

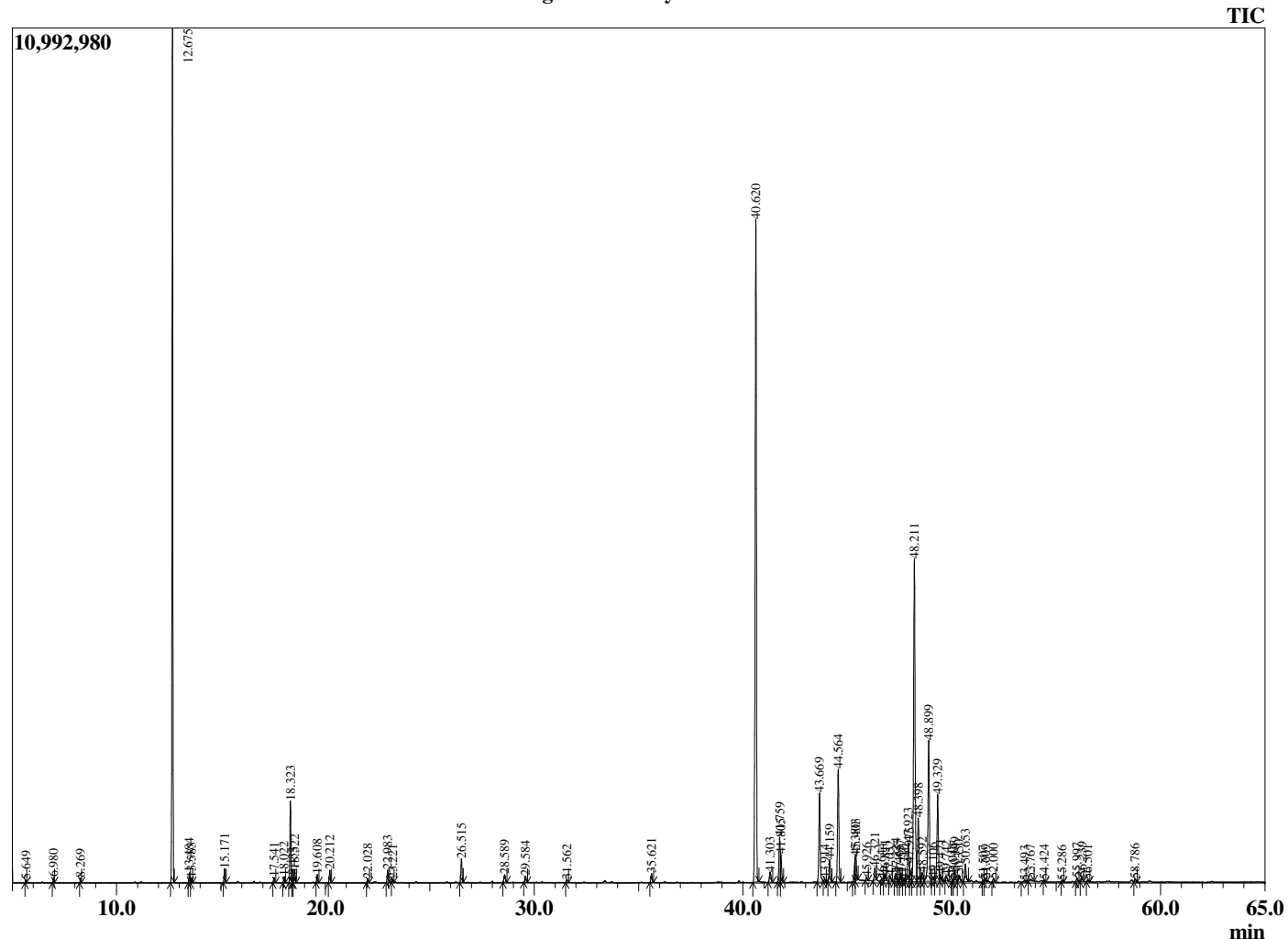
Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 2/1/2019 5:21:11 PM
 Sample Type : Essential Oil
 Sample Name : Helichrysum - Revive EO
 Sample ID : E0C0128A
 Injection Volume : 0.10
 Instrument ID: : GC-4

This report is valid for 1 year from the analyzed date.



Chromatogram Helichrysum - Revive EO



R.Time	Name	Peak Report TIC	Area%
5.649	3-Hexanone		0.05
6.980	2-Methyl-2-heptene		0.10
8.269	4-Methyl-3-hexanone		0.09
12.675	alpha-Pinene		21.46
13.484	alpha-Fenchene		0.26
13.583	Camphene		0.13
15.171	beta-Pinene		0.38
17.541	alpha-Terpinene		0.15
18.022	para-Cymene		0.18
18.323	Limonene		2.35
18.433	beta-Phellandrene		0.01
18.522	1,8-Cineole		0.40
19.608	Isobutyl angelate		0.24
20.212	gamma-Terpinene		0.38
22.028	Terpinolene		0.12
22.983	Linalool		0.38
23.221	2-Methylbutyl-2-methylbutyrate		0.09
26.515	Isoamyl tiglate		0.77
28.589	Terpinen-4-ol		0.31
29.584	alpha-Terpineol		0.22
31.562	Nerol		0.08
35.621	Hexyl angelate		0.31
40.620	Neryl acetate		24.52
41.303	Cyclosativene		0.47
41.759	alpha-Copaene		1.72
41.805	Isotalicene		0.84
43.669	Italicene		3.52
43.914	Italicene isomer		0.10
44.159	cis-alpha-Bergamotene		0.85
44.564	beta-Caryophyllene		4.26
45.380	Italidione		0.65
45.403	trans-alpha-Bergamotene		0.84
45.926	6,9-Guaiadiene		0.12
46.321	Neryl propionate		0.43
46.644	trans-beta-Farnesene		0.08
46.811	alpha-Humulene		0.21
47.052	Unidentified		0.23
47.324	alpha-Acoradiene		0.29
47.465	Unidentified		0.09
47.557	beta-Acoradiene		0.22
47.710	4,5-di-epi-Aristolochene		0.07
47.923	Unidentified		1.68
47.975	Italidione		0.56
48.211	gamma-Curcumene		13.77
48.398	Ar-Curcumene		2.58
48.592	Unidentified		0.47
48.899	beta-Selinene		6.07
49.106	trans-Murrola-4(14),5-diene		0.17
49.329	alpha-Selinene		3.56
49.471	alpha-Murolene		0.26
49.742	delta-Amorphene		0.18
50.046	beta-Bisabolene		0.11
50.149	beta-Curcumene		0.43
50.350	gamma-Cadinene		0.32
50.653	delta-Cadinene		0.75
51.507	trans-Cadine-1,4-diene		0.05
51.609	2-Phenylethyl tiglate		0.10
52.000	Unidentified		0.13
53.493	Italidione		0.09
53.767	Italidione		0.13
54.424	Caryophyllene oxide		0.05
55.286	Guaiol		0.05
55.997	Unidentified		0.15
56.239	Eudesm-5-en-11-ol		0.16
56.501	Unidentified		0.08
58.786	Unidentified		0.11
			100.00

Comments:

The analysis of this Helichrysum batch sample meets the expected chemical profile for authentic essential oil of *Helichrysum italicum*. No contamination or adulteration was detected.