LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

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\SOMULM122018WMA.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	1.302	31	40	58	rBV	5740606	5982975	14.78%	1.438%
2	1.395	58	69	80	rVV2	26763548	36604041	90.40%	8.800%
3	1.450	80	86	99	rVV	8521188	8958593	22.12%	2.154%
4	1.514	99	106	125	rVB	4322156	4168021	10.29%	1.002%
5	1.659	139	151	160	rBV	978822	1391419	3.44%	0.335%
6	1.746	167	178	215	rVB	9665535	15158013	37.43%	3.644%
7	1.897	215	225	230	rBV	2592374	3472514	8.58%	0.835%
8	1.939	230	238	260	rVB2	16467271	24632312	60.83%	5.922%
9	2.045	260	271	288	rBV	7792546	10589962	26.15%	2.546%
10	2.132	288	298	305	rBV	2252739	3266901	8.07%	0.785%
11	2.180	305	313	332	rVB	6767456	10033652	24.78%	2.412%
12	2.633	438	454	458	rBV2	664099	1227129	3.03%	0.295%
13	2.678	459	468	479	rVV	3928799	7815215	19.30%	1.879%
14	2.739	480	487	493	rVV	1586184	2942677	7.27%	0.707%
15	2.791	494	503	544	rVV	4640641	11174504	27.60%	2.686%
16	2.993	544	566	603	rVB	1062041	2386311	5.89%	0.574%
17	3.193	607	628	646	rBV4	869778	2087521	5.16%	0.502%
18	3.299	646	661	684	rVB	2174110	4586325	11.33%	1.103%
19	3.424	684	700	710	rBV	333313	736860	1.82%	0.177%
20	3.495	710	722	731	rVV	825664	1858634	4.59%	0.447%
21	3.553	732	740	757	rVV	779200	1686863	4.17%	0.406%
22	3.653	757	771	781	rVV	243817	581768	1.44%	0.140%
23	3.730	781	795	810	rVV4	1138869	3309267	8.17%	0.796%
24	3.804	811	818	832	rVV	443514	1030529	2.54%	0.248%
25	3.887	832	844	867	rVB	329152	829581	2.05%	0.199%
26	4.093	886	908	926	rBV	4551729	12175766	30.07%	2.927%
27	4.177	926	934	962	rVB2	209937	533145	1.32%	0.128%
28	4.778	1106	1121	1139	rVB	1948724	4490091	11.09%	1.079%
29	4.997	1170	1189	1203	rBV2	3062382	7404460	18.29%	1.780%
30	5.218	1241	1258	1266	rBV2	262648	654170	1.62%	0.157%
31	5.395	1281	1313	1325	rBV	16690440	35401725	87.43%	8.511%
32	5.460	1326	1333	1342	rVV3	963612	2337065	5.77%	0.562%
33	5.521	1343	1352	1371	rVV	2163192	5121020	12.65%	1.231%
34	5.620	1372	1383	1419	rVB3	725198	2265815	5.60%	0.545%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

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\SOMULM122018WMA.M
Title : VOC Analysis

35	5.781	1419	1433	1444	rBV	621642	1216347	3.00%	0.292%
36	5.884	1456	1465	1473	rBV	220510	392900	0.97%	0.094%
37	5.942	1473	1483	1491	rBV4	393109	828477	2.05%	0.199%
38	6.218	1552	1569	1589	rBV4	470510	1044940	2.58%	0.251%
39	6.328	1590	1603	1612	rBV	165404	318149	0.79%	0.076%
40	6.415	1612	1630	1646	rVB2	2186814	4808942	11.88%	1.156%
41	6.640	1686	1700	1716	rBV	388737	740576	1.83%	0.178%
42	6.823	1741	1757	1759	rBV3	516220	889328	2.20%	0.214%
43	6.906	1774	1783	1792	rBV2	214308	381299	0.94%	0.092%
44	7.067	1819	1833	1843	rVV	1161142	2156444	5.33%	0.518%
45	7.115	1843	1848	1859	rVV	202454	344756	0.85%	0.083%
46	7.228	1874	1883	1898	rVV4	148769	383750	0.95%	0.092%
47	7.366	1912	1926	1935	rBV	399620	744042	1.84%	0.179%
48	7.427	1935	1945	1957	rVB	1338274	2305547	5.69%	0.554%
49	7.527	1966	1976	1980	rBV2	204567	322050	0.80%	0.077%
50	7.562	1981	1987	1997	rVB	380743	647279	1.60%	0.156%
51	7.640	1997	2011	2024	rBV	11637649	19561925	48.31%	4.703%
52	7.717	2025	2035	2046	rBV5	257587	528725	1.31%	0.127%
53	7.916	2086	2097	2110	rBV5	199830	430070	1.06%	0.103%
54	8.093	2144	2152	2164	rVB2	269388	439829	1.09%	0.106%
55	8.308	2199	2219	2232	rBV	353417	715715	1.77%	0.172%
56	8.389	2233	2244	2250	rBV3	162912	310943	0.77%	0.075%
57	8.498	2263	2278	2287	rBV2	437403	752207	1.86%	0.181%
58	8.758	2347	2359	2371	rBV5	135724	280465	0.69%	0.067%
59	9.022	2427	2441	2452	rVB3	180375	503651	1.24%	0.121%
60	9.090	2452	2462	2469	rBV	351088	568436	1.40%	0.137%
61	9.138	2469	2477	2483	rVV6	182341	328753	0.81%	0.079%
62	9.254	2500	2513	2534	rVB	12641624	20323459	50.19%	4.886%
63	9.385	2534	2554	2567	rBV	23989477	40493294	100.00%	9.735%
64	9.543	2596	2603	2618	rVB4	160435	288722	0.71%	0.069%
65	9.781	2665	2677	2691	rVB	5514193	8737583	21.58%	2.101%
66	10.164	2788	2796	2806	rVB	584539	878210	2.17%	0.211%
67	10.427	2867	2878	2892	rVB2	294958	591188	1.46%	0.142%
68	10.585	2917	2927	2940	rBV	1130471	1769397	4.37%	0.425%
69	10.681	2941	2957	2962	rBV	3197763	5284061	13.05%	1.270%
70	10.771	2975	2985	2996	rVB	2064822	3074697	7.59%	0.739%
71	10.971	3034	3047	3069	rVB	2319148	3664096	9.05%	0.881%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

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\SOMULM122018WMA.M
Title : VOC Analysis

