LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.383	83	91	105	rBV3	640212	1028603	5.15%	0.822%
2	1.466	106	117	126	rVV	347635	398214	1.99%	0.318%
3	1.540	135	140	150	rVB2	39663	58209	0.29%	0.046%
4	1.672	173	181	193	rVB	294972	373611	1.87%	0.298%
5	1.749	197	205	214	rVB	188085	241912	1.21%	0.193%
6	1.942	256	265	275	rVV3	105335	183483	0.92%	0.147%
7	1.997	275	282	289	rVV	43087	61330	0.31%	0.049%
8	2.039	289	295	304	rVB	44834	58144	0.29%	0.046%
9	2.174	328	337	347	rVV	160801	239350	1.20%	0.191%
10	2.257	348	363	372	rVV	513034	859966	4.31%	0.687%
11	2.305	372	378	391	rVB	246888	382599	1.92%	0.306%
12	2.682	482	495	502	rVV6	47215	128513	0.64%	0.103%
13	2.730	504	510	516	rVV3	41224	73950	0.37%	0.059%
14	2.775	516	524	549	rVB6	69759	182216	0.91%	0.146%
15	2.977	572	587	598	rBV3	34461	75367	0.38%	0.060%
16	3.164	632	645	666	rBV3	105239	241538	1.21%	0.193%
17	3.424	705	726	741	rBV	184248	503675	2.52%	0.402%
18	3.540	751	762	778	rVB5	39571	101799	0.51%	0.081%
19	3.868	853	864	877	rVB4	25700	55869	0.28%	0.045%
20	3.965	882	894	911	rBV2	77126	185884	0.93%	0.148%
21	4.067	913	926	940	rBV2	73884	181661	0.91%	0.145%
22	4.148	940	951	976	rBV	259332	789352	3.95%	0.631%
23	4.620	1079	1098	1117	rVV	379992	908560	4.55%	0.726%
24	4.756	1128	1140	1158	rVB2	69420	162017	0.81%	0.129%
25	4.971	1193	1207	1222	rBV4	52856	131259	0.66%	0.105%
26	5.318	1291	1315	1321	rBV2	806042	2295130	11.49%	1.833%
27	5.366	1321	1330	1350	rVB	1604804	3417561	17.11%	2.730%
28	5.527	1363	1380	1391	rBV2	105612	244808	1.23%	0.196%
29	5.762	1436	1453	1470	rBV6	29974	93002	0.47%	0.074%
30	5.865	1471	1485	1498	rBV	659607	1300775	6.51%	1.039%
31	6.167	1567	1579	1605	rVB10	62251	202421	1.01%	0.162%
32	6.309	1605	1623	1638	rBV	551193	1123200	5.62%	0.897%
33	6.399	1638	1651	1665	rVB5	78476	184405	0.92%	0.147%
34	6.511	1676	1686	1695	rBV3	70730	134988	0.68%	0.108%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Title : VOC Analysis

35	6.681	1727	1739	1765	rBV	2207796	3936113	19.71%	3.144%
36	7.045	1840	1852	1861	rBV4	40191	76691	0.38%	0.061%
37	7.206	1887	1902	1919	rBV	323321	593584	2.97%	0.474%
38	7.399	1951	1962	1969	rBV	249338	435847	2.18%	0.348%
39	7.437	1970	1974	1988	rVB	174799	277744	1.39%	0.222%
40	7.543	1988	2007	2017	rBV	1116177	1953198	9.78%	1.560%
41	7.614	2017	2029	2046	rVB	12121229	19971494	100.00%	15.954%
42	7.826	2079	2095	2107	rVV2	286718	535590	2.68%	0.428%
43	7.894	2108	2116	2138	rVB7	77238	240632	1.20%	0.192%
44	8.135	2180	2191	2204	rBV	301397	497504	2.49%	0.397%
45	8.209	2204	2214	2220	rBV4	92366	150983	0.76%	0.121%
46	8.289	2229	2239	2254	rBV	986840	1650200	8.26%	1.318%
47	8.395	2262	2272	2281	rBV	626585	969985	4.86%	0.775%
48	8.444	2281	2287	2300	rVB5	114358	198984	1.00%	0.159%
49	8.508	2301	2307	2321	rVB2	39749	65890	0.33%	0.053%
50	8.884	2407	2424	2436	rBV	591869	944367	4.73%	0.754%
51	9.067	2456	2481	2517	rBV2	1032880	2339277	11.71%	1.869%
52	9.228	2518	2531	2553	rBV	2392700	3783404	18.94%	3.022%
53	9.350	2555	2569	2586	rBV	9157285	14939098	74.80%	11.934%
54	9.476	2602	2608	2617	rVB3	51373	78650	0.39%	0.063%
55	9.755	2683	2695	2727	rVB	5500910	8739024	43.76%	6.981%
56	10.009	2763	2774	2785	rBV8	56069	124491	0.62%	0.099%
57	10.144	2803	2816	2827	rVB	204929	327808	1.64%	0.262%
58	10.408	2886	2898	2913	rBV	737637	1193002	5.97%	0.953%
59	10.562	2935	2946	2960	rBV	509421	838386	4.20%	0.670%
60	10.656	2963	2975	2994	rVV	2197713	4679388	23.43%	3.738%
61	10.749	2994	3004	3022	rVB	1108118	1738852	8.71%	1.389%
62	10.897	3040	3050	3056	rBV	114819	181919	0.91%	0.145%
63	10.948	3056	3066	3084	rVB	1121798	1791085	8.97%	1.431%
64	11.125	3109	3121	3136	rBV	4741294	7166927	35.89%	5.725%
65	11.238	3150	3156	3163	rBV4	30601	55709	0.28%	0.045%
66	11.305	3170	3177	3179	rBV2	53792	64592	0.32%	0.052%
67	11.402	3200	3207	3215	rVB3	133078	201994	1.01%	0.161%
68	11.459	3215	3225	3241	rVB	1057399	1785208	8.94%	1.426%
69	11.546	3241	3252	3266	rVB	1720773	2615065	13.09%	2.089%
70	11.742	3300	3313	3322	rBV2	1347203	2459447	12.31%	1.965%
71	11.849	3333	3346	3369	rVB6	1820757	4281389	21.44%	3.420%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Title : VOC Analysis

72	11.958	3370	3380	3392	rVV	230261	384827	1.93%	0.307%
73	12.032	3395	3403	3414	rVB	145415	233784	1.17%	0.187%
74	12.122	3420	3431	3436	rBV	317009	499261	2.50%	0.399%
75	12.154	3437	3441	3451	rVB	265725	349347	1.75%	0.279%
76	12.228	3454	3464	3471	rBV	438928	669473	3.35%	0.535%
77	12.331	3486	3496	3518	rBV2	311957	611241	3.06%	0.488%
78	12.527	3548	3557	3569	rVB	175063	283331	1.42%	0.226%
79	12.627	3581	3588	3596	rVV	298649	443876	2.22%	0.355%
80	12.678	3596	3604	3623	rVB	499509	760069	3.81%	0.607%
81	12.942	3677	3686	3697	rVB	373165	552193	2.76%	0.441%
82	13.099	3716	3735	3747	rBV3	878811	1517218	7.60%	1.212%
83	13.164	3749	3755	3766	rVB4	95464	148028	0.74%	0.118%
84	13.266	3778	3787	3810	rVB5	254505	520750	2.61%	0.416%
85	13.379	3811	3822	3831	rBV7	81051	151245	0.76%	0.121%
86	13.434	3831	3839	3847	rBV2	70742	109372	0.55%	0.087%
87	13.488	3847	3856	3863	rBV4	110928	185983	0.93%	0.149%
88	13.588	3881	3887	3893	rBV2	59749	74121	0.37%	0.059%
89	13.720	3915	3928	3952	rBV	3392275	5382029	26.95%	4.299%
90	13.836	3954	3964	3979	rVV2	155551	295491	1.48%	0.236%
91	13.922	3981	3991	4006	rVV9	75487	178410	0.89%	0.143%
92	13.990	4007	4012	4021	rVB3	42338	59660	0.30%	0.048%
93	14.131	4048	4056	4068	rVB2	79510	126680	0.63%	0.101%
94	14.315	4103	4113	4124	rBV4	78408	169726	0.85%	0.136%
95	14.453	4150	4156	4166	rVB4	33247	55325	0.28%	0.044%
96	14.514	4167	4175	4188	rVB4	87846	151082	0.76%	0.121%
97	14.655	4212	4219	4228	rVB5	38583	62910	0.31%	0.050%
98	14.855	4270	4281	4309	rVV	942960	1591808	7.97%	1.272%
99	15.038	4327	4338	4354	rVV	645225	1048507	5.25%	0.838%
100	16.038	4641	4649	4656	rBV4	49796	80522	0.40%	0.064%

Sum of corrected areas: 125183161

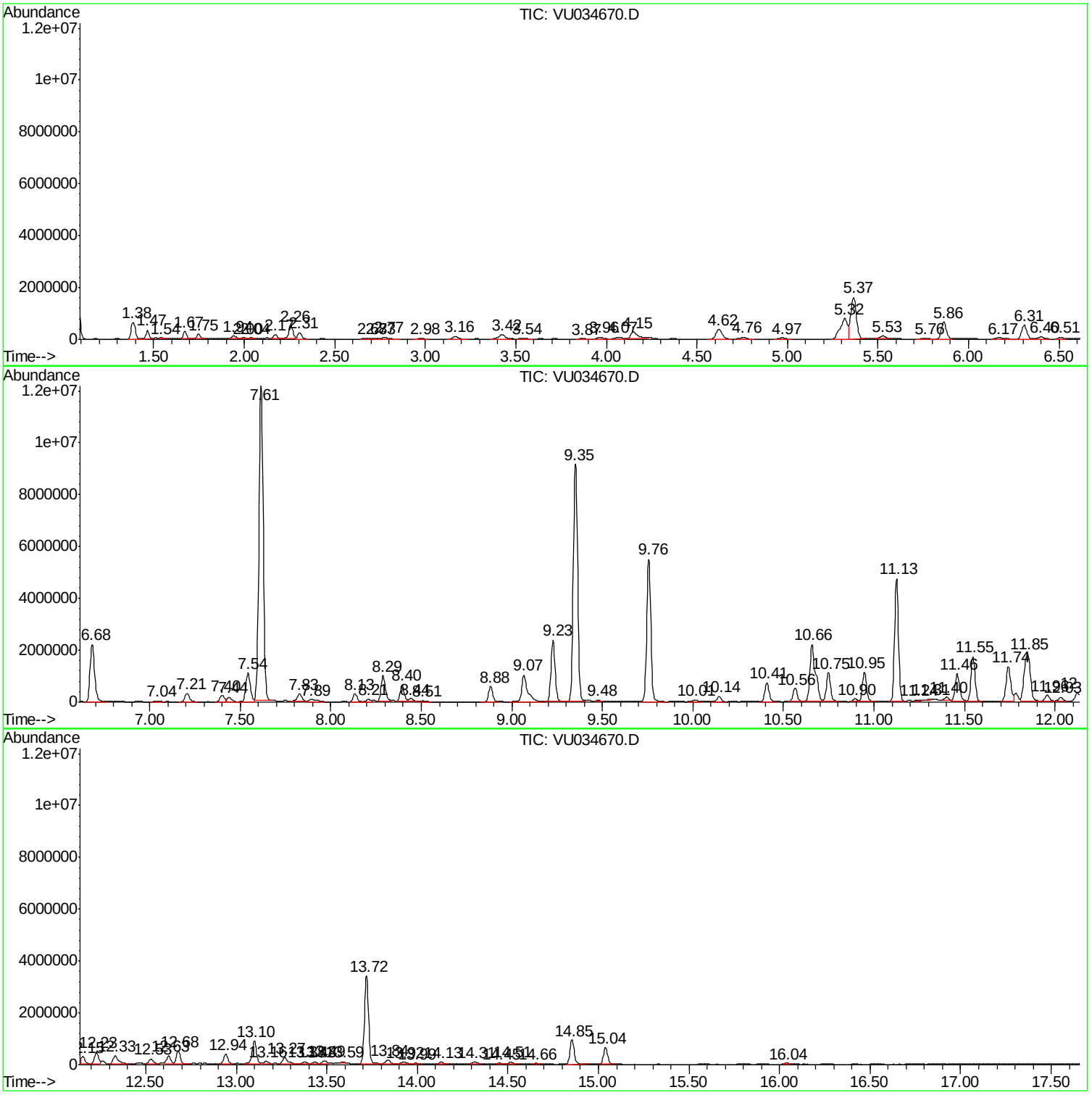
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

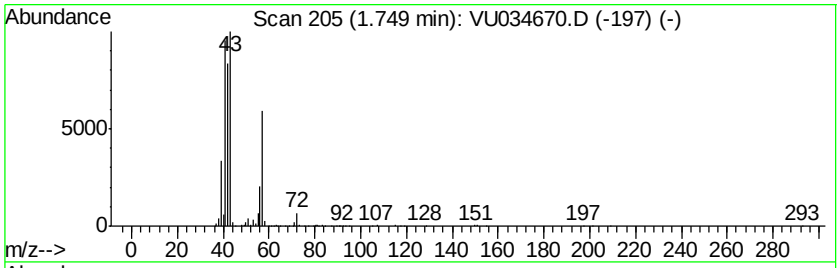
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

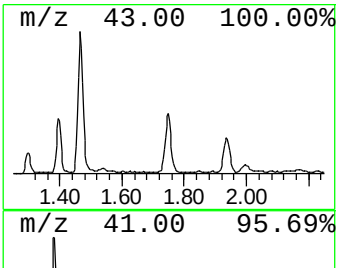
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	9.30 ug/L	241912	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	Butane, 2-methyl-	72	C5H12	000078-78-4	90
4	3-Buten-1-ol	72	C4H8O	000627-27-0	47
5	Pentane	72	C5H12	000109-66-0	36





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

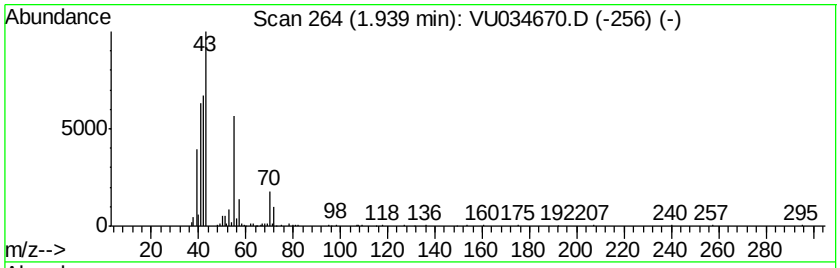
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

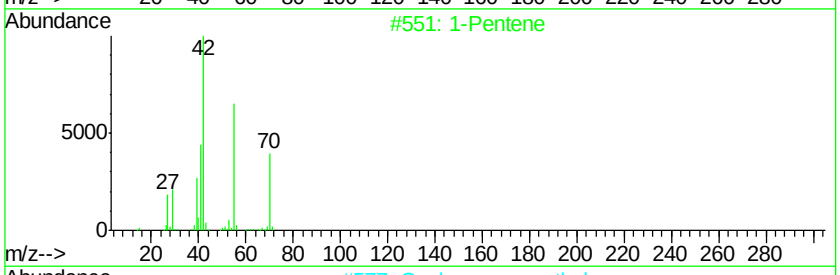
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

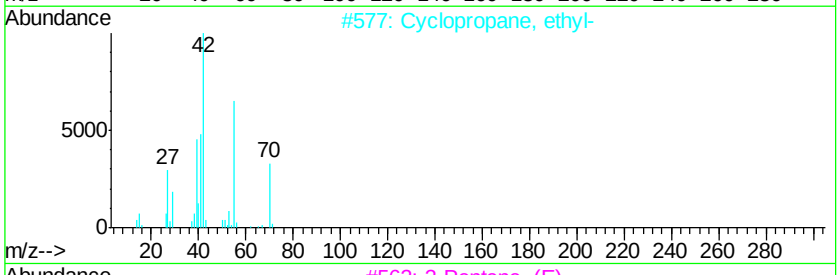
****
Peak Number 3 (DEL) Alkane: Cyclic1.94 Concentration Rank 34

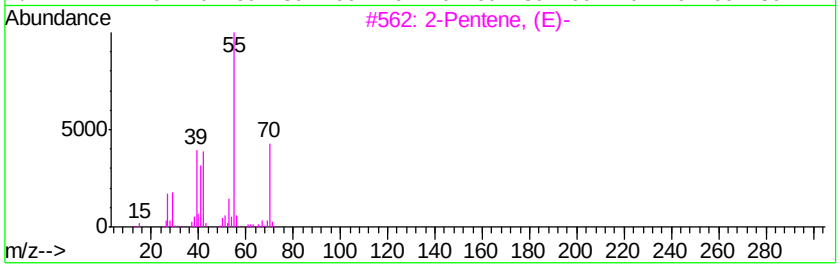
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.94	7.05 ug/L	183483	1,4-Difluorobenzene	5.86

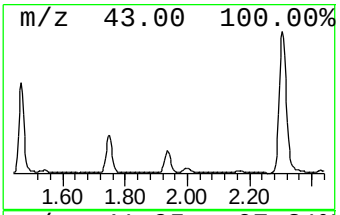
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene	70	C5H10	000109-67-1	47
2	Cyclopropane, ethyl-	70	C5H10	001191-96-4	47
3	2-Pentene, (E)-	70	C5H10	000646-04-8	47
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	43
5	2-Pentene, (Z)-	70	C5H10	000627-20-3	43

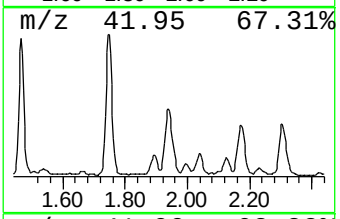


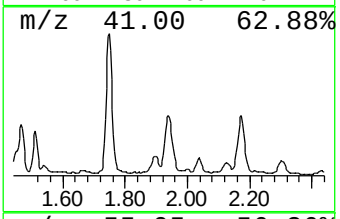


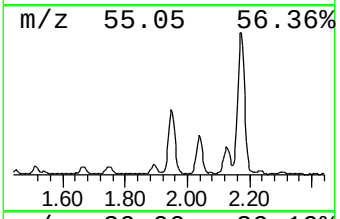


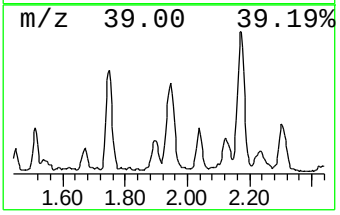












Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

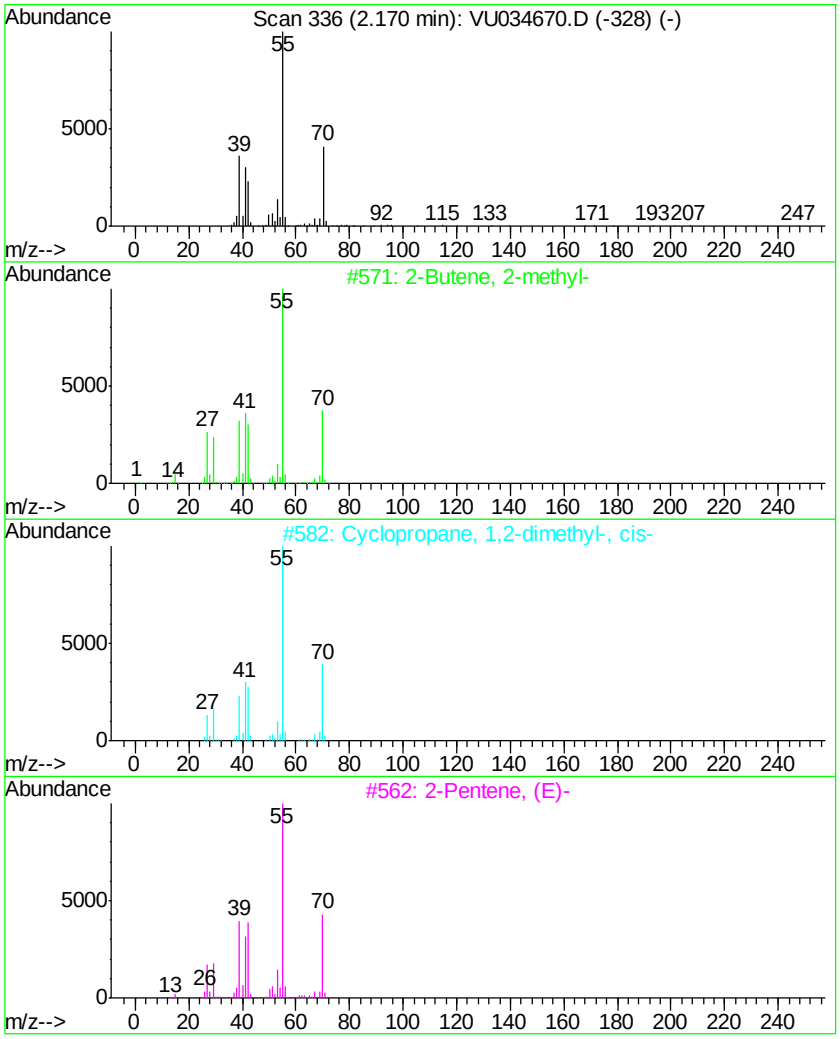
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

