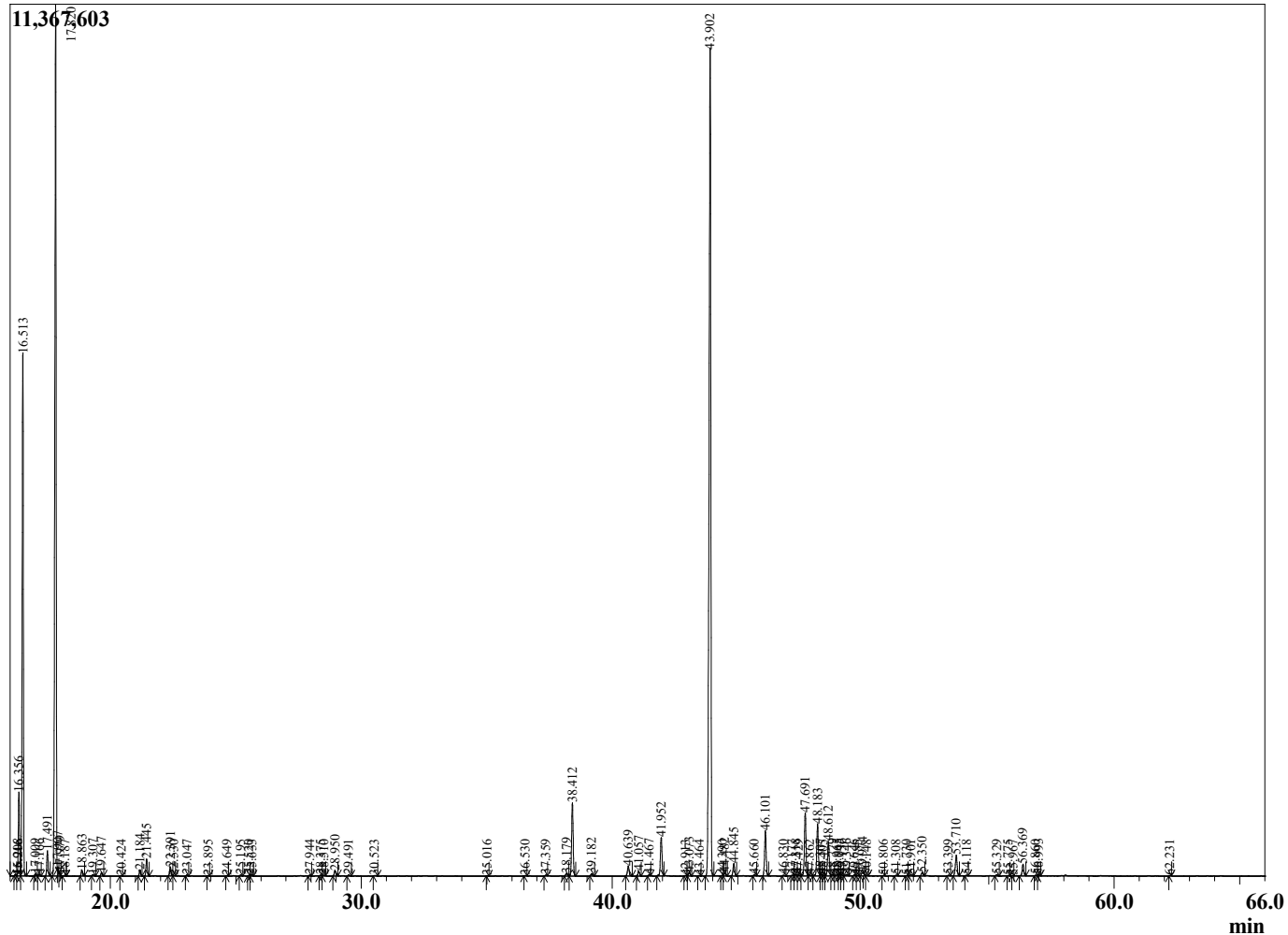


Sample Type : Essential Oil
Sample Name : Piper nigrum
Injection Volume : 0.10



Appalachian Valley
Natural Products
Anatolian Treasures

Peak Report TIC



R.Time	Name	Area%
5.896	Toluene	0.01
11.660	Tricyclene	0.03
11.810	alpha-Thujene	0.07
12.235	alpha-Pinene	18.86
13.014	alpha-Fenchene	0.01
13.110	Camphene	0.38
14.371	Sabinene	1.86
14.688	beta-Pinene	12.84
15.297	Myrcene	1.36
15.916	delta-2-Carene	0.01
16.208	Pseudolimonene	0.02
16.356	alpha-Phellandrene	1.62
16.513	delta-3-Carene	9.84
17.009	alpha-Terpinene	0.04
17.166	ortho-Cymmene	0.03
17.491	para-Cymene	0.49
17.820	Limonene	18.56
17.907	beta-Phellandrene	0.03
17.979	1,8-Cineole	0.02
18.187	cis-beta-Ocimene	0.01
18.863	trans-beta-Ocimene	0.12
19.307	Unidentified	0.03
19.647	gamma-Terpinene	0.06
20.424	trans-Sabinene hydrate	0.01
21.184	Isoterpinolene	0.13
21.445	Terpinolene	0.35
22.391	Linalool	0.20
22.530	Unidentified	0.01
23.047	Unidentified	0.02
23.895	trans-para-Mentha-2,8-dienol	0.01
24.649	cis-Limonene oxide	0.01
25.195	trans-Pinocarveol	0.02
25.520	trans-Verbenol	0.01
25.633	Camphor	0.03
27.944	Terpinen-4-ol	0.02
28.375	para-Cymen-8-ol	0.02
28.510	Unidentified	0.01
28.950	alpha-Terpineol	0.13
29.491	alpha-Phellandrene epoxide	0.02
30.523	Unidentified	0.02
35.016	Bornyl acetate	0.01
36.530	Unidentified	0.01
37.359	Unidentified	0.02
38.179	Elemene isomer	0.07
