

Sample Information

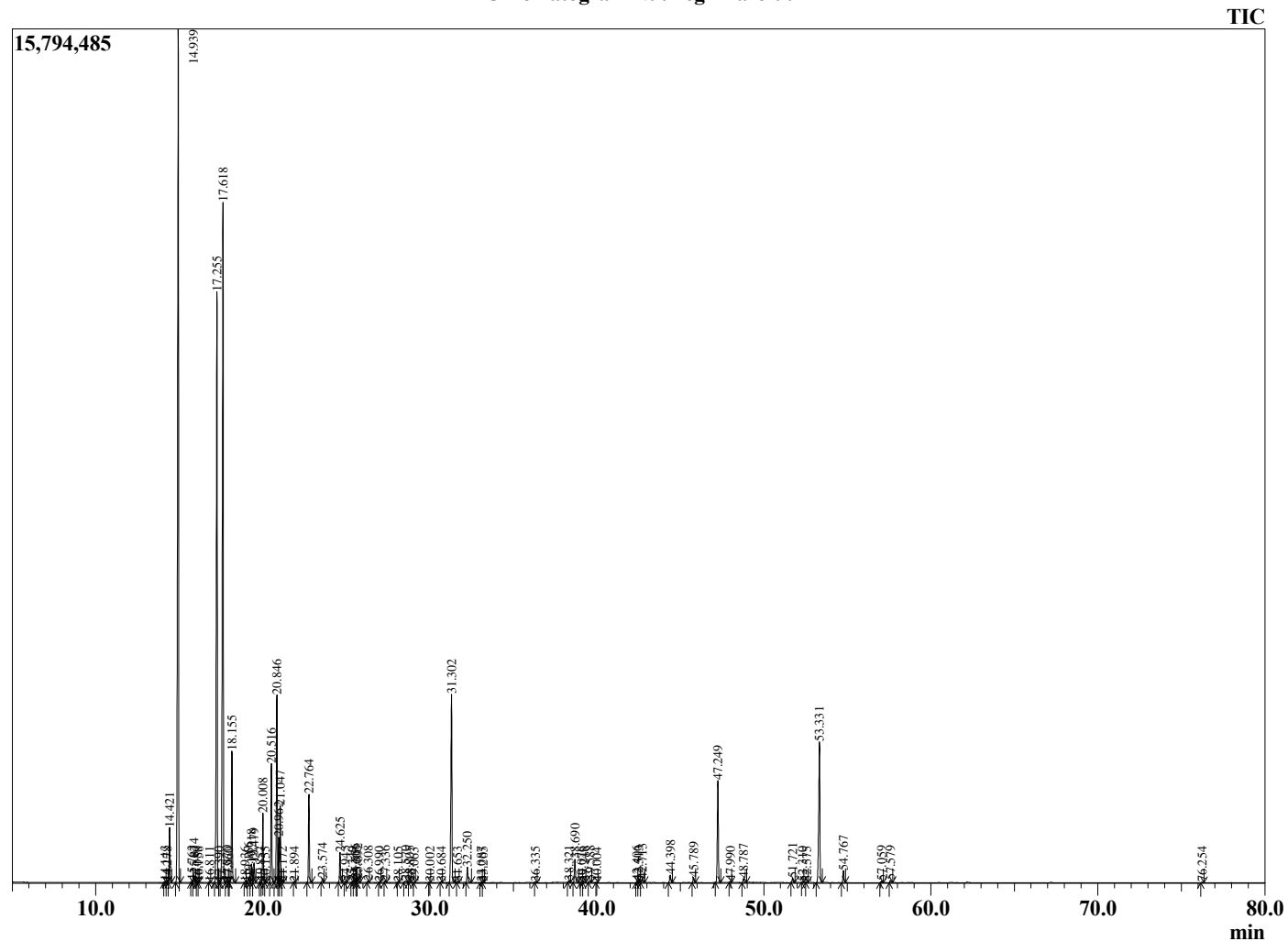
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 11/25/2020 4:07:34 AM
 Sample Type : Essential Oil
 Sample Name : Nutmeg - Barefut
 Sample ID : 0107
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

R.Time	Name	Area%
14.143	Hashishene	0.03
14.278	Tricyclene	0.01
14.421	alpha-Thujene	1.27
14.939	alpha-Pinene	24.48
15.763	alpha-Fenchene	0.05
15.874	Camphene	0.20
16.080	Thuja-2,4(10)diene	0.01
16.158	Unidentified	0.01
16.811	Unidentified	0.01
17.255	Sabinene	16.63
17.390	Unidentified	0.02
17.618	beta-Pinene	19.56
17.870	Unidentified	0.04
17.960	Unidentified	0.00
18.155	Myrcene	3.15
18.936	Unidentified	0.01
19.166	Pseudolimonene	0.12
19.318	alpha-Phellandrene	0.47
19.479	delta-3-Carene	0.48
19.857	1,4-Cineole	0.02
20.008	alpha-Terpinene	1.72
20.155	meta-Cymene	0.01
20.516	para-Cymene	3.11
20.846	Limonene	5.02
20.962	beta-Phellandrene	1.12
21.047	1,8-Cineole	1.87
21.172	Unidentified	0.02
21.894	(E)-beta-Ocimene	0.01
22.764	gamma-Terpinene	2.30
23.574	trans-Sabinene hydrate	0.11
24.625	Terpinolene	0.80
24.943	Dehydro-para-cymene	0.04
25.349	Unidentified	0.02
25.536	Linalool	0.10
25.605	Unidentified	0.04
25.692	cis-Sabinene hydrate	0.10
26.308	Unidentified	0.05
26.990	alpha-Fenchol	0.01
27.336	cis-para-Menth-2-en-1-ol	0.05
28.105	Terpin-3-en-1-ol	0.01
28.570	trans-para-Menth-2-en-1-ol	0.08
28.805	trans-Verbenol	0.03
29.063	Unidentified	0.01
30.002	Pinocarpone	0.01
30.684	Borneol	0.02
31.302	Terpinen-4-ol	5.79
31.653	para-Cymen-8-ol	0.02
32.250	alpha-Terpineol	0.48
33.087	Verbenone	0.01
33.205	cis-Piperitol	0.02
36.335	Unidentified	0.02
38.321	Bornyl acetate	0.05
38.690	Safrole	0.70
39.076	Unidentified	0.02
39.248	Unidentified	0.02
39.588	Unidentified	0.06
40.004	Unidentified	0.01
42.406	alpha-Terpinyl acetate	0.05
42.513	Citronellyl acetate	0.05
42.713	Eugenol	0.10
44.398	alpha-Copaene	0.26
45.789	Methyleugenol	0.16

Chromatogram Nutmeg - Barefut



Comments:

The analysis of this Nutmeg batch sample meets the expected chemical profile for authentic essential oil of *Myristica fragrans*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.

R.Time	Name	Area%
47.249	trans-beta-Caryophyllene	3.16
47.990	trans-alpha-Bergamotene	0.03
48.787	Isoeugenol	0.14
51.721	Methyl isoeugenol	0.13
52.310	(E,E)-alpha-Farnesene	0.01
52.575	beta-Bisabolene	0.02
53.331	Myristicin	4.94
54.767	Elimicin	0.36
57.059	Caryophyllene oxide	0.06
57.579	Methoxyeugenol	0.07
76.254	Myrcene dimer	0.02
		100.00