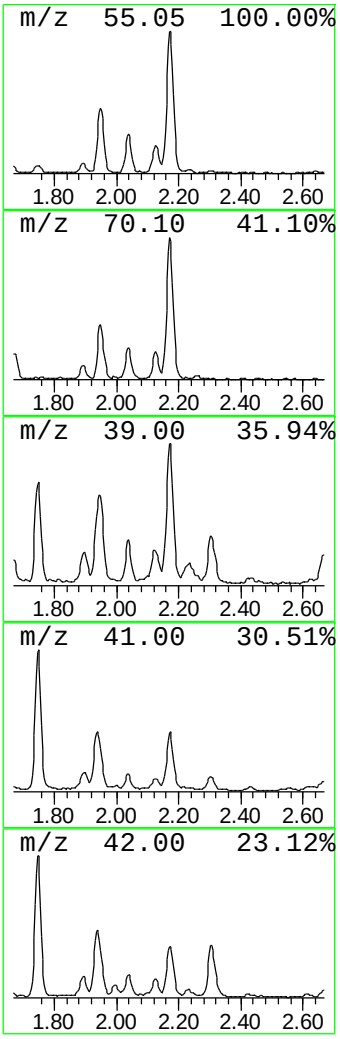
****

Peak Number 4 (DEL) Alkane: Cyclic2.17 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.17	9.20 ug/L	239350	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene, 2-methyl-	70	C5H10	000513-35-9	91
2	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	91
3	2-Pentene, (E)-	70	C5H10	000646-04-8	91
4	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	87
5	1-Butene, 3-methyl-	70	C5H10	000563-45-1	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

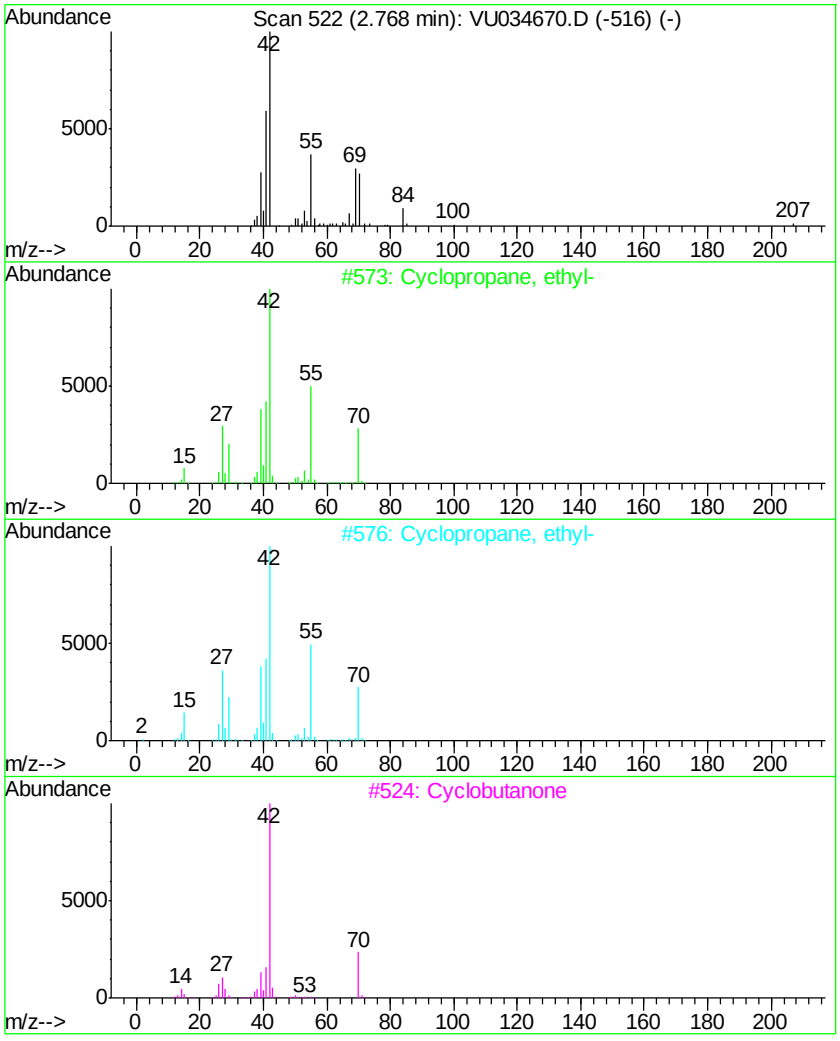
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

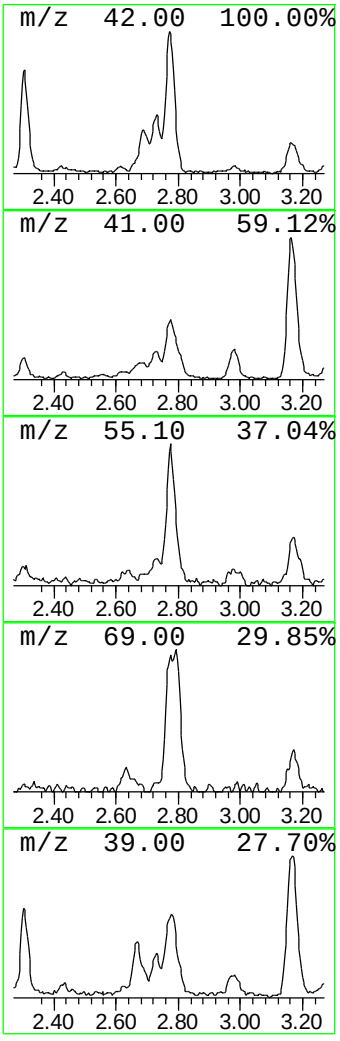
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Cyclic2.77 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.77	7.00 ug/L	182216	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, ethyl-	70	C5H10	001191-96-4	72
2	Cyclopropane, ethyl-	70	C5H10	001191-96-4	72
3	Cyclobutanone	70	C4H6O	001191-95-3	59
4	1-Pentene	70	C5H10	000109-67-1	59
5	1-Pentene	70	C5H10	000109-67-1	59





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

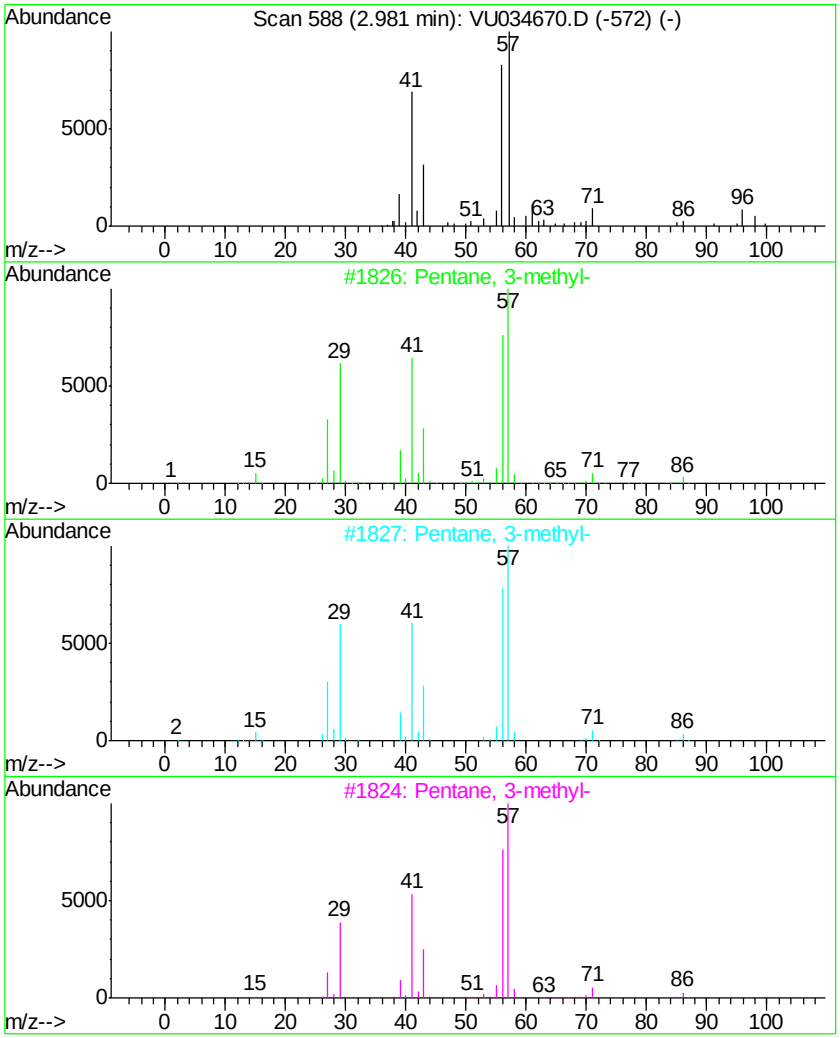
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

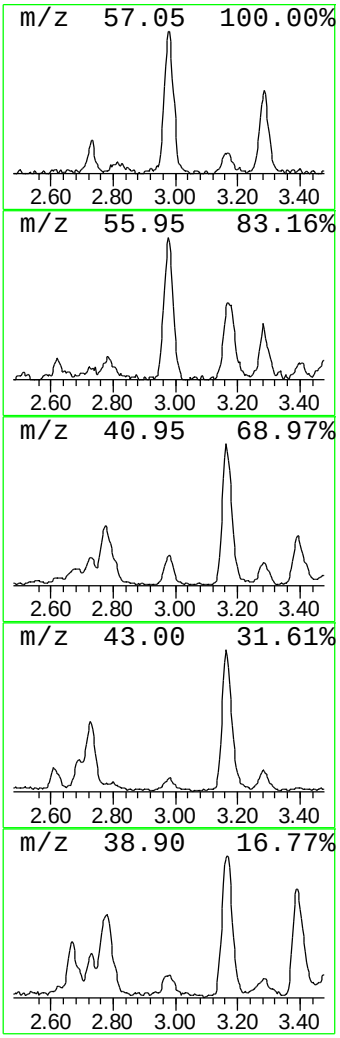
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	2.90 ug/L	75367	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	74
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	74
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	72
4	1-Hexene, 4-methyl-	98	C7H14	003769-23-1	58
5	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	50





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

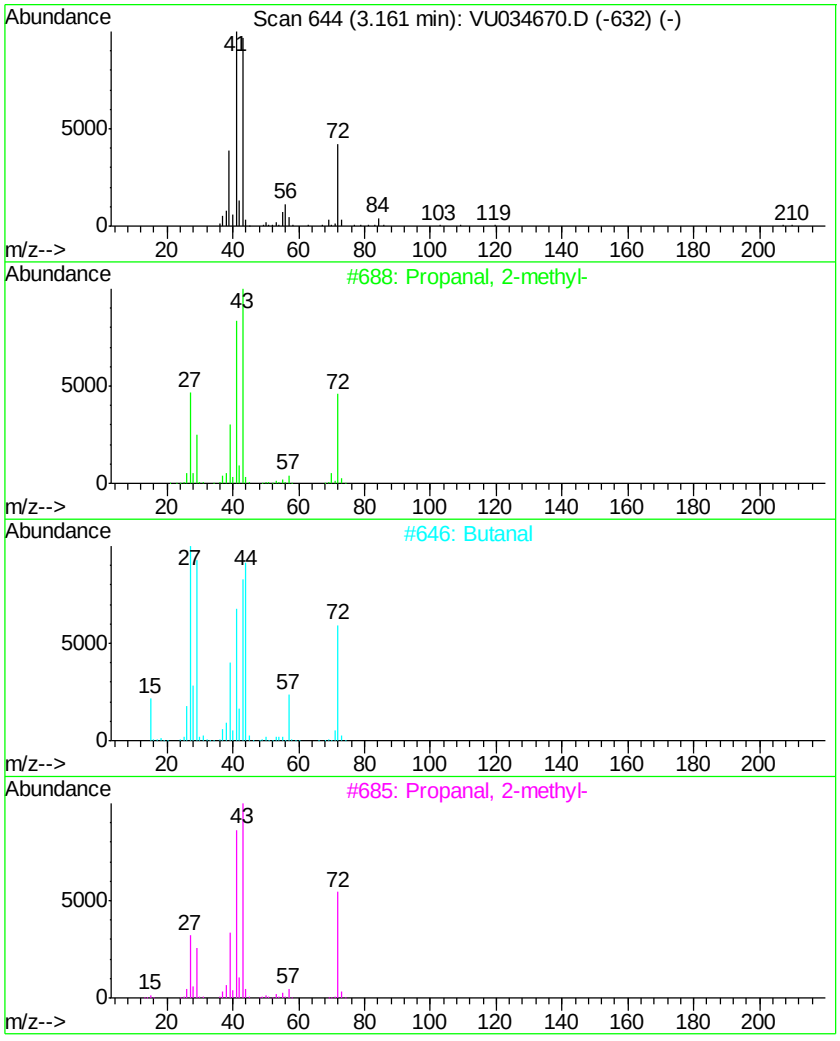
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

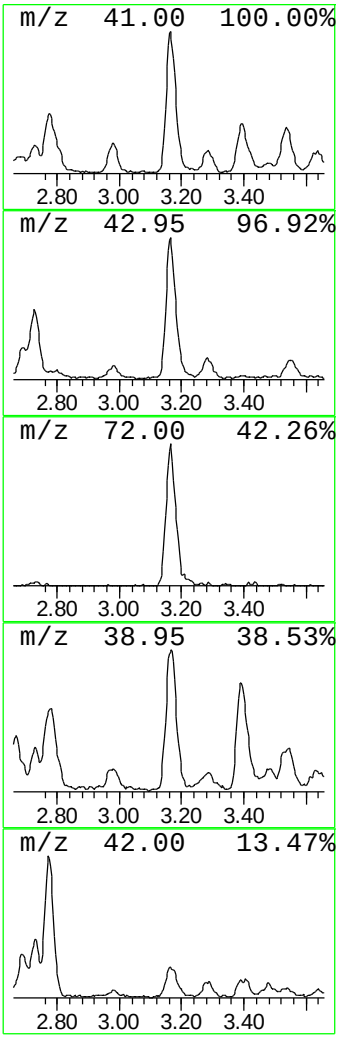
****

Peak Number 7 Propanal, 2-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.16	9.28 ug/L	241538	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 2-methyl-	72	C4H8O	000078-84-2	83
2	Butanal	72	C4H8O	000123-72-8	59
3	Propanal, 2-methyl-	72	C4H8O	000078-84-2	49
4	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	47
5	Propanal, 2-methyl-	72	C4H8O	000078-84-2	43





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

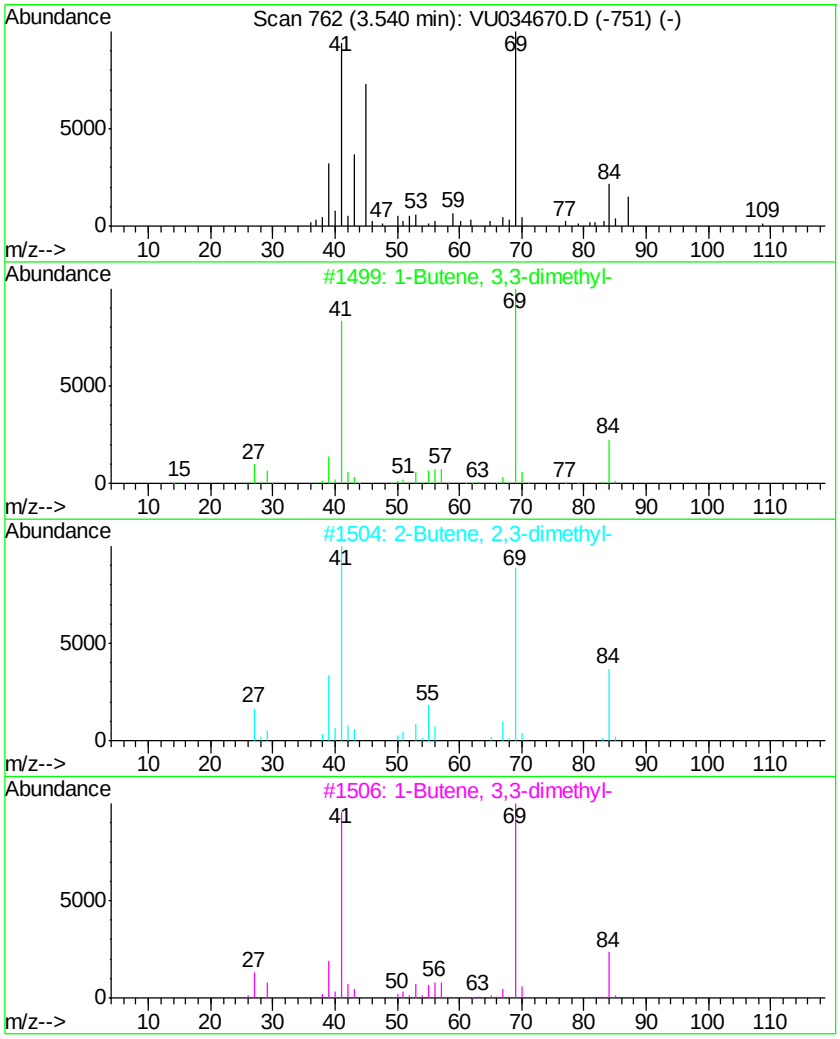
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

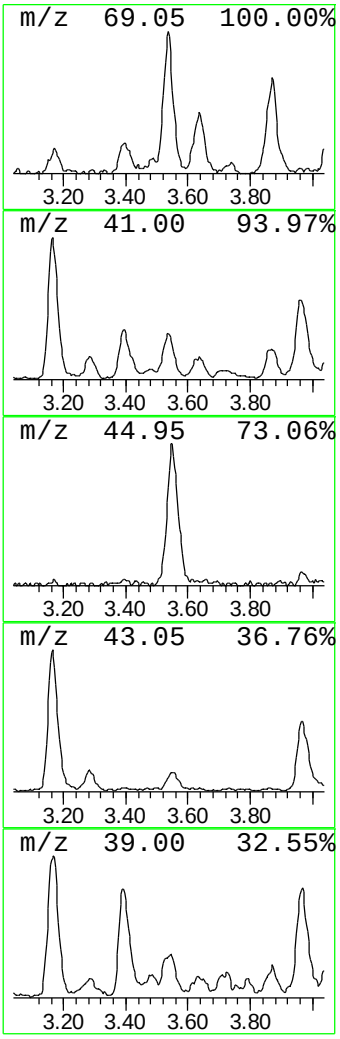
****

Peak Number 8 (DEL) Alkane: Cyclic3.54 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.54	3.91 ug/L	101799	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	52
2	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	50
3	1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	50
4	2-Pentene, 4-methyl-	84	C6H12	004461-48-7	50
5	2-Pentene, 4-methyl-, (E)-	84	C6H12	000674-76-0	47





Library Search Compound Report

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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

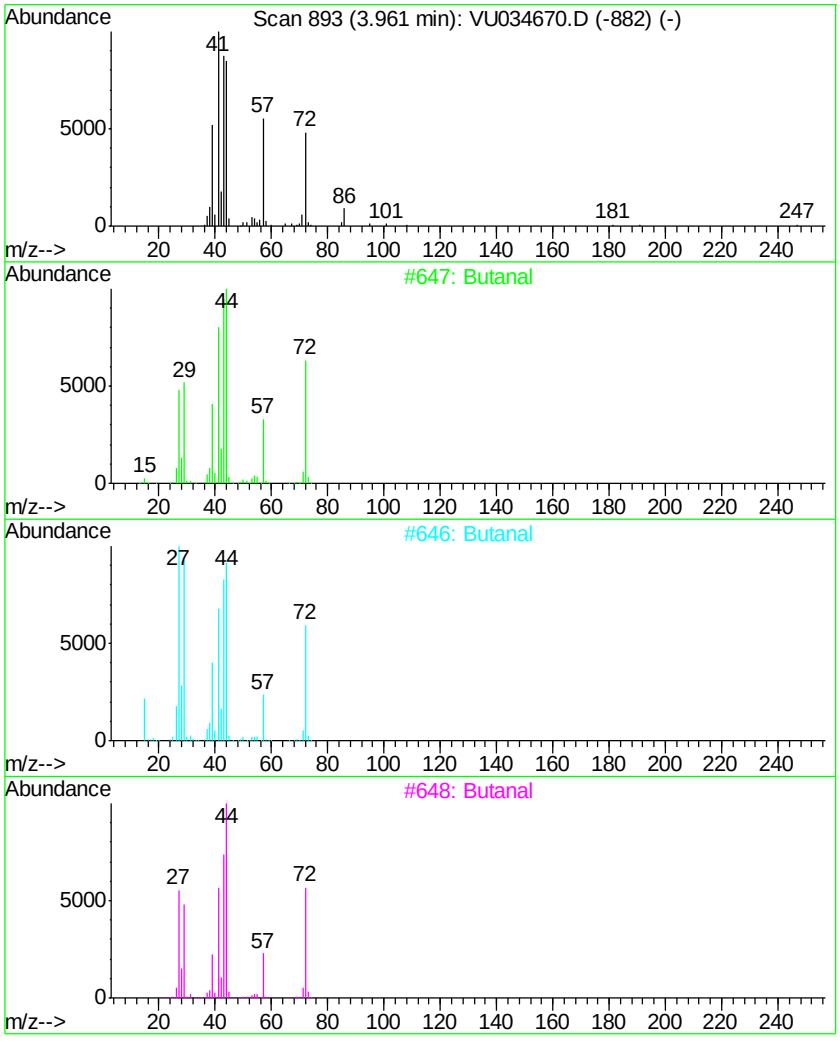
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

