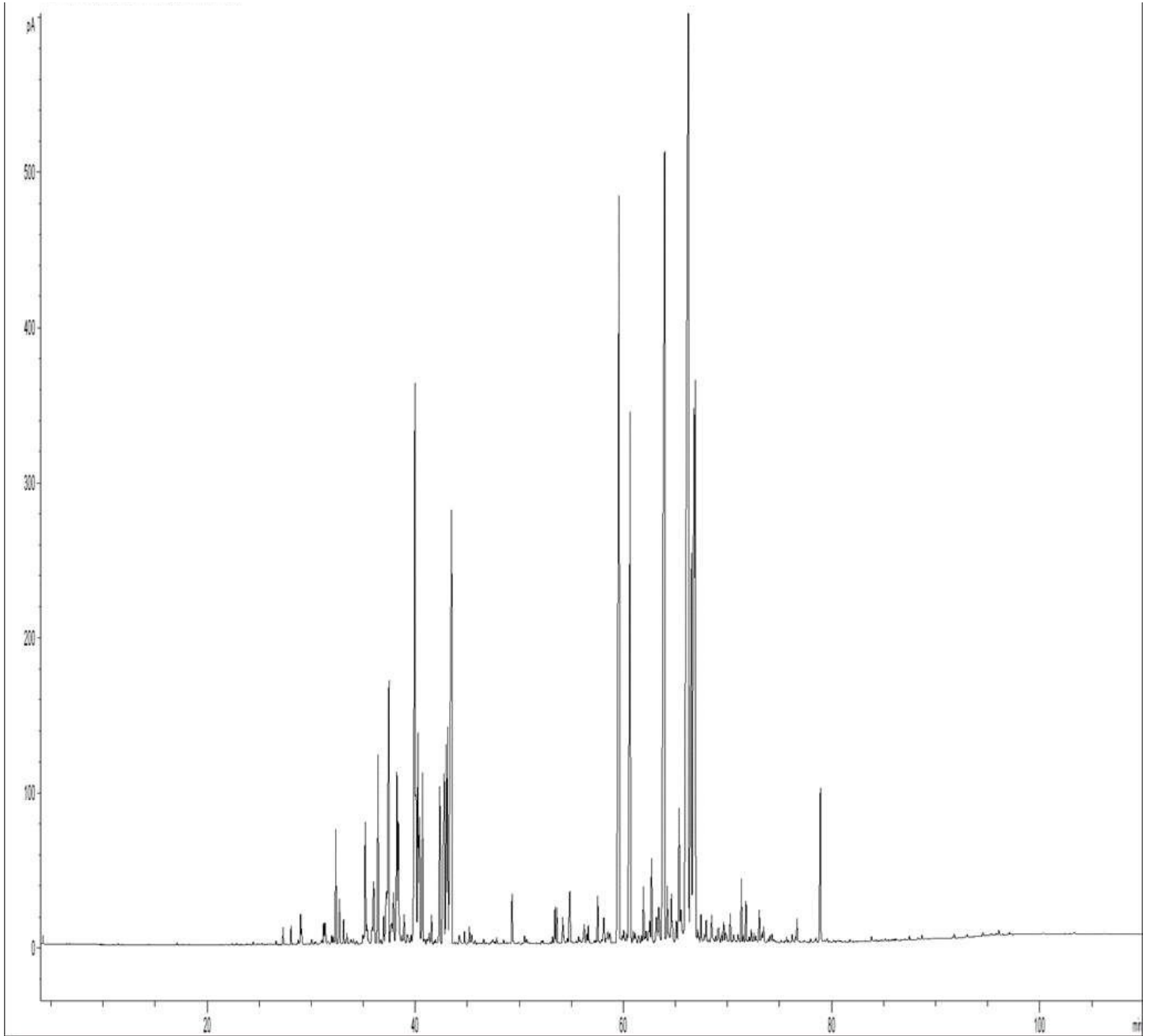




## GCMS ANALYSIS

**PRODUCT NAME: AMYRIS ESSENTIAL OIL -11311**  
**DATE: February 23, 2021**



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: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
1	17,11	GEIJERENE	0,01
2	24,43	FURFURAL	0,02
3	25,27	delta-ELEMENE	0,01
4	26,62	SESQUITERPENE	0,02
5	27,30	1,3,7,7-TETRAMETHYL-BICYCLO-3-DECENE	0,10
6	28,07	ALIPHATIC ESTER	0,10
7	28,75	AROMATIC COMPOUND	0,04
8	28,98	SESQUITERPENE	0,18
9	29,08	SESQUITERPENE	0,09
10	29,66	SESQUITERPENE	0,01
11	30,05	SESQUITERPENE	0,04
12	30,42	BERGAMOTENE ISOMERE	0,02
13	31,02	alpha-CEDRENE	0,05
14	31,21	MODHEPHENE	0,13
15	31,33	alpha-SANTALENE	0,19
16	31,66	SESQUITERPENE	0,03
17	31,98	SESQUITERPENE	0,07
18	32,13	alpha-trans-BERGAMOTENE	0,05
19	32,38	beta-ELEMENE	0,68
20	32,72	beta-CARYOPHYLLENE	0,38
21	33,12	GURJUNENE ISOMER	0,15
22	33,43	SESQUITERPENE	0,10
23	34,98	epi-beta-SANTALENE	0,09
24	35,20	GERMACRENE A	0,50
25	35,25	ARISTOLENE ISOMER	0,40
26	35,37	beta-SANTALENE	0,13
27	35,84	SESQUITERPENE	0,12
28	36,00	CURCUMENE ISOMER	0,59
29	36,44	alpha-ACORADIENE	1,28
30	36,96	alpha-HUMULENE	0,20

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
31	37,25	SESQUITERPENE	0,57
32	37,46	gamma-SELINENE ISOMER	2,16
33	37,65	E-beta-FARNESENE	0,13
34	37,72	SESQUITERPENE	0,23
35	37,92	beta-ACORADIENE	0,36
36	38,23	gamma-SELINENE	1,21
37	38,30	CALARENE	0,65
38	38,36	gamma-CURCUMENE	0,50
39	38,71	SESQUITERPENE	0,06
40	38,92	SESQUITERPENE	0,26
41	39,24	SESQUITERPENE	0,15
42	39,60	CADINENE ISOMER	0,08
43	39,98	beta-DIHYDRO-AGAROFURAN	2,16
