

Sample Information

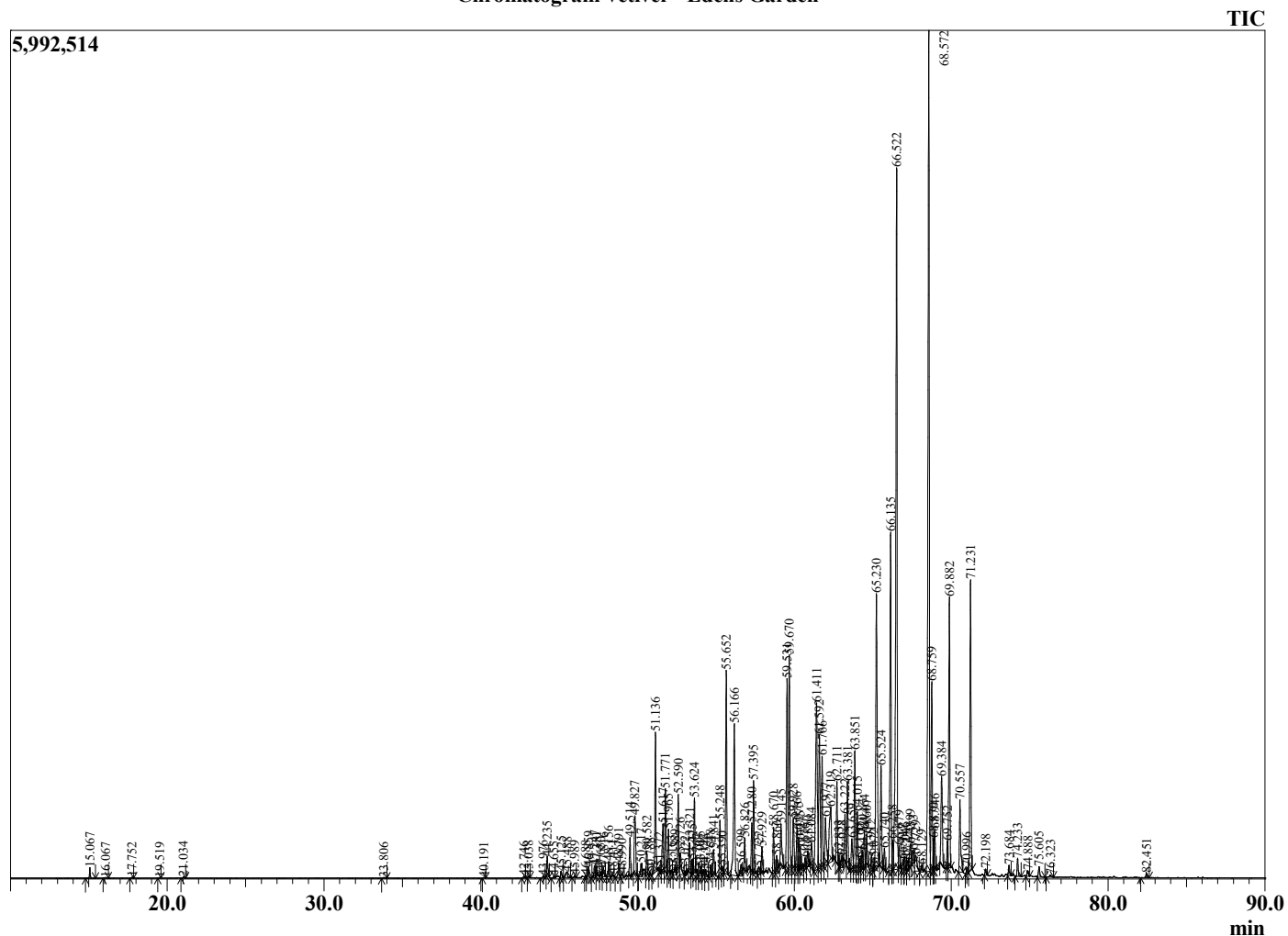
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/29/2022 8:03:42 PM
 Sample Type : Essential Oil
 Sample Name : Vetiver - Edens Garden
 Sample ID : EG Lot # BB27JAD
 Injection Volume : 0.10
 Instrument ID : GC-2