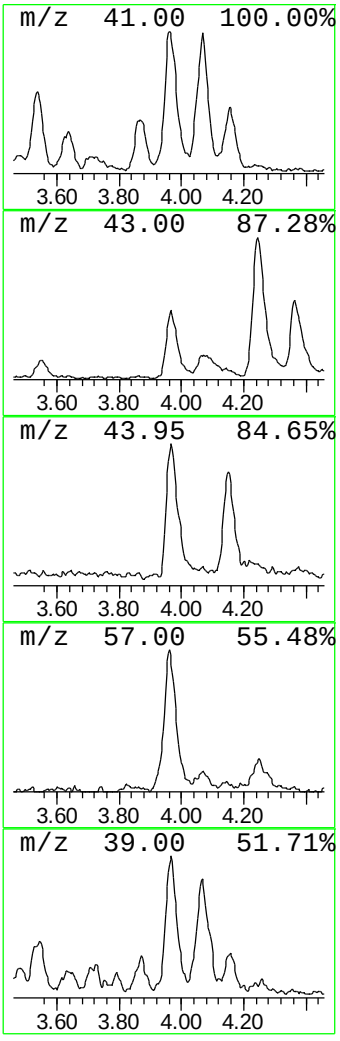
****

Peak Number 9 Butanal Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.96	7.15 ug/L	185884	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	59
2	Butanal	72	C4H8O	000123-72-8	52
3	Butanal	72	C4H8O	000123-72-8	50
4	Butanal	72	C4H8O	000123-72-8	50
5	Propane	44	C3H8	000074-98-6	43





Library Search Compound Report

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Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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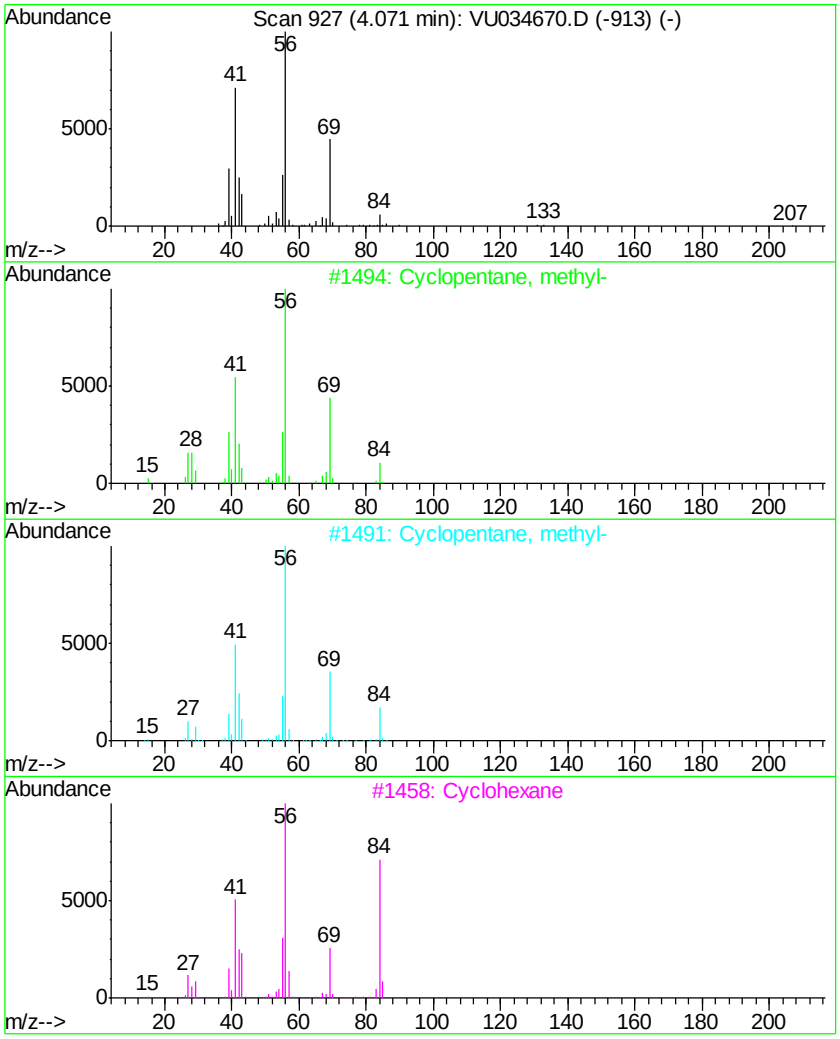
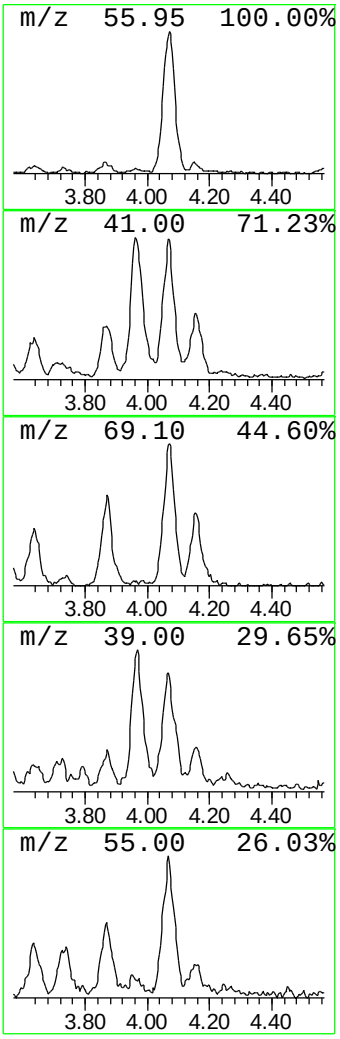
Peak Number 10 (DEL) Alkane: Cyclic4.07 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.07	6.98 ug/L	181661	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
3	Cyclohexane	84	C6H12	000110-82-7	72
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	64





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Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

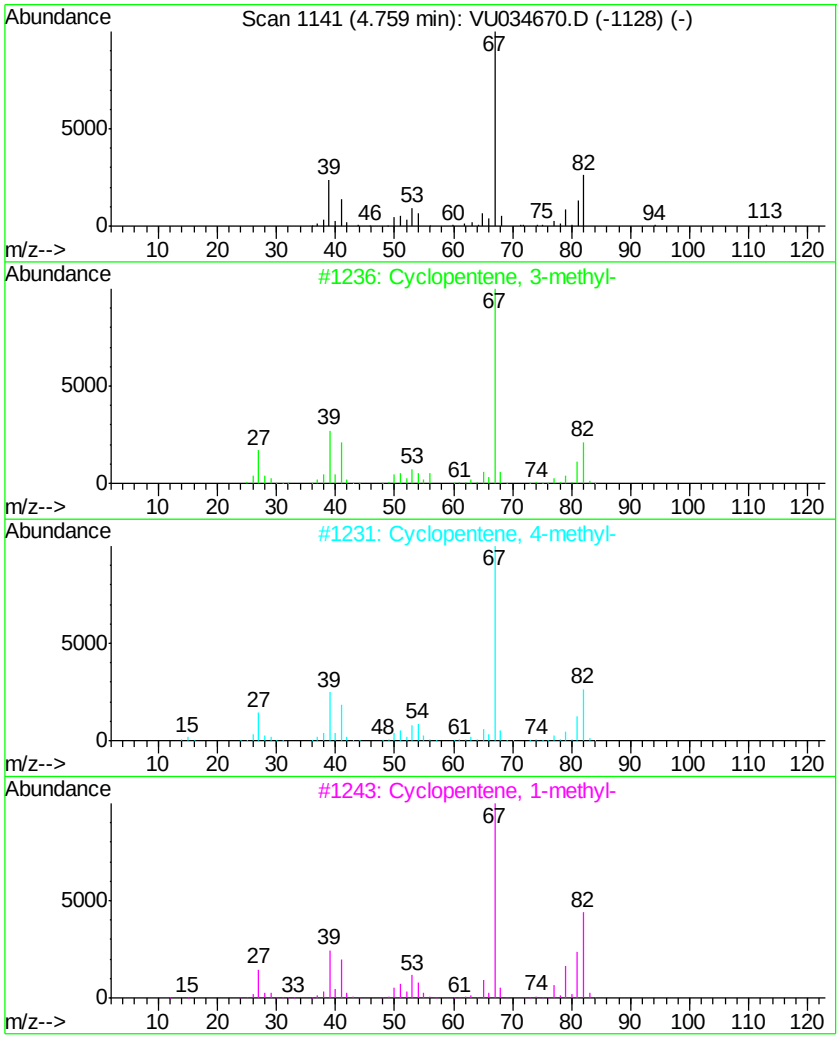
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

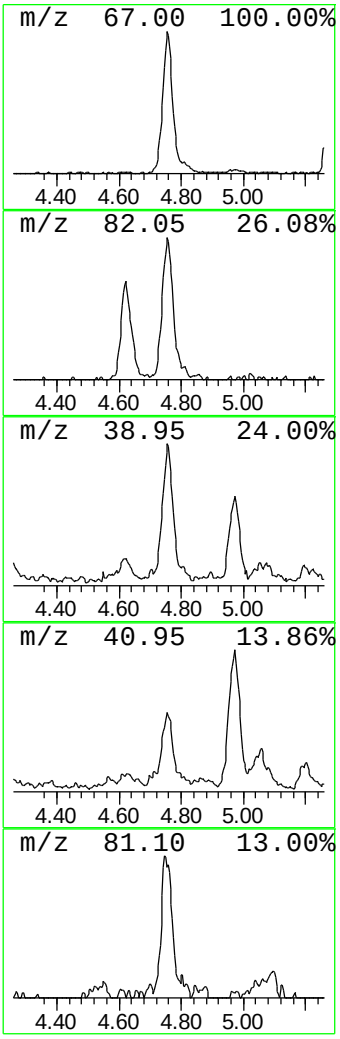
****

Peak Number 11 Cyclopentene, 3-methyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.76	6.23 ug/L	162017	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	91
2	Cyclopentene, 4-methyl-	82	C6H10	001759-81-5	90
3	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	87
4	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	87
5	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	87





Library Search Compound Report

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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

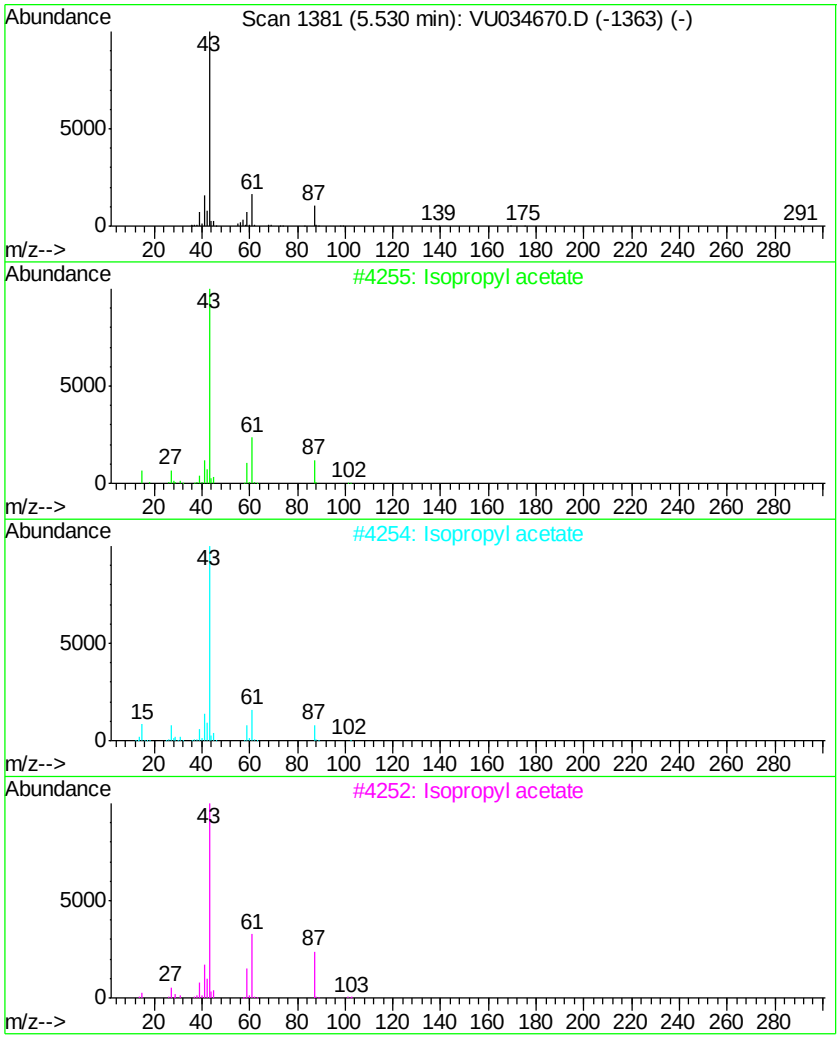
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

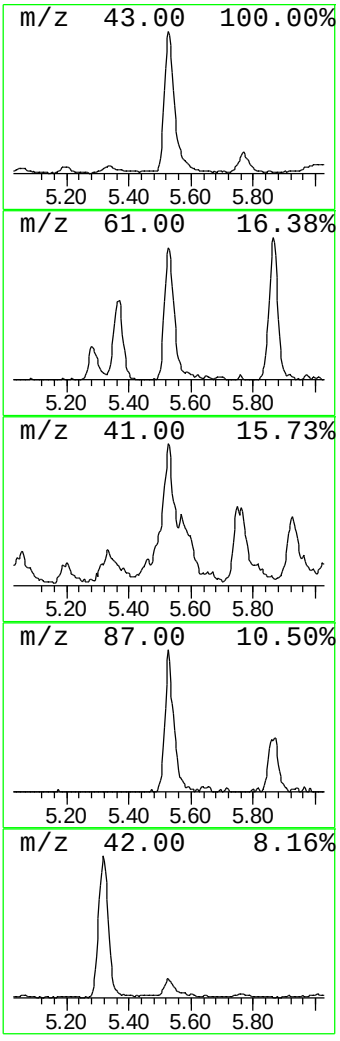
****

Peak Number 12 Isopropyl acetate Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.53	9.41 ug/L	244808	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl acetate	102	C5H10O2	000108-21-4	72
2	Isopropyl acetate	102	C5H10O2	000108-21-4	42
3	Isopropyl acetate	102	C5H10O2	000108-21-4	38
4	Isopropyl acetate	102	C5H10O2	000108-21-4	38
5	Acetaldehyde, O-ethyloxime-	87	C4H9NO	1000288-34-6	9





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Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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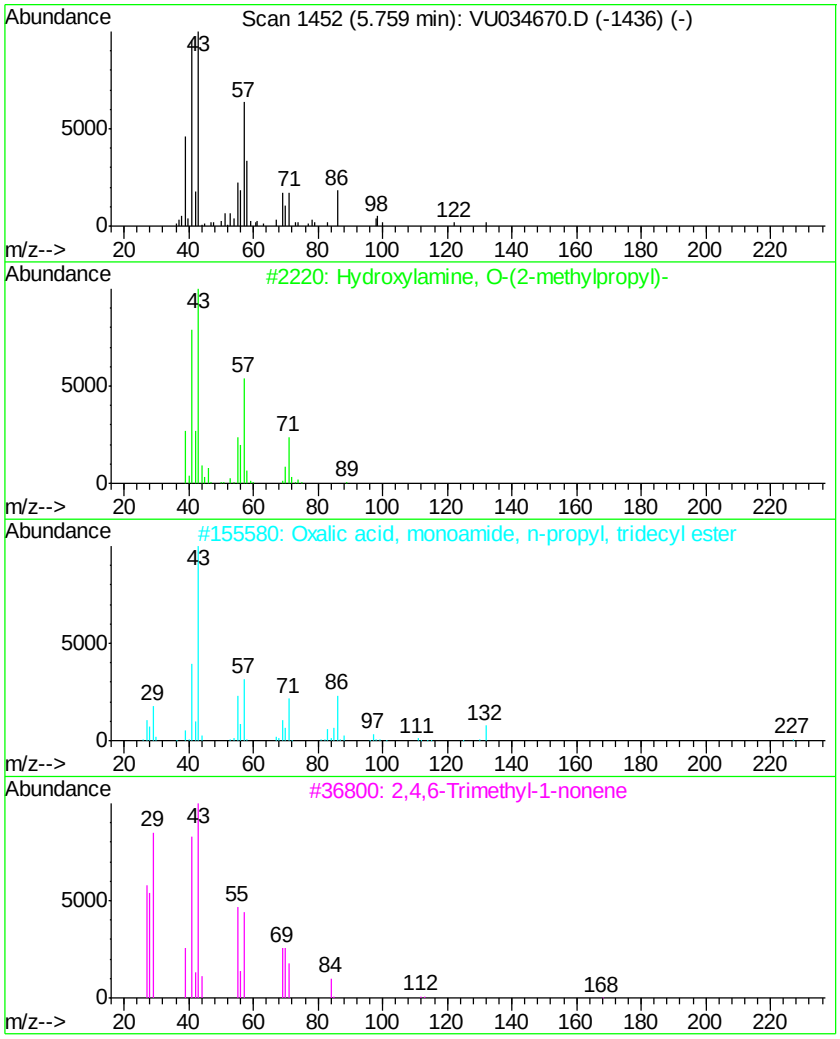
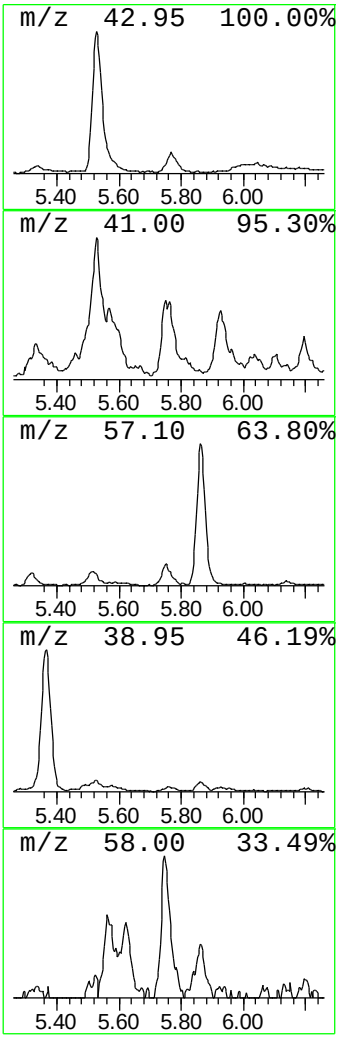
Peak Number 13 unknown-01 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.76	3.57 ug/L	93002	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydroxylamine, O-(2-methylpropyl)-	89	C4H11NO	005618-62-2	38
2	Oxalic acid, monoamide, n-propyl...	313	C18H35NO3	1000309-65-2	38
3	2,4,6-Trimethyl-1-nonene	168	C12H24	055771-40-9	37
4	Oxalic acid, monoamide, n-propyl...	341	C20H39NO3	1000309-25-8	33
5	Oxirane, [(tetradecyloxy)methyl]-	270	C17H34O2	038954-75-5	25





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Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

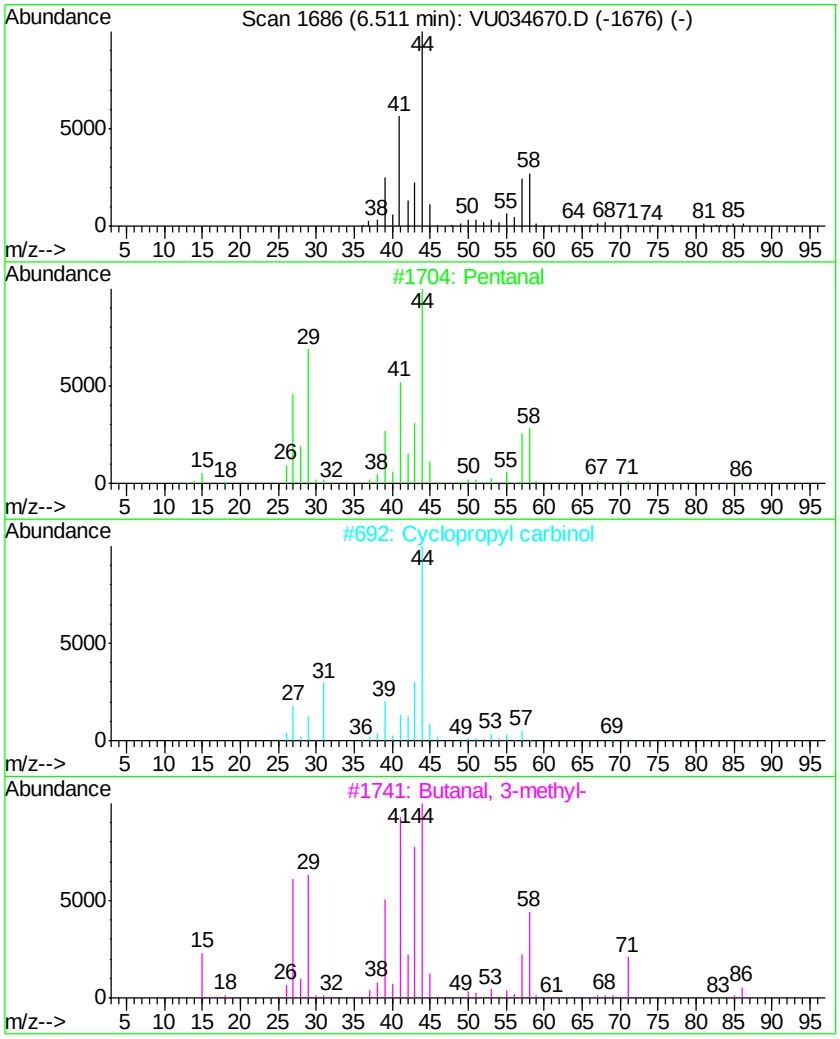
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

