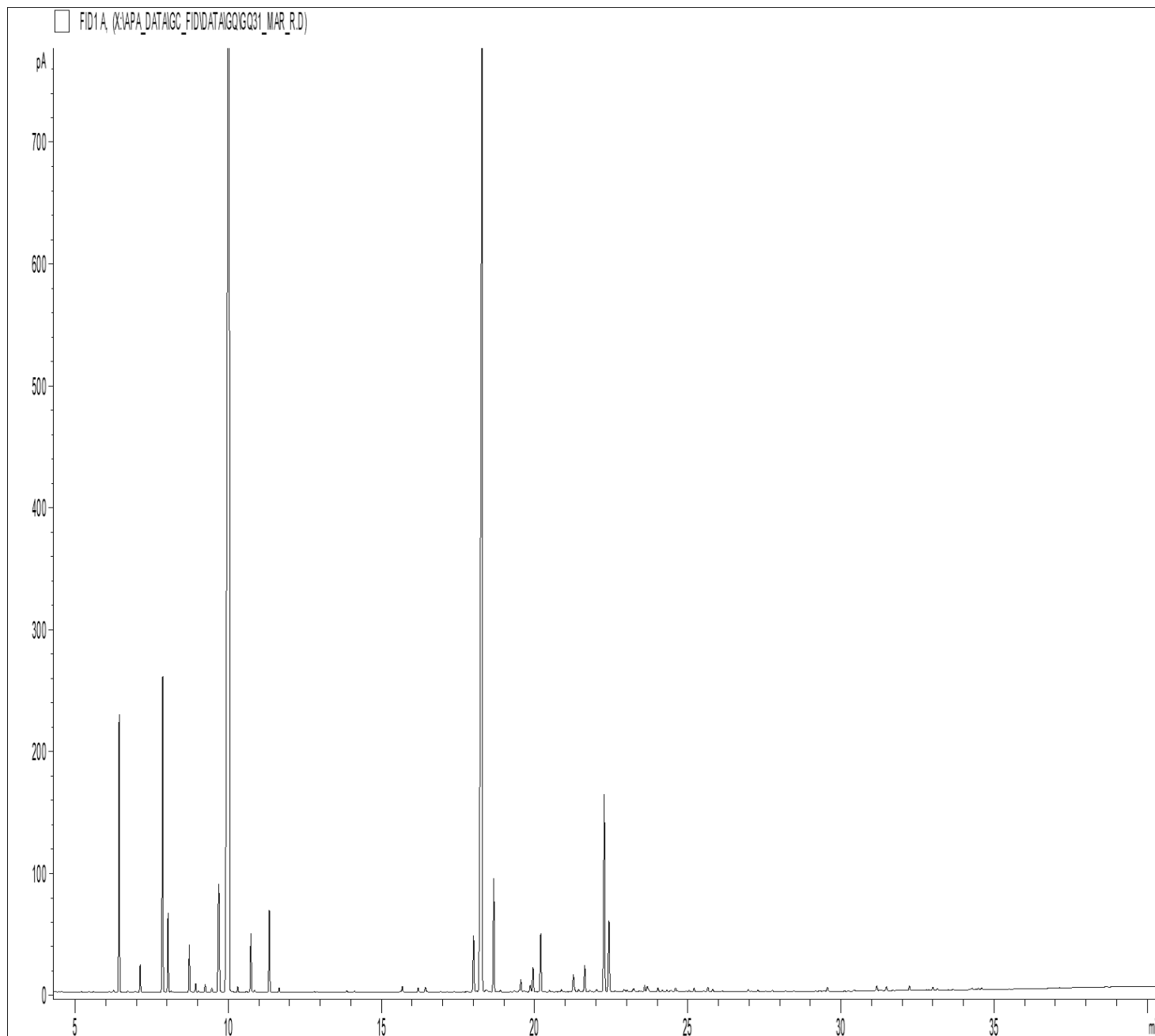


GCMS ANALYSIS

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL – 50052

DATE: March 8, 2022



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: MARJORAM ORGANIC ESSENTIAL OIL – 50052

Peak	RT (min)	Compound name	%
1	4,57	ACETONE	0,01
2	6,12	METHYL 2-METHYLBUTYRATE	0,02
3	6,26	TRICYCLENE	0,03
4	6,44	alpha-PINENE	3,63
5	6,72	ETHYL 2-METHYLBUTYRATE	0,02
6	6,95	ETHYL ISOVALERATE	0,02
7	7,13	CAMPHENE	0,37
8	7,86	beta-PINENE	4,56
9	8,04	SABINENE	1,07
10	8,13	PINADIENE	0,02
11	8,73	beta-MYRCENE	0,68
12	8,93	alpha-PHELLANDRENE	0,13
13	9,03	psi-LIMONENE	0,02
14	9,24	alpha-TERPINENE	0,13
15	9,46	1,8-CINEOLE, 2,3-DEHYDRO-	0,07
16	9,69	LIMONENE	2,44
17	10,02	1,8-CINEOLE	45,37
18	10,14	MENTHATRIENE ISOMER	0,02
19	10,30	cis-beta-OCIMENE	0,08
20	10,59	trans-ARBUSCULON	0,02
21	10,73	gamma-TERPINENE	0,36
22	10,75	trans-beta-OCIMENE	0,51
23	10,86	3-OCTANONE	0,03
24	11,34	p-CYMENE	1,20
25	11,65	TERPINOLENE	0,06
26	13,87	1-OCTEN-3-YL ACETATE	0,02
27	14,11	3-OCTANOL	0,02
28	15,68	LINALOOL cis-OXIDE	0,11
29	16,19	trans-THUYANOL	0,07
30	16,44	LINALOOL trans-OXIDE	0,10

