

Sample Information

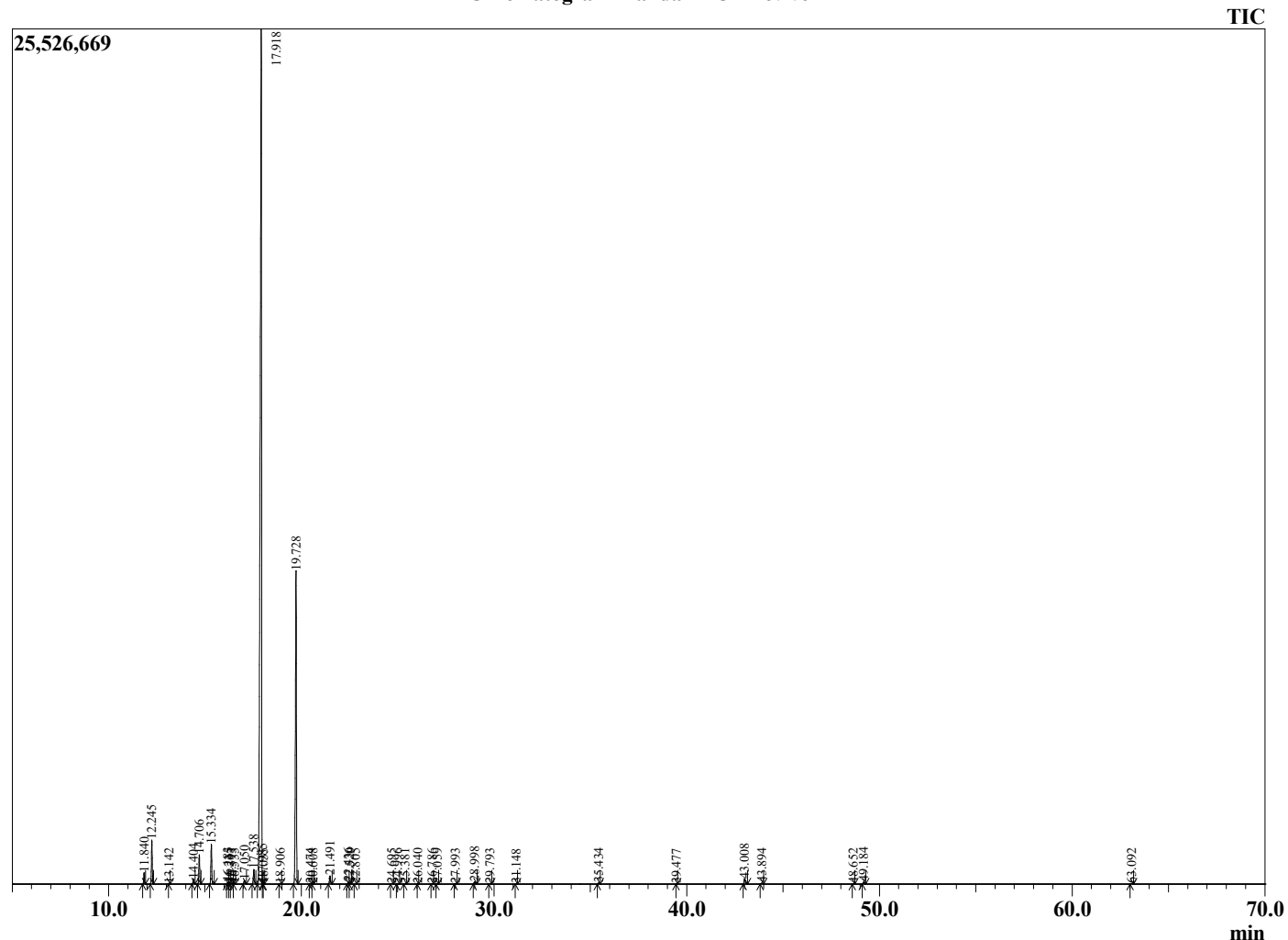
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/9/2023 5:29:51 PM
 Sample Type : Essential Oil
 Sample Name : Mandarin Oil Revive
 Sample ID : 5A
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
11.840	alpha-Thujene	0.54
12.245	alpha-Pinene	2.12
13.142	Camphene	0.01
14.404	Sabinene	0.28
14.706	beta-Pinene	1.52
15.334	Myrcene	2.13
16.183	Octanal	0.10
16.235	Pseudolimonene	0.03
16.393	alpha-Phellandrene	0.06
16.533	delta-3-Carene	0.02
17.050	alpha-Terpinene	0.22
17.538	para-Cymene	0.88
17.918	Limonene	70.02
17.985	beta-Phellandrene	0.12
18.035	1,8-Cineole	0.01
18.906	trans-beta-Ocimene	0.04
19.728	gamma-Terpinene	19.99
20.474	trans-Sabinene hydrate	0.04
20.608	Pinol	0.01
21.491	Terpinolene	0.50
22.436	Linalool	0.13
22.520	cis-Sabinene hydrate	0.07
22.805	Nonanal	0.02
24.695	cis-Limonene oxide	0.04
24.996	trans-Limonene oxide	0.04
25.381	Epoxyterpinolene	0.03
26.040	Citronellal	0.00
26.786	Unidentified	0.02
27.059	Unidentified	0.01
27.993	Terpinen-4-ol	0.03
28.998	alpha-Terpineol	0.16
29.793	Decanal	0.03
31.148	Citronellol	0.01
35.434	Thymol	0.07
39.477	Eugenol	0.01
43.008	Dimethylantranilate	0.38
43.894	beta-Caryophyllene	0.07
48.652	alpha-Selinene	0.03
49.184	trans,trans-alpha-Farnesene	0.13
63.092	alpha-Sinensal	0.06
		100.00

Chromatogram Mandarin Oil Revive



Comments:

The analysis of this Red Mandarin batch sample meets the expected chemical profile for authentic essential oil of *Citrus reticulata blanco*. 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.