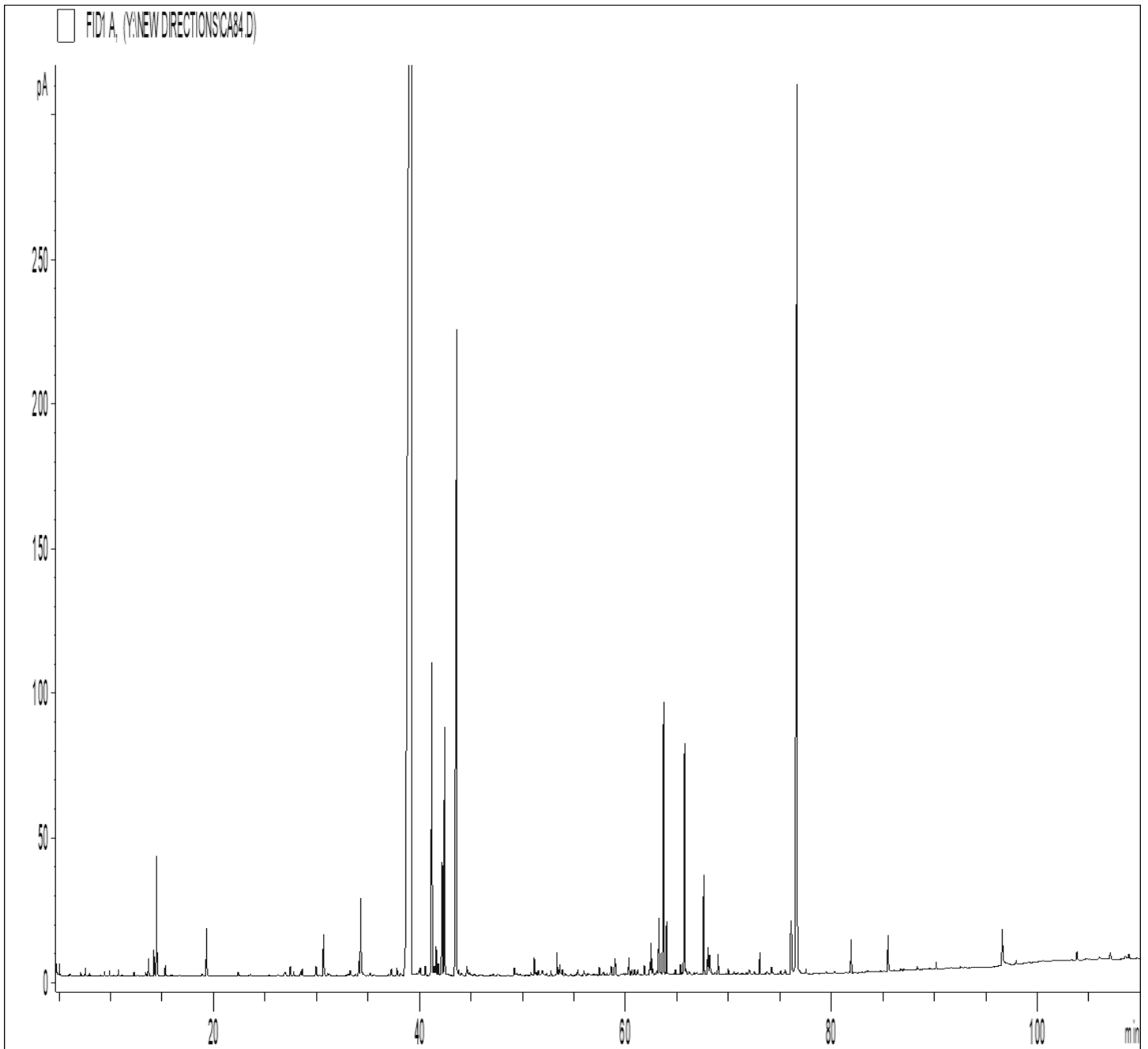


GCMS ANALYSIS

PRODUCT NAME: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054  
DATE: February 17, 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: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054

Peak	RT (min)	Compound	%
1	5,04	ACETONE	0,06
2	6,06	METHYL VINYL KETONE	0,02
3	7,11	alpha-PINENE	0,02
4	7,55	ETHYL 2-METHYLBUTYRATE	0,04
5	7,99	CAMPHENE	0,02
6	9,41	SABINENE	0,03
7	9,88	2-METHYLPROPYL BUTYRATE	0,04
8	10,76	beta-MYRCENE	0,05
9	12,26	LIMONENE	0,04
10	13,39	FURAN, 2-PENTYL-	0,03
11	13,53	BUTYL METHACRYLATE	0,02
12	13,68	cis-beta-OCIMENE	0,13
13	14,20	gamma-TERPINENE	0,21
14	14,46	trans-beta-OCIMENE	0,83
15	15,30	p-CYMENE	0,10
16	16,67	OCTANAL	0,02
17	18,90	5-HEPTEN-2-ONE, 6-METHYL-	0,02
18	19,31	ARTEMISIA KETONE	0,36
19	22,36	COMPOUND Mw=150	0,04
20	26,33	alpha-CUBEBENE	0,02
21	26,89	alpha-LONGIPINENE	0,03
22	26,95	SILPHINENE	0,07
23	27,45	delta-ELEMENE	0,10
24	27,75	cis-3-HEXENYL VALERATE	0,02
25	27,78	alpha-COPAENE	0,02
26	28,45	ALIPHATIC ESTER	0,05
27	28,63	ARTEMISIA ALCOHOL	0,08
28	29,94	MODHEPHENE	0,13
29	30,31	alpha-GURJUNENE	0,02
30	30,67	alpha-ISOCOMENE	0,46