Peak Report TIC

R.Time	Name	Area%
15.067	alpha-Pinene	0.11
16.067	Camphene	0.01
17.752	beta-Pinene	0.01
19.519	alpha-Phellandrene	0.01
21.034	Limonene	0.02
33.806	Coumaran	0.02
40.191	4-vinyl-Guaiacol	0.01
42.746	alpha-Cubebene	0.02
43.038	Unidentified	0.02
43.976	Unidentified	0.03
44.235	alpha-Ylangene	0.28
44.655	alpha-Copaene	0.02
45.125	alpha-Funebrene	0.09
45.488	beta-Elemene	0.12
45.989	Nigritene	0.03
46.688	Unidentified	0.03
46.859	alpha-Chamigrene	0.12
47.247	alpha-Cedrene	0.18
47.381	Unidentified	0.13
47.650	Daucene	0.04
47.816	beta-Cedrene	0.14
48.156	epi-Bicyclosquiphellandrene	0.20
48.411	alpha-Guaiene	0.04
48.791	6,9-Guaiadiene	0.21
48.990	Unidentified	0.07
49.514	Prezizaene	0.46
49.827	Khusimene	1.02
50.217	Unidentified	0.20
50.582	Eremophila-1(10),7(11)-dien-12-yl acetate <E	0.26
50.788	cis-Muurolo-4(14),5-diene	0.04
51.136	alpha-Amorphene	1.81
51.372	alpha-Vetispirene	0.07
51.617	delta-Selinene	0.69
51.771	beta-Vetispirene	0.97
51.965	trans-Muurolo-4(14),5-diene	0.54
52.163	Cubedol	0.05
52.389	Unidentified	0.17
52.590	delta-Amorphene	0.88
52.726	Unidentified	0.40
53.022	Unidentified	0.05
53.321	Unidentified	0.38
53.475	delta-Cadinene	0.17
53.624	Selina-4(15),7(11)-diene	0.88
53.767	Unidentified	0.09
53.995	Unidentified	0.14
54.192	Unidentified	0.09
54.346	Unidentified	0.10
54.648	beta-Guaiene	0.16
54.841	Unidentified	0.36
55.248	alpha-Elemol	0.63
55.390	Unidentified	0.09
55.652	beta-Vetivenene	2.71
56.166	cis-Eudesm-6-en-11-ol	2.45
56.599	13-nor-Eudesm-5-en-11-one	0.22
56.826	Unidentified	0.42
57.280	Unidentified	0.59
57.395	3,5,11-Eudesmatriene	1.12
57.722	Unidentified	0.15
57.929	Unidentified	0.32
58.670	Khusimone	0.54
58.866	Unidentified	0.25
59.145	Unidentified	0.68

Chromatogram Vetiver - Edens Garden



Comments:

The analysis of this Vetiver batch sample meets the expected chemical profile for authentic essential oil of Vetiveria zizaniodes.

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.

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R.Time	Name	Area%
59.531	Germacone D-4-ol	2.49
59.670	Selina-6-en-4-ol	2.99
59.928	Unidentified	0.83
60.166	Unidentified	0.65
60.275	Unidentified	0.41
60.375	Unidentified	0.30
60.676	Unidentified	0.14
60.850	alpha-Funebren-15-al	0.23
61.084	Unidentified	0.36
61.411	alpha-Cadinol	3.62
61.592	Cyclocopacamphan-12-ol <epimer A>	2.23
61.766	Cyclocopacamphan-12-ol <epimer B>	1.41
61.977	Unidentified	0.86
62.319	Zizanal	1.42
62.711	2-epi-Ziza-6(13)-en-3-alpha-ol	1.03
62.833	Unidentified	0.11
63.028	Unidentified	0.23
63.222	Unidentified	0.65
63.381	Khusian-2-ol	1.13
63.659	Zizanal	0.47
63.851	Selin-7(11)-en-4-ol	1.58
64.015	2-epi-Ziza-6(13)-en-3-beta-ol	0.77
64.160	Methyl ziza-6(13)-en-12-oate	0.12
64.320	Unidentified	0.24
64.464	13-nor-Eudesma-4,6-dien-11-one	0.44
64.607	Nootkatol	0.42
64.912	Isovetiselinol	0.21
65.072	Unidentified	0.09
65.230	Vetiselinol	4.74
65.524	Unidentified	1.42
65.740	Unidentified	0.27
66.135	Zizanol	4.67
66.258	Unidentified	0.35
66.522	Khusimol	11.43
66.679	Unidentified	0.30
66.917	Unidentified	0.14
67.046	Unidentified	0.17
67.226	Unidentified	0.14
67.399	Unidentified	0.34
67.573	Unidentified	0.19
67.729	Unidentified	0.38
68.129	Z-Isovalencenol	0.11
68.572	E-Isovalencenol	13.19
68.759	Unidentified	2.52
68.870	Unidentified	0.37
68.946	Unidentified	0.50
69.384	Unidentified	1.49
69.752	Z-Isovalencenal	0.29
69.882	beta-Vetivone	3.50
70.557	E-Isovalencenal	1.11
70.996	Unidentified	0.09
71.231	alpha-Vetivone	3.91
72.198	Unidentified	0.08
73.684	Unidentified	0.14
74.233	Isovalencenyl formate	0.25
74.888	Unidentified	0.10
75.605	Unidentified	0.17
76.323	Unidentified	0.05
82.451	Unidentified	0.06
		100.00