

Sample Information

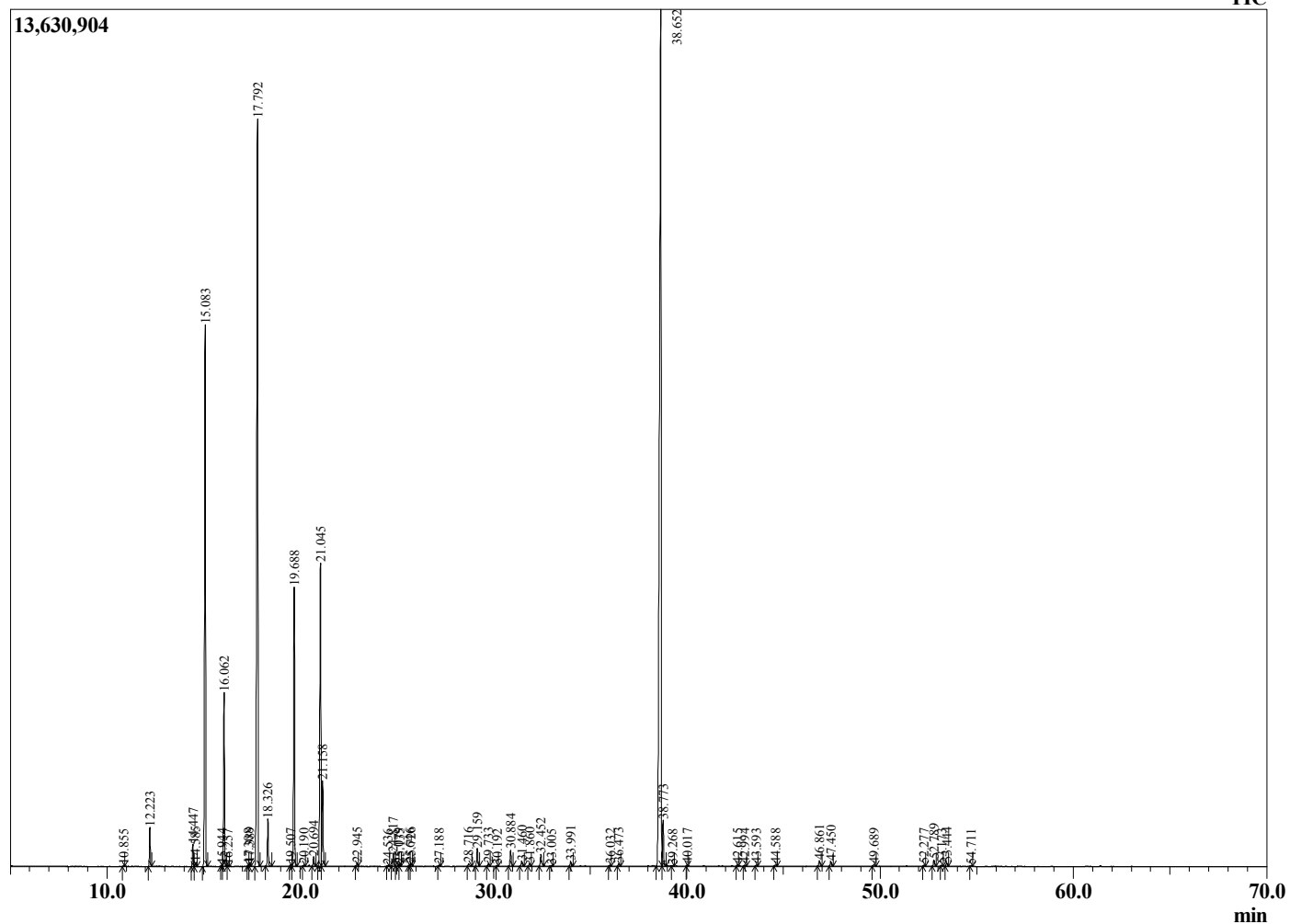
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 7/10/2020 2:09:31 PM  
 Sample Type : Essential Oil  
 Sample Name : Spruce - Davina Wellness  
 Sample ID : D0B1219C  
 Injection Volume : 0.10  
 Instrument ID : GC-2



Peak Report TIC

R.Time	Name	Area%
10.855	(Z)-3-Hexenol	0.02
12.223	Santene	0.81
14.447	Tricyclene	0.50
14.585	alpha-Thujene	0.08
15.083	alpha-Pinene	13.02
15.944	alpha-Fenchene	0.04
16.062	Camphene	3.98
16.257	Verbenene	0.01
17.308	Unidentified	0.03
17.389	Sabinene	0.08
17.792	beta-Pinene	21.41
18.326	Myrcene	1.14
19.507	alpha-Phellandrene	0.05
19.688	3-Carene	7.06
20.190	alpha-Terpinene	0.04
20.694	para-Cymene	0.26
21.045	Limonene	8.35
21.158	beta-Phellandrene	2.09
22.945	gamma-Terpinene	0.07
24.536	Isoterpinolene	0.02
24.817	Terpinolene	0.36
25.079	Fenchone	0.05
25.135	para-Cymenene	0.04
25.646	Unidentified	0.03
25.726	Linalool	0.08
27.188	alpha-Fenchol	0.04
28.716	trans-Pinocarveol	0.09
29.159	Camphor	0.49
29.733	trans-beta-Terpineol	0.06
30.192	Pinocarvone	0.02
30.884	Borneol	0.45
31.460	Terpinen-4-ol	0.16
31.860	para-Cymen-8-ol	0.08
32.452	alpha-Terpineol	0.41
33.005	Unidentified	0.03
33.991	endo-Fenchyl acetate	0.13
36.032	Unidentified	0.03
36.473	Piperitone	0.06
38.652	Bornyl acetate	36.25
38.773	Isobornyl acetate	1.18
39.268	trans-Pinocarvyl acetate	0.02
40.017	Unidentified	0.02
42.615	alpha-Terpinyl acetate	0.03
42.994	alpha-Longipinene	0.03
43.593	Unidentified	0.03
44.588	Unidentified	0.04
46.861	Longifolene	0.17
47.450	trans-beta-Caryophyllene	0.14
49.689	alpha-Humulene	0.07
52.277	alpha-Murololene	0.03
52.789	beta-Bisabolene	0.17
53.173	gamma-Cadinene	0.04
53.444	delta-Cadinene	0.10
54.711	(E)-alpha-Bisabolene	0.02
		100.00

Chromatogram Spruce - Davina Wellness



Comments:

The analysis of this Spruce batch sample meets the expected chemical profile for authentic essential oil of *Tsuga canadensis*. 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.