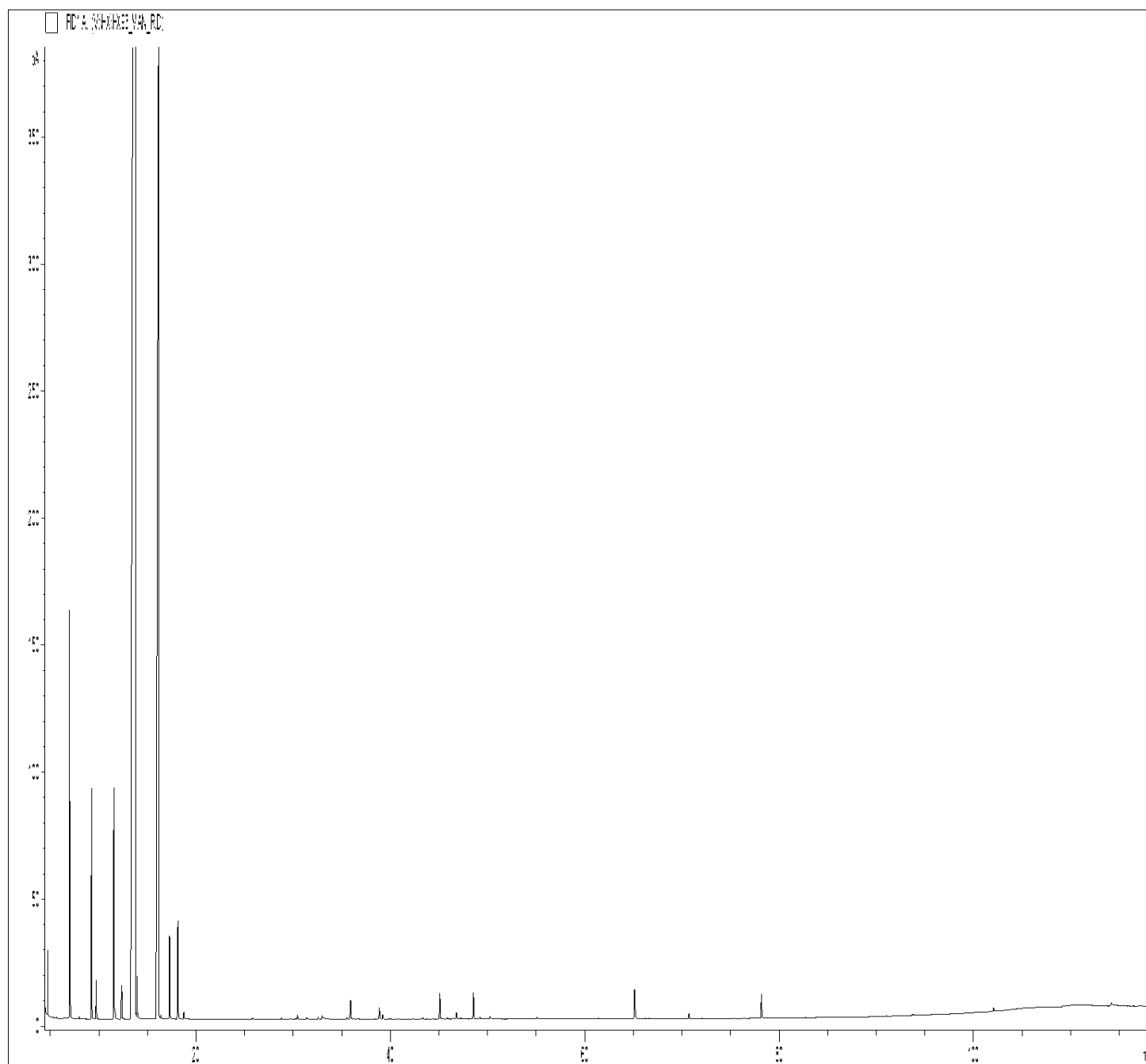


GCMS ANALYSIS

PRODUCT NAME: MANDARIN ESSENTIAL OIL – 11088

DATE: September 14, 2023



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: MANDARIN ESSENTIAL OIL – 11088

Peak	RT (min)	Compound name	%
1	7.00	α-PINENE	2.08
2	7.05	α-THUYENE	0.76
3	7.98	CAMPHENE	0.01
4	9.24	β-PINENE	1.51
5	9.72	SABINENE	0.26
6	11.54	β-MYRCENE	1.84
7	11.64	α-PHELLANDRENE	0.07
8	12.33	α-TERPINENE	0.38
9	13.77	LIMONENE	71.63
10	13.94	β-PHELLANDRENE	0.25
11	16.15	γ-TERPINENE	17.83
12	16.38	trans-β-OCIMENE	0.03
13	17.27	p-CYMENE	0.60
14	18.12	TERPINOLENE	0.79
15	18.73	OCTANAL	0.06
16	25.81	NONANAL	0.02
17	28.80	LIMONENE cis-1,2-EPOXIDE	0.01
18	29.68	LIMONENE trans-1,2-EPOXIDE	0.01
19	30.44	trans-THUYANOL	0.04
20	31.37	CITRONELLAL	0.02
21	32.57	α-COPAENE	0.03
22	32.95	DECANAL	0.04
23	35.52	β1-CUBEBENE	0.02
24	35.85	cis-THUYANOL	0.07
25	35.91	LINALOOL	0.13
26	36.58	1-OCTANOL	0.01
27	38.87	β-CARYOPHYLLENE	0.12
28	39.21	TERPINENE-4-OL	0.04
29	43.33	α-HUMULENE	0.01
30	45.08	α-TERPINEOL	0.23

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: MANDARIN ESSENTIAL OIL – 11088

Peak	RT (min)	Compound name	%
31	45.88	GERMACRENE D	0.02
32	46.43	DODECANAL	0.02
33	46.79	α -SELINENE	0.07
34	47.23	BICYCLOGERMACRENE	0.02
35	48.55	E,E- α -FARNESENE	0.21
36	48.60	δ -CADINENE	0.03
37	49.21	CITRONELLOL	0.03
38	50.27	PERILLALDEHYDE	0.04
39	55.10	2-DODECENAL	0.02
40	65.12	METHYL, N-METHYL-ANTHRANILATE	0.37
41	70.74	THYMOL	0.05
42	78.19	α-SINENSAL	0.24
43	114.23	AROMATIC COMPOUND	0.05
		TOTAL	100.00

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