38.412	delta-Elemene	1.72
39.182	alpha-Cubebene	0.06
40.639	Isodene	0.26
41.057	alpha-Copaene	0.11
41.467	Elemene isomer	0.03
41.952	beta-Elemene	0.96
42.913	cis-beta-Caryophyllene	0.01
43.073	alpha-Gurjunene	0.08
43.464	Unidentified	0.01
43.902	beta-Caryophyllene	22.31
44.390	Unidentified	0.01
44.482	gamma-Elemene	0.07

R.Time	Name	Area%
44.845	alpha-Guaiene	0.30
45.660	Unidentified	0.02
46.101	alpha-Humulene	1.10
46.830	Unidentified	0.02
47.177	gamma-Gurjunene	0.01
47.318	gamma-Murolene	0.03
47.429	Unidentified	0.02
47.691	Germacrene D	1.59
47.862	Selina-4,11-diene	0.03
48.183	beta-Selinene	1.33
48.307	Viridiflorene	0.05
48.405	Unidentified	0.01
48.612	alpha-Selinene	0.91
48.779	alpha-Murolene	0.03
48.965	alpha-Bulnesene	0.04
49.045	Unidentified	0.05
49.136	trans,trans-alpha-Farnesene	0.03
49.346	beta-Bisabolene	0.04
49.646	gamma-Cadinene	0.02
49.785	Cubebol	0.01
49.974	delta-Cadinene + (-)-alpha-Panasinsen	0.12
50.148	trans-Calamenene	0.01
50.806	trans-Cadina-1,4-diene	0.01
51.308	alpha-Calacorene	0.02
51.730	Elemol	0.01
51.901	Unidentified	0.04
52.350	Germacrene B	0.09
53.399	Spathulenol	0.02
53.710	Caryophyllene oxide	0.58
54.118	Unidentified	0.02
55.329	Humulene epoxide II	0.03
55.775	Unidentified	0.01
55.967	Unidentified	0.01
56.369	Unidentified	0.30
56.860	Caryophylla-4(12),8(13)-dien-5-beta-ol	0.02
56.993	Unidentified	0.03
62.231	Unidentified	0.01
		100.00