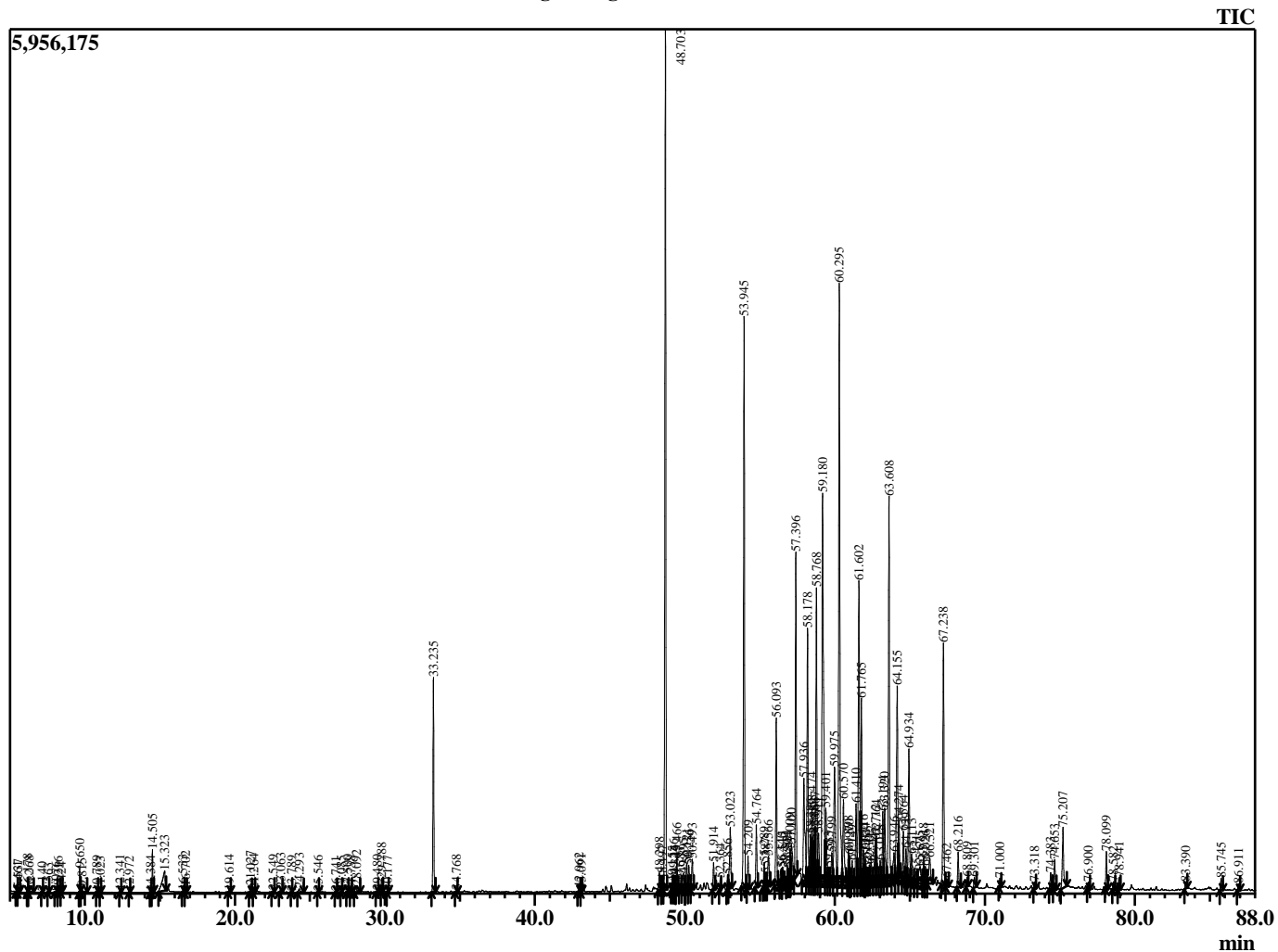


Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 5/19/2017 12:24:18 PM
 Sample Type : Essential Oil
 Sample Name : Oud
 Sample ID : 92608
 Injection Volume : 0.50



