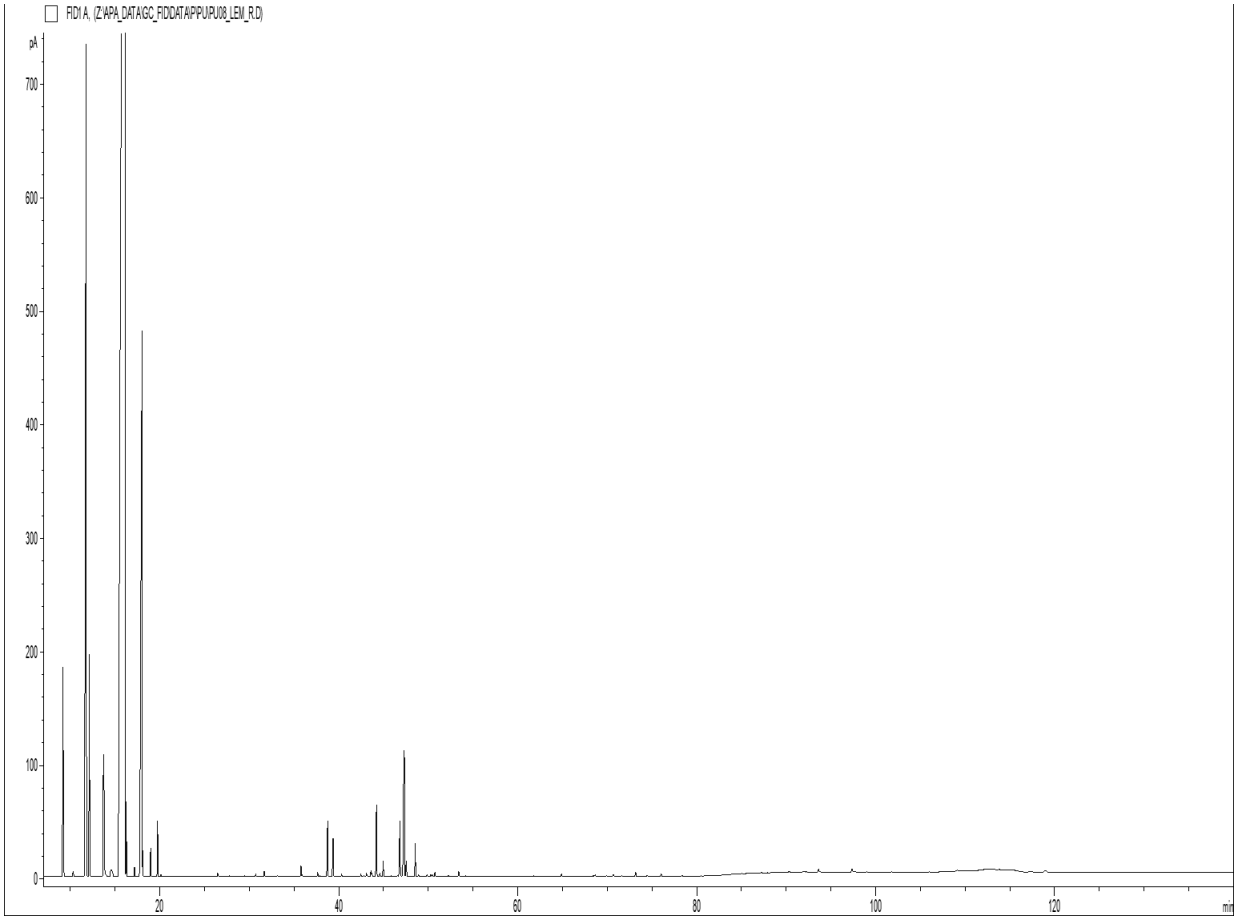
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Lemon Essential Oil
Botanical Name	Citrus limon
Analysis Date	September 17, 2026

Note: This GC/MS report is a representative analysis of this product. Due to volume turnover, it is not specific to an individual lot; specific lots may vary slightly, as is the case with natural products. The lot-specific quality document for each batch is its Certificate of Analysis.