72	11.151	3088	3103	3114	rBV	7938424	11838590	29.24%	2.846%
73	11.212	3114	3122	3133	rVB3	136214	274830	0.68%	0.066%
74	11.424	3174	3188	3196	rVV	212852	367397	0.91%	0.088%
75	11.479	3196	3205	3217	rVB2	476075	784660	1.94%	0.189%
76	11.569	3221	3233	3244	rVV	2959877	4534544	11.20%	1.090%
77	11.627	3244	3251	3263	rVV3	154075	297737	0.74%	0.072%
78	11.765	3282	3294	3304	rBV	3632050	5898994	14.57%	1.418%
79	11.807	3304	3307	3315	rVV	403148	516840	1.28%	0.124%
80	11.864	3315	3325	3342	rVB4	798343	1723017	4.26%	0.414%
81	11.980	3350	3361	3376	rBV	812797	1335411	3.30%	0.321%
82	12.144	3400	3412	3417	rBV	381983	615544	1.52%	0.148%
83	12.173	3417	3421	3432	rVB	388861	544421	1.34%	0.131%
84	12.250	3434	3445	3452	rBV	689555	1053011	2.60%	0.253%
85	12.353	3467	3477	3499	rVB	1088298	1880192	4.64%	0.452%
86	12.549	3528	3538	3550	rVB	255251	413268	1.02%	0.099%
87	12.646	3556	3568	3576	rBV	291753	466905	1.15%	0.112%
88	12.700	3576	3585	3599	rVB	588259	902076	2.23%	0.217%
89	12.964	3657	3667	3682	rVB	637205	955897	2.36%	0.230%
90	13.122	3695	3716	3727	rBV3	2121656	3555612	8.78%	0.855%
91	13.183	3727	3735	3746	rVB	391712	625061	1.54%	0.150%
92	13.289	3757	3768	3785	rVB2	683722	1104487	2.73%	0.266%
93	13.456	3811	3820	3828	rBV	236904	364239	0.90%	0.088%
94	13.742	3896	3909	3920	rBV	4521069	6910071	17.06%	1.661%
95	14.334	4083	4093	4104	rVV3	149968	336966	0.83%	0.081%
96	14.472	4119	4136	4148	rVV3	94478	288409	0.71%	0.069%
97	14.874	4250	4261	4275	rVV	1391643	2164110	5.34%	0.520%
98	15.060	4308	4319	4333	rVV	982440	1597596	3.95%	0.384%
99	15.913	4574	4584	4610	rVB	158895	331913	0.82%	0.080%
100	16.057	4619	4629	4636	rBV	205635	333141	0.82%	0.080%

Sum of corrected areas: 415960035

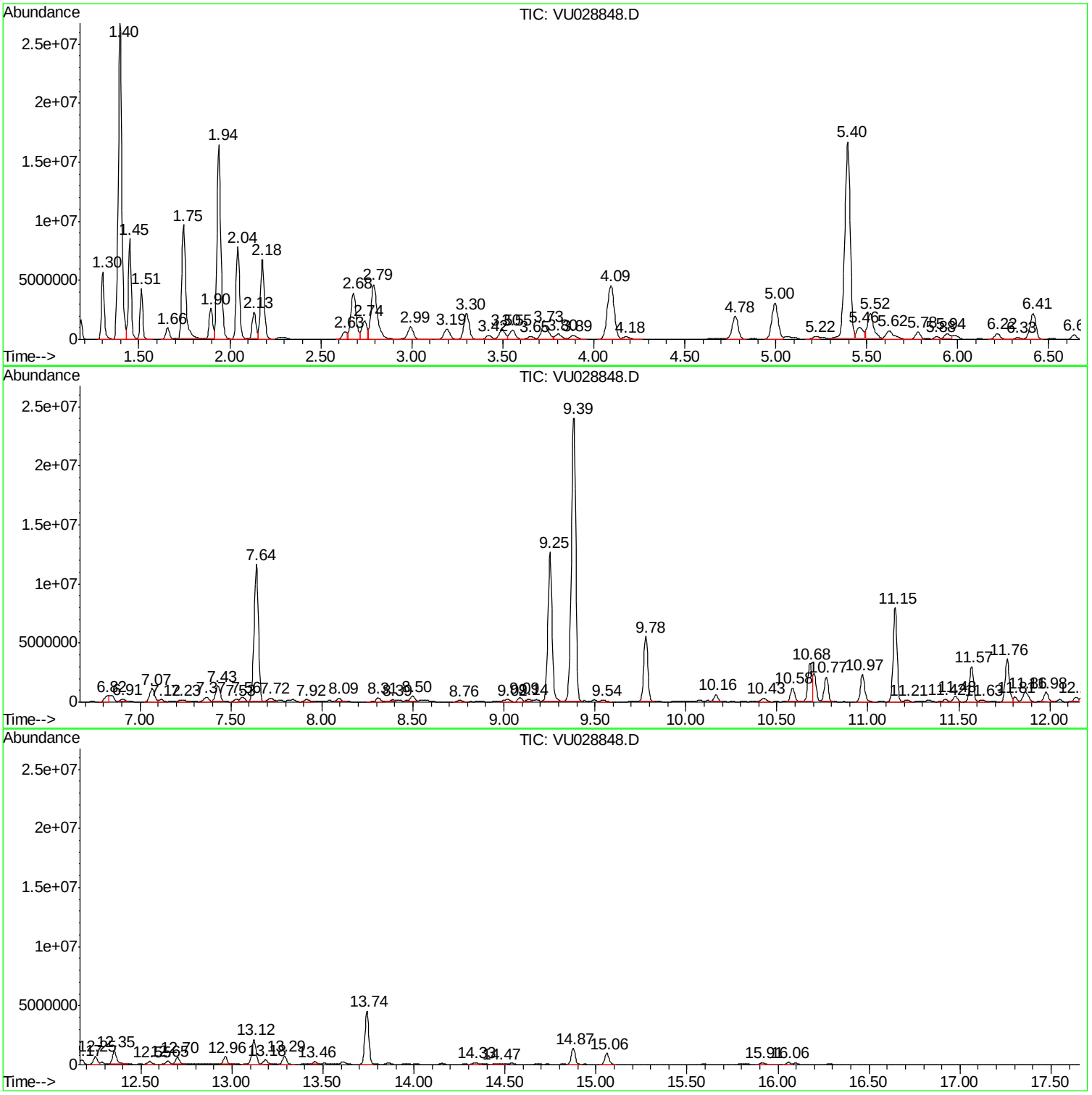
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