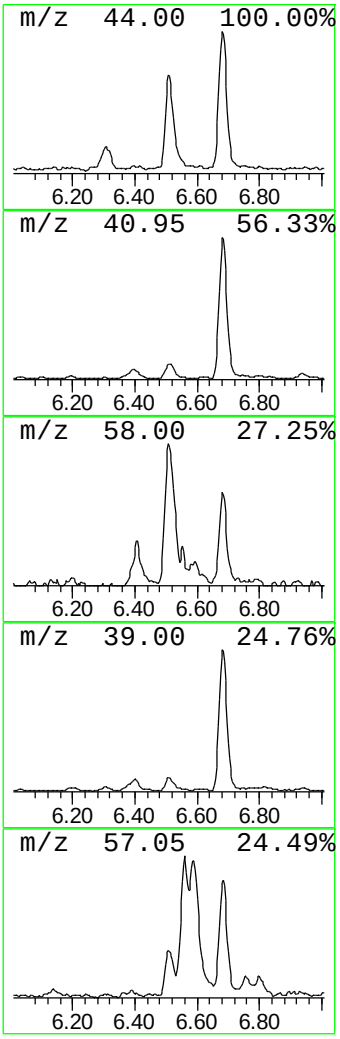
****

Peak Number 14 Pentanal Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.51	5.19 ug/L	134988	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal	86	C5H10O	000110-62-3	91
2	Cyclopropyl carbinol	72	C4H8O	002516-33-8	45
3	Butanal, 3-methyl-	86	C5H10O	000590-86-3	40
4	Butanal, 3-methyl-	86	C5H10O	000590-86-3	38
5	Pentanal	86	C5H10O	000110-62-3	38





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

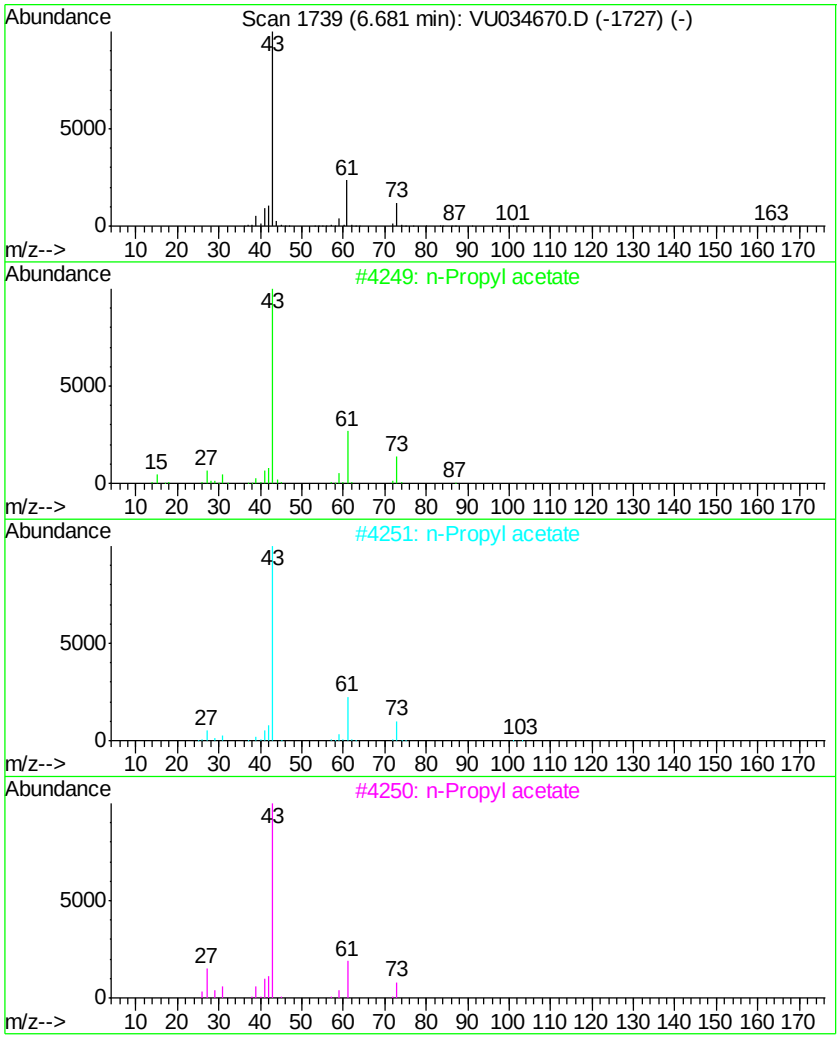
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

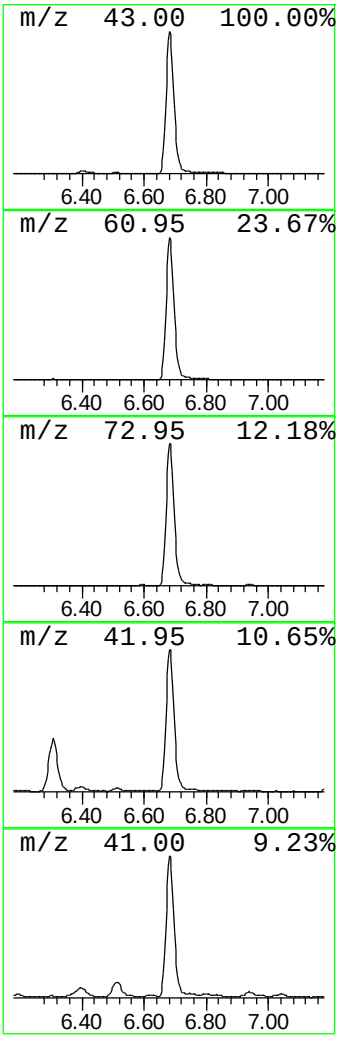
****

Peak Number 15 n-Propyl acetate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.68	151.30 ug/L	3936110	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Propyl acetate	102	C5H10O2	000109-60-4	83
2	n-Propyl acetate	102	C5H10O2	000109-60-4	78
3	n-Propyl acetate	102	C5H10O2	000109-60-4	72
4	Isopropyl acetate	102	C5H10O2	000108-21-4	38
5	Isopropyl acetate	102	C5H10O2	000108-21-4	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

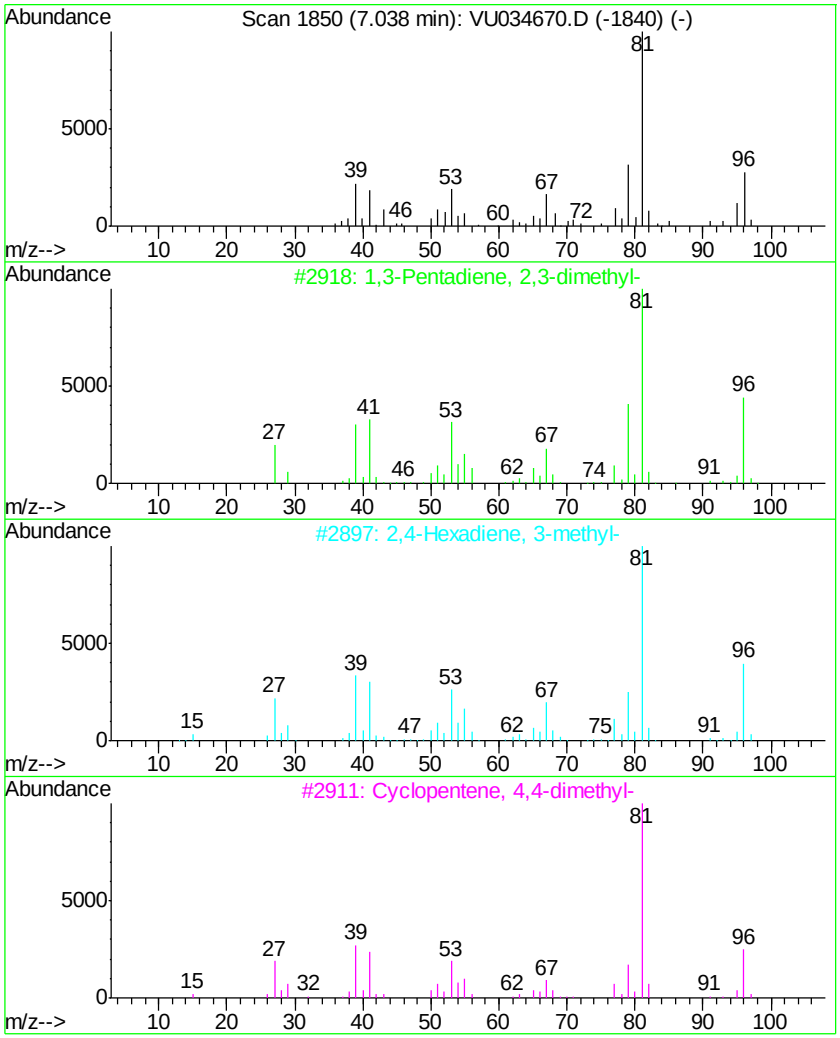
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

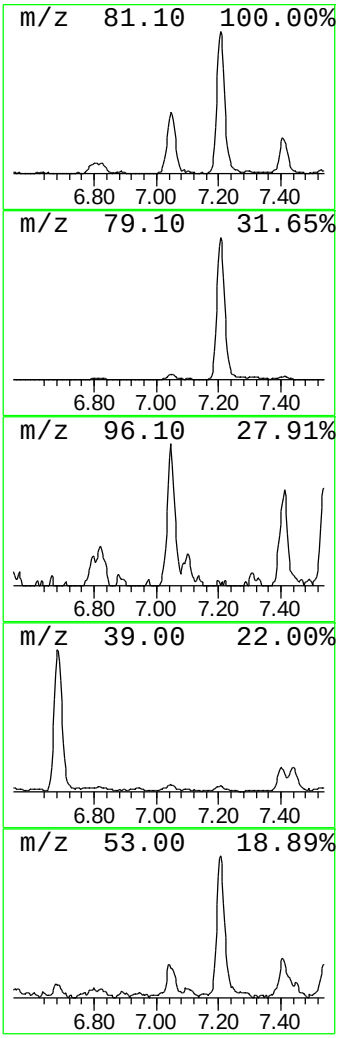
****

Peak Number 16 1,3-Pentadiene, 2,3-dimethyl- Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.04	2.95 ug/L	76691	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Pentadiene, 2,3-dimethyl-	96	C7H12	001113-56-0	90
2	2,4-Hexadiene, 3-methyl-	96	C7H12	028823-42-9	90
3	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	87
4	2,4-Heptadiene, (E,E)-	96	C7H12	002384-94-3	86
5	2-Pentyne, 4,4-dimethyl-	96	C7H12	000999-78-0	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

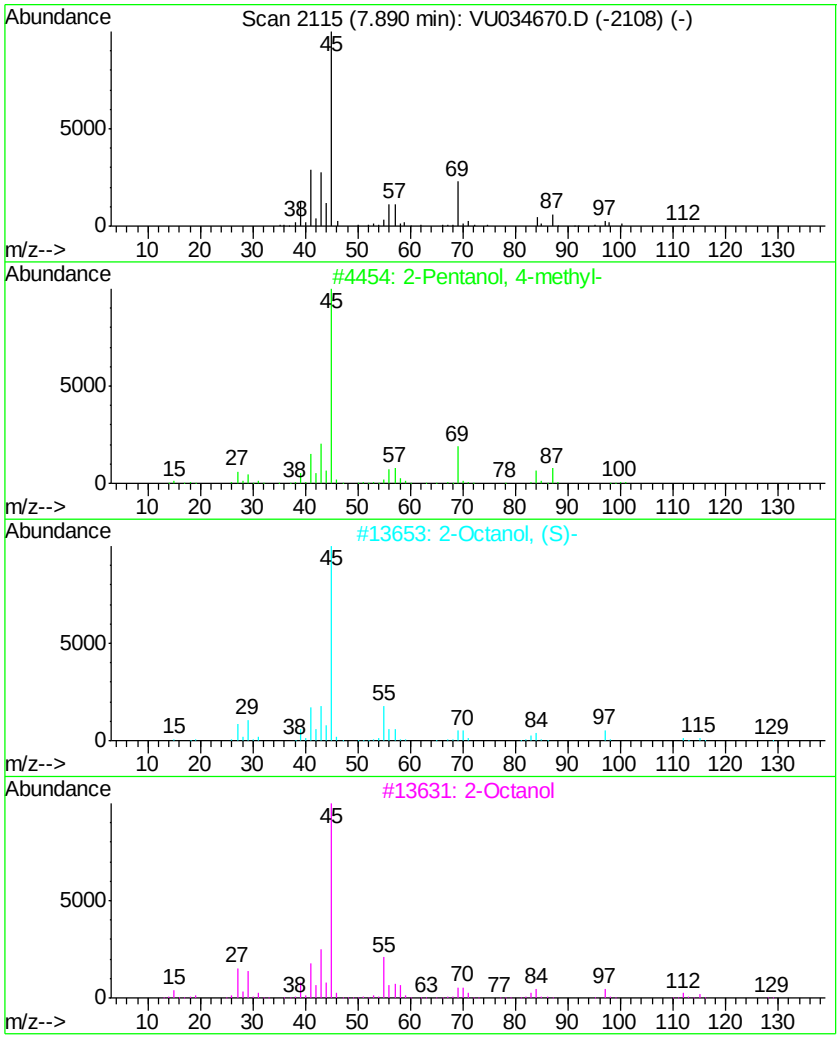
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

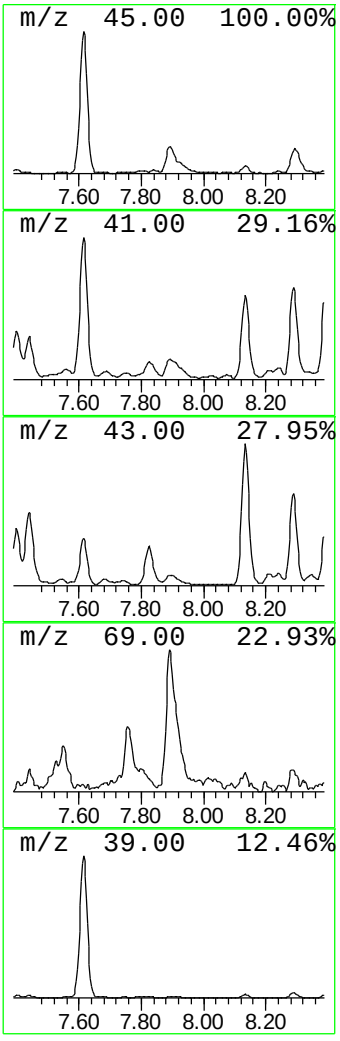
****

Peak Number 18 2-Pentanol, 4-methyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.89	5.14 ug/L	240632	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 4-methyl-	102	C6H14O	000108-11-2	86
2	2-Octanol, (S)-	130	C8H18O	006169-06-8	78
3	2-Octanol	130	C8H18O	000123-96-6	78
4	2-Octanol, (R)-	130	C8H18O	005978-70-1	78
5	2-Nonanol	144	C9H20O	000628-99-9	78





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

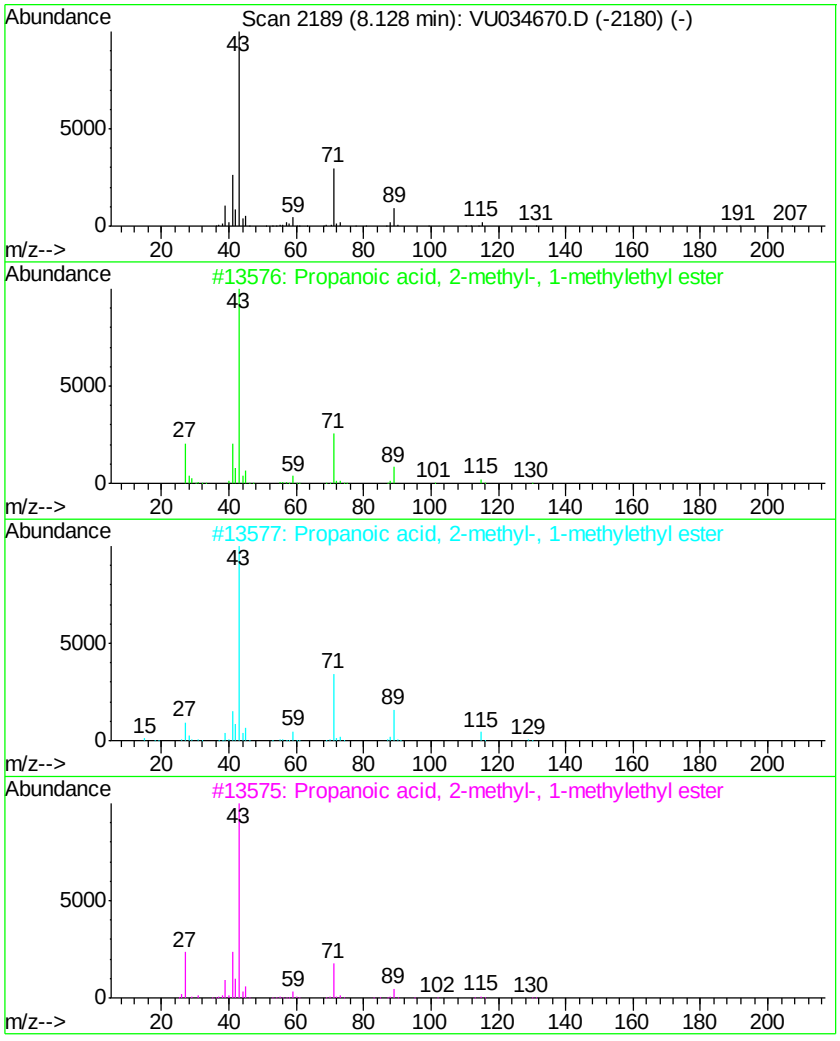
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

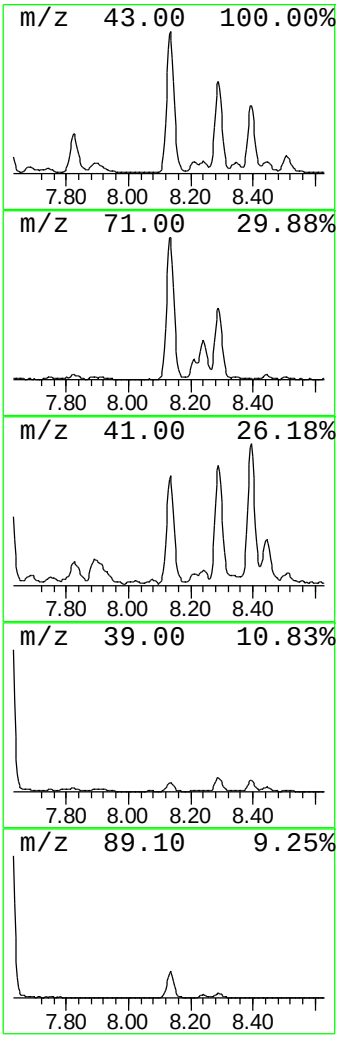
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 Propanoic acid, 2-methyl-, ... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.13	10.63 ug/L	497504	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-met...	130	C7H14O2	000617-50-5	83
2	Propanoic acid, 2-methyl-, 1-met...	130	C7H14O2	000617-50-5	83
3	Propanoic acid, 2-methyl-, 1-met...	130	C7H14O2	000617-50-5	53
4	Propanoic acid, 2-methyl-, penty...	158	C9H18O2	002445-72-9	39
5	2,3-Hexanedione	114	C6H10O2	003848-24-6	38





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

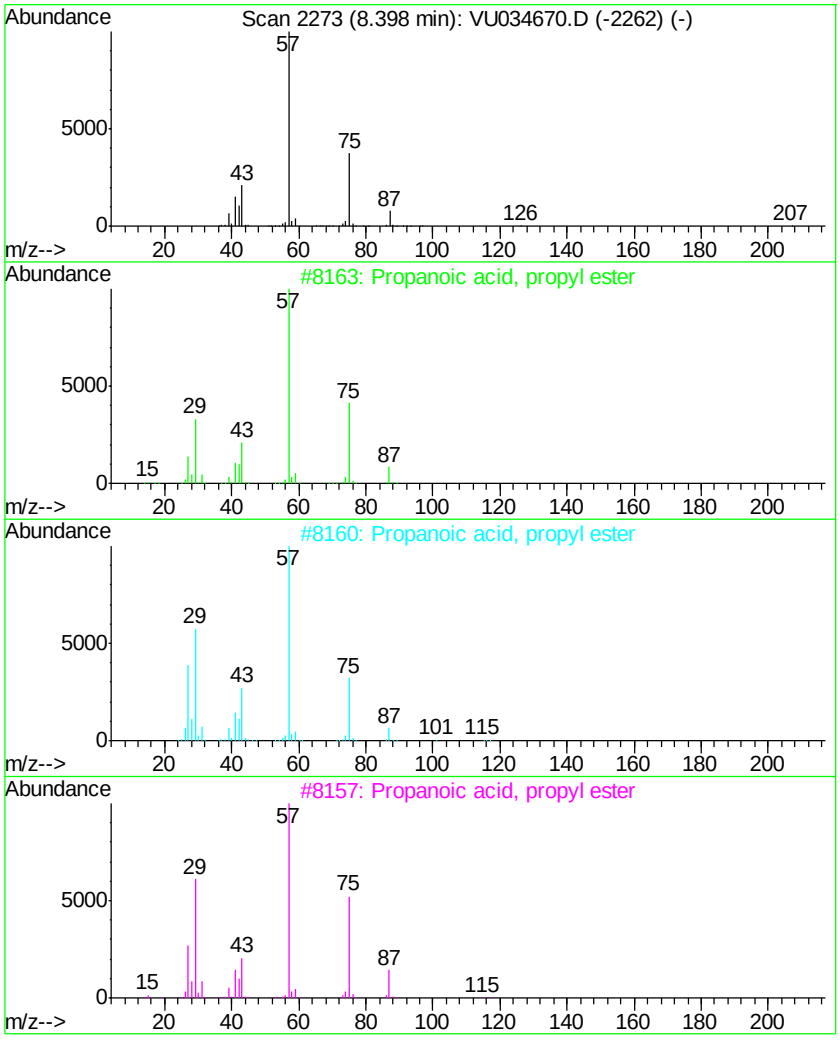
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

