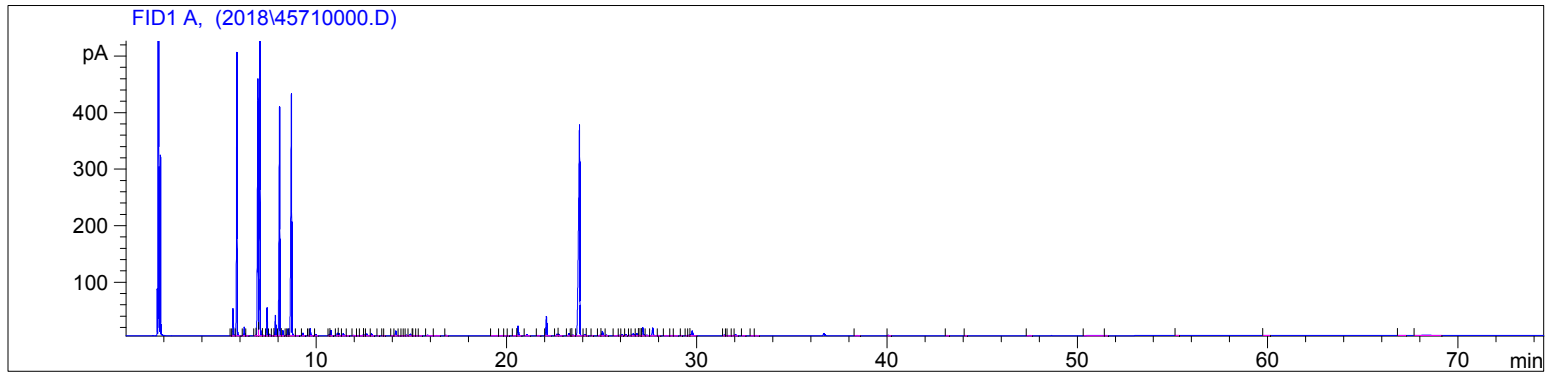


4571-IIAGZ

Instrument 6890

C:\HPCHEM\2\DATA\2019\
45710000.DBlack Pepper (Organic)
4571-IIAGZ
Sri Lanka
piper nigrum
Sample/Solvent: 0.06g/0.60g
Injection: 0.2uL
15:1 Split RatioHP-5 5% Phenyl Methyl Siloxane
30.000m
250.000um
0.250um9/17/2019 1:44:36 PM
9/17/2019 1:44:36 PM10/25/2019
2:05:30 PM

#	Compound Name	Meas. Ret.	Amount	Response	Height	Area	Area %
1		5.51	100.00	1.73	0.79	1.73	0.02
2	alpha thujene	5.62	100.00	105.81	47.90	105.81	1.11
3	alpha pinene	5.83	100.00	1175.00	500.58	1175.00	12.30
4	camphene	6.21	100.00	37.48	15.15	37.48	0.39
5		6.36	100.00	2.54	0.89	2.54	0.03
6		6.83	100.00	3.38	1.52	3.38	0.04
7	sabinene	6.93	100.00	1357.28	454.75	1357.28	14.21
8	beta pinene	7.04	100.00	1377.75	526.84	1377.75	14.43
9		7.21	100.00	5.22	1.12	5.22	0.05
10	myrcene	7.41	100.00	116.22	49.09	116.22	1.22
11		7.53	100.00	7.95	2.74	7.95	0.08
12		7.76	100.00	3.61	0.89	3.61	0.04
13	alpha phellandrene	7.84	100.00	96.76	36.03	96.76	1.01
14	delta-3-carene	8.06	100.00	1141.04	404.67	1141.04	11.95
15		8.24	100.00	25.24	9.05	25.24	0.26
16		8.41	100.00	2.92	1.04	2.92	0.03
17	para cymene	8.50	100.00	35.97	11.83	35.97	0.38
18	limonene	8.69	100.00	1365.07	428.24	1365.07	14.30
19		8.95	100.00	2.54	0.70	2.54	0.03
20	trans-beta ocimene	9.31	100.00	12.58	4.83	12.58	0.13
21		9.61	100.00	1.18	0.47	1.18	0.01
22	gamma terpinene	9.69	100.00	34.73	12.71	34.73	0.36
23		9.98	100.00	6.76	2.37	6.76	0.07
24		10.69	100.00	5.47	1.96	5.47	0.06
25	terpinolene	10.77	100.00	30.14	10.01	30.14	0.32
26		11.12	100.00	13.95	4.64	13.95	0.15
27		11.20	100.00	14.15	4.27	14.15	0.15
28		11.43	100.00	13.26	4.01	13.26	0.14
29		11.64	100.00	1.44	0.32	1.44	0.02
30		11.97	100.00	4.80	1.01	4.80	0.05
31		12.17	100.00	2.03	0.46	2.03	0.02
32		12.45	100.00	4.66	1.37	4.66	0.05
33		12.52	100.00	4.25	1.19	4.25	0.04
34		12.66	100.00	15.58	3.47	15.58	0.16
35		12.91	100.00	12.34	3.44	12.34	0.13
36		13.25	100.00	1.75	0.42	1.75	0.02

Black Pepper (Organic)
4571-IIIAGZ
Sri Lanka
piper nigrum
Sample/Solvent: 0.06g/0.60g
Injection: 0.2uL
15:1 Split Ratio

