

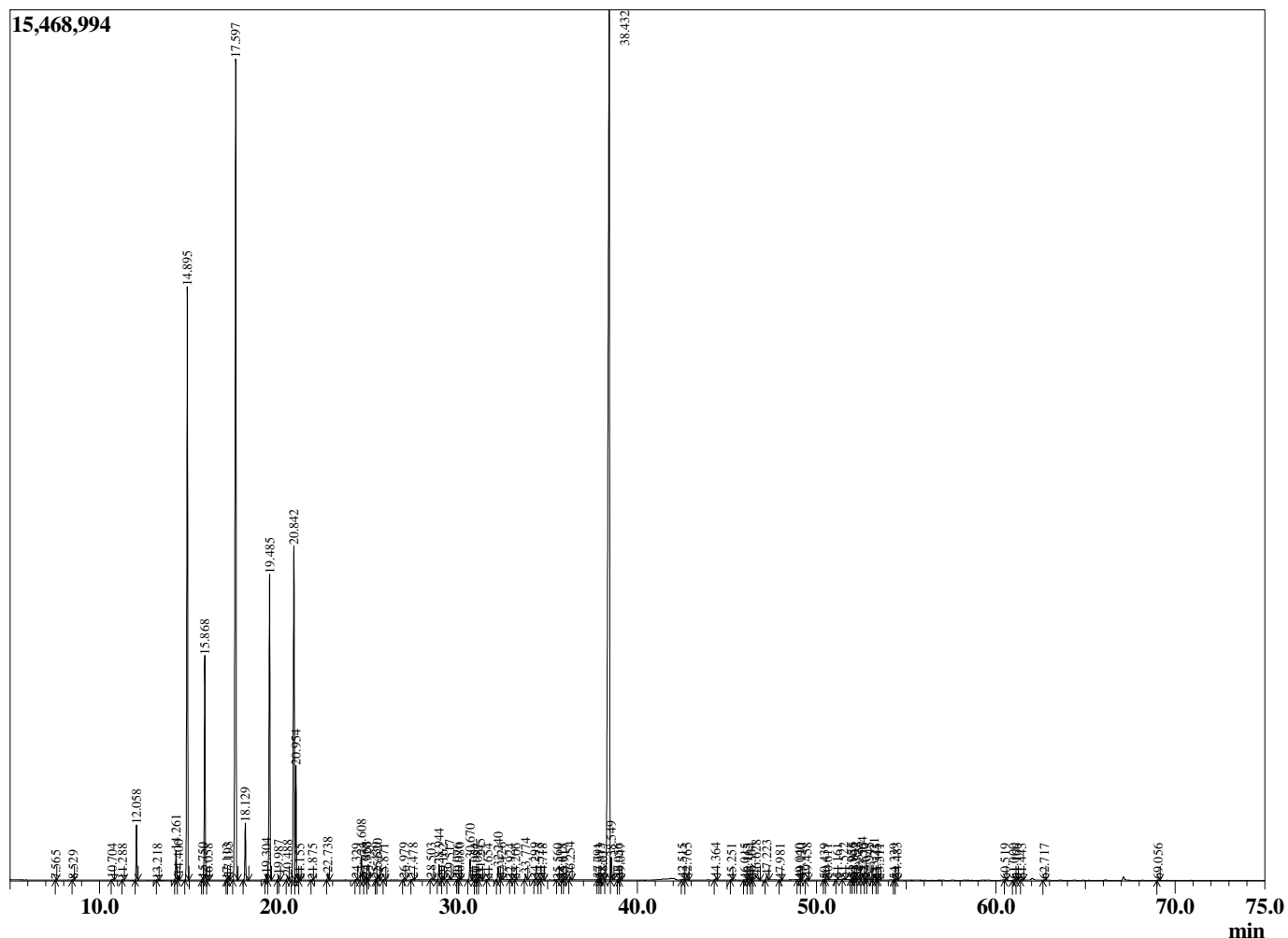
Sample Information

Sample Type : Essential Oil
Sample Name : *Tsuga canadensis*
Injection Volume : 0.10

