

Laboratory Test Report

SAMPLE NAME : Saro
CLIENT NAME : Makaaina LLC
CLIENT LOT # : 23335156L
APRC LOT# : MAK240314I

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 Saro sample meets the standard chemical profile of Cinnamosma fragrans essential oil.

Cinnamosma fragrans

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

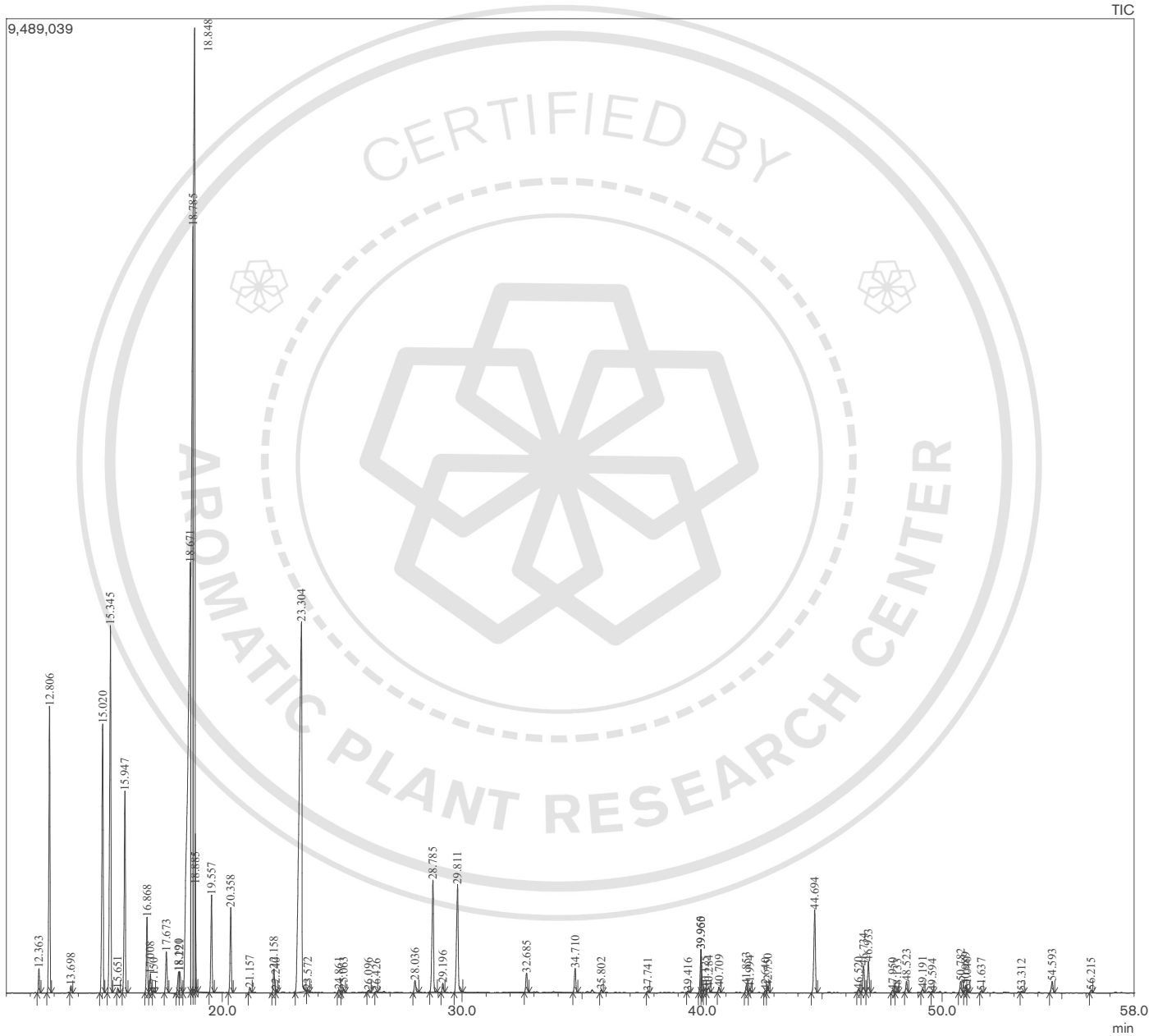
Issued Date : 3/15/2024

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 3/15/2024 9:11:55 PM
Sample Type : Essential Oil
Sample Name : Saro
Client Name : Makaaina LLC
Client Lot# : 23335156L
APRC Lot# : MAK240314I
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	12.363	alpha-Thujene	0.32
2	12.806	alpha-Pinene	4.14
3	13.698	Camphene	0.10
4	15.020	Sabinene	4.43
5	15.345	beta-Pinene	6.20
6	15.651	6-Methyl-5-hepten-2-one	0.07
7	15.947	Myrcene	3.14
8	16.868	para-Mentha-1(7),8-diene	1.14
9	17.008	alpha-Phellandrene	0.29
10	17.150	delta-3-Carene	0.03
11	17.673	alpha-Terpinene	0.71
12	18.190	meta-Cymene	0.35
13	18.221	para-Cymene	0.39
14	18.671	Limonene	16.51
15	18.785	beta-Phellandrene	14.74
16	18.848	1,8-Cineole	19.16
17	18.885	cis-beta-Ocimene	0.61
18	19.557	trans-beta-Ocimene	1.50
19	20.358	gamma-Terpinene	1.36
20	21.157	cis-Linalool oxide (furanoid)	0.08
21	22.158	Terpinolene	0.39
22	22.240	trans-Linalool oxide (furanoid)	0.03
23	23.304	Linalool	12.78
24	23.572	Isopentyl isovalerate	0.03
25	24.861	cis-para-Menth-2-en-1-ol	0.05
26	25.063	allo-Ocimene	0.05
27	26.096	trans-para-Menth-2-en-1-ol	0.04
28	26.426	Camphor	0.02
29	28.036	delta-Terpineol	0.23
30	28.785	Terpinen-4-ol	2.23
31	29.196	Cryptone	0.15
32	29.811	alpha-Terpineol	2.33
33	32.685	Neral	0.35
34	34.710	Geranial	0.42
35	35.802	Bornyl acetate	0.05
36	37.741	delta-Terpinyl acetate	0.03
37	39.416	2,3-Pinanediol	0.03
38	39.955	alpha-Terpinyl acetate	0.45
39	39.960	alpha-Cubebene	0.41
40	40.125	Citronellyl acetate	0.10
41	40.284	Neric acid	0.13
42	40.709	Neryl acetate	0.09
43	41.853	alpha-Copaene	0.15
44	41.994	Geranyl acetate	0.08
45	42.640	beta-Cubebene	0.04
46	42.750	beta-Elemene	0.12
47	44.694	beta-Caryophyllene	1.65
48	46.520	trans-Muurolo-3,5-diene	0.06
49	46.734	trans-beta-Farnesene	0.51
50	46.933	alpha-Humulene	0.59
51	47.950	cis-Cadina-1(6),4-diene	0.05
52	48.133	trans-Cadina-1(6),4-diene	0.02
53	48.523	Germacrene D	0.20
54	49.191	trans-Muurolo-4(14),5-diene	0.07
55	49.594	alpha-Murolene	0.02
56	50.782	delta-Cadinene	0.22
57	50.989	trans-Calamenene	0.14
58	51.040	Zonarene	0.03
59	51.637	trans-Cadine-1,4-diene	0.04
60	53.312	trans-Nerolidol	0.03
61	54.593	Caryophyllene oxide	0.24
62	56.215	Humulene epoxide II	0.05
			100.00