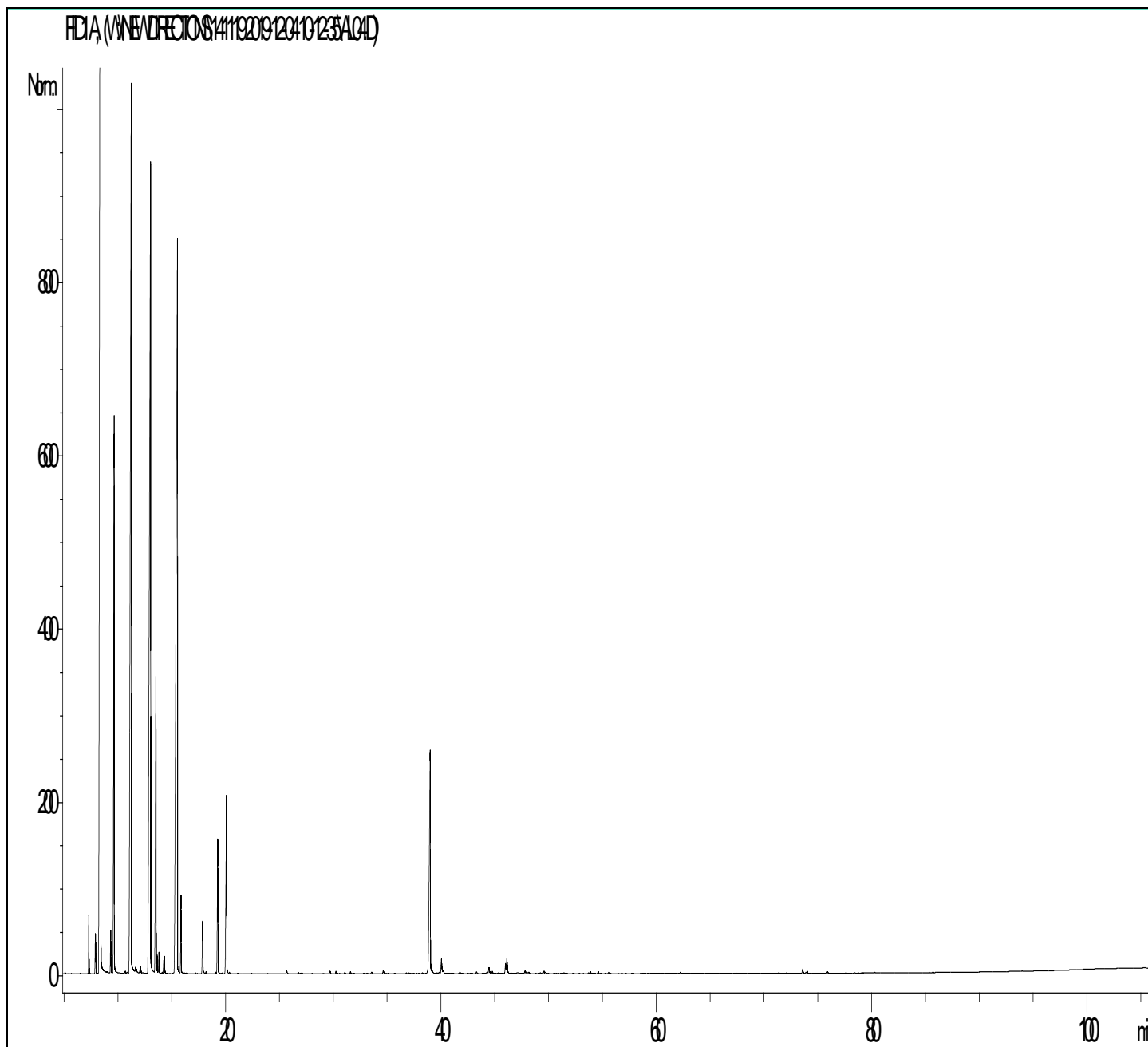


**GCMS ANALYSIS**

PRODUCT NAME: PINE SCOTCH ESSENTIAL OIL - 11120

DATE: March 23, 2020



*Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,*

**GCMS ANALYSIS (cont'd.)**

PRODUCT NAME: PINE SCOTCH ESSENTIAL OIL - 11120

Peak	RT (min)	Compound name	%
1	5,08	ACETONE	0,01
2	7,28	SANTENE	0,39
3	7,90	TRICYCLENE	0,41
4	8,41	<b>alpha-PINENE</b>	<b>30,45</b>
5	8,50	alpha-THUYENE	1,40
6	9,32	alpha-FENCHENE	0,35
7	9,64	<b>CAMPHENE</b>	<b>5,26</b>
8	10,67	COMPOUND Mw=138	0,03
9	10,83	TERPENE ISOMER	0,02
10	11,23	<b>beta-PINENE</b>	<b>14,80</b>
11	11,60	SABINENE	0,03
12	11,70	PINADIENE	0,03
13	12,03	delta2-CARENE	0,02
14	12,10	TERPENE ISOMER	0,06
15	13,02	<b>delta3-CARENE</b>	<b>16,10</b>
16	13,52	<b>beta-MYRCENE</b>	<b>3,13</b>
17	13,63	alpha-PHELLANDRENE	0,13
18	13,80	psi-LIMONENE	0,20
19	14,11	o-CYMENE	0,01
20	14,25	1,4-CINEOLE	0,11
21	14,30	alpha-TERPINENE	0,17
22	15,52	<b>LIMONENE</b>	<b>16,63</b>
23	15,85	1,8-CINEOLE	0,68
24		beta-PHELLANDRENE	
25	16,15	1,3,8-p-MENTHATRIENE	0,01
26	17,86	gamma-TERPINENE	0,53
27	17,97	MENTHATRIENE ISOMER	0,01
28	18,17	trans-beta-OCIMENE	0,02
29	19,07	m-CYMENE	0,02
30	19,26	p-CYMENE	1,39

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**GCMS ANALYSIS** *(cont'd.)*

PRODUCT NAME: PINE SCOTCH ESSENTIAL OIL - 11120

Peak	RT (min)	Compound name	%
31	20,07	TERPINOLENE	2,22
32	20,36	TERPINOLENE ISOMER	0,02
33	25,66	alpha-PINENE OXIDE	0,04
34	26,74	2-DECANONE	0,01
35	27,08	FENCHONE	0,01
