

Sample Information

Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 1/24/2019 3:13:11 AM  
 Sample Type : Essential Oil  
 Sample Name : Amyris - Barefut  
 Sample ID : amyris-0108  
 Injection Volume : 0.10  
 Instrument ID : GC-4

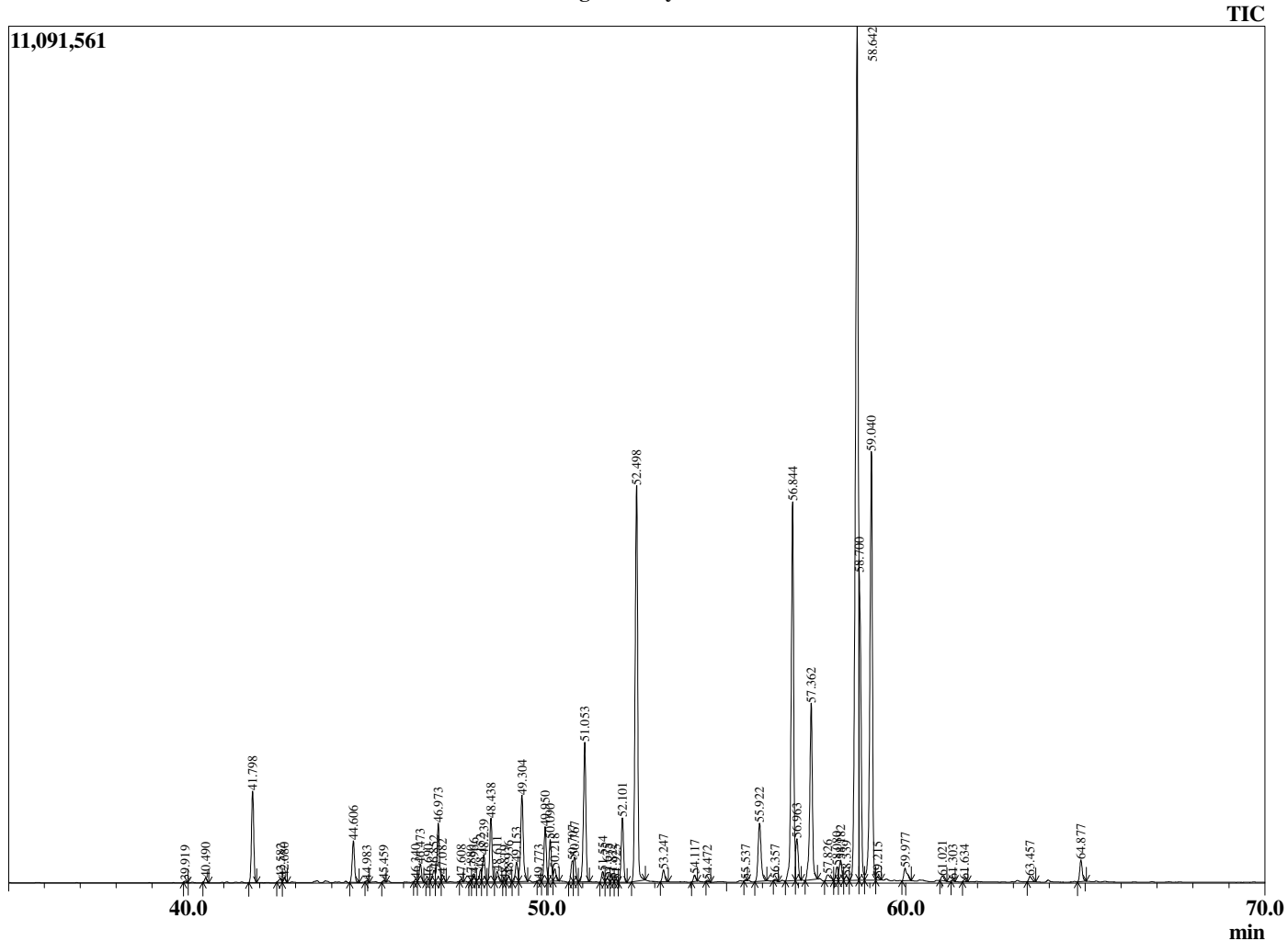


Peak Report TIC

R.Time	Name	Area%
39.919	alpha-Cubebene	0.03
40.490	Unidentified	0.11
41.798	alpha-Copaene	2.25
42.582	beta-Cubebene	0.13
42.680	beta-Elemene	0.12
44.606	beta-Caryophyllene	1.06
44.983	Unidentified	0.03
45.459	trans-alpha-Bergamotene	0.04
46.340	epi-beta-Santalene	0.05
46.473	Unidentified	0.45
46.690	trans-beta-Farnesene	0.06
46.852	alpha-Humulene	0.36
46.973	beta-Acoradiene	1.55
47.082	beta-Santalene	0.20
47.608	Unidentified	0.04
47.880	Unidentified	0.03
47.966	Unidentified	0.22
48.152	Epizonarene	0.32
48.239	gamma-Curcumene	0.70
48.438	Ar-Curcumene	1.63
48.611	Unidentified	0.29
48.819	delta-Selinene	0.04
48.936	beta-Selinene	0.15
49.153	gamma-Amorphene	0.51
49.304	alpha-Zingiberene	2.54
49.773	Unidentified	0.03
49.950	4-epi-cis-Dihydroagarofuran	1.39
50.090	beta-Bisabolene	1.04
50.218	Unidentified	0.32
50.707	delta-Cadinene	0.49
50.767	(-)-alpha-Panasinsen	0.62
51.053	beta-Sesquiphellandrene	3.72
51.554	alpha-Maaline	0.27
51.675	Unidentified	0.12
51.822	Eremophilene isomer	0.08
51.925	Unidentified	0.07
52.101	Selina-3,7(11)-diene	1.66
52.498	Elemol	11.02
53.247	trans-Nerolidol	0.32
54.117	Unidentified	0.16
54.472	Caryophyllene oxide	0.03
55.537	Unidentified	0.02
55.922	5-epi-7-epi-alpha-Eudesmol	1.93
56.357	Unidentified	0.04
56.844	10-epi-gamma-Eudesmol	10.38
56.963	Eremoligenol isomer	1.10
57.362	gamma-Eudesmol	5.07
57.826	Hinesol	0.27
58.080	Unidentified	0.35
58.182	Unidentified	0.58
58.339	Unidentified	0.13
58.642	Valerianol	26.40
58.700	alpha-Eudesmol	5.99
59.040	7-epi-alpha-Eudesmol	11.93
59.215	Unidentified	0.10
59.977	Unidentified	0.46
61.021	Unidentified	0.14
61.303	Unidentified	0.03
61.634	Unidentified	0.05
63.457	Unidentified	0.17
64.877	Drimenol	0.60
		100.00

This report is valid for 1 year from the analyzed date.

Chromatogram Amyris - Barefut



Comments:

The analysis of this Amyris Oil batch sample meets the expected chemical profile for authentic essential oil of *Amyris balsamifera*. No contamination or adulteration was detected.