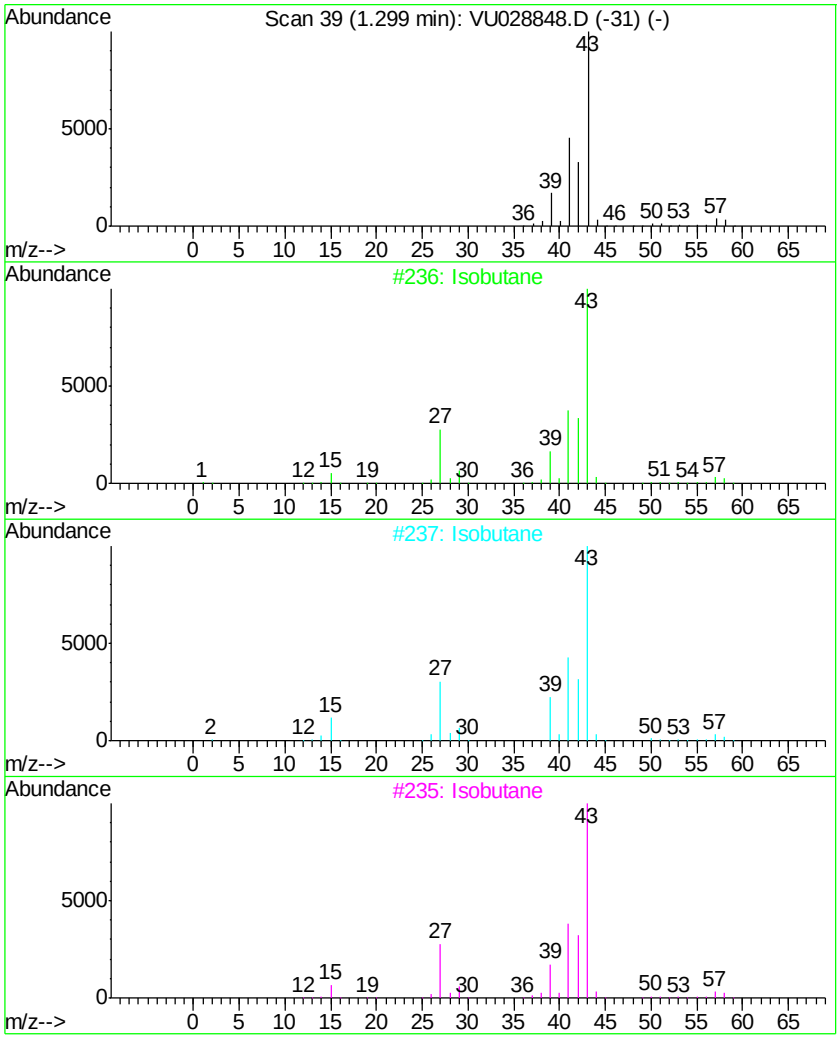
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

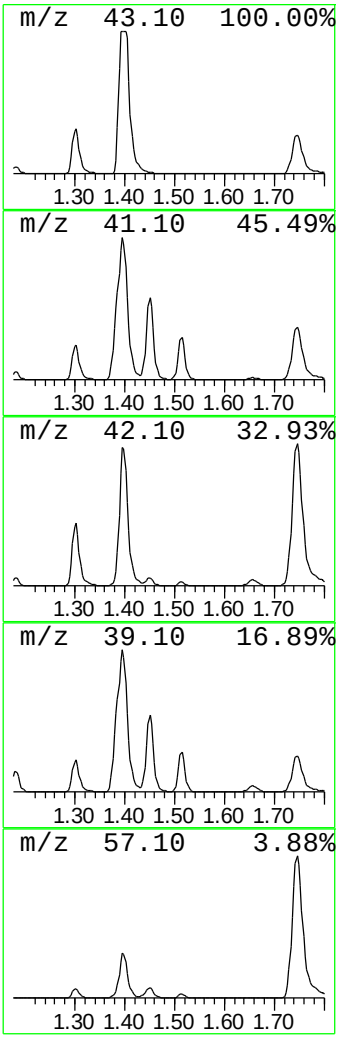
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.30	761.39 ug/L	5982980	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	86
2	Isobutane	58	C4H10	000075-28-5	72
3	Isobutane	58	C4H10	000075-28-5	64
4	Isobutane	58	C4H10	000075-28-5	64
5	Cyclobutylamine	71	C4H9N	002516-34-9	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

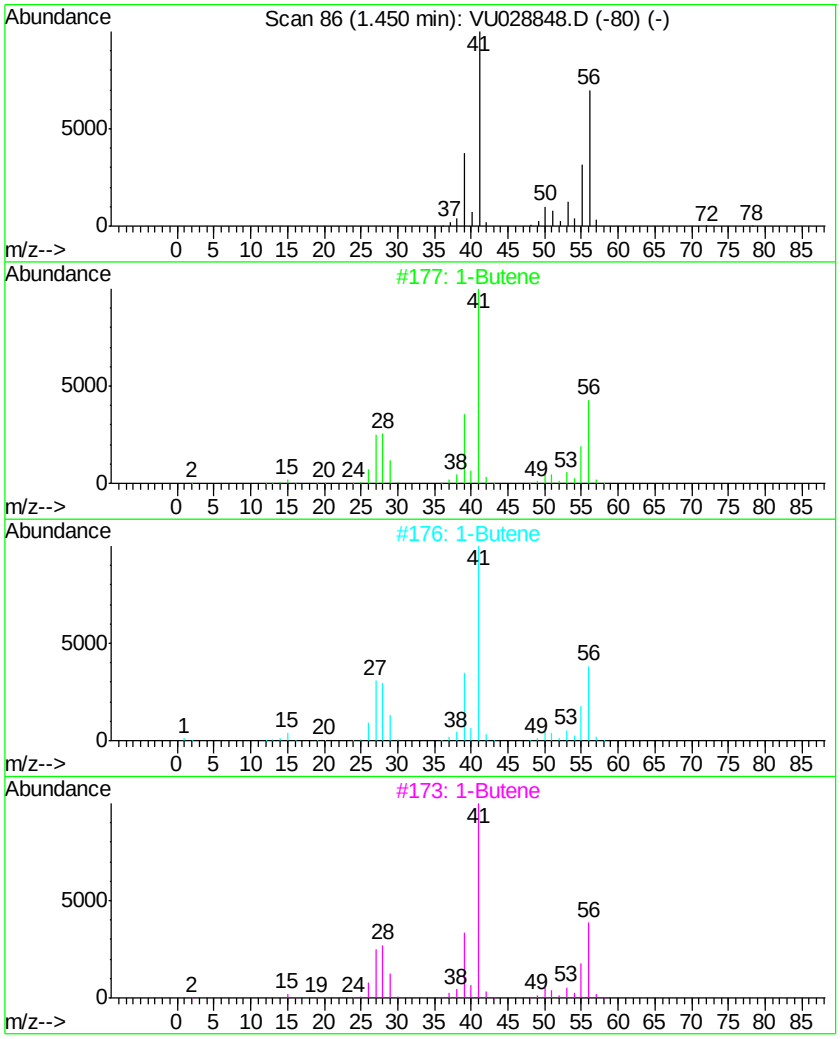
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

