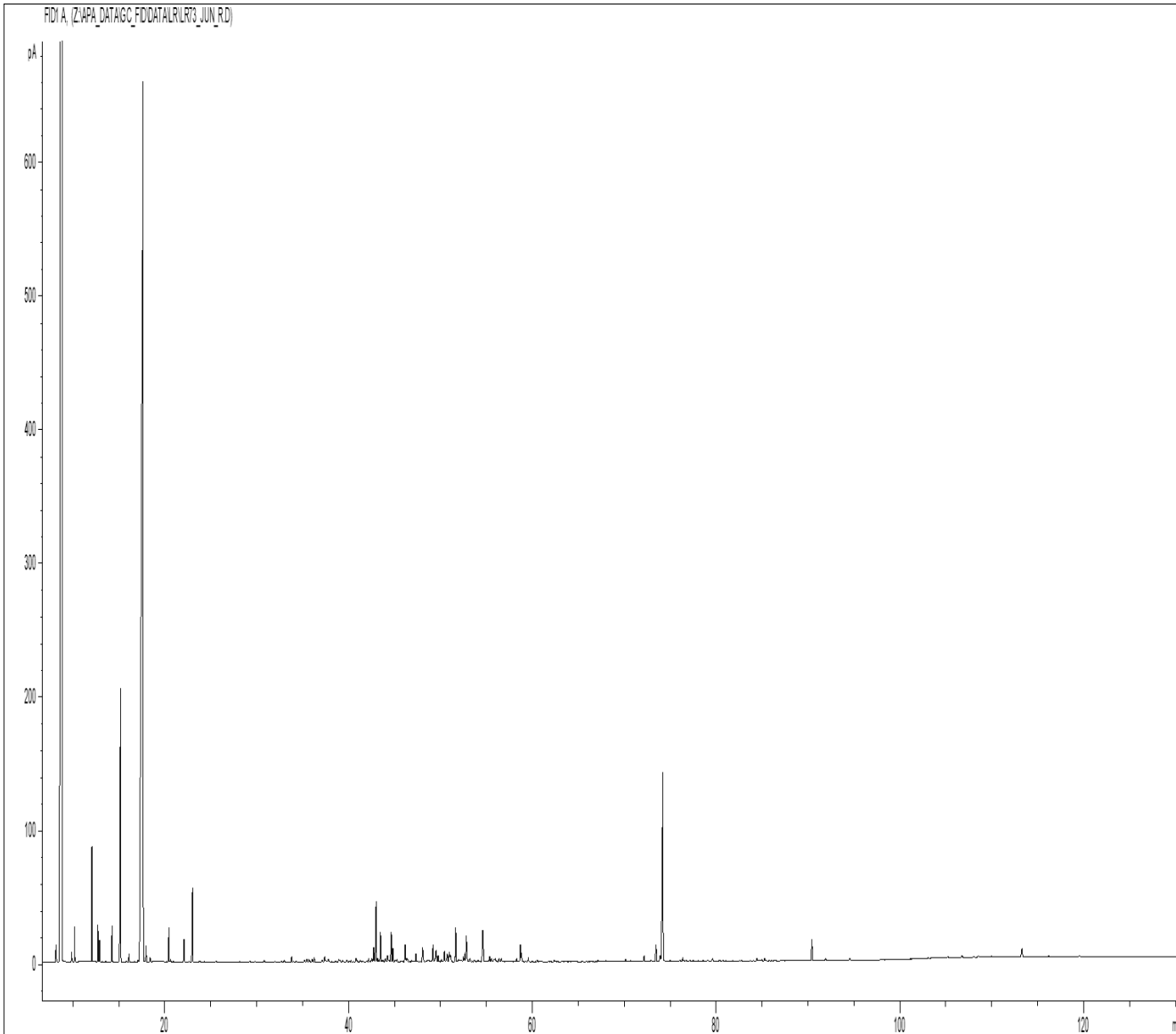


GCMS ANALYSIS

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA)

DATE: May 22, 2024



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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA)

