

Sample Information

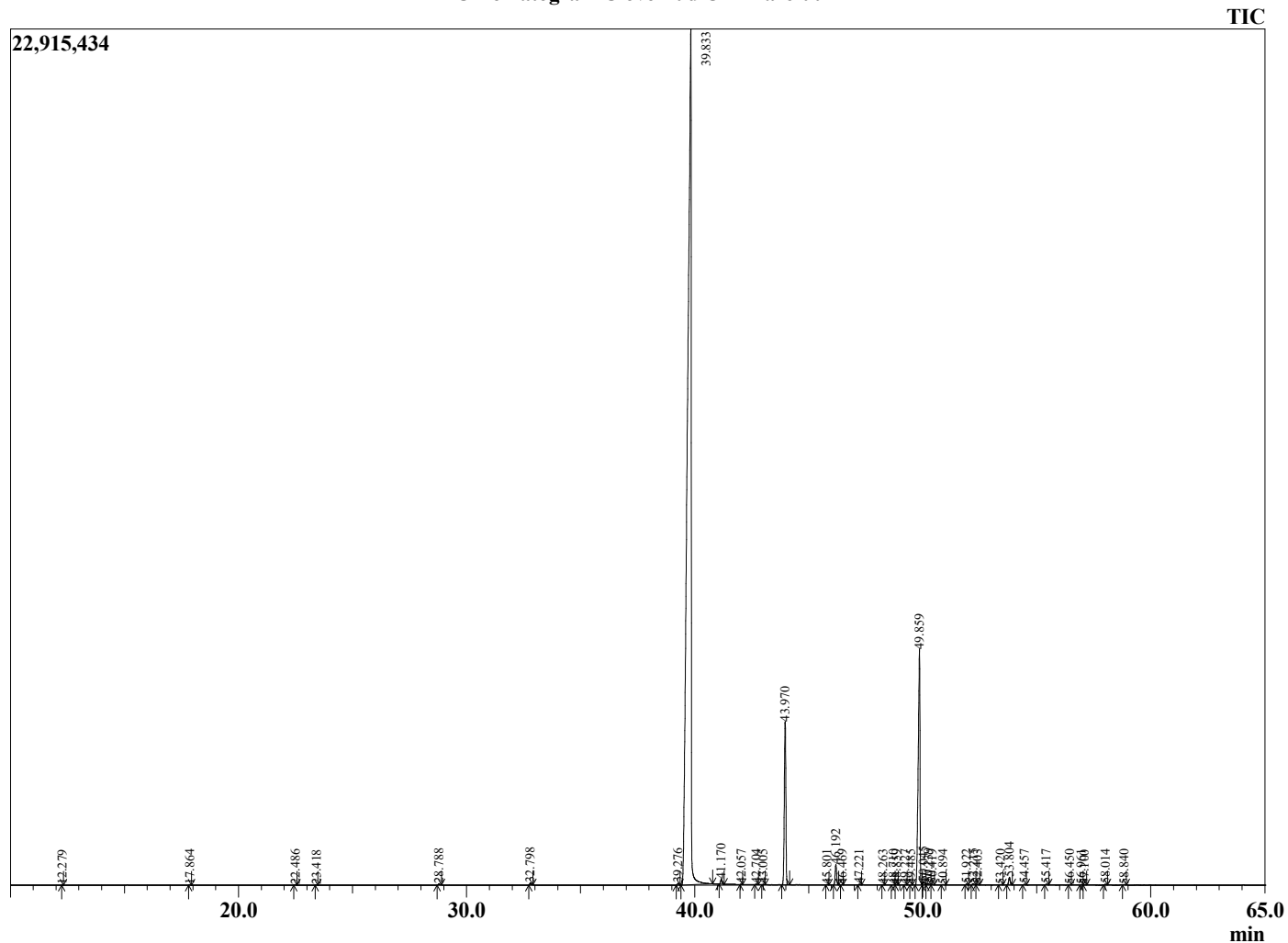
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 10/6/2021 6:56:37 PM  
 Sample Type : Essential Oil  
 Sample Name : Clove Bud Oil - Barefut  
 Sample ID : 0113  
 Injection Volume : 0.10  
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
12.279	alpha-Pinene	0.00
17.864	Limonene	0.01
22.486	Linalool	0.01
23.418	Unidentified	0.01
28.788	Methyl salicylate	0.04
32.798	Chavicol	0.07
39.276	alpha-Cubebene	0.06
39.833	Eugenol	81.03
41.170	alpha-Copaene	0.17
42.057	Unidentified	0.01
42.704	Methyleugenol	0.02
43.005	cis-beta-Caryophyllene	0.01
43.970	trans-beta-Caryophyllene	6.34
45.801	Unidentified	0.01
46.192	alpha-Humulene	0.76
46.469	Unidentified	0.01
47.221	Cadina-1(6),4-diene	0.02
48.263	Unidentified	0.01
48.710	alpha-Selinene	0.01
48.859	Unidentified	0.01
49.227	alpha-Farnesene	0.01
49.485	Unidentified	0.01
49.859	Eugenyl acetate	10.54
50.045	delta-Cadinene	0.12
50.239	cis-Calamenene	0.07
50.419	Unidentified	0.02
50.894	trans-Cadina-1,4-diene	0.02
51.922	Unidentified	0.03
52.215	Unidentified	0.06
52.403	Unidentified	0.03
53.420	Caryolan-8-ol	0.02
53.804	Caryophyllene oxide	0.30
54.457	Unidentified	0.02
55.417	Humulene epoxide II	0.03
56.450	Unidentified	0.01
56.961	Caryophylla-4(12),8(13)-dien-5-beta-ol	0.02
57.100	Unidentified	0.01
58.014	14-Hydroxycaryophyllene isomer	0.03
58.840	14-Hydroxycaryophyllene isomer	0.02
		100.00

Chromatogram Clove Bud Oil - Barefut



Comments:

The analysis of this Clove Bud batch sample meets the expected chemical profile for authentic essential oil of *Eugenia caryophyllata*. 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.