

Sample Information

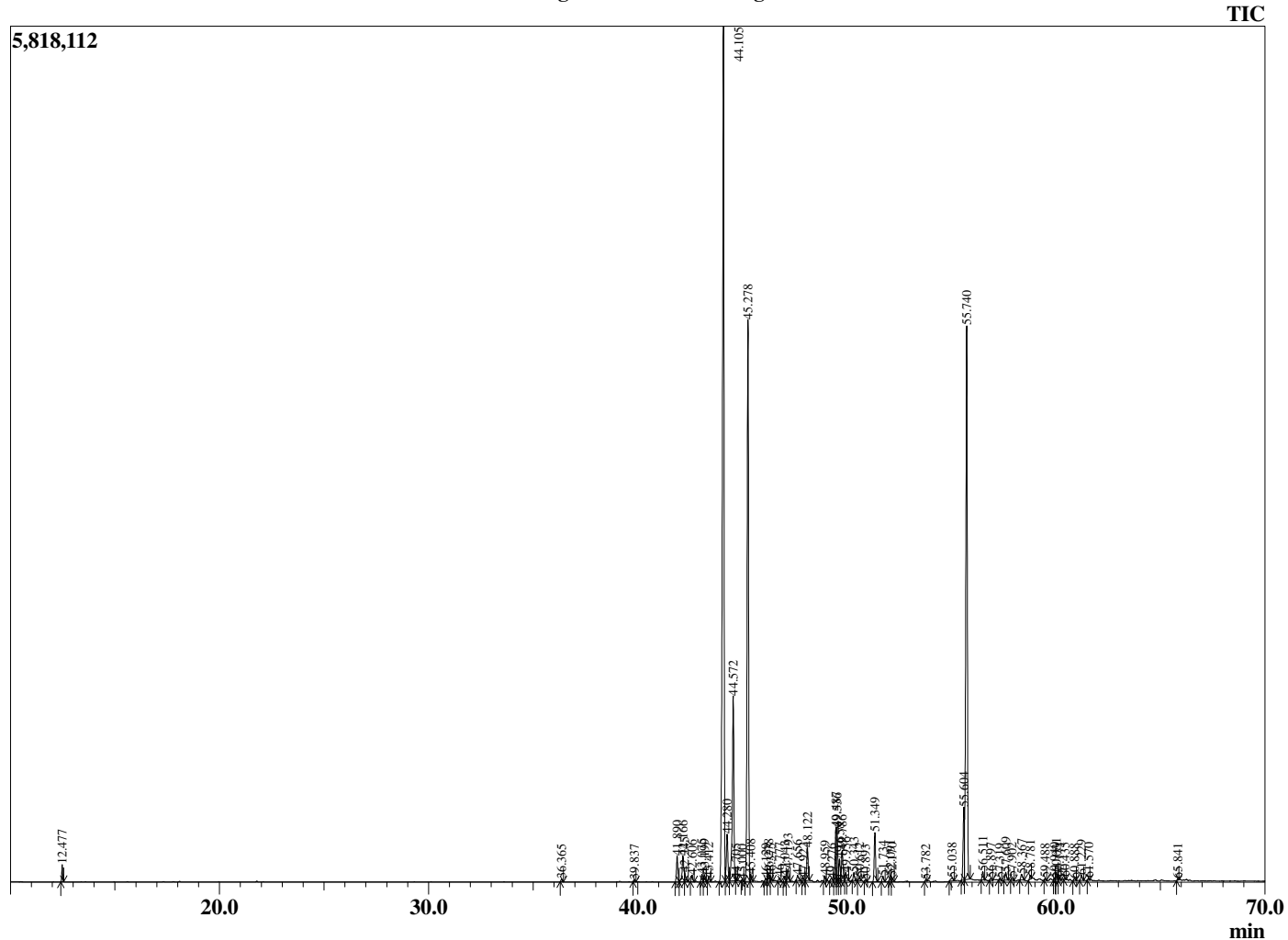
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 9/18/2018 1:38:11 PM  
 Sample Type : Essential Oil  
 Sample Name : Cedarwood Virginian  
 Sample ID : P170426AR  
 Injection Volume : 0.10  
 Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
12.477	alpha-Pinene	0.36
36.365	gamma-Neoclovene	0.07
39.837	Unidentified	0.06
41.890	Isoitalicene	0.83
42.166	alpha-Duprezianene	1.03
42.245	7-epi-Sesquithujene	0.23
42.606	Isolongifolene	0.21
43.075	beta-Longipinene	0.23
43.199	alpha-Funebrene	0.23
43.412	di-epi-alpha-Cedrene	0.12
44.105	alpha-Cedrene	33.39
44.280	beta-Caryophyllene	1.71
44.572	beta-Cedrene	6.88
44.705	Unidentified	0.05
45.000	beta-Copaene	0.04
45.278	cis-Thujopsene	19.01
45.408	Isobazzanene	0.22
46.129	Unidentified	0.10
46.278	Prezizaene	0.26
46.375	trans-beta-Farnesene	0.08
46.777	Unidentified	0.12
47.043	alpha-Acoradiene	0.18
47.193	beta-Acoradiene	0.42
47.656	10-epi-beta-Acoradiene	0.20
47.922	gamma-Curcumene	0.10
48.122	beta-Chamigrene	1.09
48.959	beta-Alaskene	0.18
49.276	beta-Himachalene	0.12
49.487	alpha-Cuprenene	1.57
49.536	Pseudowiddrene	1.52
49.658	alpha-Chamigrene	0.67
49.786	Cuparene	1.08
49.956	alpha-Alaskene	0.32
50.343	Dihydrothujopsene	0.26
50.612	Cuprenene isomer	0.12
50.893	trans-gamma-Bisabolene	0.04
51.349	gamma-Cuprenene	1.59
51.734	Epiglobulol	0.19
52.091	delta-Cuprenene	0.21
52.170	8,14-Cedranoxide	0.12
53.782	Unidentified	0.04
55.038	Funebrol	0.17
55.604	Widdrol	2.25
55.740	Cedrol	20.34
56.511	Epicedrol	0.27
56.897	Unidentified	0.08
57.319	alpha-Acorenol	0.05
57.609	1,7-di-epi-alpha-Cedrenal	0.26
57.902	Unidentified	0.09
58.367	Unidentified	0.23
58.781	Cedr-8-en-15-ol	0.12
59.488	Unidentified	0.05
59.940	Unidentified	0.07
60.031	alpha-Bisabolol	0.23
60.171	Unidentified	0.11
60.435	Unidentified	0.05
60.888	Unidentified	0.07
61.229	cis-Thujopsenal	0.19
61.570	trans-Thujopsenal	0.06
65.841	Unidentified	0.04
		100.00

Chromatogram Cedarwood Virginian



Comments:

The analysis of this Cedarwood, Virginian batch sample meets the expected chemical profile for authentic essential oil of *Juniperus virginiana*. 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.