44	40,02	<b>VALENCENE</b>	<b>3,24</b>
45	40,06	alpha-DIHYDRO-AGAROFURAN	1,04
46	40,27	alpha-SELINENE	1,28
47	40,41	alpha-ZINGIBERENE	1,16
48	40,72	beta-BISABOLENE	1,22
49	40,93	SESQUITERPENE	0,06
50	41,12	SESQUITERPENE	0,03
51	41,34	AROMATIC COMPOUND	0,10
52	41,56	beta-CURCUMENE	0,21
53	42,36	7-epi-alpha-SELINENE	1,16
54	42,71	alpha-DIHYDRO-AGAROFURAN ISOMER	0,73
55	42,78	delta-SELINENE	1,30
56	42,99	beta-SESQUIPELLANDRENE	1,23
57	43,12	alpha-CURCUMENE	1,18
58	43,50	<b>alpha-PANASINSEN</b>	<b>5,23</b>
59	44,22	SESQUITERPENE	0,09
60	44,73	AROMATIC COMPOUND	0,09

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
61	45,20	CADINA-1,4-DIENE	0,11
62	45,43	SESQUITERPENOL	0,10
63	45,75	SESQUITERPENOL	0,03
64	46,56	AROMATIC COMPOUND	0,03
65	47,82	AROMATIC COMPOUND	0,04
66	48,48	AROMATIC COMPOUND	0,03
67	49,31	alpha-AGAROFURAN	0,33
68	50,50	SESQUITERPENOL	0,06
69	50,69	SESQUITERPENIC EPOXIDE	0,04
70	53,19	EUDESMATRIENE ISOMER	0,05
71	53,42	MONOCYCLONEROLIDOL	0,22
72	53,59	MONOCYCLONEROLIDOL ISOMER	0,21
73	53,82	CARYOPHYLLENE EPOXIDE	0,03
74	54,17	PHENOLIC COMPOUND	0,18
75	54,28	AROMATIC COMPOUND	0,06
76	54,61	SESQUITERPENOL	0,05
77	54,87	alpha-ACORENOL	0,52
78	55,72	alpha-PHOTOSANTALOL A	0,08
79	56,23	SESQUITERPENOL	0,17
80	56,49	SESQUITERPENOL	0,06
81	56,64	SESQUITERPENOL	0,12
82	57,52	NEROLIDOL	0,33
83	58,12	SESQUITERPENOL	0,24
84	58,52	SESQUITERPENOL	0,13
85	58,70	SESQUITERPENOL	0,10
86	59,59	<b>ELEMOL</b>	<b>7,16</b>
87	59,89	AROMATIC COMPOUND	0,06
88	60,03	GUAIOL	0,13
89	60,30	SESQUITERPENOL	0,07
90	60,66	<b>10-epi-gamma-EUDESMOL</b>	<b>4,86</b>