Peak	RT (min)	Compound name	%
1	8,17	TRICYCLENE	8,17
2	8,83	alpha-PINENE	8,83
3	8,84	alpha-THUYENE	8,84
4	9,85	alpha-FENCHENE	9,85
5	10,18	CAMPHENE	10,18
6	12,05	beta-PINENE	12,05
7	12,71	SABINENE	12,71
8	12,88	PINADIENE	12,88
9	14,25	delta3-CARENE	14,25
10	15,18	beta-MYRCENE	15,18
11	15,24	alpha-PHELLANDRENE	15,24
12	16,09	alpha-TERPINENE	16,09
13	17,08	MENTHATRIENE ISOMER	17,08
14	17,63	LIMONENE	17,63
15	17,95	beta-PHELLANDRENE	17,95
16	18,39	1,3,8-p-MENTHATRIENE	18,39
17	20,43	gamma-TERPINENE	20,43
18	20,60	MENTHATRIENE ISOMER	20,60
19	22,07	p-CYMENE	22,07
20	23,01	TERPINOLENE	23,01
21	29,24	alpha-PINENE OXIDE	29,24
22	30,81	COSMENE	30,81
23	32,98	PERILLENE	32,98
24	33,80	alpha,p-DIMETHYLSTYRENE	33,80
25	35,19	LIMONENE cis-1,2-EPOXIDE	35,19
26	35,45	alpha-CUBEBENE	35,45
27	35,69	4,8-TERPINOLENE EPOXIDE	35,69
28	36,03	trans-THUYANOL	36,03
29	36,04	FENCHYL ACETATE	36,04
30	36,26	delta-ELEMENE	36,26

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA)

Peak	RT (min)	Compound name	%
31	37,13	beta-PATCHOULENE	0,02
32	37,39	alpha-CAMPHOLENAL	0,08
33	37,77	alpha-COPAENE	0,03
34	38,92	CAMPHOR	0,03
35	39,03	PINOCAMPHONE	0,02
36	39,32	alpha-GURJUNENE	0,01
37	39,78	beta1-CUBEBENE	0,02
38	40,23	COMPOUND Mw=152	0,01
39	40,81	SESQUITERPENE	0,05
40	41,26	cis-THUYANOL	0,02
41	41,49	SESQUITERPENE	0,02
42	41,96	LIMONENE trans-8,9-EPOXIDE	0,01
43	42,17	SESQUITERPENE	0,04
44	42,44	SESQUITERPENE	0,01
45	42,54	METHYL CITRONELLATE	0,04
46	42,73	alpha-CEDRENE	0,19
47	42,99	CEDRENE ISOMER	0,72
48	43,16	CEDRENE ISOMER	0,04
49	43,47	BORNYL ACETATE	0,33
50	43,65	SESQUITERPENE	0,02
51	43,76	ISOBORNYL ACETATE	0,01
52	44,00	SESQUITERPENE	0,05
53	44,24	beta-ELEMENE	0,09
54	44,42	SESQUITERPENE	0,02
55	44,63	beta-CARYOPHYLLENE	0,33
56		beta-CEDRENE	
57	44,82	TERPINENE-4-OL	0,15
58	45,09	SESQUITERPENE	0,04
59	45,26	SESQUITERPENE	0,03
60	46,15	THUYOPSENE	0,20

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA)

Peak	RT (min)	Compound name	%
61	46,32	MYRTENAL	0,04
62	46,40	cis-p-MENTHA-2,8-DIEN-1-OL	0,02
63	46,88	CADINA-3,5-DIENE	0,02
64	47,06	SESQUITERPENE	0,01
65	47,32	GERMACRENE A	0,09
66	48,04	trans-PINOCARVEOL	0,19
67	48,60	SESQUITERPENE	0,02
68	48,66	SESQUITERPENE	0,03
69	49,18	alpha-HUMULENE	0,10
70	49,19	E-beta-FARNESENE	0,09
71	49,51	cis-4,5-MUUROLADIENE	0,20
72		trans-VERBENOL	
73	49,76	CURCUMENE ISOMER	0,07
74	50,10	LAVANDULAL	0,03
75	50,43	gamma-MUUROLENE	0,12
76	50,73	SESQUITERPENE	0,14
77		gamma-CURCUMENE	
78	50,94	alpha-TERPINEOL	0,05
79	50,95	VERBENONE	0,06
80	51,05	BORNEOL	0,13
81	51,66	GERMACRENE D	0,39
82	51,96	SESQUITERPENE	0,03
83	52,06	SESQUITERPENE	0,02
84	52,13	EREMOPHILENE	0,01
85	52,22	beta-HIMACHALENE	0,02
86	52,32	alpha-SELINENE	0,01
87	52,48	SESQUITERPENE	0,06
88	52,64	beta-BISABOLENE	0,08
89	52,81	SESQUITERPENE	0,33
90	53,21	HIMACHALENE ISOMER	0,05