36	29,69	alpha-p-DIMETHYLSTYRENE	0,03
37	30,24	LIMONENE cis-1,2-EPOXIDE	0,03
38	31,07	LIMONENE trans-1,2-EPOXIDE	0,02
39	31,59	4,8-TERPINOLENE EPOXIDE	0,02
40	33,54	alpha-COPAENE	0,02
41	34,63	CAMPHOR	0,04
42	38,27	LONGIFOLENE	0,01
43	38,76	NOPINONE	0,02
44	38,99	<b>BORNYL ACETATE</b>	<b>3,84</b>
45	39,08	FENCHOL	0,03
46	39,21	ISOBORNYL ACETATE	0,03
47	39,83	METHYL THYMOL ETHER	0,02
48	40,04	beta-CARYOPHYLLENE	0,21
49	40,22	TERPINENE-4-OL	0,05
50	41,75	cis-p-2,8-MENTHADIEN-1-OL	0,02
51	43,29	trans-PINOCARVEOL	0,02
52	44,22	CRYPTONE	0,01
53	44,31	ESTRAGOL	0,01
54	44,45	alpha-HUMULENE	0,10
55	44,76	trans-VERBENOL	0,03
56	45,99	alpha-TERPINEOL	0,12
57	46,12	BORNEOL	0,23
58	46,49	VERBENONE	0,01
59	47,05	DODECANAL	0,01
60	47,80	alpha-MUUROLENE	0,04

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### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: PINE SCOTCH ESSENTIAL OIL - 11120

Peak	RT (min)	Compound name	%
61	47,95	CARVONE	0,03
62	48,15	Z,E-alpha-FARNESENE	0,02
63	49,22	trans-ISOPIPERITENOL	0,01
64	49,56	GERANYL ACETATE	0,03
65	49,68	E,E-alpha-FARNESENE	0,02
66	51,41	MYRTENOL	0,01
67	53,71	COMPOUND Mw=152	0,01
68	53,88	trans-CARVEOL	0,02
69	54,60	p-CYMENE-8-OL	0,02
70	55,57	cis-CARVEOL	0,01
71	62,24	CARYOPHYLLENE EPOXIDE	0,02
72	73,60	DITERPENE Mw=272	0,06
73	73,88	Epi-alpha-BISABOLOL	0,01
74	74,01	alpha-BISABOLOL	0,03
75	75,89	DITERPENE Mw=272	0,02
		<b>TOTAL</b>	<b>99,98</b>

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