HP-5 5% Phenyl Methyl Siloxane
30.000m
250.000um
0.250um

9/17/2019 1:44:36 PM
9/17/2019 1:44:36 PM

10/25/2019
2:05:30 PM

#	Compound Name	Meas. Ret.	Amount	Response	Height	Area	Area %
37		13.51	100.00	2.46	0.63	2.46	0.03
38		13.58	100.00	1.11	0.34	1.11	0.01
39		14.02	100.00	2.75	0.62	2.75	0.03
40	terpin-4-ol	14.19	100.00	29.41	8.38	29.41	0.31
41		14.36	100.00	2.15	0.43	2.15	0.02
42		14.52	100.00	2.22	0.59	2.22	0.02
43		14.63	100.00	1.84	0.41	1.84	0.02
44	alpha terpineol	14.73	100.00	4.97	1.32	4.97	0.05
45		14.95	100.00	13.55	2.84	13.55	0.14
46		15.06	100.00	0.84	0.31	0.84	0.01
47		15.16	100.00	2.98	0.48	2.98	0.03
48		15.31	100.00	1.50	0.27	1.50	0.02
49		15.43	100.00	2.85	0.67	2.85	0.03
50		15.86	100.00	5.19	1.08	5.19	0.05
51		16.33	100.00	3.33	0.69	3.33	0.03
52		16.82	100.00	5.89	1.57	5.89	0.06
53		19.50	100.00	5.78	0.46	5.78	0.06
54		19.76	100.00	4.43	0.45	4.43	0.05
55		19.91	100.00	2.83	0.30	2.83	0.03
56		20.08	100.00	1.75	0.28	1.75	0.02
57		20.52	100.00	4.22	0.70	4.22	0.04
58	trans-piperitol acetate	20.61	100.00	57.81	17.08	57.81	0.61
59	alpha cubebene	21.08	100.00	8.84	2.50	8.84	0.09
60		21.66	100.00	3.88	0.87	3.88	0.04
61	alpha copaene	22.10	100.00	116.28	33.75	116.28	1.22
62	beta cubebene	22.66	100.00	10.03	2.88	10.03	0.11
63	beta elemene	22.75	100.00	10.72	2.80	10.72	0.11
64		23.29	100.00	14.55	3.88	14.55	0.15
65		23.40	100.00	3.55	0.98	3.55	0.04
66		23.49	100.00	5.73	1.21	5.73	0.06
67	beta caryophyllene	23.84	100.00	1784.16	372.82	1784.16	18.68
68		24.12	100.00	11.44	1.94	11.44	0.12
69		24.22	100.00	1.88	0.52	1.88	0.02
70		24.51	100.00	2.54	0.61	2.54	0.03
71		24.93	100.00	4.53	1.07	4.53	0.05
72	alpha humulene	25.04	100.00	29.46	8.16	29.46	0.31
73		25.26	100.00	4.50	1.06	4.50	0.05
74		25.83	100.00	2.78	0.60	2.78	0.03
75	gamma muurolene	25.94	100.00	4.06	1.00	4.06	0.04
76	germacrene D	26.09	100.00	9.52	2.50	9.52	0.10
77	beta selinene	26.27	100.00	7.47	2.03	7.47	0.08
78		26.48	100.00	3.81	1.02	3.81	0.04
79		26.67	100.00	22.62	3.74	22.62	0.24
80		26.85	100.00	17.43	3.57	17.43	0.18
81		26.97	100.00	3.57	0.75	3.57	0.04
82		27.09	100.00	2.66	0.69	2.66	0.03
83	beta bisabolene	27.18	100.00	51.27	14.32	51.27	0.54
84		27.38	100.00	5.80	1.12	5.80	0.06
85	delta cadinene	27.69	100.00	50.04	13.43	50.04	0.52
86		27.99	100.00	3.18	0.87	3.18	0.03
87		28.42	100.00	2.30	0.40	2.30	0.02
88		28.67	100.00	2.86	0.66	2.86	0.03
89		28.85	100.00	2.50	0.48	2.50	0.03
90		29.19	100.00	2.28	0.58	2.28	0.02
91		29.47	100.00	1.58	0.39	1.58	0.02

4571-IIAGZ

Instrument 6890

C:\HPCHEM\2\DATA\2019\
45710000.D

Black Pepper (Organic)
4571-IIAGZ
Sri Lanka
piper nigrum
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Injection: 0.2uL
15:1 Split Ratio

HP-5 5% Phenyl Methyl Siloxane
30.000m
250.000um
0.250um

9/17/2019 1:44:36 PM
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2:05:30 PM

#	Compound Name	Meas. Ret.	Amount	Response	Height	Area	Area %
92		29.60	100.00	4.18	1.08	4.18	0.04
93	caryophyllene oxide	29.77	100.00	40.62	8.50	40.62	0.43
94		31.43	100.00	6.37	1.36	6.37	0.07
95		31.53	100.00	0.99	0.25	0.99	0.01
96		31.67	100.00	3.81	0.79	3.81	0.04
97		31.89	100.00	2.78	0.65	2.78	0.03
98		32.04	100.00	8.40	2.13	8.40	0.09
99		32.42	100.00	1.41	0.30	1.41	0.01
100		32.90	100.00	2.00	0.38	2.00	0.02
101		33.12	100.00	3.44	0.56	3.44	0.04
102		38.42	100.00	2.24	0.47	2.24	0.02
103		40.08	100.00	4.46	1.08	4.46	0.05
104		43.15	100.00	1.60	0.39	1.60	0.02
105		44.12	100.00	1.10	0.29	1.10	0.01
106		47.51	100.00	1.64	0.38	1.64	0.02
107		50.89	100.00	17.07	0.57	17.07	0.18
108		51.50	100.00	1.91	0.44	1.91	0.02
109		55.23	100.00	2.11	0.46	2.11	0.02
110		59.95	100.00	3.02	0.39	3.02	0.03
111		67.01	100.00	2.68	0.25	2.68	0.03
112		68.29	100.00	26.97	0.79	26.97	0.28