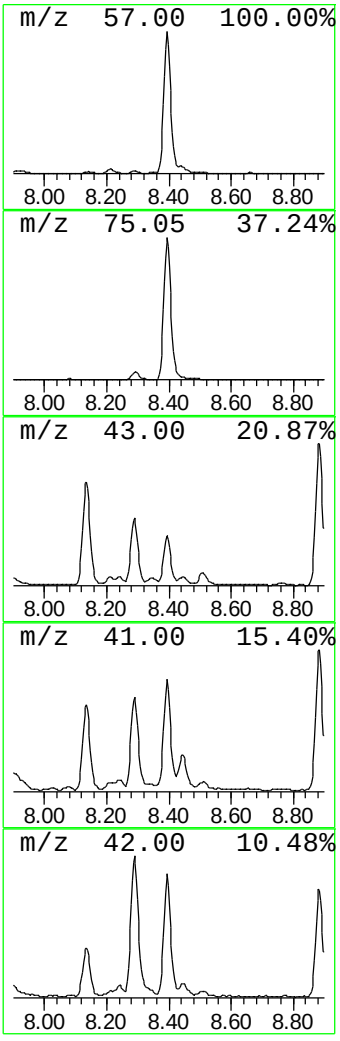
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Propanoic acid, propyl ester Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.40	20.73 ug/L	969985	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, propyl ester	116	C6H12O2	000106-36-5	83
2	Propanoic acid, propyl ester	116	C6H12O2	000106-36-5	83
3	Propanoic acid, propyl ester	116	C6H12O2	000106-36-5	78
4	Propanoic acid, propyl ester	116	C6H12O2	000106-36-5	72
5	Propanoic acid, butyl ester	130	C7H14O2	000590-01-2	36





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

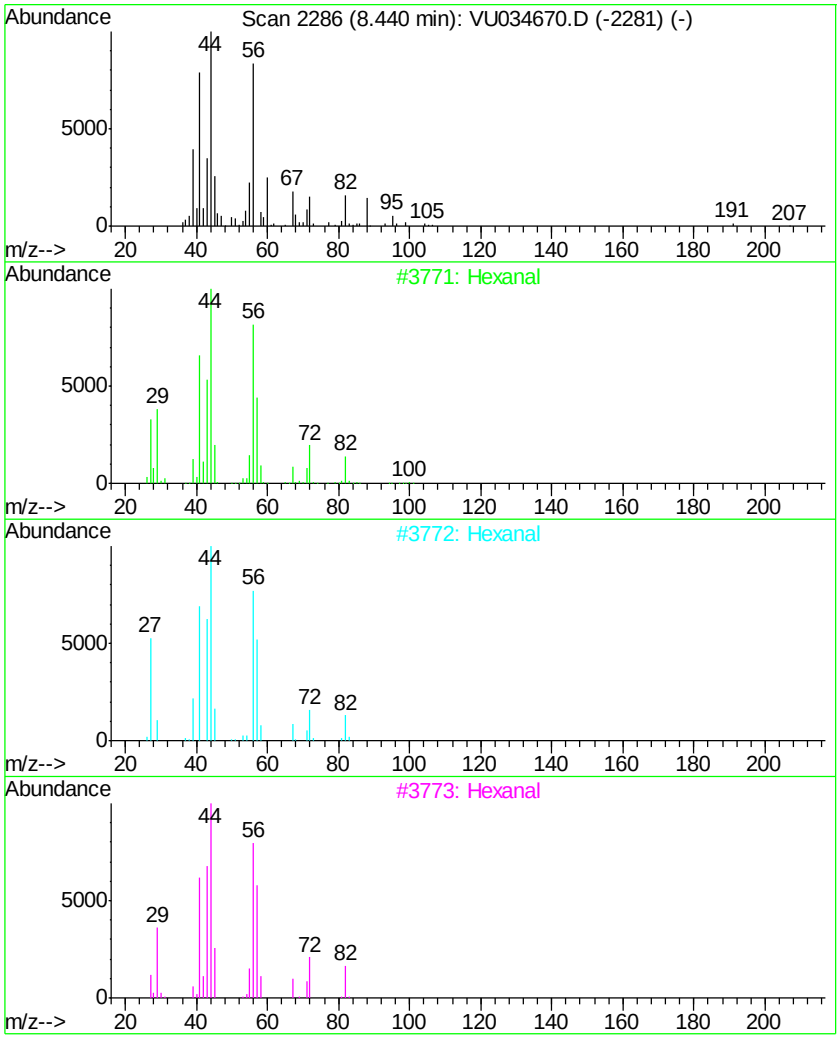
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

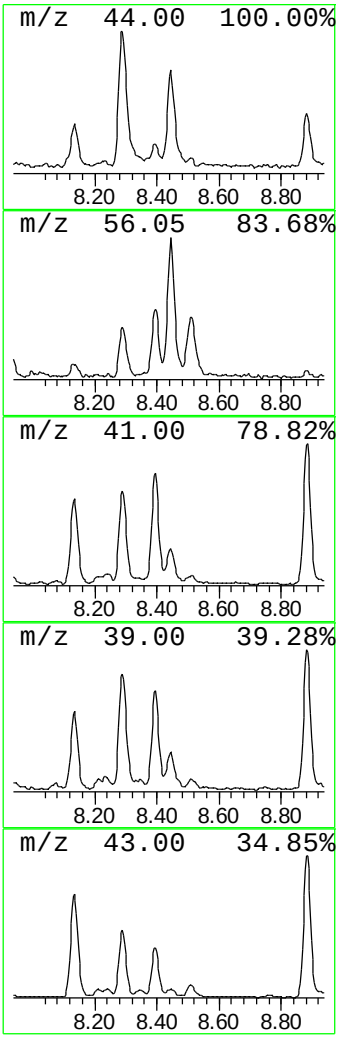
****

Peak Number 21 unknown-02 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.44	4.25 ug/L	198984	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	42
2	Hexanal	100	C6H12O	000066-25-1	40
3	Hexanal	100	C6H12O	000066-25-1	36
4	Hexanal	100	C6H12O	000066-25-1	32
5	2-Butene	56	C4H8	000107-01-7	25





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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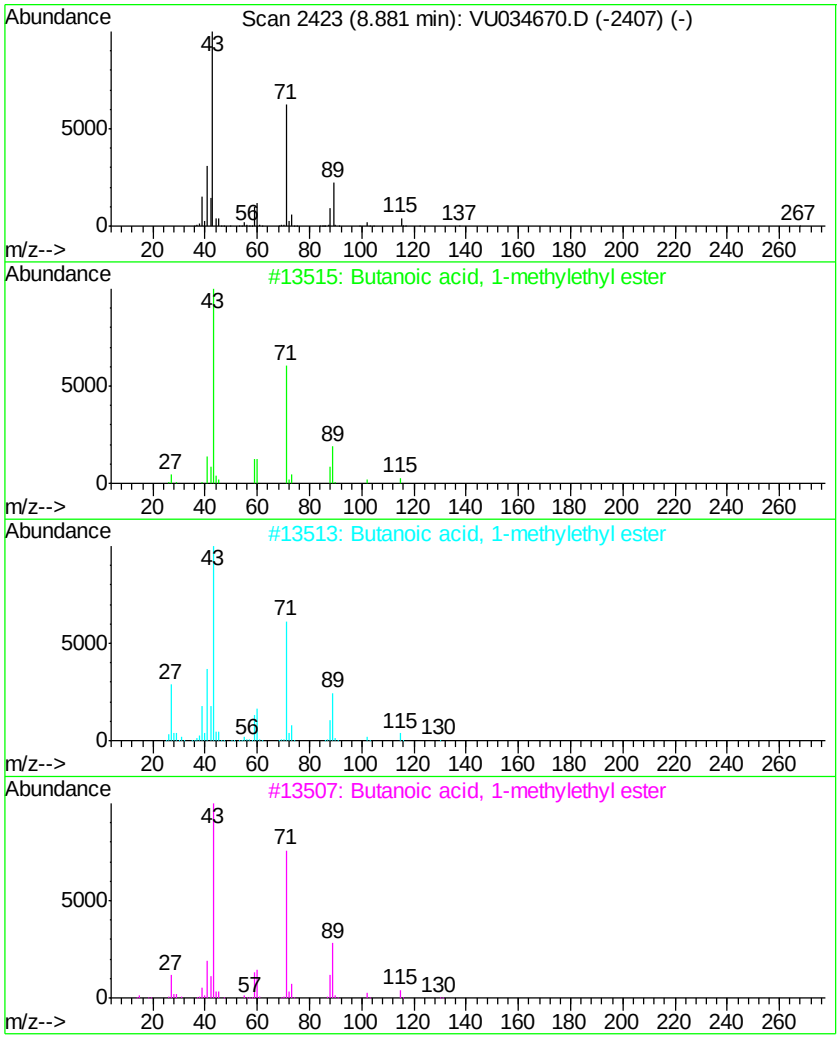
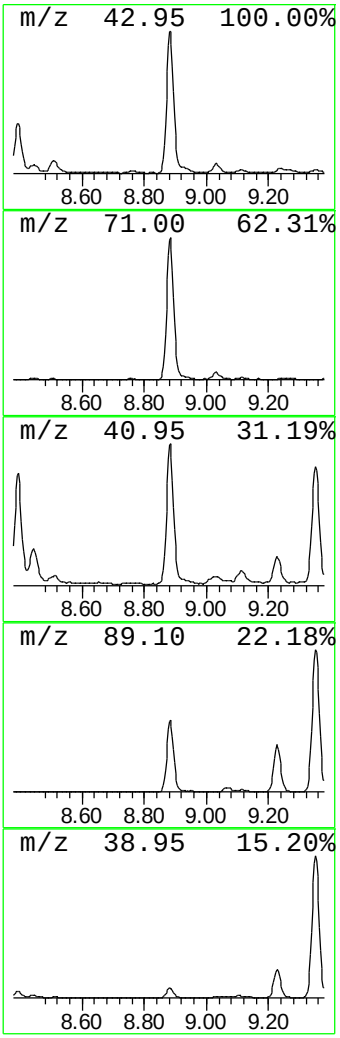
Peak Number 22 Butanoic acid, 1-methylethy... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.88	20.19 ug/L	944367	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	90
2	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	90
3	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	90
4	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	78
5	Propanoic acid, 2-methyl-, propy...	130	C7H14O2	000644-49-5	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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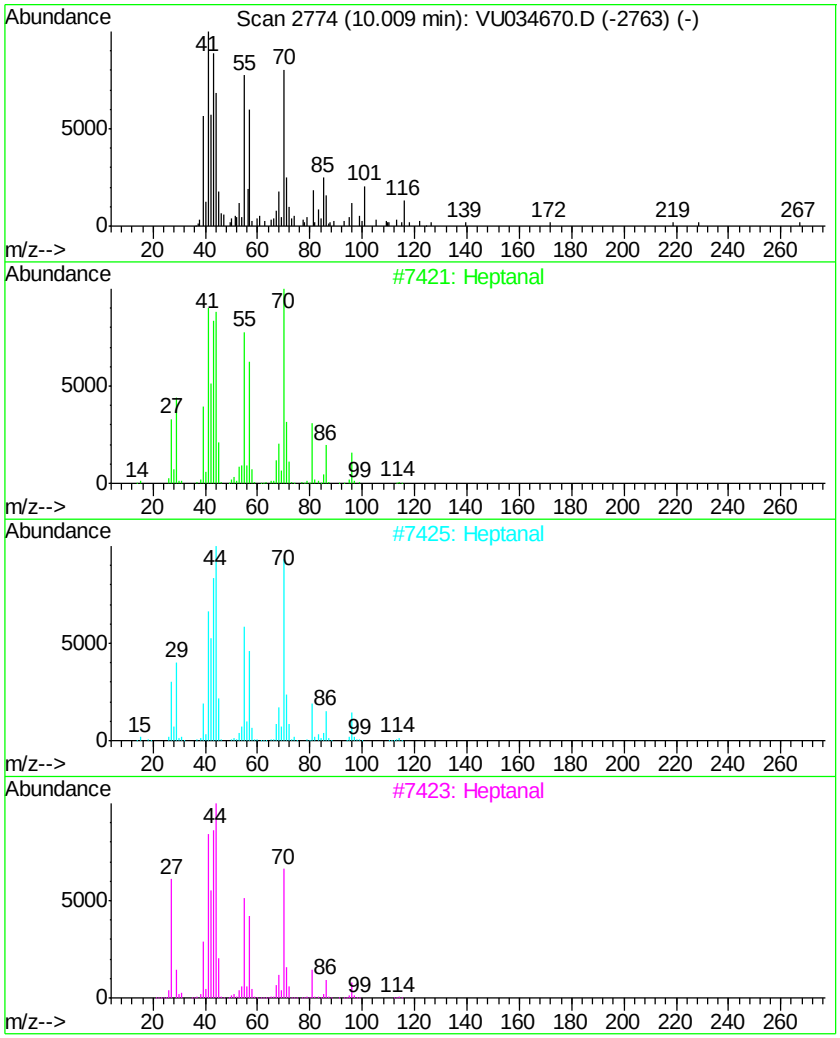
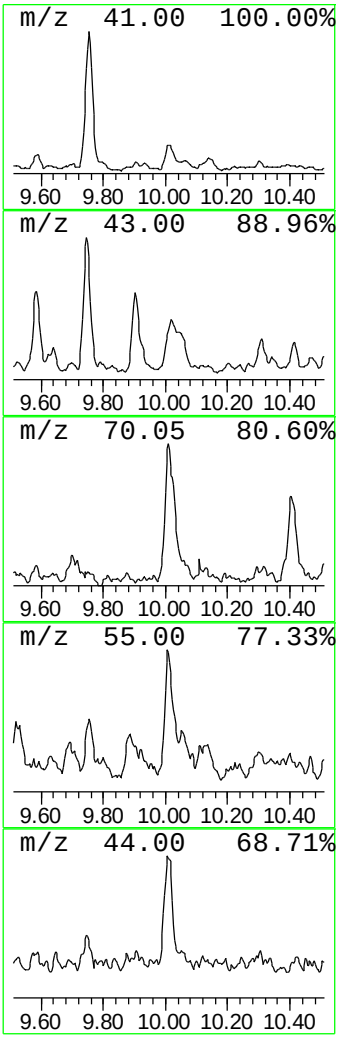
Peak Number 23 Heptanal Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	2.66 ug/L	124491	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal	114	C7H14O	000111-71-7	64
2	Heptanal	114	C7H14O	000111-71-7	53
3	Heptanal	114	C7H14O	000111-71-7	47
4	Heptanal	114	C7H14O	000111-71-7	47
5	2-Octenal, (E)-	126	C8H14O	002548-87-0	38





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

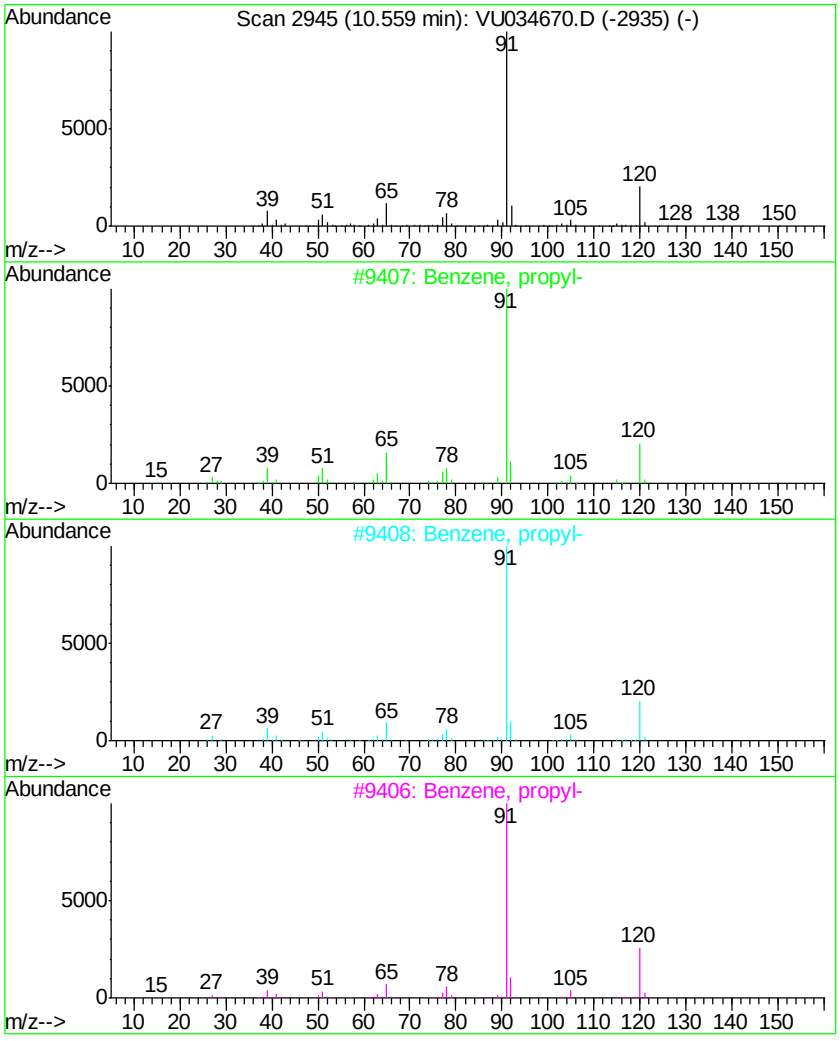
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

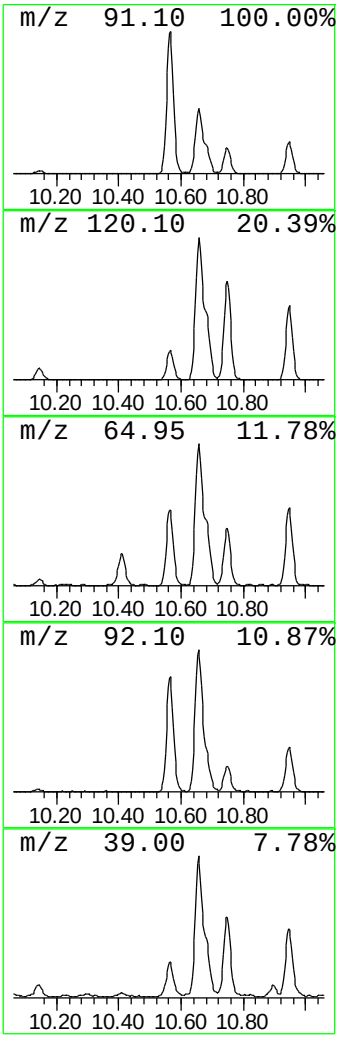
****

Peak Number 24 Benzene, propyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.56	23.48 ug/L	838386	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	91
2	Benzene, propyl-	120	C9H12	000103-65-1	90
3	Benzene, propyl-	120	C9H12	000103-65-1	86
4	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	78
5	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	72





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

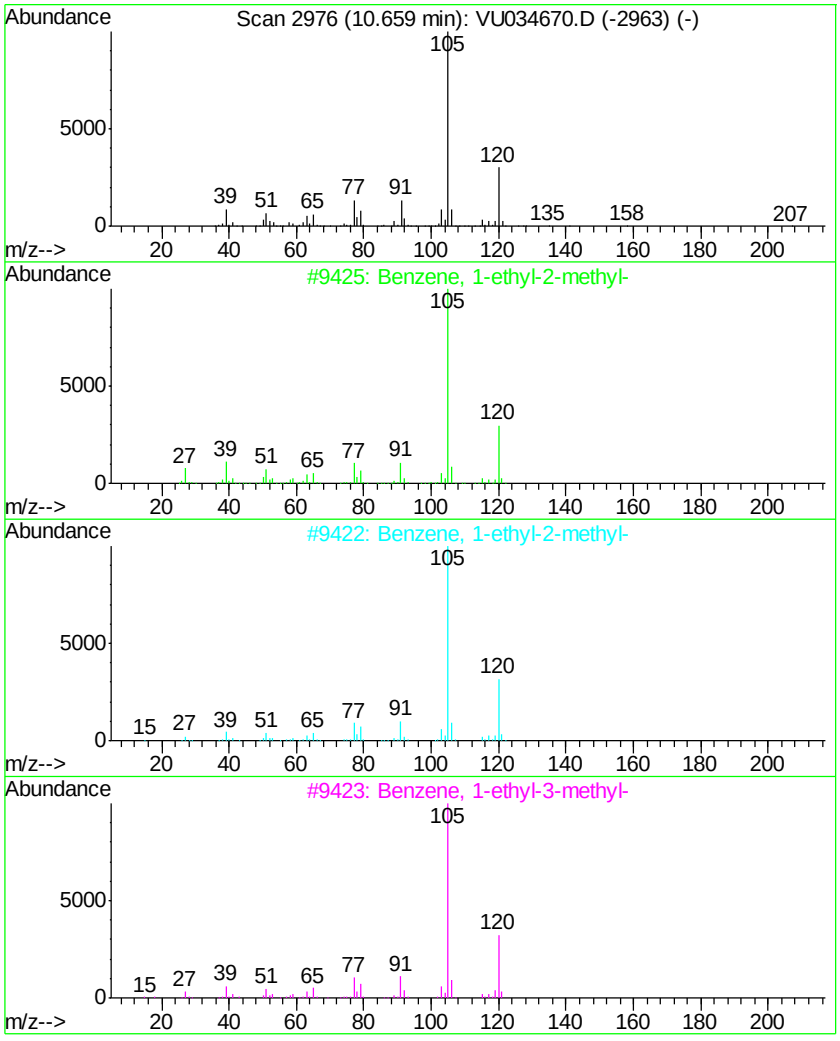
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

