

Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 1/23/2019 11:21:33 PM
 Sample Type : Essential Oil
 Sample Name : Anise Oil, Star - Barefut
 Sample ID : anise-star-0103
 Injection Volume : 0.10
 Instrument ID : GC-4

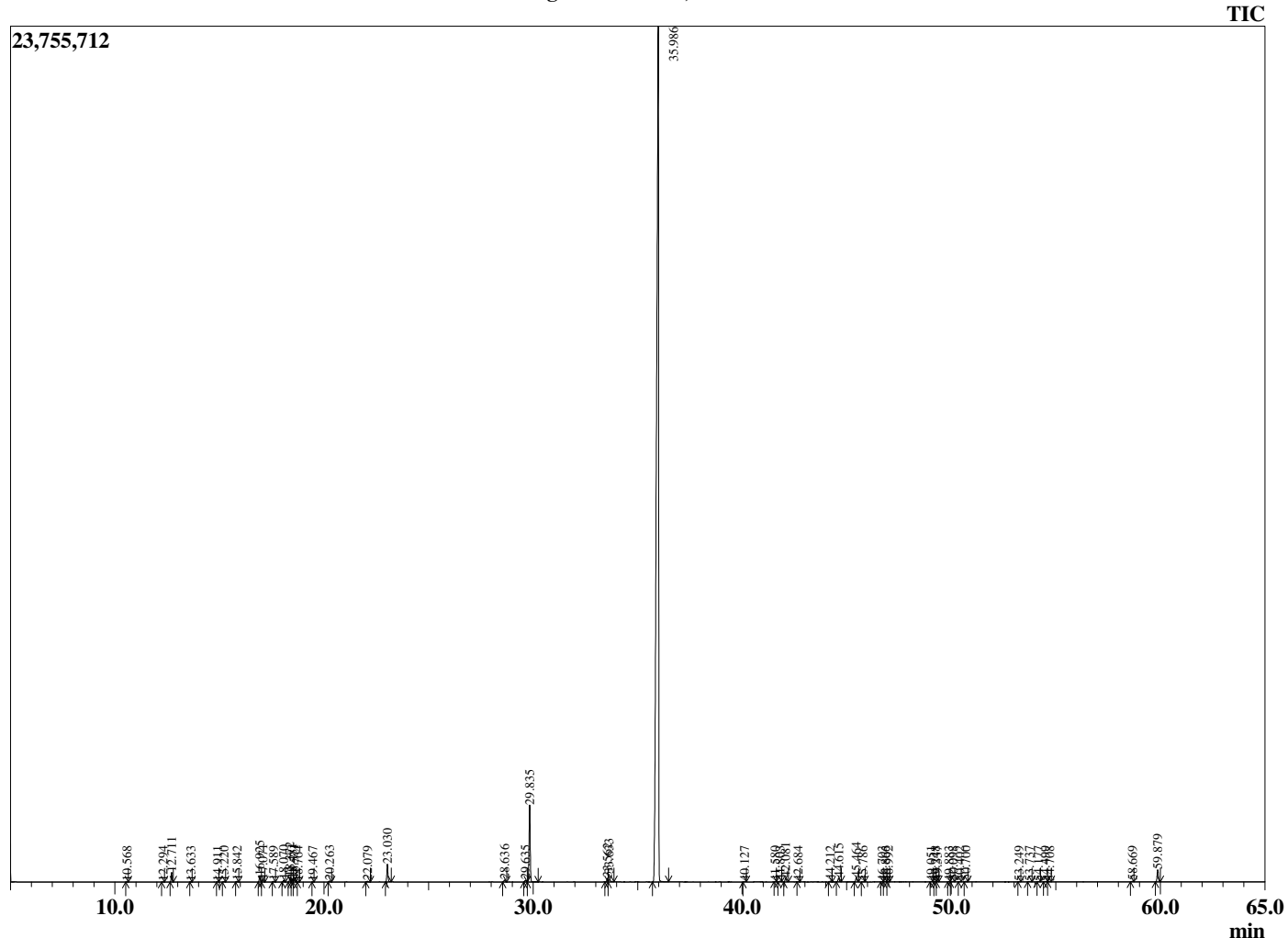


Peak Report TIC

R.Time	Name	Area%
10.568	Styrene	0.01
12.294	alpha-Thujene	0.01
12.711	alpha-Pinene	0.43
13.633	Camphene	0.01
14.911	Sabinene	0.02
15.220	beta-Pinene	0.03
15.842	Myrcene	0.04
16.925	alpha-Phellandrene	0.29
17.071	delta-3-Carene	0.14
17.589	alpha-Terpinene	0.04
18.070	para-Cymene	0.09
18.372	Limonene	0.24
18.481	beta-Phellandrene	0.18
18.571	1,8-Cineole	0.15
18.764	cis-beta-Ocimene	0.01
19.467	trans-beta-Ocimene	0.01
20.263	gamma-Terpinene	0.06
22.079	Terpinolene	0.05
23.030	Linalool	1.00
28.636	Terpinen-4-ol	0.12
29.635	alpha-Terpineol	0.11
29.835	Estragole	4.66
33.562	(Z)-Anethole	0.20
33.633	para-Anisaldehyde	0.50
35.986	(E)-Anethole	89.39
40.127	Eugenol	0.02
41.580	para-Methyl anisate	0.01
41.803	alpha-Copaene	0.05
42.081	Anisyl methyl ketone	0.27
42.684	beta-Elemene	0.01
44.212	cis-alpha-Bergamotene	0.04
44.615	beta-Caryophyllene	0.25
45.464	trans-alpha-Bergamotene	0.28
45.786	Aromadendrene	0.02
46.703	Unidentified	0.01
46.866	alpha-Humulene	0.03
46.992	Unidentified	0.03
49.051	Viridiflorene (Ledene)	0.03
49.248	Unidentified	0.02
49.337	Bicyclogermacrene	0.04
49.883	(E,E)-alpha-Farnesene	0.02
50.098	beta-Bisabolene	0.04
50.402	gamma-Cadinene	0.01
50.700	delta-Cadinene	0.04
53.249	trans-Nerolidol	0.02
53.737	Unidentified	0.05
54.177	Unidentified	0.02
54.499	Unidentified	0.03
54.708	Unidentified	0.02
58.669	alpha-Cadinol	0.05
59.879	Foeniculin	0.81
		100.00

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

Chromatogram Anise Oil, Star - Barefut



Comments:

The analysis of this Anise Oil, Star batch sample meets the expected chemical profile for authentic essential oil of *Illicium verum*. No contamination or adulteration was detected.