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
91	60,70	ROSIFOLIOL	0,23
92	60,94	SPATHULENOL	0,08
93	61,10	CEDROL	0,09
94	61,45	beta-SESQUIPELLANDROL	0,09
95	61,75	EUDESMOL ISOMER	0,05
96	61,94	SESQUITERPENOL	0,38
97	62,19	EUDESMOL ISOMER	0,10
98	62,53	SESQUITERPENOL	0,24
99	62,72	SESQUITERPENOL	0,58
100	63,17	EUDESMOL ISOMER	0,27
101	63,41	SESQUITERPENOL	0,37
102	63,96	<b>gamma-EUDESMOL</b>	<b>9,63</b>
103	64,22	AGAROSPIROL	0,39
104	64,34	SESQUITERPENOL	0,09
105	64,62	SESQUITERPENOL	0,39
106	64,71	HINESOL	0,15
107	65,09	AGAROSPIROL ISOMER	0,20
108	65,35	SESQUITERPENOL	1,19
109	65,54	SESQUITERPENOL	0,38
110	66,27	<b>VALERIANOL</b>	<b>17,48</b>
111	66,37	4-HYDROXY-DIHYDRO-alpha-AGAROFURAN	0,41
112	66,53	<b>alpha-EUDESMOL</b>	<b>3,29</b>
113	66,80	<b>7-epi-alpha-EUDESMOL</b>	<b>6,25</b>
114	66,93	<b>beta-EUDESMOL</b>	<b>3,57</b>
115	67,15	SESQUITERPENOL	0,10
116	67,45	AROMATIC COMPOUND	0,19
117	67,75	EUDESMOL ISOMER	0,08
118	67,93	SESQUITERPENOL	0,17
119	68,46	SESQUITERPENONE Mw=218	0,28
120	68,88	COMPOUND Mw=224	0,06

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
121	69,15	COMPOUND Mw=238	0,18
122	69,39	SESQUITERPENOL	0,08
123	69,62	AROMATIC COMPOUND	0,15
124	69,81	SESQUITERPENIC EPOXIDE	0,10
125	70,25	SESQUITERPENOL	0,22
126	70,59	SESQUITERPENOL	0,08
127	70,99	SESQUITERPENOL	0,06
128	71,32	SESQUITERPENOL	0,40
129	71,52	SESQUITERPENIC EPOXIDE	0,06
130	71,76	SESQUITERPENIC EPOXIDE	0,27
131	72,25	COMPOUND Mw=238	0,09
132	72,52	FARNESOL	0,07
133	72,70	ZINGIBERENOL	0,06
134	73,04	SESQUITERPENIC EPOXIDE	0,24
135	73,44	AROMATIC COMPOUND	0,13
136	74,07	SESQUITERPENOL	0,05
137	74,26	SESQUITERPENIC EPOXIDE	0,07
138	76,21	SESQUITERPENIC EPOXIDE	0,06
139	76,67	SESQUITERPENOL	0,16
140	78,51	AROMATIC COMPOUND	0,05
141	78,91	<b>DRIMENOL</b>	<b>1,05</b>
142	79,58	NOOTKATONE	0,04
143	81,76	SESQUITERPENOL	0,02
144	83,83	AROMATIC COMPOUND	0,03
145	87,45	PHENOLIC COMPOUND	0,03
146	88,66	ZINGERONE	0,03
147	91,77	PHENOLIC COMPOUND	0,02
148	93,00	COMPOUND Mw=220	0,02
149	94,55	COMPOUND Mw=238	0,03
150	96,07	SESQUITERPENONE Mw=218	0,03

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## GCMS ANALYSIS (cont'd.)

PRODUCT NAME: AMYRIS ESSENTIAL OIL - 11311

Peak	RT (min)	Compound name	%
151	97,07	AROMATIC COMPOUND	0,02
152	103,32	AROMATIC COMPOUND	0,02
		<b>TOTAL</b>	<b>99,95</b>

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