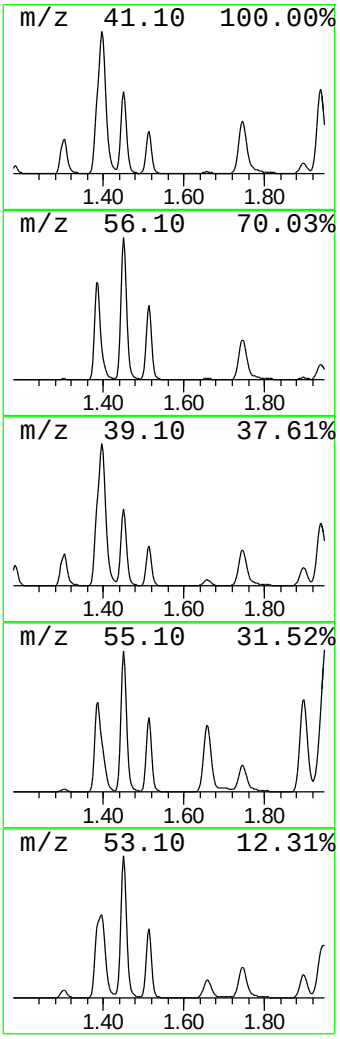
****

Peak Number 2 (DEL) Alkane: Cyclic1.45 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.45	1140.06 ug/L	8958590	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butene	56	C4H8	000106-98-9	74
2	1-Butene	56	C4H8	000106-98-9	72
3	1-Butene	56	C4H8	000106-98-9	72
4	2-Butene, (Z)-	56	C4H8	000590-18-1	72
5	Cyclobutane	56	C4H8	000287-23-0	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

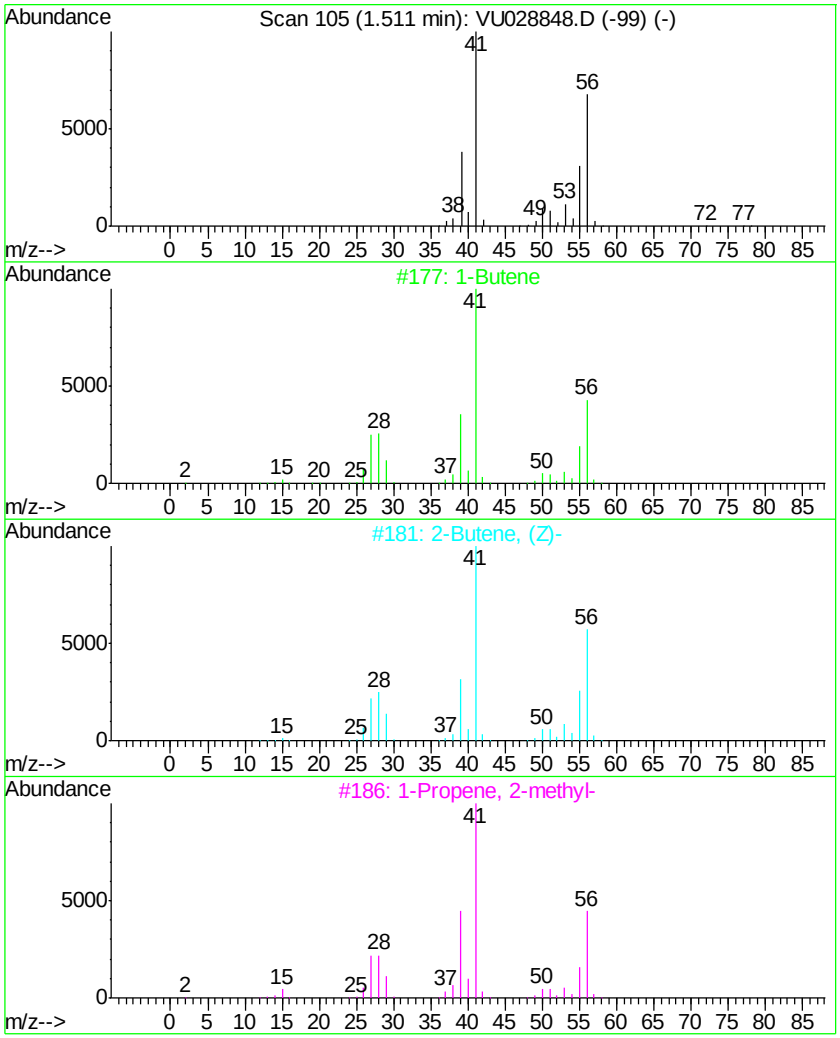
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

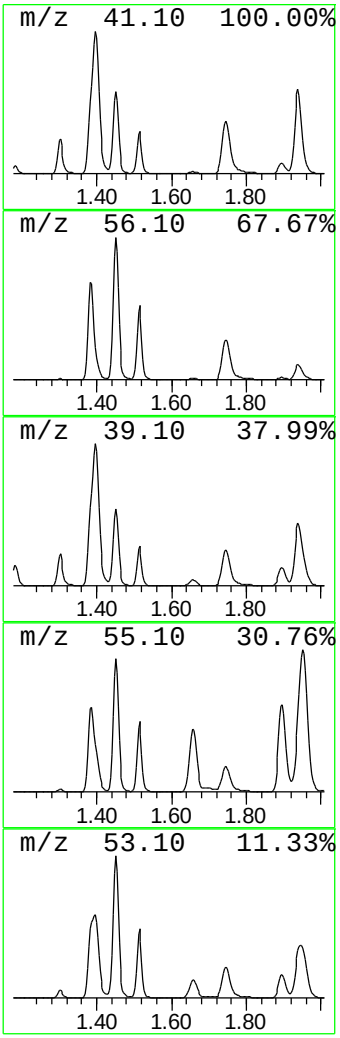
****

Peak Number 3 (DEL) Alkane: Cyclic1.51 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.51	530.42 ug/L	4168020	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butene	56	C4H8	000106-98-9	81
2	2-Butene, (Z)-	56	C4H8	000590-18-1	81
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	74
4	1-Butene	56	C4H8	000106-98-9	74
5	1-Butene	56	C4H8	000106-98-9	74