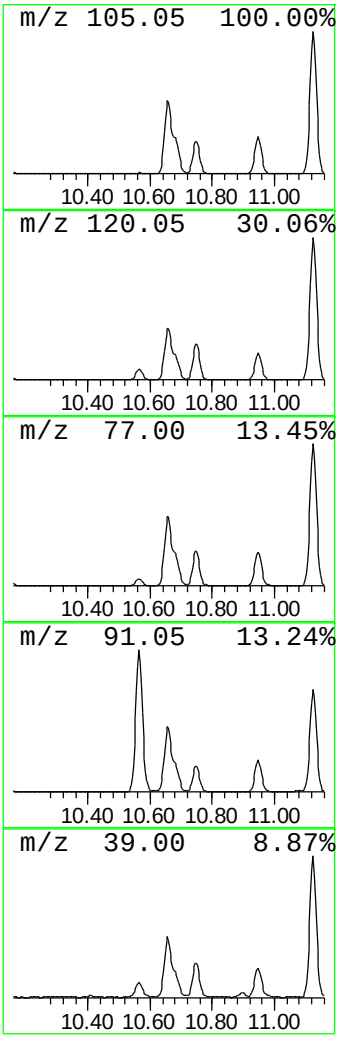
****

Peak Number 25 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	131.06 ug/L	4679390	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91





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Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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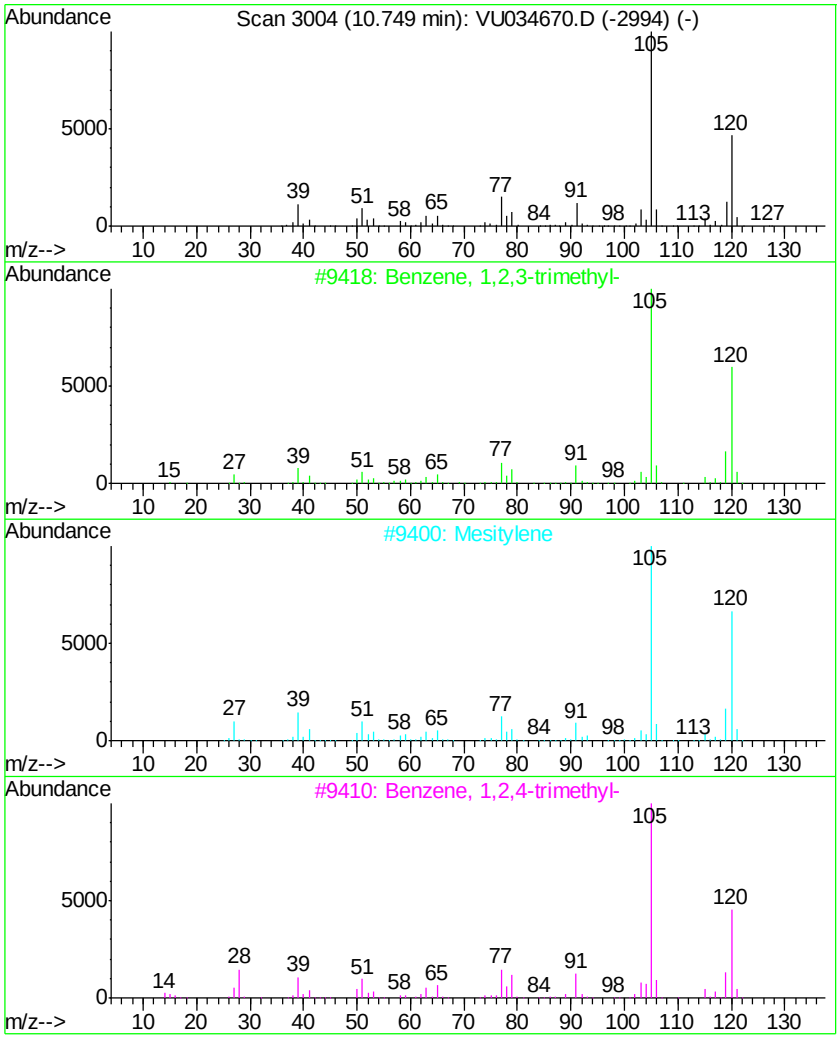
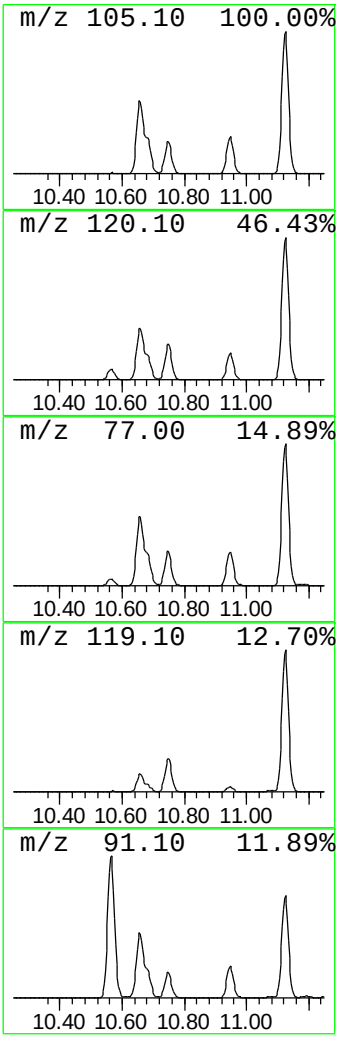
Peak Number 26 Benzene, 1,2,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	48.70 ug/L	1738850	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Mesitylene	120	C9H12	000108-67-8	94
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
4	Mesitylene	120	C9H12	000108-67-8	93
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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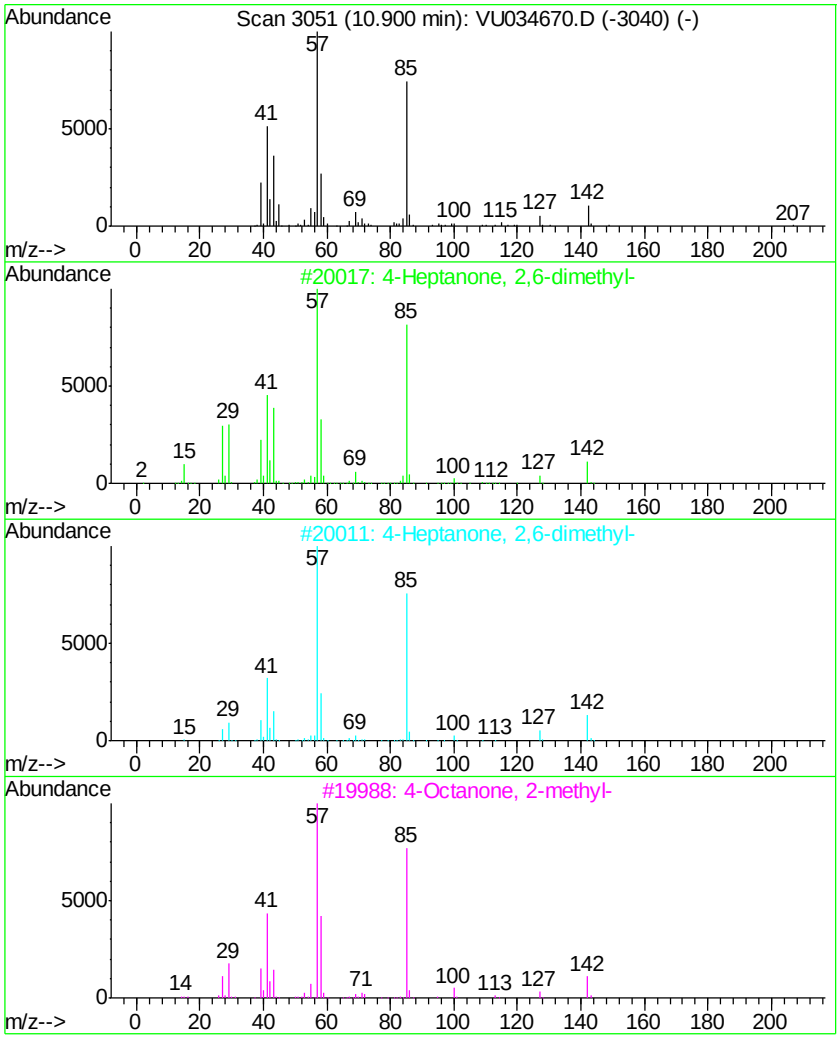
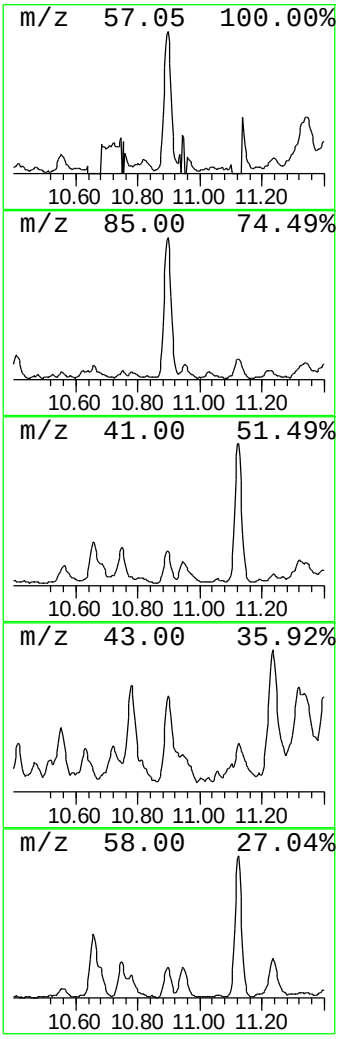
Peak Number 27 4-Heptanone, 2,6-dimethyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.90	5.10 ug/L	181919	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	87
2	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	80
3	4-Octanone, 2-methyl-	142	C9H18O	007492-38-8	64
4	4-Octanone, 2-methyl-	142	C9H18O	007492-38-8	59
5	t-Butyl isobutyl ketone	142	C9H18O	014705-50-1	58





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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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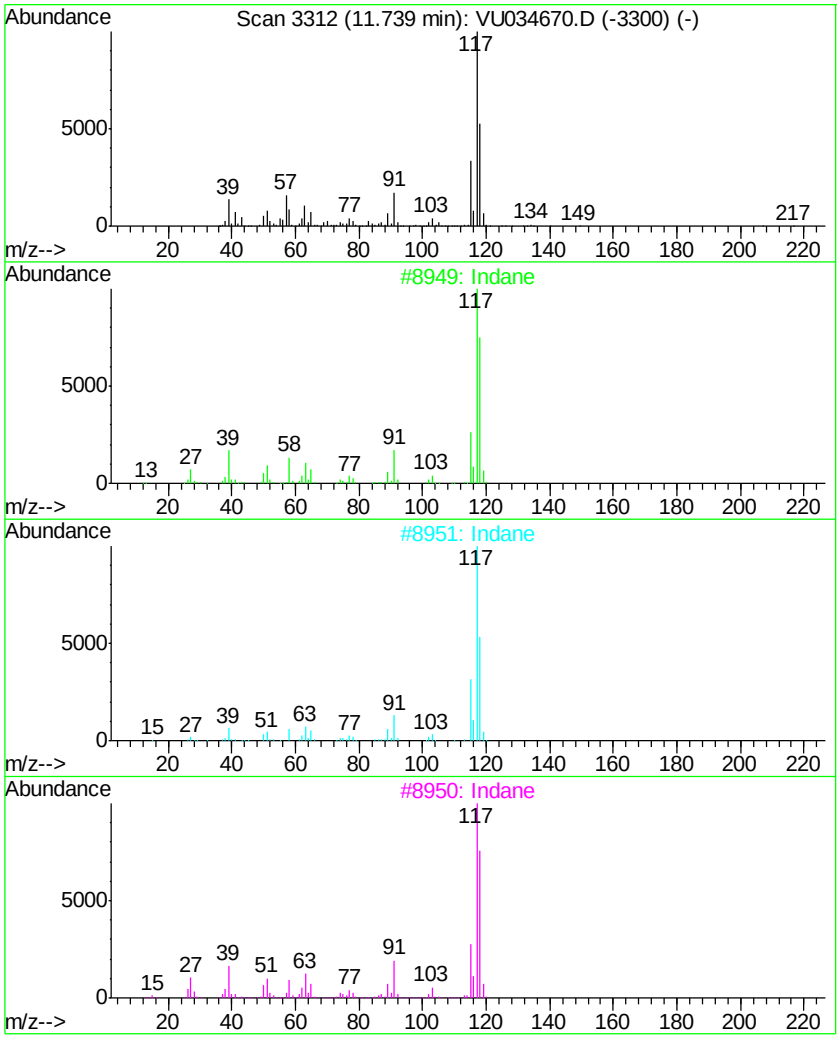
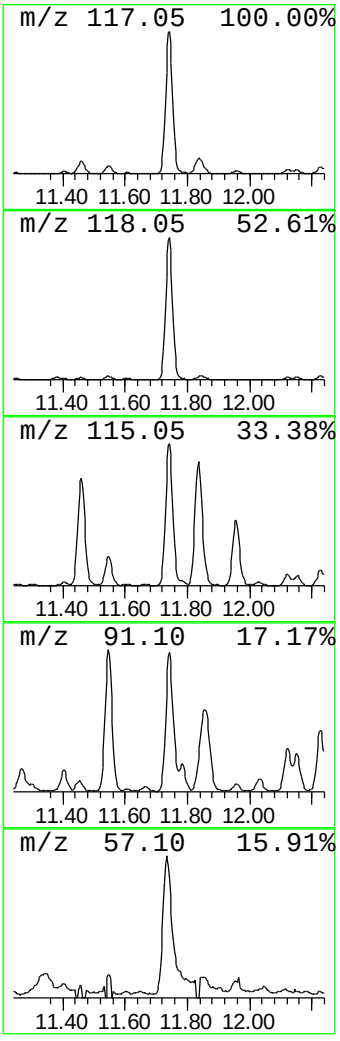
Peak Number 31 Indane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	68.88 ug/L	2459450	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Indane	118	C9H10	000496-11-7	90
3	Indane	118	C9H10	000496-11-7	90
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
5	Indane	118	C9H10	000496-11-7	81





Library Search Compound Report

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Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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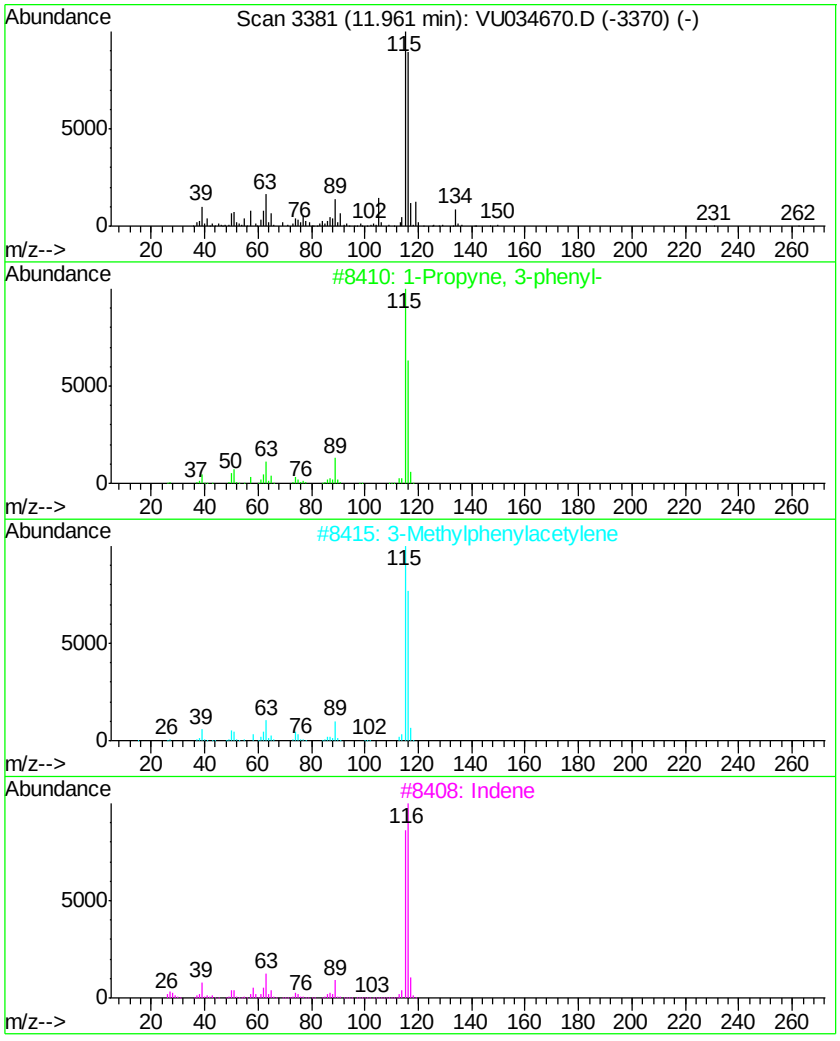
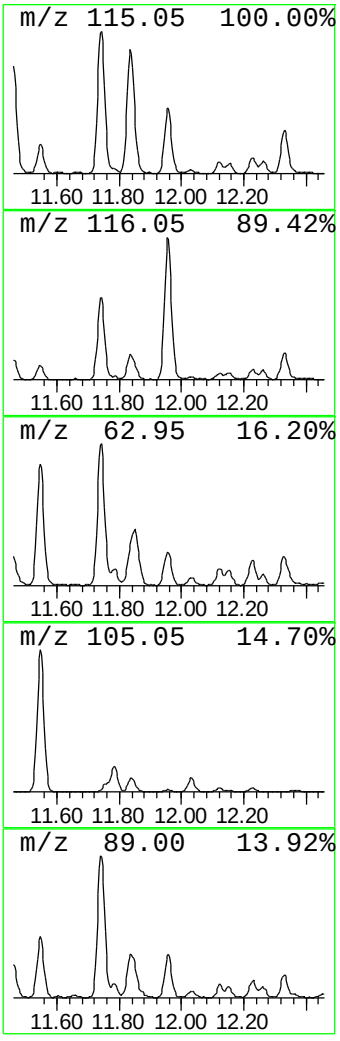
Peak Number 32 1-Propyne, 3-phenyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	10.78 ug/L	384827	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propyne, 3-phenyl-	116	C9H8	010147-11-2	95
2	3-Methylphenylacetylene	116	C9H8	000766-82-5	93
3	Indene	116	C9H8	000095-13-6	92
4	Indene	116	C9H8	000095-13-6	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

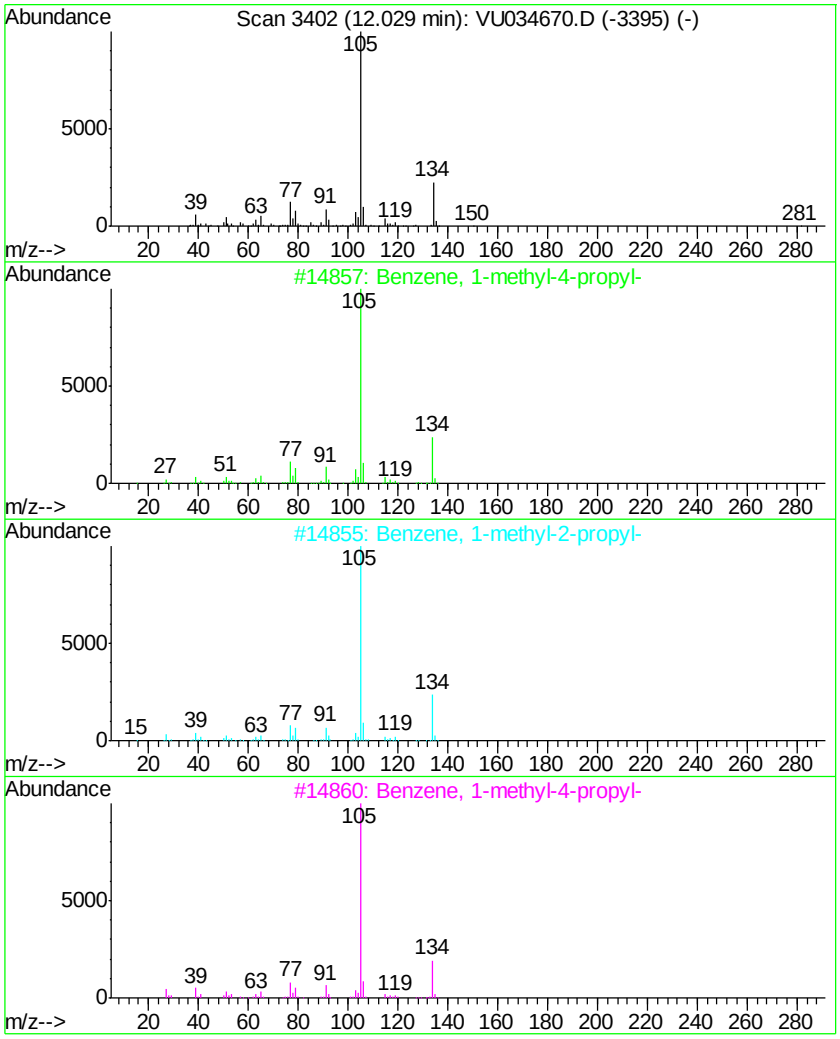
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