Spruce Eastern Hemlock
Lot# CAN14-NC
Country: Canada



Chromatogram *Tsuga canadensis*



Peak Report TIC

R.Time	Name	Area%
7.565	Toluene	0.01
8.529	Hexanal	0.01
10.704	Hex-3(Z)-enol	0.02
11.288	n-Hexanol	0.01
12.058	Santene	1.01
13.218	Unidentified	0.01
14.261	Tricyclene	0.59
14.400	alpha-Thujene	0.08
14.895	alpha-Pinene	12.84
15.750	alpha-Fenchene	0.04
15.868	Camphene	4.69
16.058	Thuja-2,4(10)diene	0.02
17.113	Cymene isomer	0.02
17.193	Sabinene	0.07
17.597	beta-Pinene	21.80
18.129	Myrcene	1.21
19.304	alpha-Phellandrene	0.13
19.485	delta-3-Carene	6.98
19.987	alpha-Terpinene	0.11
20.488	para-Cymene	0.10
20.842	Limonene	8.61
20.954	beta-Phellandrene	2.46
21.155	(Z)-beta-Ocimene	0.01
21.875	(E)-beta-Ocimene	0.01
22.738	gamma-Terpinene	0.16
24.329	Isoterpinolene	0.02
24.608	Terpinolene	0.59
24.868	Fenchone	0.07
24.920	Dehydro-p-cymene	0.03
25.430	Unidentified	0.03
25.520	Linalool	0.15
25.871	Nonanal	0.01
26.979	alpha-Fenchol	0.03
27.478	alpha-Campholenal	0.03
28.503	trans-Pinocarveol	0.04
28.944	Camphor	0.38
29.162	Citronellal	0.02
29.517	trans-beta-Terpineol	0.10
29.976	Pinocarvone	0.01
30.080	Isoborneol	0.02
30.670	Borneol	0.52
30.954	Isopinocamphe	0.01
31.087	Unidentified	0.01
31.245	Terpinen-4-ol	0.14
31.654	Cryptone	0.01
32.240	alpha-Terpineol	0.34
32.426	Methyl chavicol	0.02
32.924	Decanal	0.01
33.206	Unidentified	0.01
33.774	endo-Fenchyl acetate	0.15
34.299	Citronellol	0.02
34.525	Thymol Methyl Ether	0.02
34.718	exo-Fenchyl acetate	0.02
35.560	Unidentified	0.01
35.818	Unidentified	0.01
35.917	Unidentified	0.01

R.Time	Name	Area%
36.254	Piperitone	0.07
37.791	Chrysanthenyl acetate	0.02
37.913	Phellandral	0.01
38.077	Unidentified	0.05
38.432	Bornyl acetate	33.88
38.549	Isobornyl acetate	0.52
38.956	Unidentified	0.02
39.047	Unidentified	0.02
42.515	Citronellyl acetate	0.03
42.765	alpha-Longipinene	0.04
44.364	Geranyl acetate	0.04
45.251	beta-Elemene	0.01
46.015	Unidentified	0.02
46.165	Unidentified	0.04
46.364	Unidentified	0.05
46.628	Junipene	0.26
47.223	trans-beta-Caryophyllene	0.12
47.981	trans-alpha-Bergamotene	0.01
49.040	Unidentified	0.01
49.120	(E)-beta-Farnesene	0.01
49.458	alpha-Humulene	0.06
50.439	10-beta-H-Cadina-1(6),4-diene	0.01
50.611	trans-Cadina-1(6),4-diene	0.03
51.161	Unidentified	0.01
51.522	gamma-Curcumene	0.03
51.956	Unidentified	0.01
52.045	alpha-Murolene	0.04
52.192	Unidentified	0.03
52.335	Unidentified	0.08
52.564	beta-Bisabolene	0.20
52.670	Unidentified	0.02
52.945	gamma-Cadinene	0.06
53.221	delta-Cadinene	0.16
53.345	Unidentified	0.01
53.511	Unidentified	0.01
54.339	Unidentified	0.01
54.483	trans-alpha-Bisabolene	0.04
60.519	Unidentified	0.01
61.000	Unidentified	0.02
61.166	alpha-Cadinol	0.02
61.443	Unidentified	0.02
62.717	alpha-Bisabolol	0.02
69.056	Nootkatone	0.02
		100.00