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

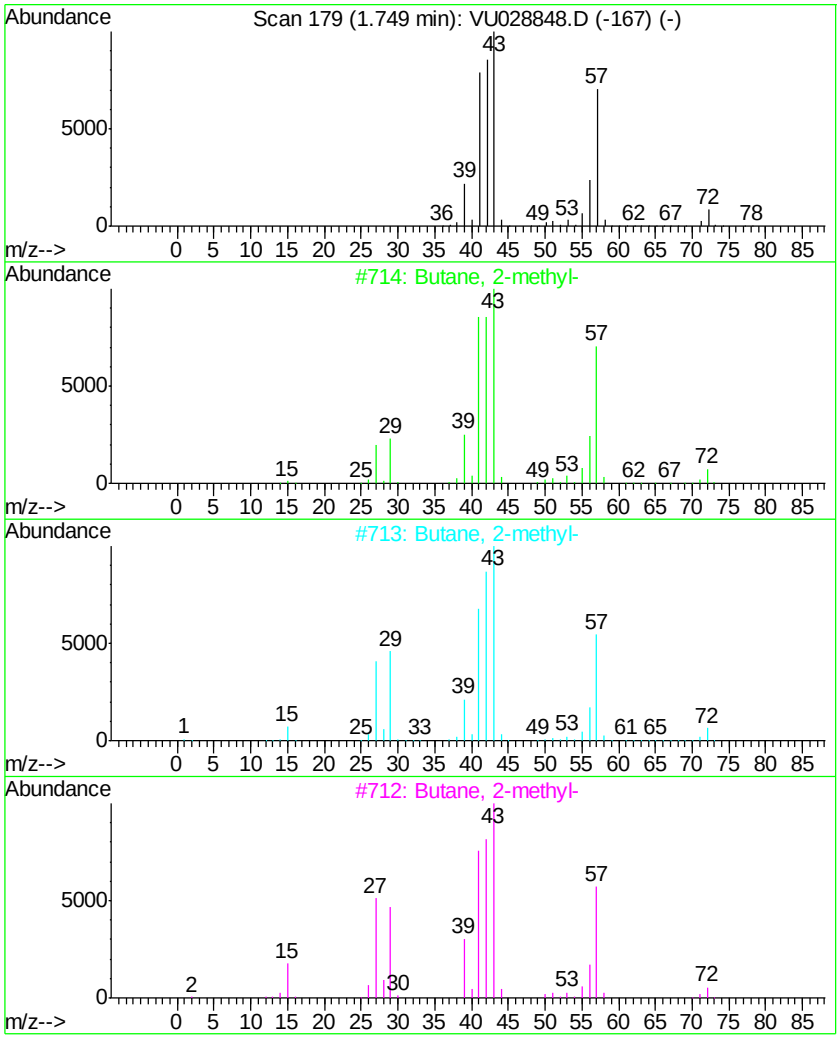
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

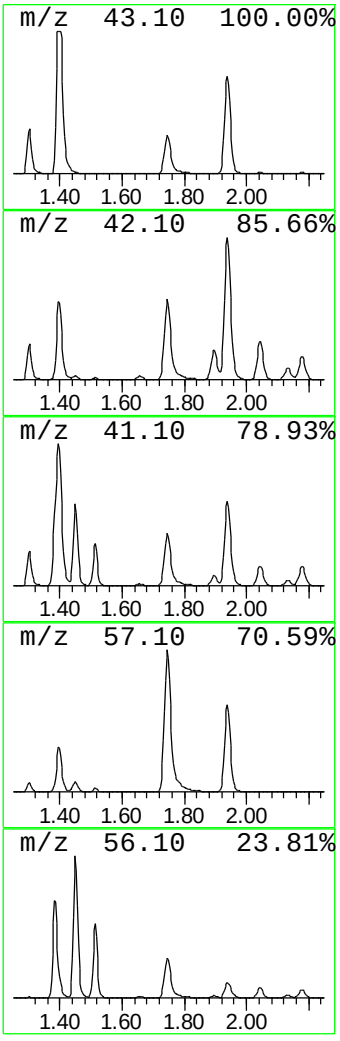
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	1928.99 ug/L	15158000	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	94
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	90
4	Pentane	72	C5H12	000109-66-0	39
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	33





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

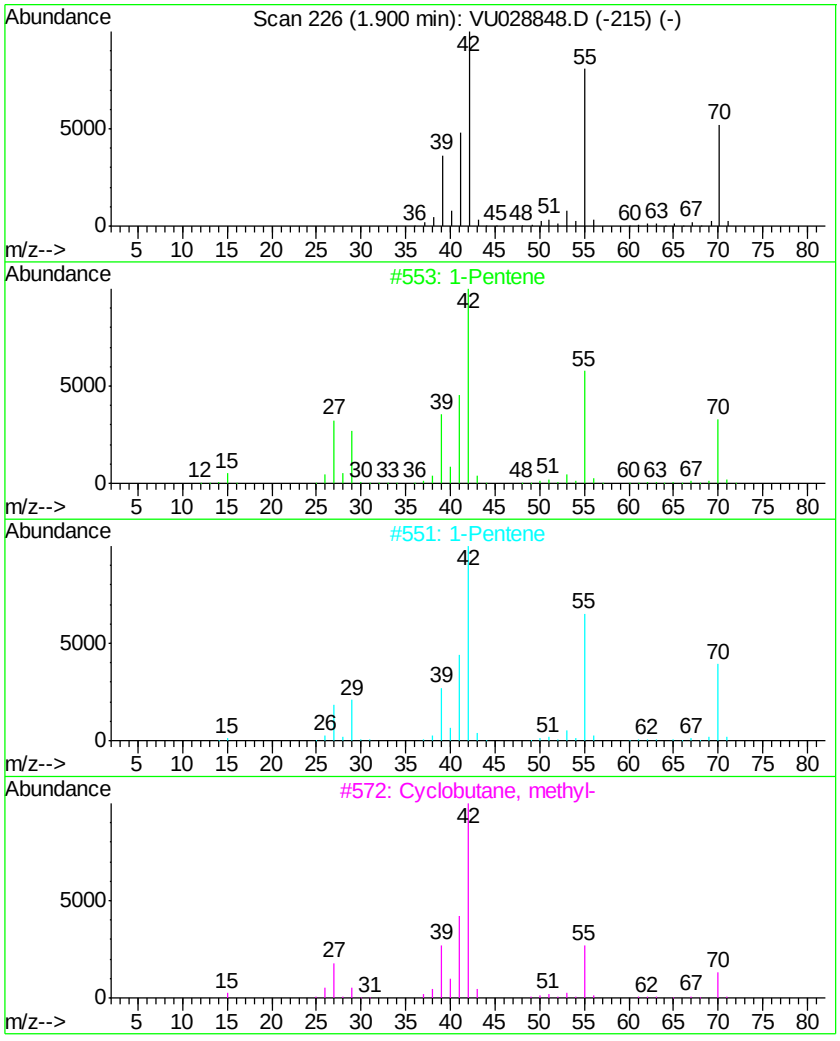
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