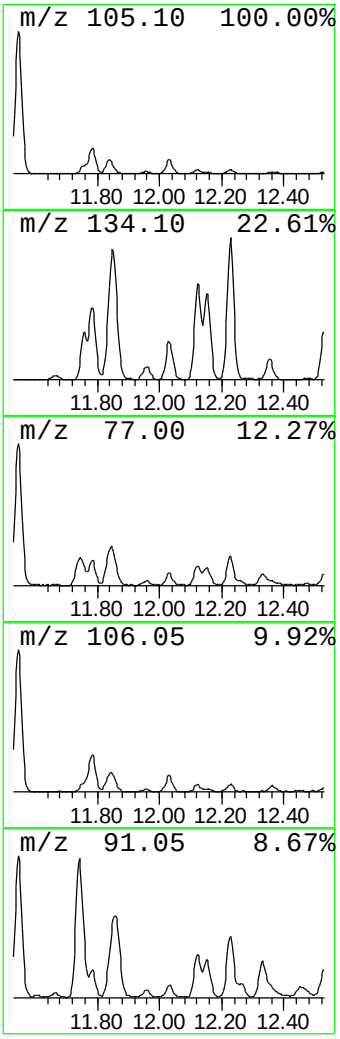
****

Peak Number 33 Benzene, 1-methyl-4-propyl- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	6.55 ug/L	233784	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	93
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

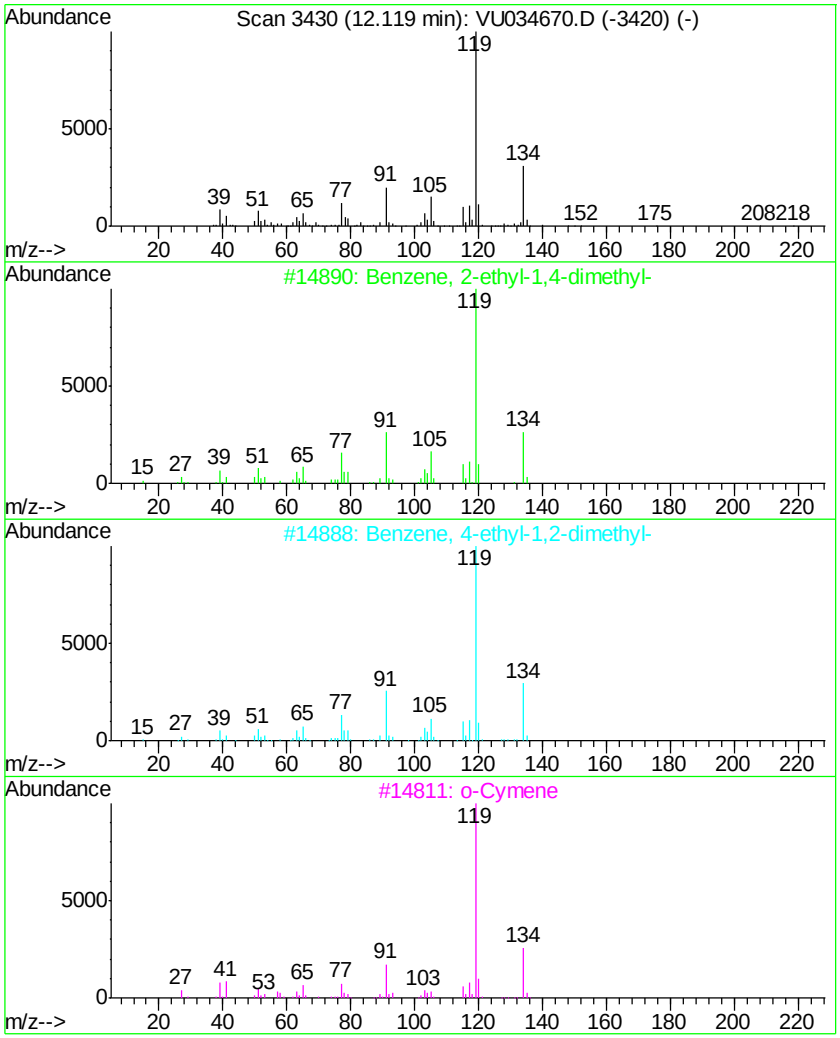
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

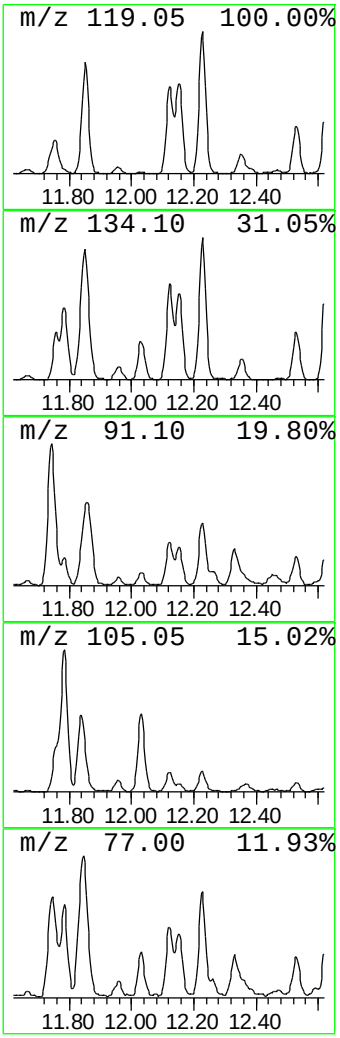
****

Peak Number 34 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	13.98 ug/L	499261	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	p-Cymene	134	C10H14	000099-87-6	95





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

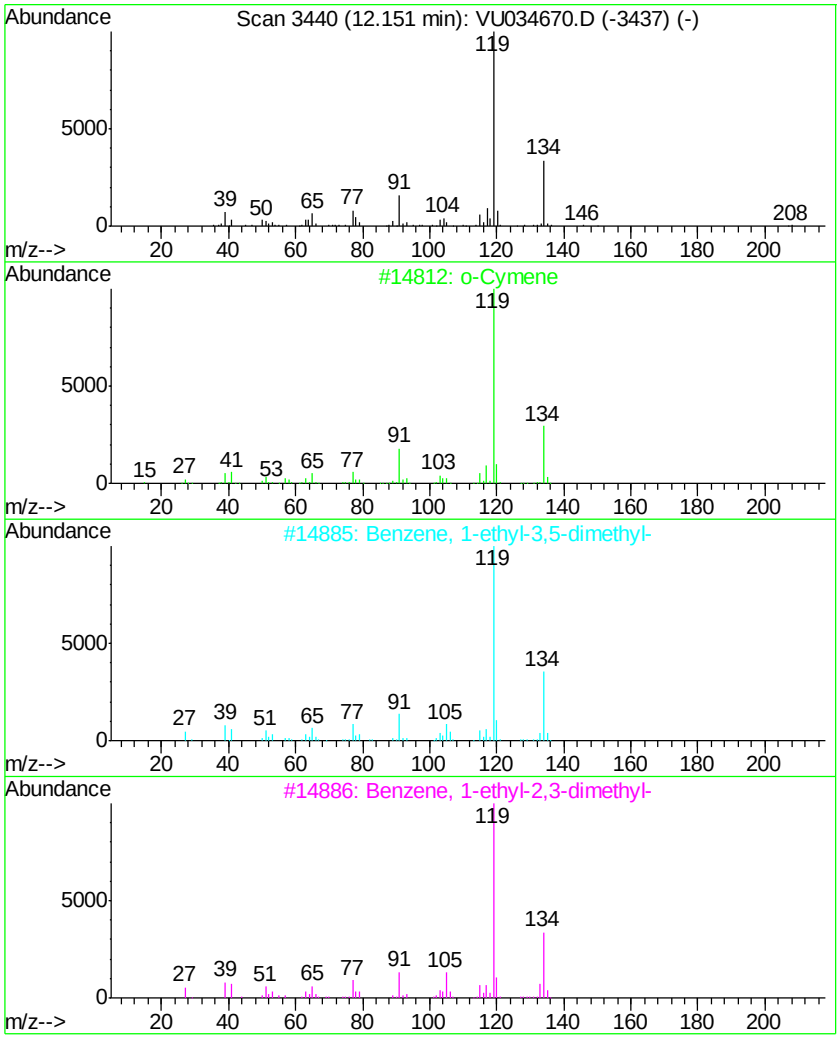
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

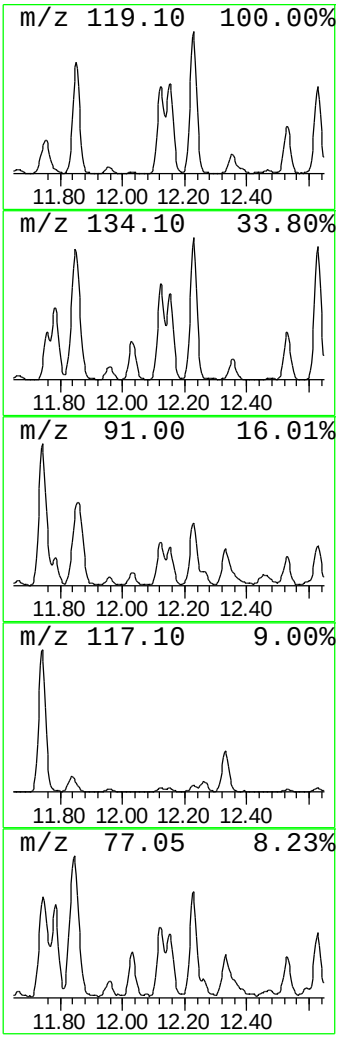
****

Peak Number 35 o-Cymene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	9.78 ug/L	349347	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	91
2	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

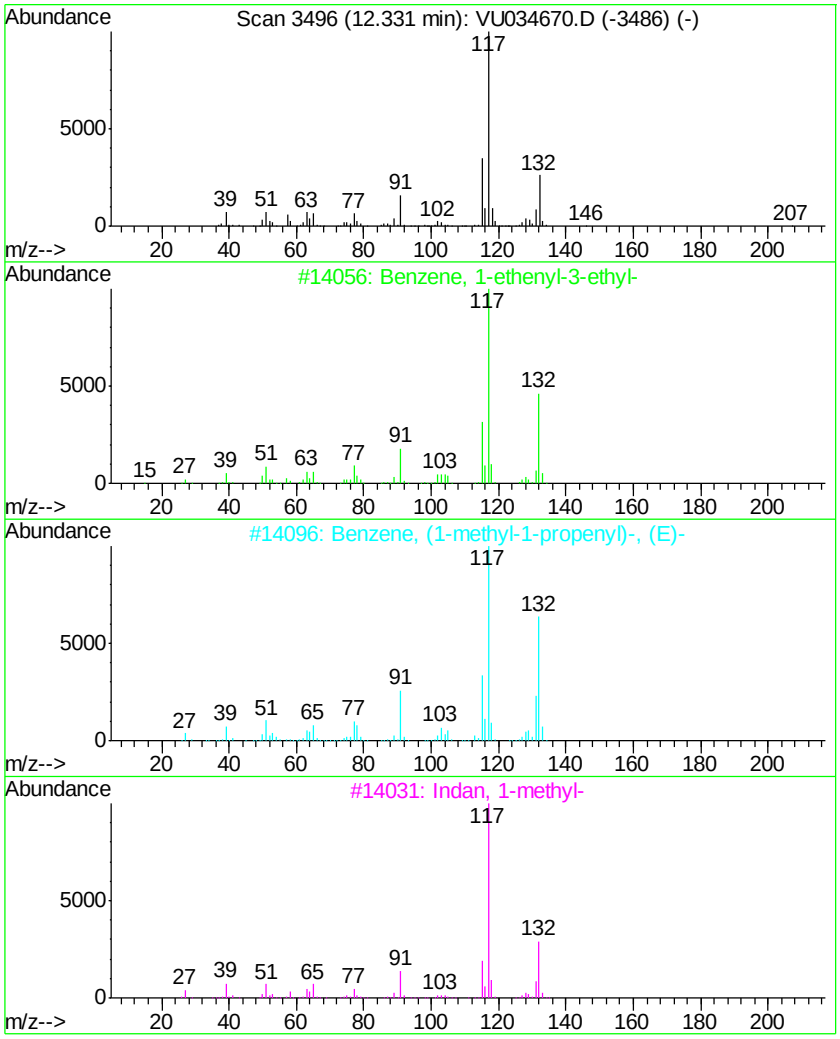
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

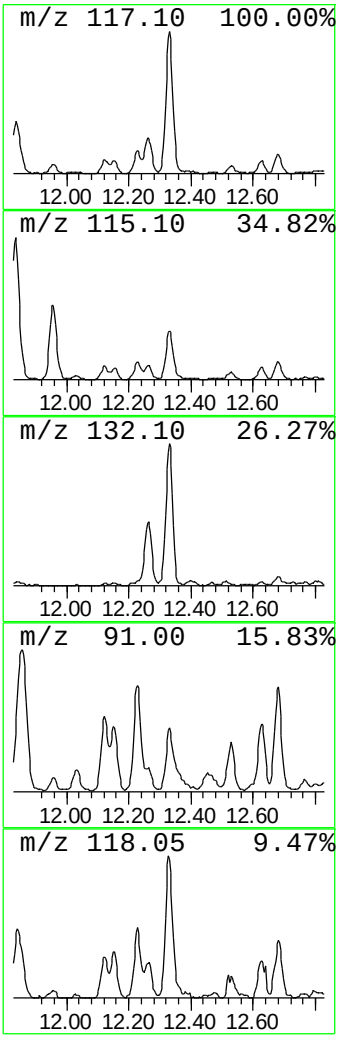
****

Peak Number 37 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	17.12 ug/L	611241	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

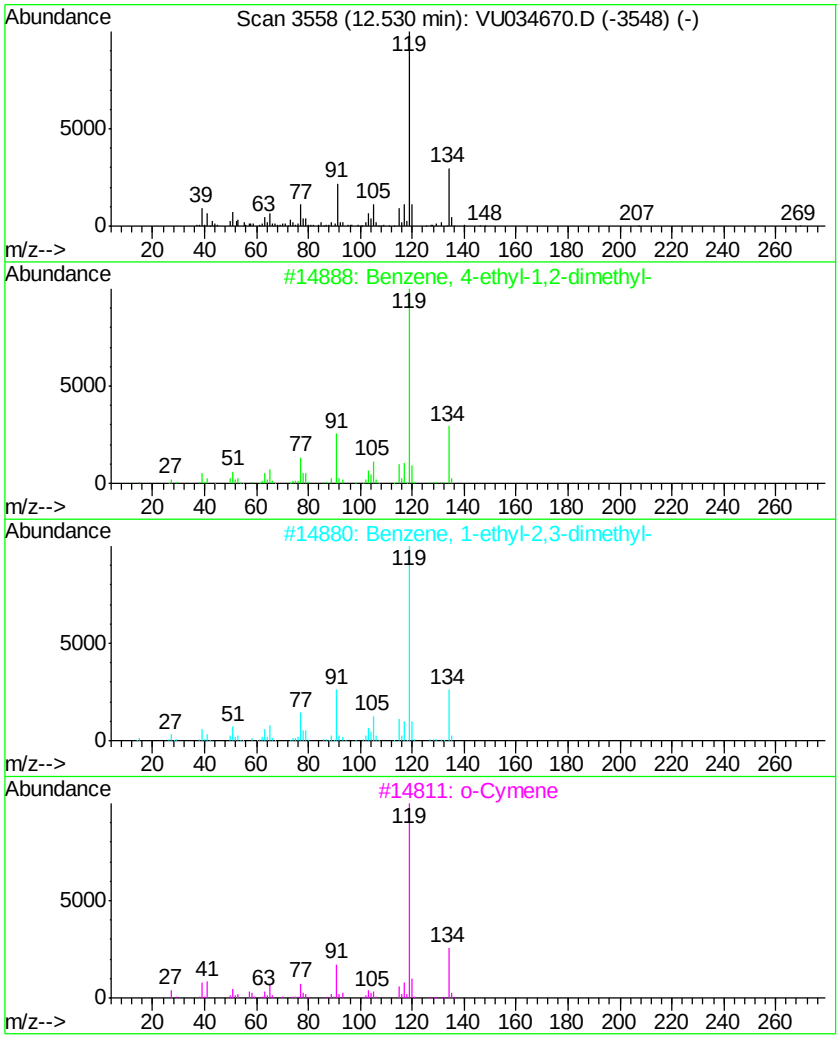
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

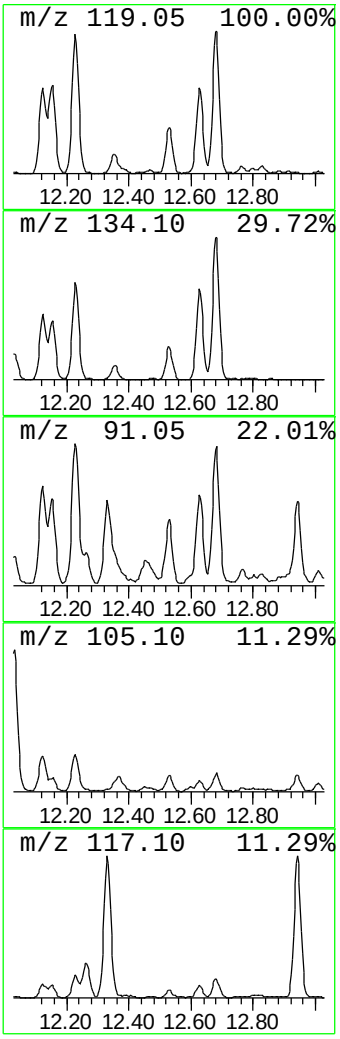
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 38 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	7.94 ug/L	283331	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	97
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	p-Cymene	134	C10H14	000099-87-6	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

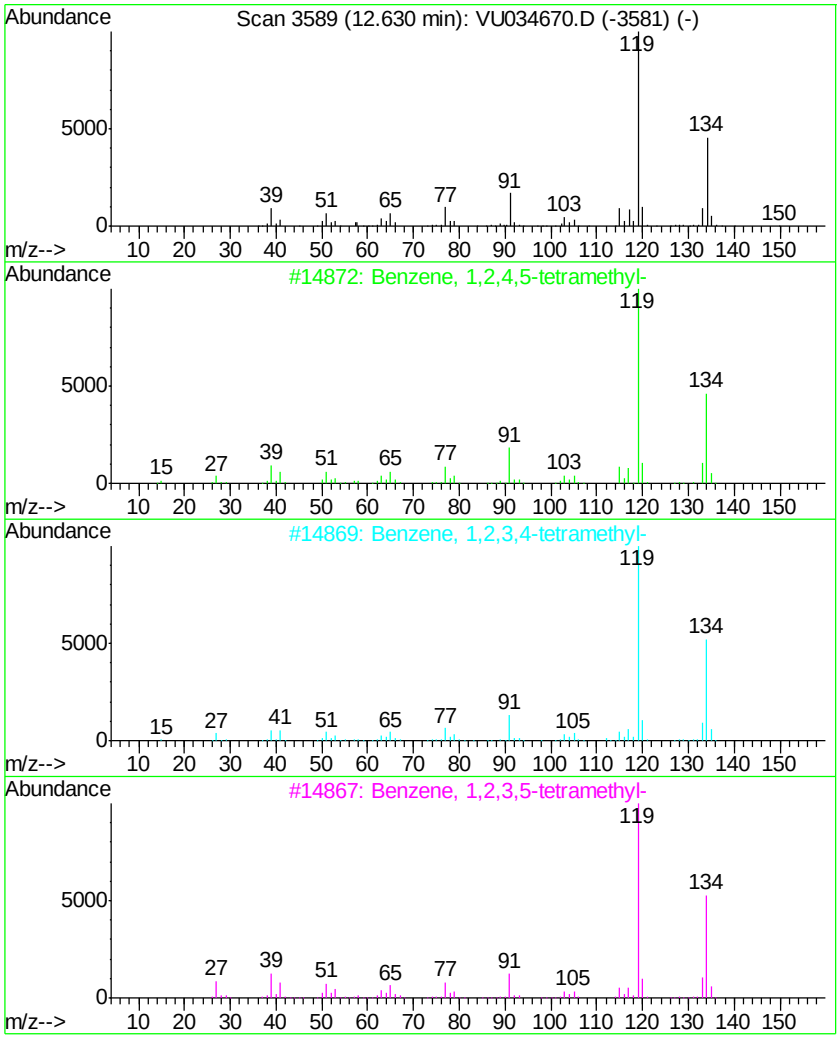
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