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL – 50052

Peak	RT (min)	Compound name	%
31	17,81	alpha-COPAENE	0,02
32	18,01	CAMPHOR	1,02
33	18,10	beta-BOURBONENE	0,02
34	18,28	LINALOOL	25,73
35	18,40	alpha-GURJUNENE	0,04
36	18,44	cis-THUYANOL	0,03
37	18,67	LINALYL ACETATE	1,81
38	18,79	PINOCARVONE	0,01
39	18,88	trans-p-MENTH-2-EN-1-OL	0,03
40	19,34	BORNYL FORMIATE	0,04
41	19,49	NOPINONE	0,03
42	19,55	BORNYL ACETATE	0,22
43	19,65	beta-ELEMENE	0,03
44	19,86	SESQUITERPENE	0,13
45	19,95	TERPINENE-4-OL	0,43
46	20,20	beta-CARYOPHYLLENE	1,05
47	20,33	AROMADENDRENE	0,01
48	20,48	cis-p-MENTH-2-EN-1-OL	0,04
49	20,88	MYRTENAL	0,04
50	20,96	SABINAKETONE	0,01
51	21,26	delta-TERPENYL ACETATE	0,39
52	21,44	SESQUITERPENE	0,06
53	21,63	delta-TERPINEOL	0,47
54	21,80	alpha-HUMULENE	0,05
55	22,02	NERAL	0,06
56	22,12	gamma-MUUROLENE	0,01
57	22,27	alpha-TERPINEOL	3,56
58	22,42	TERPENYL ACETATE	1,41
59	22,63	VERBENONE	0,03
60	22,91	GERMACRENE D	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL – 50052

Peak	RT (min)	Compound name	%
61	22,94	MENTHADIENOL ISOMER	0,03
62	23,01	TERPENIC ESTER	0,04
63	23,12	SESQUITERPENE	0,02
64	23,23	alpha-MUUROLENE	0,06
65	23,25	PYRANIC LINALOOL cis-OXIDE	0,04
66	23,41	CARVONE	0,03
67	23,47	SESQUITERPENE	0,02
68	23,59	BICYCLOGERMACRENE	0,12
69	23,68	GERANYL ACETATE	0,15
70	23,83	CITRONELLOL	0,01
71	24,03	delta-CADINENE	0,07
72	24,18	gamma-CADINENE	0,04
73	24,32	trans-p-MENTHA-1,2-DIEN-8-OL	0,03
74	24,46	ETHYL BENZENEACETATE	0,05
75	24,60	MYRTENOL	0,05
76	24,62	NEROL	0,04
77	24,67	MENTHADIENOL ISOMER	0,01
78	24,72	alpha-AMORPHENE	0,01
79	24,95	2-PHENYLETHYL ACETATE	0,02
80	25,04	NERYL BUTYRATE	0,03
81	25,21	GERANYL PROPIONATE	0,07
82	25,52	trans-CARVEOL	0,02
83	25,66	GERANIOL	0,09
84	25,82	p-CYMENE-8-OL	0,05
85	26,13	EXO-2-HYDROXYCINEOLE	0,02
86	26,78	ALIPHATIC ESTER	0,01
87	26,98	NERYL METHYLBUTYRATE	0,04
88	27,08	ALIPHATIC ESTER	0,01
89	27,29	PHENYLETHYL ALCOHOL	0,03
90	27,76	3,7-OCTADIENE-2,6-DIOL, 2,6-DIMETHYL-	0,02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: MARJORAM ORGANIC ESSENTIAL OIL – 50052

Peak	RT (min)	Compound name	%
91	28,19	HEXENYLIC ESTER	0,01
92	28,46	ALKENE COMPOUND	0,01
93	29,44	ISOCARYOPHYLLENE OXIDE	0,02
94	29,56	CARYOPHYLLENE OXIDE	0,08
95	30,42	LEDOL	0,03
96	31,17	ELEMOL	0,10
97	31,29	SESQUITERPENOL	0,02
98	31,49	VIRIDIFLOROL	0,09
99	32,23	SPATHULENOL	0,09
100	32,80	EUGENOL	0,01
101	32,87	SORBIC ACID	0,01
102	33,00	THYMOL	0,07
103	33,15	gamma-EUDESOL	0,04
104	33,65	CARVACROL	0,01
105	34,24	alpha-NOOTKATOL	0,02
106	34,28	alpha-EUDESOL	0,03
107	34,40	alpha-CADINOL	0,02
108	34,49	beta-EUDESOL	0,04
109	34,59	MAALIOL ISOMER	0,05
110	37,14	AROMATIC COMPOUND	0,01
		TOTAL	99,99

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