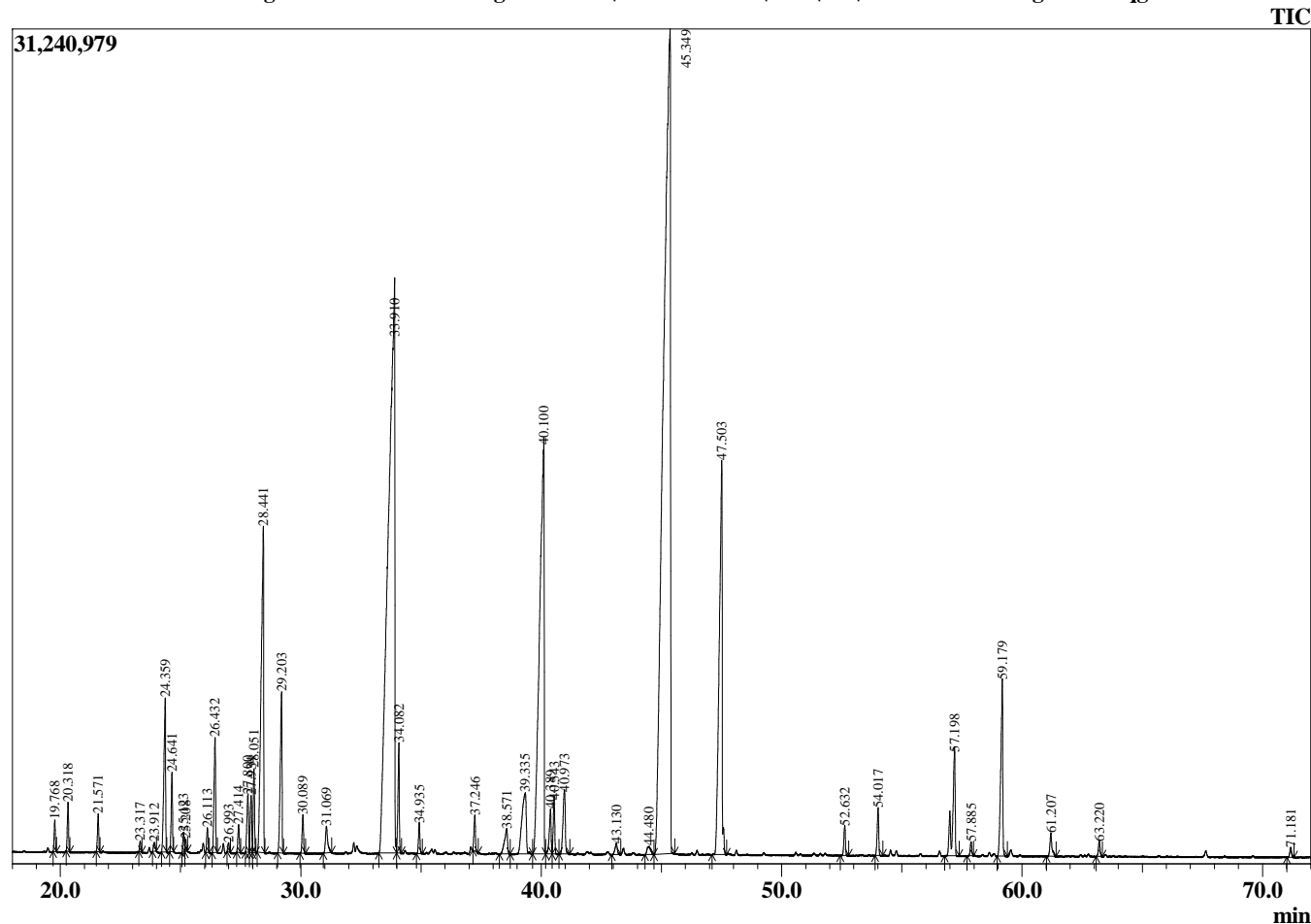


Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 9/26/2012 5:30:23 PM
 Sample Type : Essential Oil
 Sample Name : Lavender Hill Folgate2012
 Sample ID : Lavender Hill Folgate2012
 Injection Volume : 1.00
 Data File : C:\GCMSsolution\Data\EO\Lavender Hill Folgate2012.qgd



Chromatogram Lavender Hill Folgate2012 C:\GCMSsolution\Data\EO\Lavender Hill Folgate2012.qgd



R.Time	Name	Peak Report TIC	Area%
3.859	Water		0.23
19.768	alpha-thujene		0.22
20.318	alpha-pinene		0.37
21.571	Camphene		0.29
23.317	Bicyclo[3.1.0]hexane, 4-methylene-1-(1-met		0.08
23.912	1-Octen-3-ol		0.09
24.359	3-Octanone		1.60
24.641	myrcene		0.61
25.123	butyl butyrate		0.16
25.208	3-Octanol		0.09
26.113	3-Carene		0.20
26.432	hexyl acetate		1.06
26.993	Benzene, 1-methyl-4-(1-methylethyl)-		0.07
27.414	p-cymene		0.24
27.800	D-Limonene		0.60
27.934	beta-phellandrene		0.51
28.051	1,8-cineole		0.66
28.441	cis-ocimene		4.86
29.203	trans-ocimene		1.70
30.089	gamma-terpinene		0.32
31.069	cis-linalool oxide (furanoid)		0.36
33.910	linalool		22.34
34.082	Octen-1-ol, acetate		0.90
34.935	3-Octanol, acetate		0.26
37.246	camphor		0.31
38.571	lavandulol		0.45
39.335	Borneol		1.59
40.100	terpinen-4-ol		11.04
40.389	cryptone		0.50
40.543	hexyl butyrate		0.50
40.973	p-menth-1-en-8-ol		0.87
43.130	2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-		0.15
44.480	Benzaldehyde, 4-(1-methylethyl)-		0.18
45.349	Linalyl acetate		34.60
47.503	lavandulyl acetate		6.82
52.632	neryl acetate		0.28
54.017	geranyl acetate		0.44
57.198	beta-caryophyllene		1.66
57.885	alpha-bergamotene		0.13
59.179	(Z)-beta-farnesene		2.11
61.207	germacrene D		0.28
63.220	beta-cubebene		0.15
71.181	.tau.-Cadinol		0.10
			100.00

Comments: The lavender oil sample was of excellent quality, having a very healthy level of lavandulyl acetate at 6.82%. For reference, a very good French or Bulgarian lavender has about 2-4% lavandulyl acetate. This sample was also highly unusual in that it had the highest level of terpinen-4-ol that I have ever observed in a lavender oil (at 11%). Terpinen-4-ol is the main antibacterial/antifungal component found in tea tree oil (typically around 40% in tea tree). Odor quality was very nice. No adulteration or contamination was detected.