Chromatogram Agarwood Lot 92608



R.Time	Name	Area%
5.461	1-Butanol, 3-methyl-	0.01
5.537	Isobutyric acid	0.02
6.178	1-Pentanol	0.05
6.268	Butyric acid	0.07
7.140	Ethyl butyrate	0.00
7.563	Butyl acetate	0.00
8.076	Isovaleric acid	0.01
8.216	Furfural	0.05
8.424	Butyric acid <2-methyl->	0.01
9.650	Hexanol <n->	0.15
9.815	Pentanoic acid	0.07
10.789	Styrene	0.00
11.023	Amyl butyrate	0.00
12.341	Methyl hexanoate	0.01
12.972	Pinene <alpha>	0.00
14.384	Furfural <5-methyl->	0.01
14.505	Benzaldehyde	0.32
15.323	Hexanoic acid	0.63
16.533	Butyl butyrate	0.02
16.702	Ethyl hexanoate	0.04
19.614	Salicylaldehyde	0.02
21.027	Acetophenone	0.06
21.264	Heptanoic acid	0.03
22.549	Linalool oxide <cis-(furanoid)>	0.02
23.063	Propyl hexanoate	0.05
23.789	Nonanal	0.01
24.293	Cyclohexanecarboxylic acid	0.06
25.546	Isobutyl hexanoate	0.01
26.741	Camphor	0.01
27.085	Anisole, p-vinyl-	0.01
27.500	Acetophenone <2'-hydroxy->	0.02
27.738	2-Ethylphenol	0.01
28.092	Octanoic acid	0.12
29.480	Creosol	0.02
29.788	Butyl hexanoate	0.13
30.177	Octanoate <ethyl->	0.01
33.235	4-Phenyl-2-butanone	2.13
34.768	Nonanoic acid	0.02
42.962	Hexyl hexanoate	0.04
43.091	Butyl octanoate	0.03
48.298	4,5-di-epi-Aristolochene	0.21
48.497	Agarwood Unidentified	0.10
48.703	Agarwood Unidentified	10.06
49.155	Agarwood Unidentified	0.08
49.246	Agarwood Unidentified	0.18
49.345	Agarwood Unidentified	0.09
49.466	Vetispirene <beta>	0.36
49.683	Valencene	0.06
49.895	Agarwood Unidentified	0.24
50.121	Agarwood Unidentified	0.29
50.256	Bulnesene <alpha>	0.37
50.493	Dihydroagarofuran <beta>	0.42
51.914	Agarwood Unidentified	0.31
52.364	Agarwood Unidentified	0.14
52.856	Agarwood Unidentified	0.17
53.023	Agarwood Unidentified	0.87

Comments:

The analysis of this Agarwood (Oud) batch sample meets the expected chemical profile for authentic essential oil of *Aquilaria crassna*. No contamination or adulteration was detected.

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R.Time	Name	Area%
53.945	Agarwood Unidentified	6.71
54.209	Agarwood Unidentified	0.35
54.764	Agarwood Unidentified	0.72
55.289	Vetivenene <beta>	0.28
55.387	Agarwood Unidentified	0.13
55.566	Agarwood Unidentified	0.46
56.093	Agarwood Unidentified	1.88
56.440	Agarwood Unidentified	0.30
56.515	Agarwood Unidentified	0.23
56.821	Agarwood Unidentified	0.23
56.894	Agarwood Unidentified	0.13
57.009	Agarwood Unidentified	0.40
57.100	Agarwood Unidentified	0.68
57.396	Eudesmol <epi-gamma->	3.66
57.936	Eudesmol <gamma->	1.75
58.178	Eremoligenol isomer	2.98
58.386	Agarospinol	0.72
58.474	Agarwood Unidentified	1.03
58.588	Agarwood Unidentified	0.39
58.667	Agarwood Unidentified	0.47
58.768	Agarwood Unidentified	3.50
58.911	Agarwood Unidentified	0.65
59.180	Valerianol	7.01
59.401	Spathulenol	1.08
59.583	Eudesmol <7-epi-alpha>	0.23
59.799	Agarwood Unidentified	0.45
59.975	Agarwood Unidentified	2.16
60.295	Agarwood Unidentified	8.22
60.570	Agarwood Unidentified	1.25
60.898	Agarwood Unidentified	0.39
60.970	Agarwood Unidentified	0.30
61.149	Agarwood Unidentified	0.28
61.410	Agarwood Unidentified	1.05
61.602	Agarwood Unidentified	4.41
61.765	Agarwood Unidentified	2.18
61.916	Agarwood Unidentified	0.40
62.024	Agarwood Unidentified	0.32
62.145	Agarwood Unidentified	0.16
62.302	Agarwood Unidentified	0.27
62.412	Agarwood Unidentified	0.33
62.712	Agarwood Unidentified	0.65
62.764	Agarwood Unidentified	0.65
63.018	Agarwood Unidentified	0.31
63.194	Agarwood Unidentified	0.83
63.320	Agarwood Unidentified	1.10
63.608	Agarwood Unidentified	4.67
63.946	Agarwood Unidentified	0.52
64.155	Agarwood Unidentified	2.87
64.274	Agarwood Unidentified	0.64
64.564	Agarwood Unidentified	0.59
64.739	Agarwood Unidentified	0.47
64.934	Agarwood Unidentified	1.72
65.113	Agarwood Unidentified	0.40
65.431	Agarwood Unidentified	0.22
65.675	Agarwood Unidentified	0.54
65.918	Agarwood Unidentified	0.35
66.026	1-Heptatriacotanol	0.29
66.321	Agarwood Unidentified	0.55
67.238	Agarwood Unidentified	2.87
67.462	Agarwood Unidentified	0.09
68.216	Agarwood Unidentified	0.42
68.809	Agarwood Unidentified	0.10

R.Time	Name	Area%
69.301	Agarwood Unidentified	0.14
71.000	Dihydrocolumellarin isomer	0.09
73.318	Agarwood Unidentified	0.08
74.383	Agarwood Unidentified	0.18
74.653	Dihydrocolumellarin	0.35
75.207	Palmitic acid	0.93
76.900	Palmitate <ethyl->	0.07
78.099	1,5-Diphenyl-3-pentanone	0.40
78.582	Agarwood Unidentified	0.09
78.941	Agarwood Unidentified	0.14
83.390	9-Octadecenoic acid <E>	0.08
85.745	Butyl palmitate	0.13
86.911	Agarwood Unidentified	0.09
		100.00