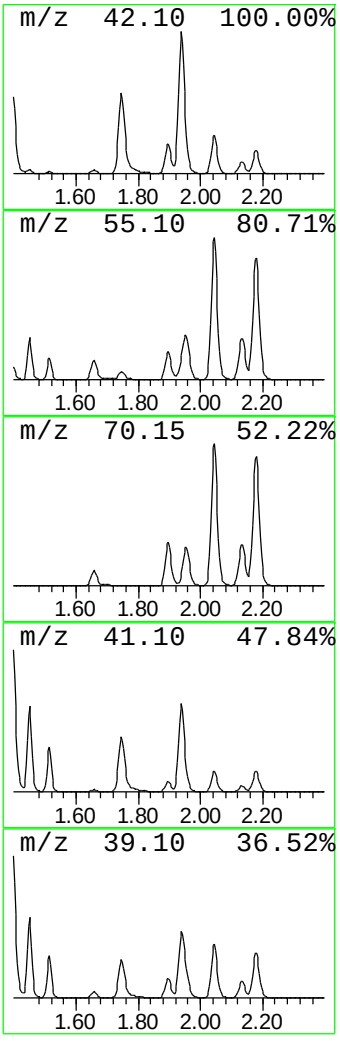
****

Peak Number 5 (DEL) Alkane: Cyclic1.90 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.90	441.91 ug/L	3472510	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene	70	C5H10	000109-67-1	91
2	1-Pentene	70	C5H10	000109-67-1	91
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	90
4	Cyclopentane	70	C5H10	000287-92-3	72
5	Cyclopentane	70	C5H10	000287-92-3	50





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

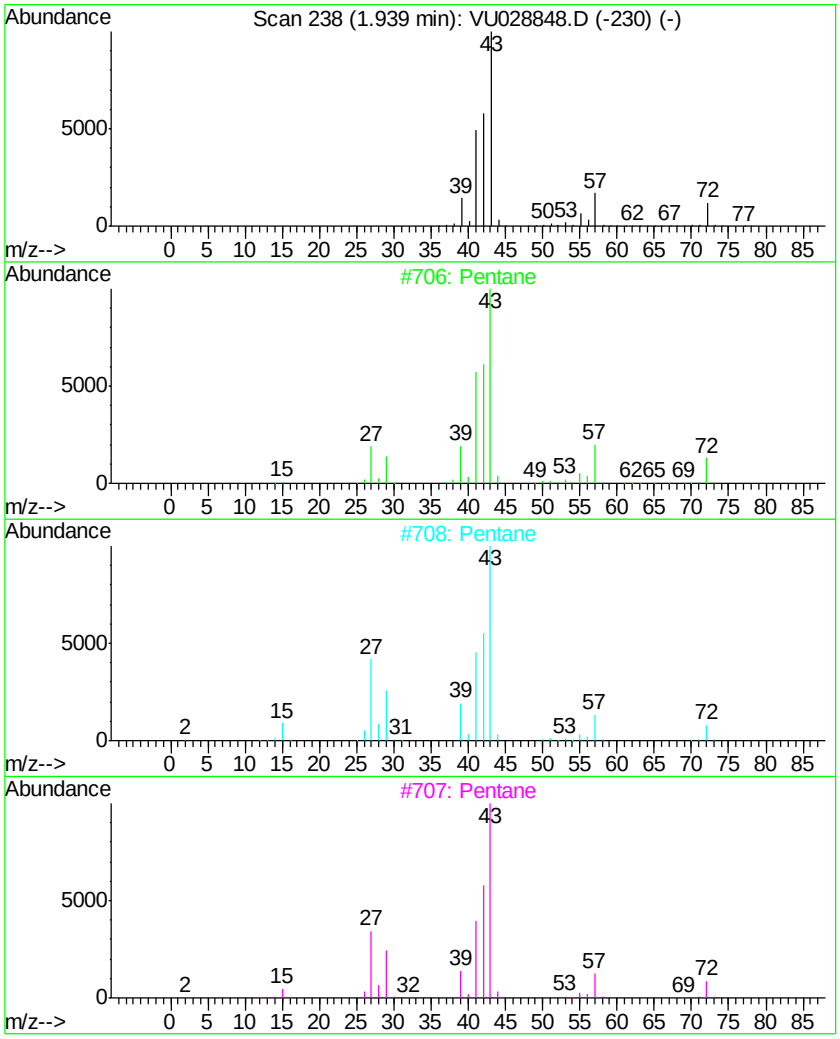
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

