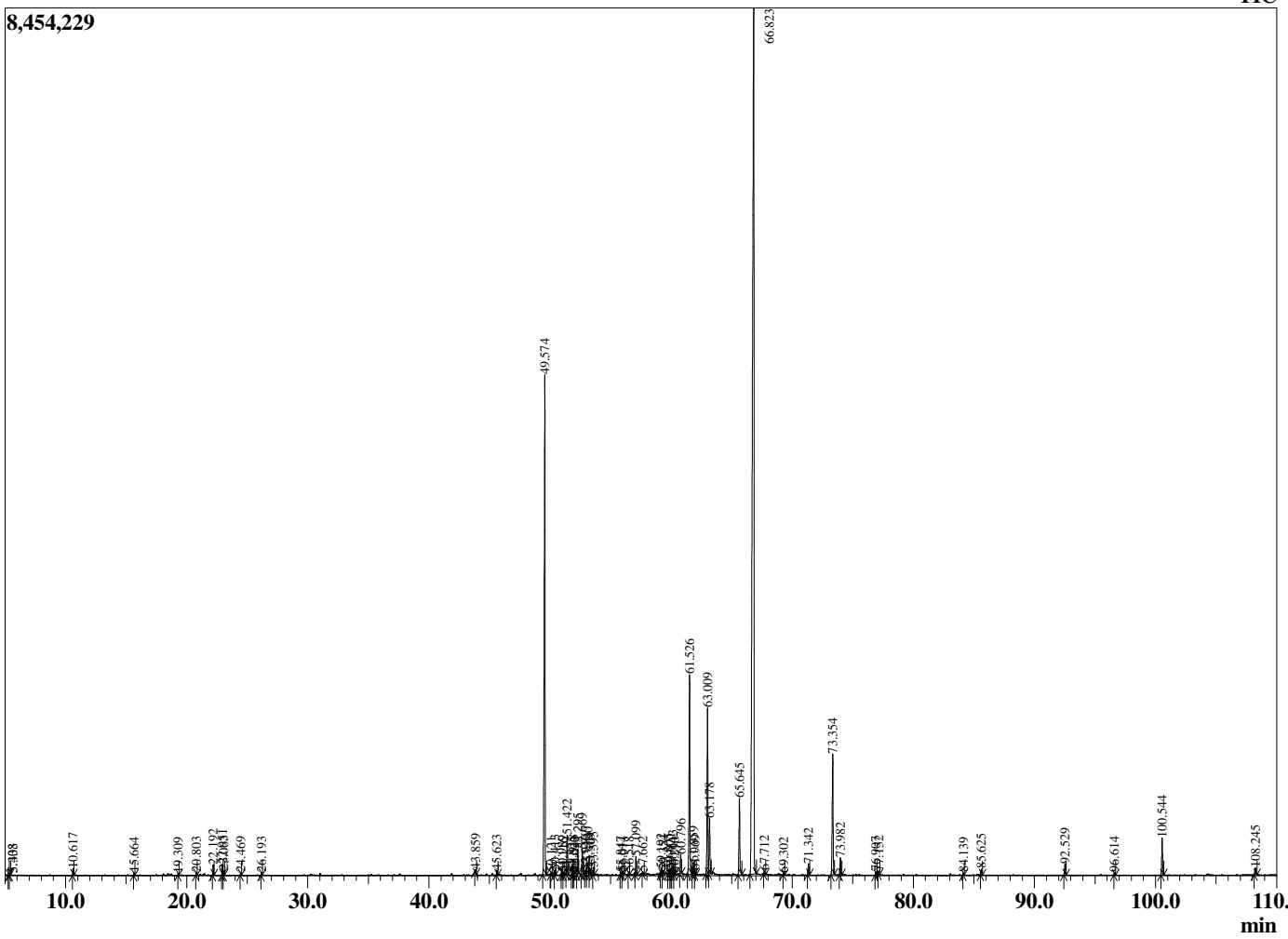
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 8/15/2019 6:26:47 AM
Sample Type : Essential Oil
Sample Name : German Chamomile - Revive
Sample ID : E0C0318L
Injection Volume : 0.10
Instrument ID: : GC-2

Chromatogram German Chamomile - Revive



Comments:

The analysis of this German Chamomile batch sample meets the expected chemical profile for authentic essential oil of *Matricaria chamomilla*. 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%
5.303	3-Methylbutanal	0.02
5.438	2-Methylbutanal	0.02
10.617	Ethyl 2-methylbutyrate	0.12
15.664	Propyl 2-methylbutyrate	0.05
19.309	Octanal	0.04
20.803	para-Cymene	0.06
22.192	trans-beta-Ocimene	0.25
22.951	Artemisia Ketone	0.26
23.063	gamma-Terpinene	0.10
24.469	Artemisia alcohol	0.06
26.193	Nonanal	0.06
43.859	Decanoic acid	0.08
45.623	beta-Elemene	0.13
49.574	trans-beta-Farnesene	16.97
50.121	Alloaromadendrene	0.06
50.413	Dehydrosesquicineole	0.11
50.989	gamma-Muurolene	0.11
51.116	Unidentified	0.06
51.422	Germacrene D	1.12
51.825	alpha-Zingiberene	0.07
51.918	beta-Selinene	0.11
52.020	Viridiflorene (Ledene)	0.05
52.295	Bicyclogermacrene	0.69
52.669	(E,E)-alpha-Farnesene	0.73
52.940	beta-Bisabolene	0.11
53.130	3,6 Dihydrochamazulene	0.50
53.309	gamma-Cadinene	0.19
53.595	delta-Cadinene	0.20
55.847	Unidentified	0.07
56.014	trans-Nerolidol	0.08
56.518	Dendaralasin	0.07
57.099	Spathulenol	0.52
57.662	Viridiflorol	0.08
59.192	Dihyrdochamzulene	0.15
59.354	Unidentified	0.13
59.805	Unidentified	0.14
59.971	7,12-Dehydro-5,6,7,8-tetrahydrochamazulene	0.17
60.143	Unidentified	0.25
60.290	Unidentified	0.05
60.796	alpha-Muurolol (=Torreyol)	0.54
61.526	alpha-Bisabolol oxide B	6.86
61.859	Unidentified	0.44
61.969	Unidentified	0.13
63.009	alpha-Bisabolone oxide A	5.12
63.178	alphha-Bisabolol	1.68
65.645	Chamazulene	2.50
66.823	Bisabolol oxide A	51.33
67.712	Bisabolol oxide A <isomer>	0.09
69.302	Unidentified	0.05
71.342	Phytone	0.33
73.354	cis-Spiroether	4.14
73.982	trans-Spiroether	0.50
76.907	Unidentified	0.09
77.152	Palmitic acid	0.07
84.139	Phytol	0.05
85.625	Oxacycloheptadecenone	0.18
92.529	Tricosane	0.34
96.614	Tetracosane	0.07
100.544	Pentacosane	1.24
108.245	Heptacosane	0.25
		100.00