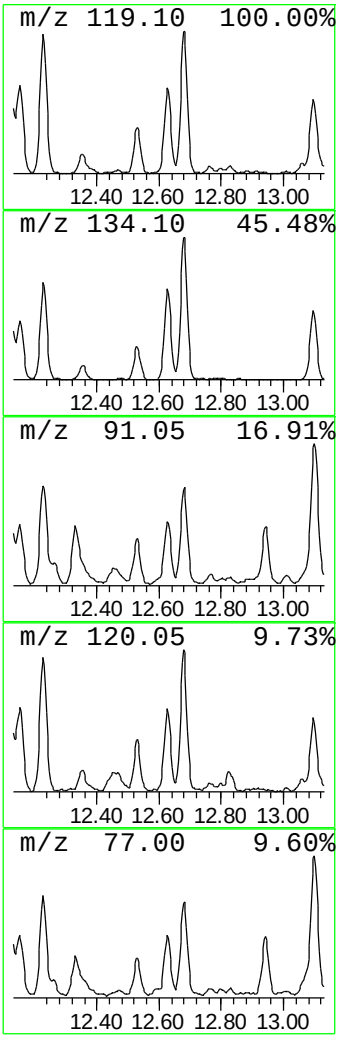
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 39 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	12.43 ug/L	443876	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

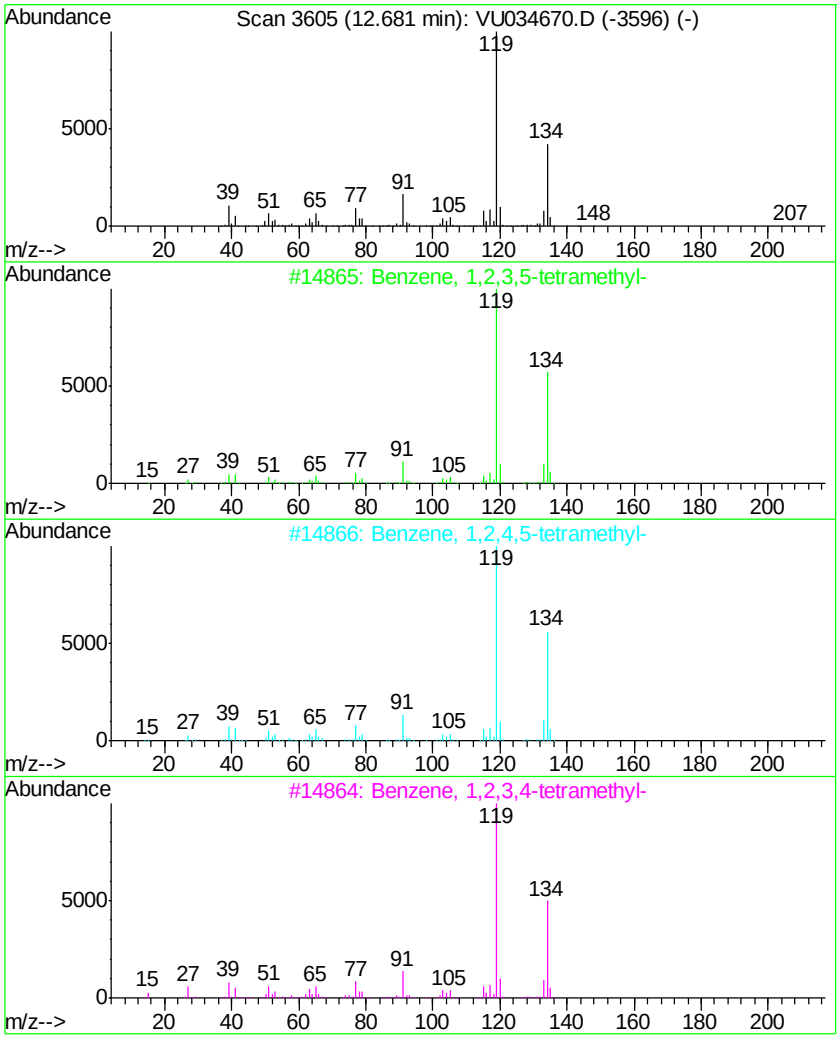
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

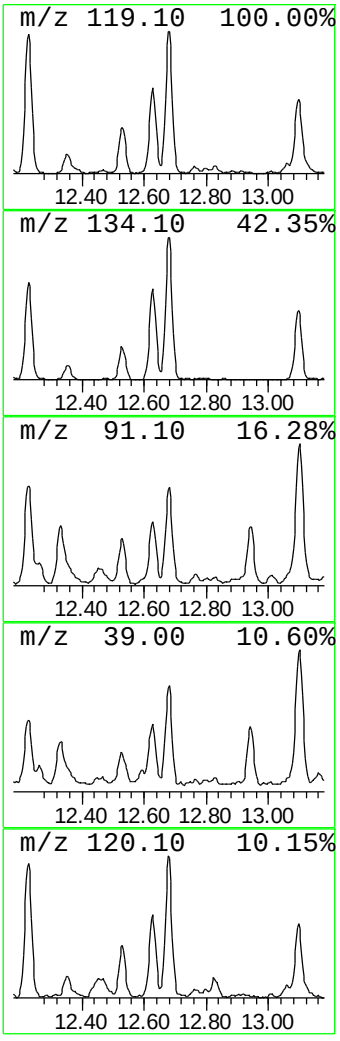
****

Peak Number 40 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.68	21.29 ug/L	760069	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
5	o-Cymene	134	C10H14	000527-84-4	95





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

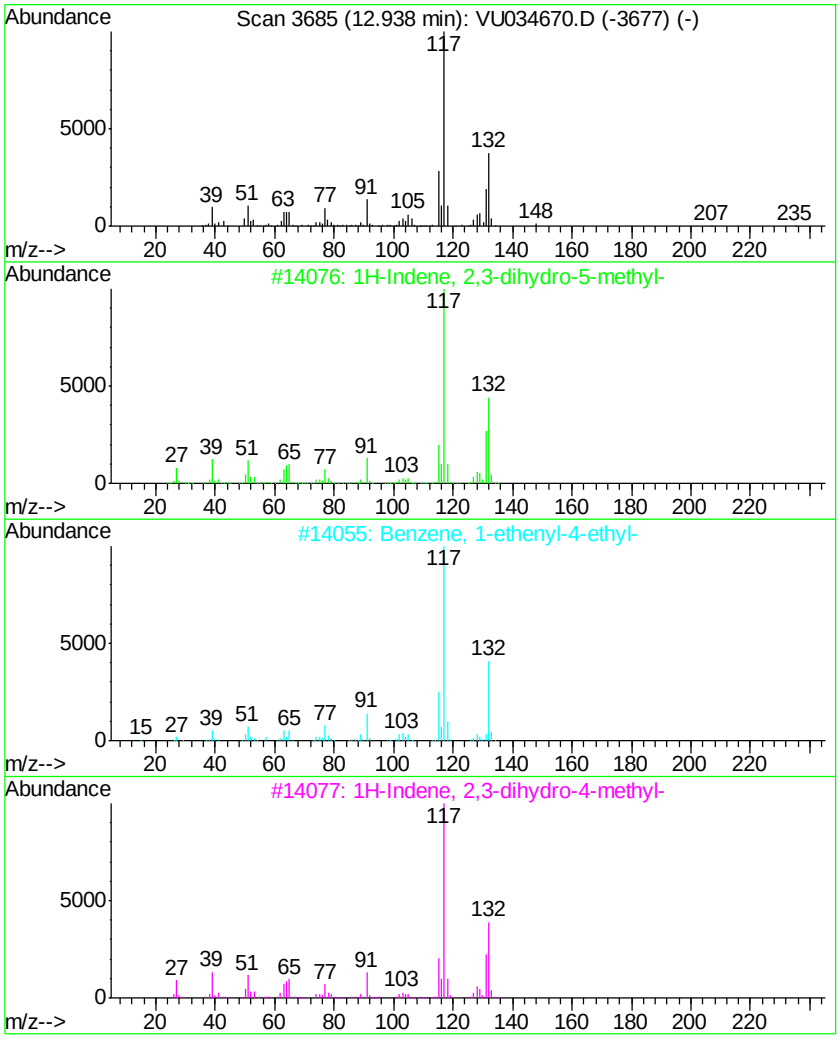
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

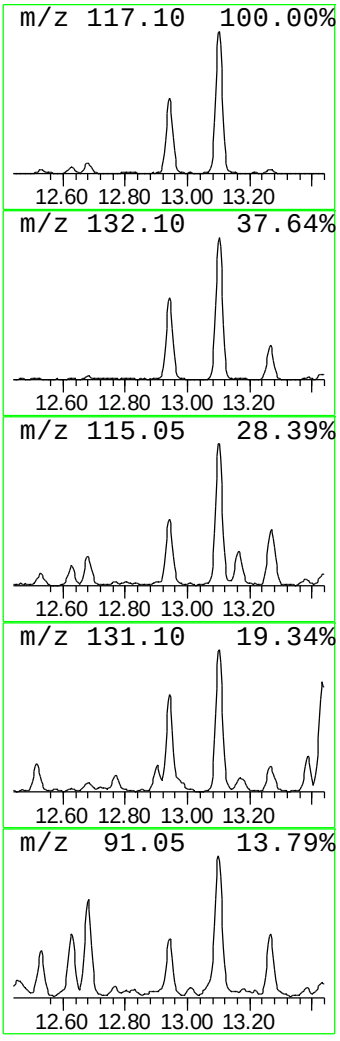
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 41 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	15.47 ug/L	552193	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	94
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	94
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

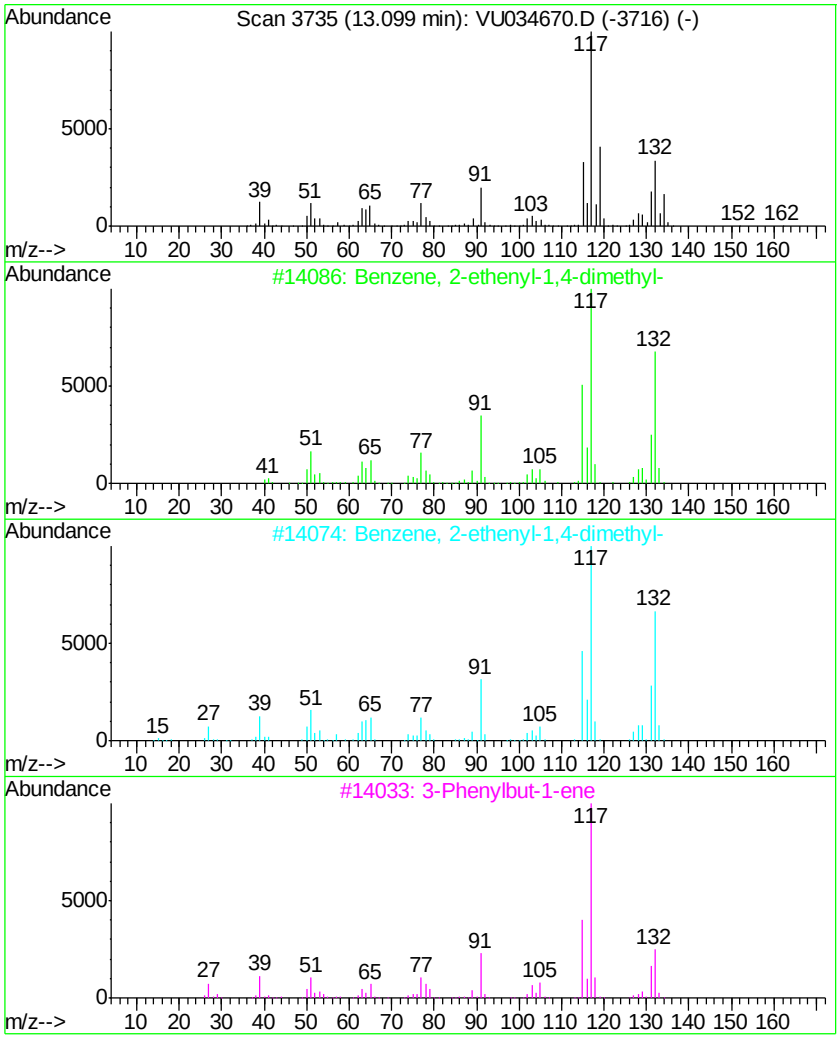
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

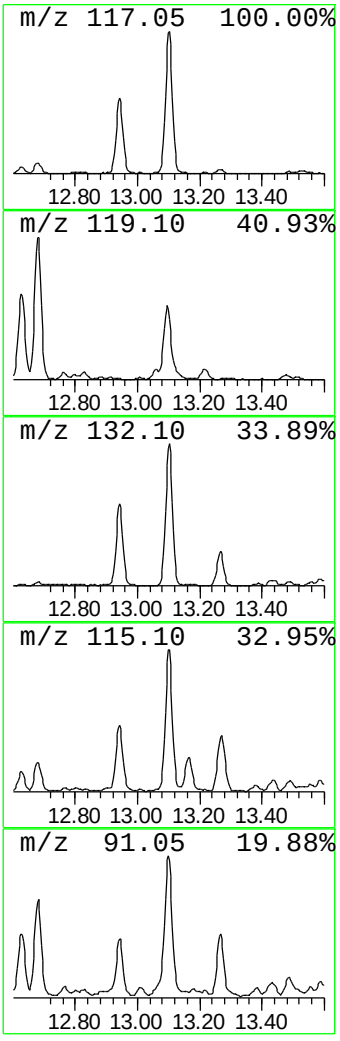
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 42 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	42.49 ug/L	1517220	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
3	3-Phenylbut-1-ene	132	C10H12	000934-10-1	93
4	2,4-Dimethylstyrene	132	C10H12	002234-20-0	91
5	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	89





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

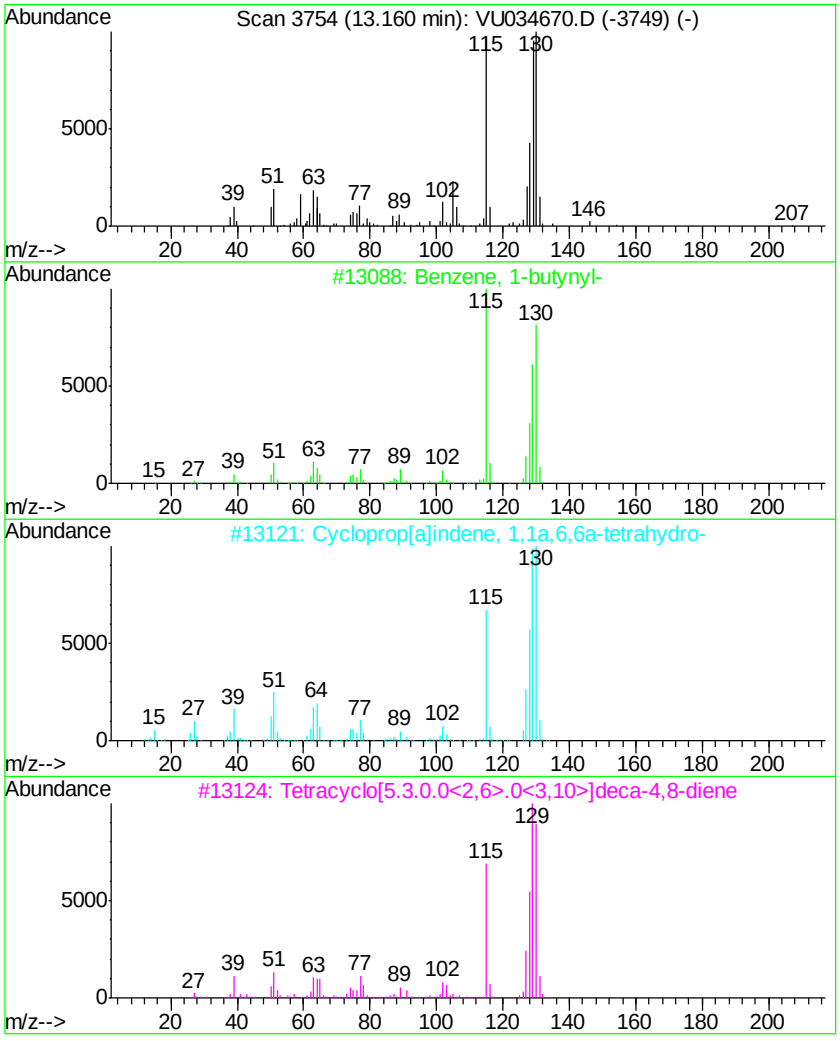
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

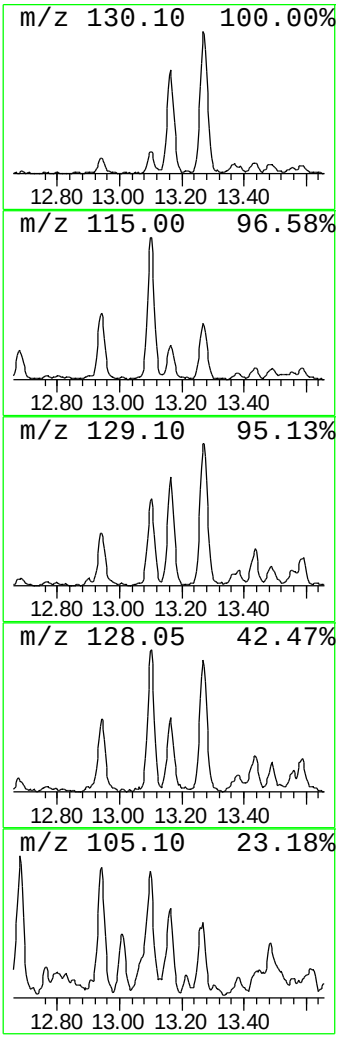
****

Peak Number 43 Benzene, 1-butynyl- Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	4.15 ug/L	148028	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-butynyl-	130	C10H10	000622-76-4	94
2	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	86
3	Tetracyclo[5.3.0.0<2,6>.0<3,10>]...	130	C10H10	034324-40-8	86
4	2-Methylindene	130	C10H10	002177-47-1	76
5	Naphthalene, 1,2-dihydro-	130	C10H10	000447-53-0	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Data File : VU034670.D
Acq On : 20 Sep 2019 00:33
Operator : JC/SP
Sample : K4895-20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDH7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Str...	1.75	9.3	ug/L	241912	1	5.86	1300780	50.0
(DEL) Alkane: Cyc...	1.94	7.0	ug/L	183483	1	5.86	1300780	50.0
(DEL) Alkane: Cyc...	2.17	9.2	ug/L	239350	1	5.86	1300780	50.0
(DEL) Alkane: Cyc...	2.77	7.0	ug/L	182216	1	5.86	1300780	50.0
(DEL) Alkane: Str...	2.98	2.9	ug/L	75367	1	5.86	1300780	50.0
Propanal, 2-methyl-	3.16	9.3	ug/L	241538	1	5.86	1300780	50.0
(DEL) Alkane: Cyc...	3.54	3.9	ug/L	101799	1	5.86	1300780	50.0
Butanal	3.96	7.2	ug/L	185884	1	5.86	1300780	50.0
(DEL) Alkane: Cyc...	4.07	7.0	ug/L	181661	1	5.86	1300780	50.0
Cyclopentene, 3-m...	4.76	6.2	ug/L	162017	1	5.86	1300780	50.0
Isopropyl acetate	5.53	9.4	ug/L	244808	1	5.86	1300780	50.0
unknown-01	5.76	3.6	ug/L	93002	1	5.86	1300780	50.0
Pentanal	6.51	5.2	ug/L	134988	1	5.86	1300780	50.0
n-Propyl acetate	6.68	151.3	ug/L	3936110	1	5.86	1300780	50.0
1,3-Pentadiene, 2...	7.04	3.0	ug/L	76691	1	5.86	1300780	50.0
2-Pentanol, 4-met...	7.89	5.1	ug/L	240632	2	9.07	2339280	50.0
Propanoic acid, 2...	8.13	10.6	ug/L	497504	2	9.07	2339280	50.0
Propanoic acid, p...	8.40	20.7	ug/L	969985	2	9.07	2339280	50.0
unknown-02	8.44	4.3	ug/L	198984	2	9.07	2339280	50.0
Butanoic acid, 1-...	8.88	20.2	ug/L	944367	2	9.07	2339280	50.0
Heptanal	10.01	2.7	ug/L	124491	2	9.07	2339280	50.0
Benzene, propyl-	10.56	23.5	ug/L	838386	3	11.46	1785210	50.0
Benzene, 1-ethyl-...	10.66	131.1	ug/L	4679390	3	11.46	1785210	50.0
Benzene, 1,2,3-tr...	10.75	48.7	ug/L	1738850	3	11.46	1785210	50.0
4-Heptanone, 2,6-...	10.90	5.1	ug/L	181919	3	11.46	1785210	50.0
Indane	11.74	68.9	ug/L	2459450	3	11.46	1785210	50.0
1-Propyne, 3-phenyl-	11.96	10.8	ug/L	384827	3	11.46	1785210	50.0
Benzene, 1-methyl...	12.03	6.5	ug/L	233784	3	11.46	1785210	50.0
Benzene, 2-ethyl-...	12.12	14.0	ug/L	499261	3	11.46	1785210	50.0
o-Cymene	12.15	9.8	ug/L	349347	3	11.46	1785210	50.0
Benzene, 1-etheny...	12.33	17.1	ug/L	611241	3	11.46	1785210	50.0
Benzene, 4-ethyl-...	12.53	7.9	ug/L	283331	3	11.46	1785210	50.0
Benzene, 1,2,4,5-...	12.63	12.4	ug/L	443876	3	11.46	1785210	50.0
Benzene, 1,2,3,5-...	12.68	21.3	ug/L	760069	3	11.46	1785210	50.0
1H-Indene, 2,3-di...	12.94	15.5	ug/L	552193	3	11.46	1785210	50.0
Benzene, 2-etheny...	13.10	42.5	ug/L	1517220	3	11.46	1785210	50.0
Benzene, 1-butynyl-	13.16	4.2	ug/L	148028	3	11.46	1785210	50.0