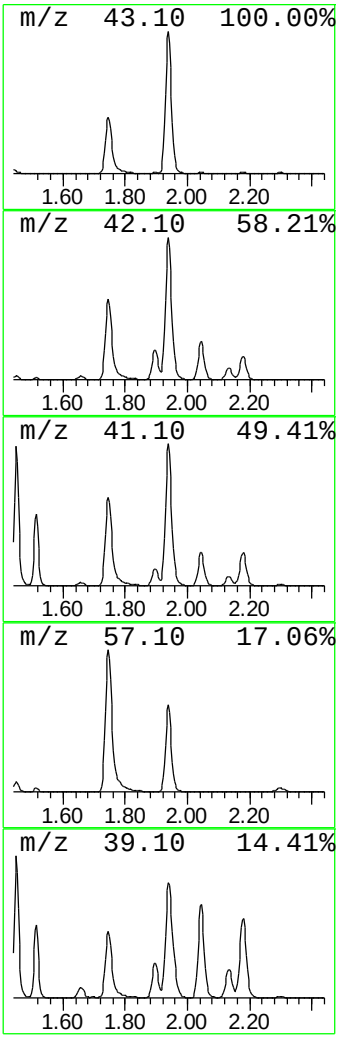
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.94	3134.68 ug/L	24632300	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	91
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	90
4	Pentane	72	C5H12	000109-66-0	90
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39





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Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

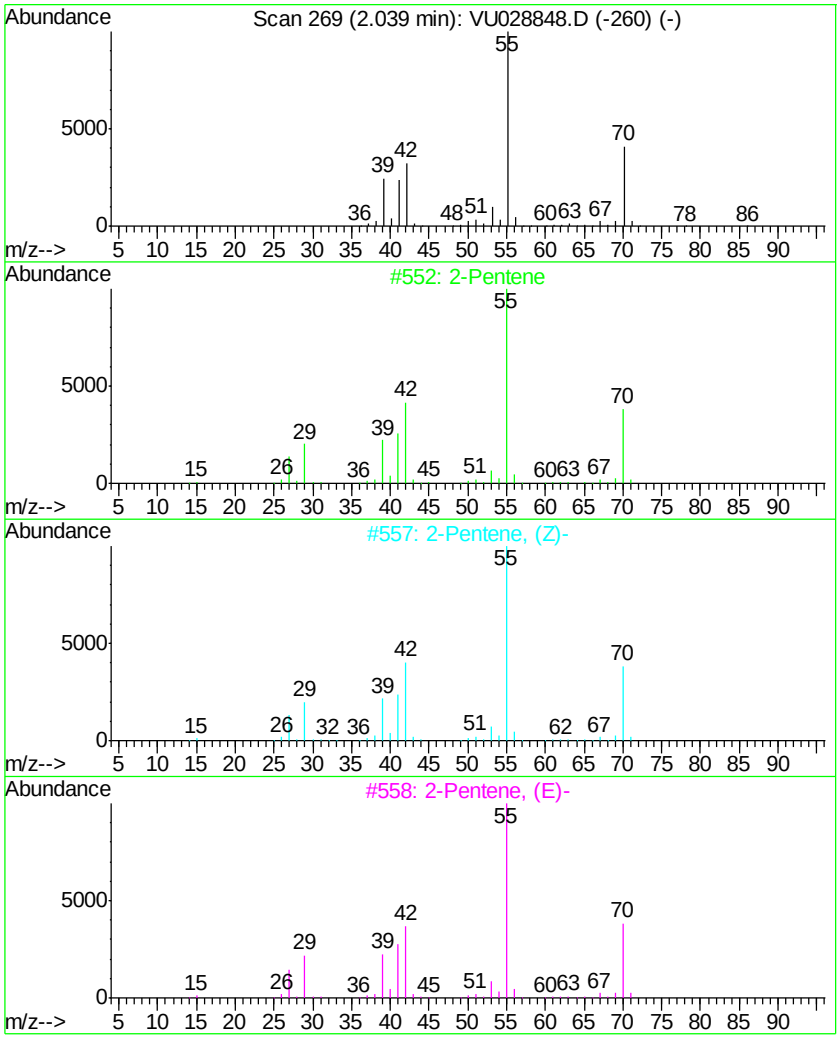
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

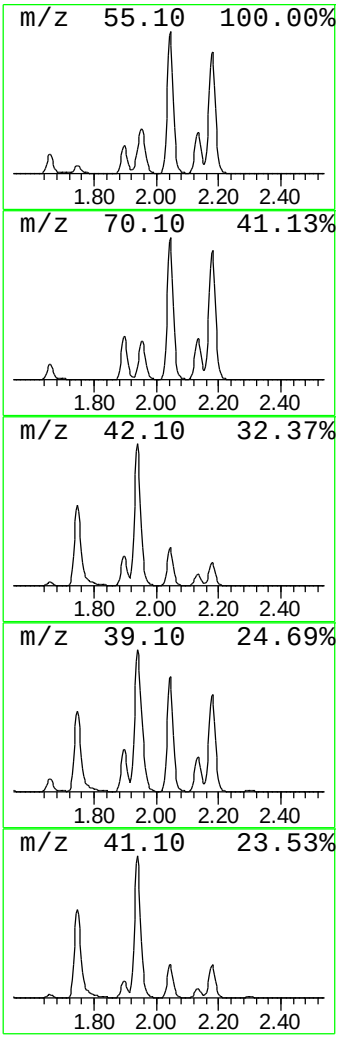
****

Peak Number 7 (DEL) Alkane: Cyclic2.04 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.04	1347.67 ug/L	10590000	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene	70	C5H10	000109-68-2	91
2	2-Pentene, (Z)-	70	C5H10	000627-20-3	91
3	2-Pentene, (E)-	70	C5H10	000646-04-8	91
4	2-Pentene, (Z)-	70	C5H10	000627-20-3	91
5	2-Methyl-1-butene	70	C5H10	000563-46-2	91





