101
26.959	Bicyclo[3.1.1]heptan-3-ol, 6,6-dimethyl-2-met		3.214
27.347	UJumper@39.244		0.078
27.522	Isocamyl angelate [RT39.441, AI1143]		5.277
27.908	Isocamyl tiglate [RT39.726, AI1148]		17.891
28.209	Bicyclo[3.2.0]heptan-3-ol, 2-methylene-6,6-di		0.061
28.391	Amyl angelate isomer [RT40.173, AI-]		0.594
28.593	Pinocarvone [RT40.643, AI1160]		2.836
28.854	Borneol		0.134
29.349	Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (0.255
29.667	Isobutyl 3-hydroxy-2-methylenebutanoate		0.312
30.638	angelate isomer [RT42.647, AI1185]		0.998
30.752	Cyclobutanecarboxylic acid, 2-methylbutyl est		0.161
30.854	Bicyclo[3.1.1]hept-2-ene-2-carboxaldehyde, 6		0.484
30.933	Myrtenol [RT43.11, AI1194]		1.182
34.003	2-Hydroxy-2-methyl-but-3-enyl 2-methyl-3Z)		0.377
34.674	Amyl angelate <4-methyl> [RT47.269, AI1249		0.258
36.472	Hexenyl angelate <3Z> [RT49.099, AI1275]		0.102
36.747	Octen-3-yl butanoate <1-> [RT49.485, AI1280]		0.216
36.869	Hexyl angelate [RT49.569, AI1285]		0.109
50.068	Selinene <beta> [RT64.023, AI1490]		0.073
52.284	Geraniene <alpha> [RT 60.51, AI1437]		0.174
57.177	Unidentified @ 71.515 on Frankincense		0.134
69.782	2-Pentadecanone, 6,10,14-trimethyl-		0.096

Comments:

Typical Ranges of Main Components:

100.000