Aromatic Plant Research Center
230 N 1200 E STE 100
Lehi, UT 84043
www.aromaticplant.org

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Laboratory Test Report

SAMPLE NAME : Rose Otto
CLIENT NAME : Plant Therapy
CLIENT LOT # : RK0103R
APRC LOT# : PT260323A

Column	: ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thicknes
Instrument	: Shimadzu GCMS-QP2010 Ultra
Carrier gas	: Helium 80 psi
Temperature ramp	: 2 degrees Celsius per minute up to 260-degree Celsius
Split ratio	: 30:1
Sample preparation	: 5% w/v solution with Dichloromethane

Interpretation on this sample

The analysis of Rose sample meets the standard chemical profile of Rosa x damascena essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

Issued Date : 3/23/2026

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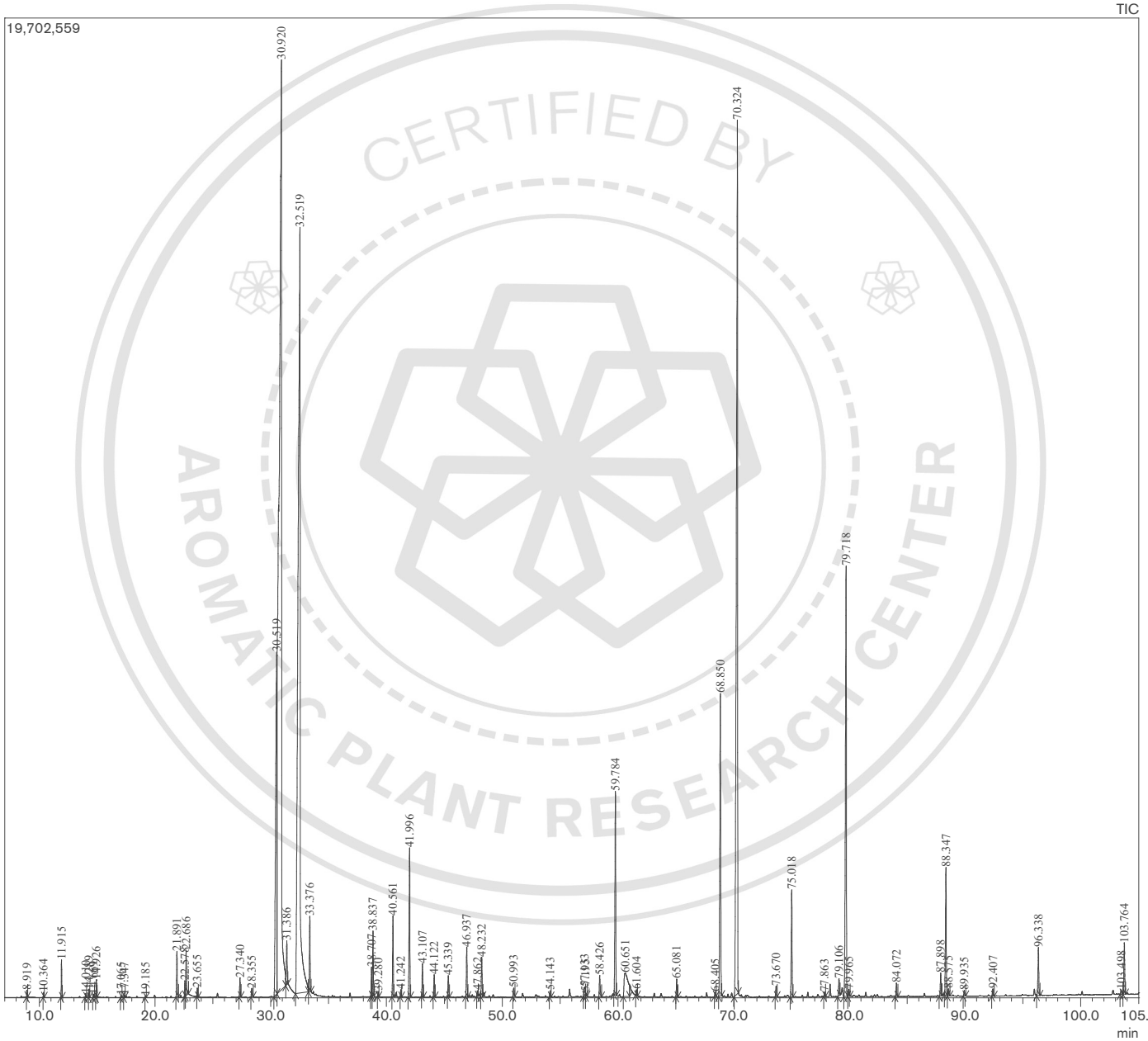
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GCMS Analysis