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA)

Peak	RT (min)	Compound name	%
91	53,64	beta-CURCUMENE	0.02
92	54,07	trans-ISOPIPERITENOL	0.38
93	54,59	delta-CADINENE	0.12
94	54,60	gamma-CADINENE	0.02
95	55,33	delta-SELINENE	0.05
96	55,35	beta-SESQUIPHELLANDRENE	0.03
97	55,54	alpha-CURCUMENE	0.04
98	55,83	SELINA-3,7-DIENE	0.03
99	55,94	SESQUITERPENE	0.01
100	56,03	CADINA-1,4-DIENE	0.05
101	56,34	MYRTENOL	0.03
102	56,62	alpha-AMORPHENE	0.05
103	58,29	CUPARENE	0.21
104	58,69	GERMACRENE B	0.09
105	58,81	trans-CARVEOL	0.04
106	59,56	p-CYMENE-8-OL	0.02
107	60,52	cis-CARVEOL	0.02
108	62,38	SESQUITERPENIC COMPOUND	0.02
109	67,14	HUMULENE EPOXIDE	0.02
110	68,00	OXIDE COMPOUND	0.03
111	70,14	EPOXY-6,7-HUMULENE	0.02
112	70,66	NEROLIDOL	0.07
113	72,16	ELEMOL	0.02
114	72,91	CEDROL ISOMER	0.21
115	73,45	AROMATIC COMPOUND Mw=222	0.11
116	73,91	SESQUITERPENOL	2.90
117	74,19	CEDROL	0.01
118	74,98	CEDROL ISOMER	0.01
119	76,04	CEDROL ISOMER	0.04
120	76,34	CEDROL ISOMER	0.02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA)

Peak	RT (min)	Compound name	%
121	76,46	SESQUITERPENIC COMPOUND	0,01
122	76,70	SESQUITERPENIC COMPOUND	0,02
123	77,13	T-CADINOL	0,02
124	77,48	alpha-MUUROLOL	0,02
125	78,60	SESQUITERPENIC COMPOUND	0,02
126	79,13	GERANYLGERANIADIENE	0,02
127	79,56	alpha-CADINOL	0,02
128	79,63	alpha-EUDESMOL	0,03
129	80,35	DITERPENE	0,01
130	80,40	CITRONELIC ACID	0,02
131	80,73	DITERPENE	0,02
132	82,54	SESQUITERPENIC COMPOUND	0,01
133	82,74	SESQUITERPENIC COMPOUND	0,02
134	84,44	SANDARACOPIMARADIENE	0,04
135	84,98	DITERPENE	0,02
136	85,26	MANOYL OXIDE	0,04
137	85,78	SESQUITERPENIC COMPOUND	0,01
138	86,43	DITERPENE	0,01
139	88,19	19-NORABIETA-8,11,13-TRIENE	0,01
140	90,41	BIFORMENE	0,27
141	91,92	ABIETATRIENE	0,03
142	94,54	DITERPENE	0,03
143	103,08	PIMARINAL	0,01
144	105,20	DITERPENIC COMPOUND Mw=286	0,01
145	106,75	DITERPENIC COMPOUND Mw=286	0,03
146	108,53	DITERPENIC COMPOUND Mw=286	0,02
147	113,28	DITERPENIC COMPOUND Mw=286	0,15
148	116,19	AROMATIC COMPOUND Mw=222	0,01
149	119,53	AROMATIC COMPOUND Mw=222	0,02
		TOTAL	99,97

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