

Laboratory Test Report

SAMPLE NAME : Organic Tangerine
CLIENT NAME : Plant Therapy
CLIENT LOT # : TP0105R
APRC LOT# : PT250328B

Column : ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thickness)
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 Tangerine sample meets the standard chemical profile of Citrus reticulata essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

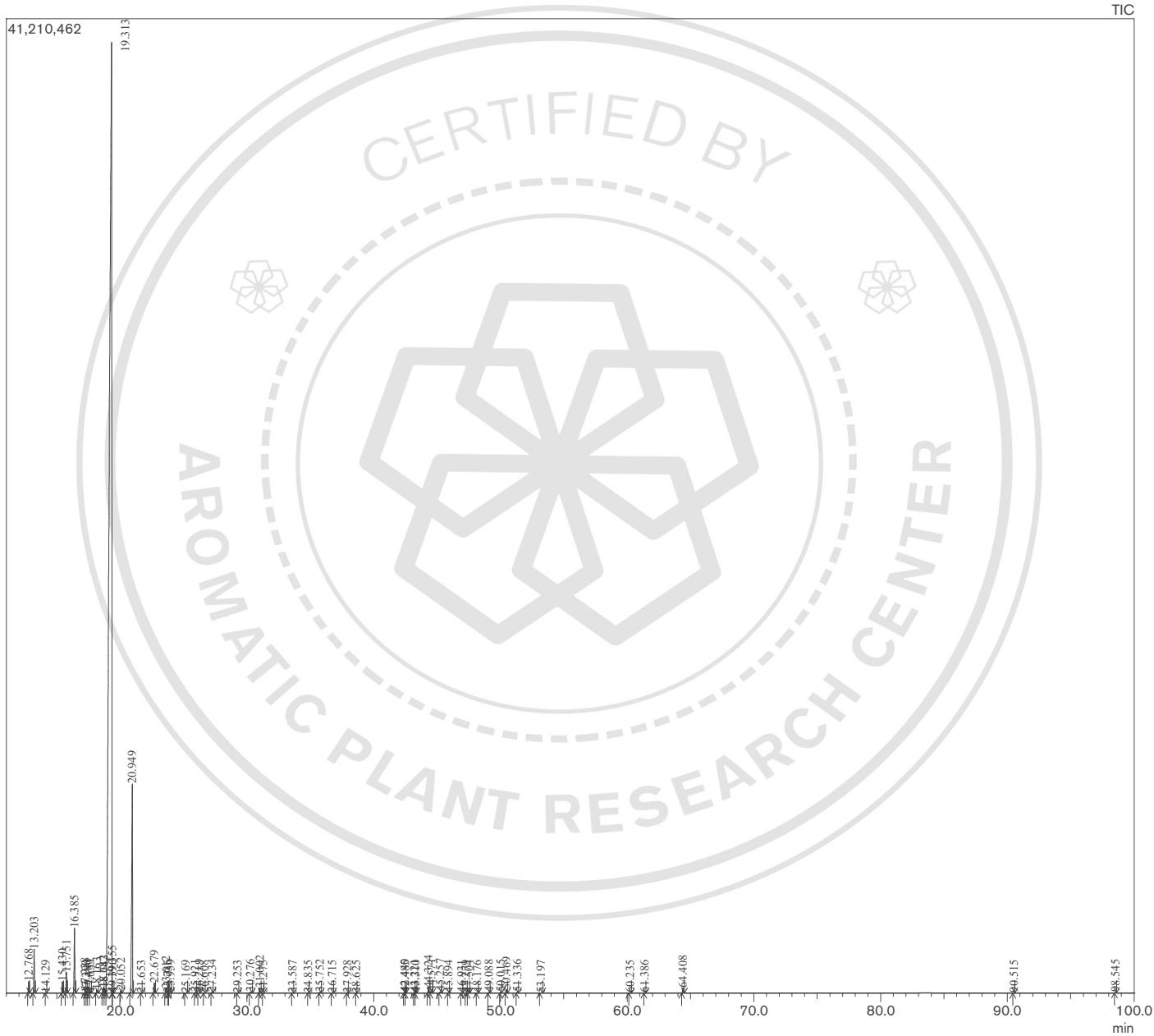
Issued Date : 3/29/2025

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 3/29/2025 8:25:18 AM
Sample Type : Essential Oil
Sample Name : Organic Tangerine
Client Name : Plant Therapy
Client Lot# : TP0105R
APRC Lot# : PT250328B
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	12.768	alpha-Thujene	0.24
2	13.203	alpha-Pinene	0.91
3	14.129	Camphene	0.01
4	15.430	Sabinene	0.26
5	15.751	beta-Pinene	0.48
6	16.385	Myrcene	1.57
7	17.228	n-Octanal	0.07
8	17.300	para-Mentha-1(7),8-diene	0.00
9	17.480	alpha-Phellandrene	0.04
10	17.633	delta-3-Carene	0.03
11	18.163	alpha-Terpinene	0.12
12	18.682	meta-Cymene	0.21
13	18.743	para-Cymene	0.17
14	19.313	Limonene	87.77
15	19.355	beta-Phellandrene	0.06
16	19.390	cis-beta-Ocimene	0.00
17	20.052	trans-beta-Ocimene	0.06
18	20.949	gamma-Terpinene	6.63
19	21.653	cis-Sabinene hydrate	0.00
20	22.679	Terpinolene	0.25
21	23.612	Linalool	0.13
22	23.735	trans-Sabinene hydrate	0.01
23	23.959	n-Nonanal	0.02
24	25.169	trans-para-Mentha-2,8-dien-1-ol	0.00
25	25.921	cis-Limonene oxide	0.02
26	26.219	trans-Limonene oxide	0.02
27	26.608	Epoxy terpinolene	0.01
28	27.234	Citronellal	0.02
29	29.253	Terpinen-4-ol	0.01
30	30.276	alpha-Terpineol	0.04
31	31.002	n-Decanal	0.14
32	31.275	Octyl acetate	0.00
33	33.587	Carvone	0.01
34	34.835	2-trans-Decenal	0.00
35	35.752	Perilla aldehyde	0.02
36	36.715	Thymol	0.01
37	37.928	Undecanal	0.01
38	38.625	2-trans-4-trans-Decadienal	0.00
39	42.440	alpha-Copaene	0.02
40	42.485	Geranyl acetate	0.00
41	43.221	beta-Cubebene	0.02
42	43.310	beta-Elemene	0.01
43	44.324	Methyl N-methyl anthranilate	0.14
44	44.571	Dodecanal	0.04
45	45.257	beta-Caryophyllene	0.04
46	45.894	beta-Copaene	0.01
47	46.931	2-cis-6-trans-Dodecadien-1-al	0.01
48	47.279	trans-beta-Farnesene	0.00
49	47.504	alpha-Humulene	0.01
50	48.176	2-trans-Dodecanal	0.01
51	49.088	Germacrene D	0.02
52	50.015	alpha-Selinene	0.02
53	50.469	trans-trans-alpha-Farnesene	0.10
54	51.336	delta-Cadinene	0.02
55	53.197	alpha-Elemol	0.01
56	60.235	10-trans-Tetradeceneol	0.00
57	61.386	beta-Sinensal	0.01
58	64.408	alpha-Sinensal	0.15
59	90.515	Tricosane	0.01
60	98.545	Pentacosane	0.01
			100.00