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054

Peak	RT (min)	Compound	%
31	31,10	beta1-CUBEBENE	0,03
32	31,22	COMPOUND Mw=138	0,02
33	31,31	LINALOOL	0,02
34	31,98	1-OCTANOL	0,02
35	33,07	epsilon-CADINENE	0,04
36	33,26	beta-ISOCOMENE	0,07
37	33,34	BORNYL ACETATE	0,02
38	33,79	alpha-trans-BERGAMOTENE	0,02
39	34,10	beta-ELEMENE	0,14
40	34,29	beta-CARYOPHYLLENE	0,76
41	34,39	COMPOUND Mw=152	0,05
42	34,58	TERPINENE-4-OL	0,02
43	34,61	SESQUITERPENE	0,03
44	34,98	SESQUITERPENE	0,02
45	35,20	AROMADENDRENE	0,05
46	35,52	COMPOUND Mw=152	0,02
47	35,64	THUYOPSENE	0,02
48	36,98	KETONIC COMPOUND Mw=150	0,03
49	37,27	ALLO-AROMADENDRENE	0,10
50	37,80	NONA-3,8-DIEN-2-ONE, 4,8-DIMETHYL-	0,10
51	38,16	FARNESENE ISOMER	0,05
52	38,60	alpha-HUMULENE	0,18
53	39,19	<b>E-beta-FARNESENE</b>	<b>52,91</b>
54	39,97	gamma-MUUROLENE	0,06
55	40,08	gamma-CURCUMENE	0,07
56	40,55	LEDENE	0,09
57	41,20	<b>GERMACRENE D</b>	<b>3,07</b>
58	41,43	SESQUITERPENE	0,10
59	41,61	beta-SELINENE	0,17
60	41,65	TERPENIC OXIDE	0,09

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054

Peak	RT (min)	Compound	%
61	41,82	alpha-ZINGIBERENE	0,11
62	41,90	alpha-MUUROLENE	0,06
63	42,21	BICYCLOGERMACRENE	1,00
64	42,44	cis-alpha-BISABOLENE	2,27
65	42,69	beta-CURCUMENE	0,02
66	43,62	<b>E,E-alpha-FARNESENE</b>	<b>8,99</b>
67	43,78	METHYL SALICYLATE	0,06
68	44,05	SESQUITERPENE Mw=202	0,02
69	44,60	beta-SESQUIPELLANDRENE	0,09
70	44,75	alpha-CURCUMENE	0,02
71	44,77	trans-alpha-BISABOLENE	0,02
72	44,88	CADINA-1,4-DIENE	0,03
73	47,18	2-TRIDECANONE	0,01
74	47,61	COMPOUND Mw=152	0,02
75	49,21	COMPOUND Mw=152	0,08
76	49,36	GERANIOL	0,02
77	49,48	PHENYLMETHYL ISOVALERATE	0,03
78	49,79	COMPOUND Mw=194	0,02
79	50,82	PHENYLMETHYL VALERATE	0,03
80	51,14	SESQUIROSEFURAN	0,14
81	51,53	SESQUITERPENIC EPOXIDE	0,05
82	51,94	DIHYDROCHAMAZULENE	0,09
83	52,02	DIHYDROCHAMAZULENE ISOMER	0,02
84	52,34	SESQUITERPENIC EPOXIDE	0,02
85	52,77	GERANYL BUTYRATE	0,04
86	53,35	DENDROSALIN	0,19
87	53,55	beta-IONONE	0,01
88	53,62	ALIPHATIC ESTER	0,10
89	53,73	SESQUITERPENIC EPOXIDE	0,02
90	53,87	SESQUITERPENIC EPOXIDE	0,06