Chromatogram



Identified Compounds

Peak	RT (min)	Compound name	%
1	9.18	alpha-PINENE	1.48
2	9.20	alpha-THUYENE	0.33
3	10.32	CAMPHENE	0.04
4	11.78	beta-PINENE	9.16
5	12.14	SABINENE	1.65
6	13.72	beta-MYRCENE	1.51
7	13.91	alpha-PHELLANDRENE	0.06
8	14.55	alpha-TERPINENE	0.16
9	16.15	LIMONENE	71.41
10		beta-PHELLANDRENE	
11	16.26	1,8-CINEOLE	0.31
12	17.17	cis-beta-OCIMENE	0.05
13	18.02	gamma-TERPINENE	7.82
14	18.09	trans-beta-OCIMENE	0.13
15	18.99	p-CYMENE	0.17
16	19.76	TERPINOLENE	0.34
17	20.13	OCTANAL	0.01
18	26.45	NONANAL	0.04
19	27.79	TETRADECANE	0.01
20	30.71	trans-THUYANOL	0.02
21	31.67	CITRONELLAL	0.05
22	33.14	DECANAL	0.01
23	35.77	LINALOOL	0.08
24	35.91	cis-THUYANOL	0.02
25	37.64	alpha-cis-BERGAMOTENE	0.03
26	37.85	alpha-SANTALENE	0.01
27	38.75	alpha-trans-BERGAMOTENE	0.45
28	39.36	beta-CARYOPHYLLENE	0.28
29	39.40	TERPINENE-4-OL	0.06
30	39.83	UNDECANAL	0.01
31	40.32	SESQUITERPENE	0.02
32	42.15	FARNESENE ISOMER	0.01
33	42.46	beta-SANTALENE	0.02
34	42.80	1-NONANOL	0.02
35	43.08	CITRONELLYL ACETATE	0.04
36	43.59	E-beta-FARNESENE	0.05
37	43.68	alpha-HUMULENE	0.03
38	44.21	NERAL	0.62
39	44.59	Z-beta-FARNESENE	0.03
40		alpha-TERPINEOL	
41	44.96	gamma-CURCUMENE	0.13
42	46.57	VALENCENE	0.01
43	46.83	NERYL ACETATE	0.49
44	47.20	GERANIAL	1.13
45	47.29	beta-BISABOLENE	0.71
46	47.54	BICYCLOGERMACRENE	0.13
47	48.54	GERANYL ACETATE	0.25
48	48.92	delta-CADINENE	0.02
49	49.86	trans-alpha-BISABOLENE	0.02
50	50.30	PERILLALDEHYDE	0.02
51	50.48	SESQUITERPENIC COMPOUND	0.01
52	50.75	NEROL	0.04
53	52.27	GERANYL PROPIONATE	0.01
54	53.40	GERANIOL	0.04
55	61.79	7-epi-SESQUISABINENE	0.01

		HYDRATE	
56	64.90	GERMACRENE D-4-OL	0.03
57	68.68	SESQUITERPENIC COMPOUND	0.01
58	70.68	CAMPHERENOL	0.02
59	73.16	alpha-BISABOLOL	0.04
60	76.02	DIMETHYL METHYLPENTENYL NORBORNANOL	0.02
61	93.61	PENTADECANOIC ACID	0.04
62	97.33	PALMITIC ACID	0.08
63	99.03	NONACOSANE	0.01
64	101.78	ALDEHYDE COMPOUND	0.01
65	109.12	SQUALENE	0.02
66	112.20	LINOLEIC ACID	0.07
67	118.98	LIMETTIN	0.05
		TOTAL	**99.99**

In the source report, peak 10 (beta-PHELLANDRENE) is listed without RT or %, and peaks 40–41 (alpha-TERPINEOL / gamma-CURCUMENE) co-elute with a combined value of 0.13%.

Faithful copy of the GC/MS analysis report. The original document is kept in the MALIKA Essentials archives.