Sample Information

Analyzed by	: Dr. Prabodh Satyal
Analyzed	: 3/23/2026 4:48:42 PM
Sample Type	: Essential Oil
Sample Name	: Rose Otto
Client Name	: Plant Therapy
Client Lot#	: RK0103R
APRC Lot#	: PT260323A
Injection Volume	: 0.30

Chromatogram



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Peak Report

Peak#	R.Time	Name	Area%
1	8.919	n-Hexanol	0.04
2	10.364	Heptanal	0.03
3	11.915	alpha-Pinene	0.24
4	14.010	Sabinene	0.03
5	14.289	beta-Pinene	0.05
6	14.669	6-Methyl-5-hepten-2-one	0.02
7	14.926	Myrcene	0.12
8	17.065	para-Cymene	0.01
9	17.347	Limonene	0.02
10	19.185	gamma-Terpinene	0.01
11	21.891	Linalool	0.38
12	22.578	cis-Rose oxide	0.13
13	22.686	Phenyl ethyl alcohol	0.46
14	23.655	trans-Rose oxide	0.07
15	27.340	Terpinen-4-ol	0.16
16	28.355	alpha-Terpineol	0.10
17	30.519	Nerol	6.29
18	30.920	Citronellol	32.28
19	31.386	Neral	0.49
20	32.519	Geraniol	21.97
21	33.376	Geranial	0.70
22	38.707	Citronellyl acetate	0.26
23	38.837	Eugenol	0.61
24	39.280	Neryl acetate	0.04
25	40.561	Geranyl acetate	0.73
26	41.242	beta-Elemene	0.06
27	41.996	Methyl eugenol	1.49
28	43.107	beta-Caryophyllene	0.31
29	44.122	alpha-Guaiene	0.20
30	45.339	alpha-Humulene	0.19
31	46.937	Germacrene D	0.48
32	47.862	Aciphyllene+2-Tridecanone	0.05
33	48.232	Pentadecane	0.41
34	50.993	alpha-Elemol	0.09
35	54.143	Hexadecane	0.05
36	57.133	alpha-Eudesmol	0.15
37	57.195	Pogostol	0.04
38	58.426	Tetradecanol	0.25
39	59.784	Heptadecane	2.10
40	60.651	2-trans-6-cis-Farnesol	1.19
41	61.604	2-trans-6-trans-Farnesal	0.05
42	65.081	Octadecane	0.17
43	68.405	Pentadecenyl acetate	0.04
44	68.850	Nonadec-9-ene	3.55
45	70.324	Nonadecane	14.10
46	73.670	Heptadecanol	0.11
47	75.018	Eicosane	1.08
48	77.863	2-Phenylethyl geranoate	0.04
49	79.106	Octadecanol	0.17
50	79.718	Heneicosane	5.29
51	79.965	Citronellyl decanoate	0.07
52	84.072	Docosane	0.13
53	87.898	cis-9-Tricosene	0.24
54	88.347	Tricosane	1.34
55	88.575	Citronellyl dodecanoate	0.07
56	89.935	Geranyl dodecanoate	0.06
57	92.407	Tetracosane	0.07
58	96.338	Pentacosane	0.54
59	103.498	Heptacos-1-ene	0.05
60	103.764	Heptacosane	0.56
			100.00

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