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054

Peak	RT (min)	Compound	%
91	54,13	PHYTYL COMPOUND	0,03
92	54,65	AROMATIC COMPOUND	0,02
93	55,19	CITRONELLIC ESTER	0,02
94	55,37	AROMATIC COMPOUND	0,06
95	55,97	CARYOPHYLLENE EPOXIDE	0,05
96	56,36	COMPOUND Mw=162	0,02
97	56,45	SESQUITERPENIC EPOXIDE	0,01
98	56,55	DEHYDRO-beta-IONONE	0,02
99	56,82	CHRYSANTHEMOL ISOMER	0,01
100	56,97	SESQUITERPENIC EPOXIDE	0,02
101	57,18	SESQUITERPENOL	0,02
102	57,46	PENTADECANAL	0,09
103	57,76	SESQUITERPENIC EPOXIDE	0,02
104	57,83	COMPOUND Mw=192	0,03
105	58,20	LEDOL	0,02
106	58,62	NEROLIDOL	0,10
107	59,00	PRECOCENE I	0,21
108	60,02	AROMATIC COMPOUND Mw=200	0,02
109	60,33	AROMATIC COMPOUND Mw=218	0,16
110	60,62	GLOBULOL	0,06
111	60,87	VIRIDIFLOROL	0,05
112	61,19	COMPOUND Mw=186	0,06
113	61,83	SESQUITERPENOL	0,09
114	62,37	SESQUITERPENIC EPOXIDE	0,10
115	62,49	SESQUITERPENIC EPOXIDE	0,25
116	62,66	SESQUITERPENOL	0,05
117	63,25	SPATHULENOL	0,54
118	63,32	BISABOLOL C OXIDE	0,06
119	63,70	<b>alpha-BISABOLOL OXIDE B</b>	<b>2,56</b>
120	63,99	PENTADECANONE, TRIMETHYL-	0,45

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054

Peak	RT (min)	Compound	%
121	64,85	alpha-BISABOLOL OXIDE B	0,05
122	65,34	PENTADECANONE, TRIMETHYL-	0,09
123	65,54	BISABOLOL OXIDE ISOMER	0,03
124	65,74	BISABOLOL OXIDE A	2,19
125	65,89	SESQUITERPENIC EPOXIDE	0,05
126	66,68	SESQUITERPENIC EPOXIDE	0,02
127	66,82	SESQUITERPENIC EPOXIDE	0,01
128	66,94	SESQUITERPENIC EPOXIDE	0,02
129	67,60	alpha-BISABOLOL	0,82
130	68,00	beta-NOOTKATOL	0,26
131		beta-EUDESOL	
132	68,17	alpha-CADINOL	0,08
133	68,20	GERANYLLINALOL ISOMER	0,16
134	68,30	FARNESYL ACETATE	0,03
135	68,64	AROMATIC COMPOUND Mw=168	0,03
136	69,00	SESQUITERPENIC EPOXIDE	0,18
137	69,99	CAPRIC ACID	0,06
138	70,53	SESQUITERPENIC EPOXIDE	0,03
139	70,69	SESQUITERPENOL	0,02
140	70,90	AROMATIC COMPOUND	0,03
141	71,28	COMPOUND Mw=162	0,02
142	71,42	COMPOUND Mw=248	0,02
143	71,73	SESQUITERPENIC EPOXIDE	0,03
144	71,96	ALIPHATIC ALCOHOL	0,02
145	72,02	FARNESOL ISOMER	0,07
146	72,50	SESQUITERPENIC EPOXIDE	0,04
147	73,05	TRICOSANE	0,18
148	73,73	SESQUITERPENIC EPOXIDE	0,03
149	73,88	SESQUITERPENIC EPOXIDE	0,02
150	74,19	BERGAMOTOL ISOMER	0,07

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CHAMOMILE GERMAN ORGANIC ESSENTIAL OIL (NEPAL) – 50054

Peak	RT (min)	Compound	%
151	75,07	COMPOUND Mw=216	0,03
152	75,51	AROMATIC COMPOUND Mw=234	0,05
153	76,07	<b>CHAMAZULEN</b>	<b>0,84</b>
154	76,34	SESQUITERPENIC EPOXIDE	0,05
155	76,60	PRECOCENE II	0,21
156	76,67	<b>alpha-BISABOLOL OXIDE A</b>	<b>12,16</b>
157	76,86	SESQUITERPENIC EPOXIDE	0,05
158	77,18	FARNESOL ISOMER	0,03
159	77,53	TETRACOSANE	0,04
160	79,49	AROMATIC COMPOUND	0,02
161	80,29	SESQUITERPENIC EPOXIDE	0,03
162	81,92	PENTACOSANE	0,28
163	83,51	XANTHOXYLIN Mw=196	0,02
164	85,50	PHYTOL	0,32
165	86,73	ALIPHATIC ALCOHOL	0,02
166	87,03	SESQUITERPENIC COMPOUND	0,02
167	88,33	ANTHRACENE COMPOUND Mw=178	0,03
168	90,17	HEPTACOSANE	0,05
169	92,53	SESQUITERPENIC COMPOUND	0,02
170	96,58	NAPHTALENE, 2-ACETYL-6-METHOXY- Mw=200	0,51
171	97,95	PALMITIC ACID	0,04
172	103,86	SESQUITERPENIC COMPOUND	0,09
173	106,04	SESQUITERPENIC COMPOUND	0,04
		<b>TOTAL</b>	<b>99,88</b>

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