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

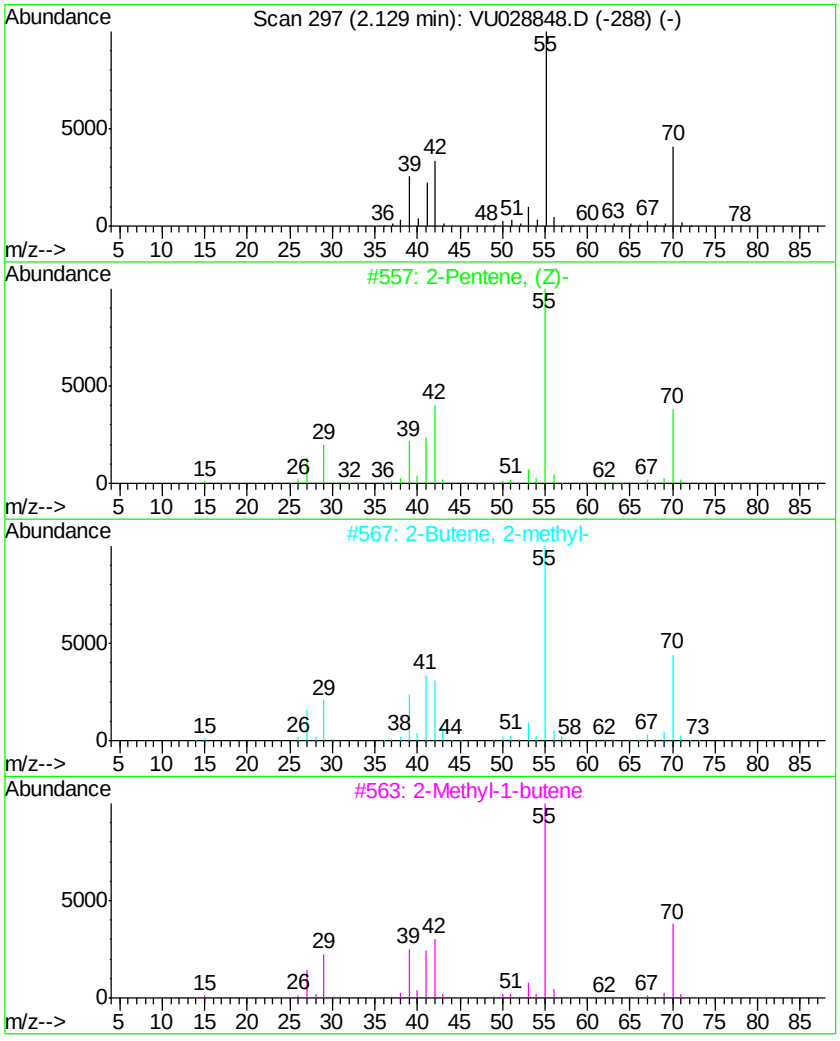
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

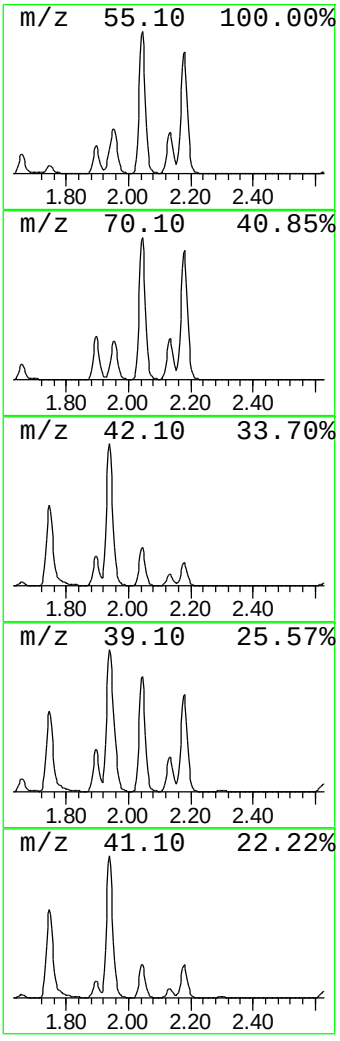
****

Peak Number 8 (DEL) Alkane: Cyclic2.13 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	415.74 ug/L	3266900	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, (Z)-	70	C5H10	000627-20-3	91
2	2-Butene, 2-methyl-	70	C5H10	000513-35-9	91
3	2-Methyl-1-butene	70	C5H10	000563-46-2	91
4	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	91
5	2-Butene, 2-methyl-	70	C5H10	000513-35-9	91





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

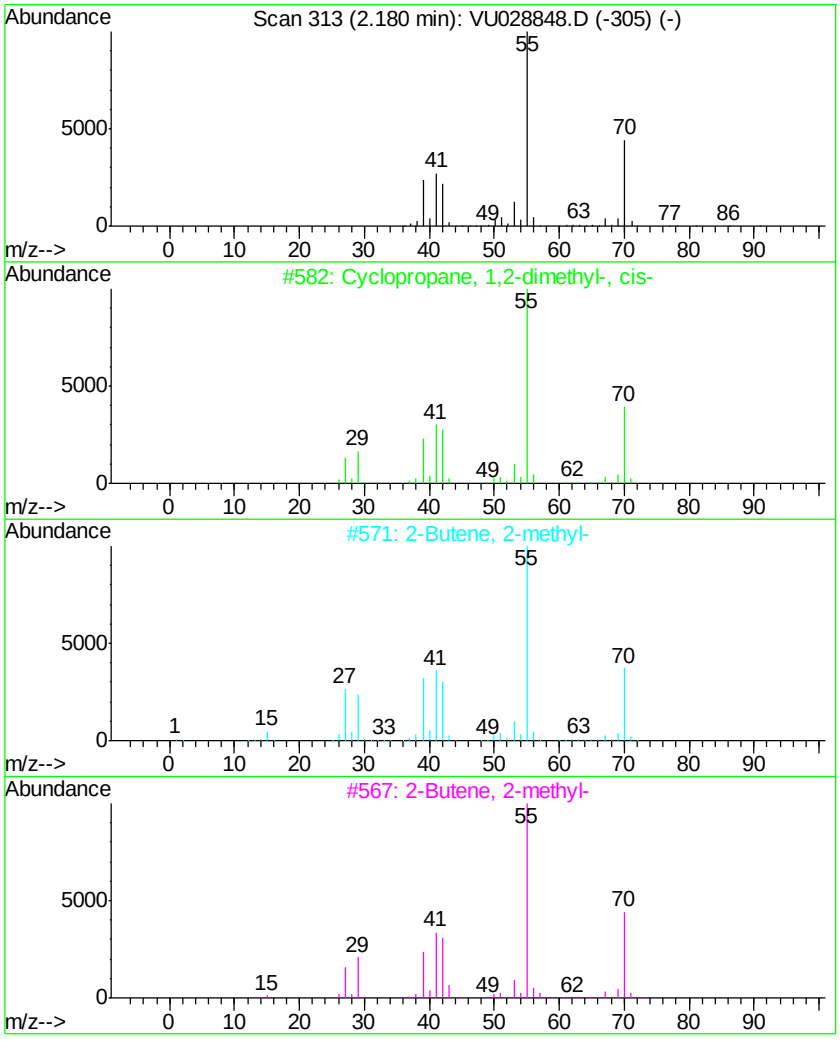
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

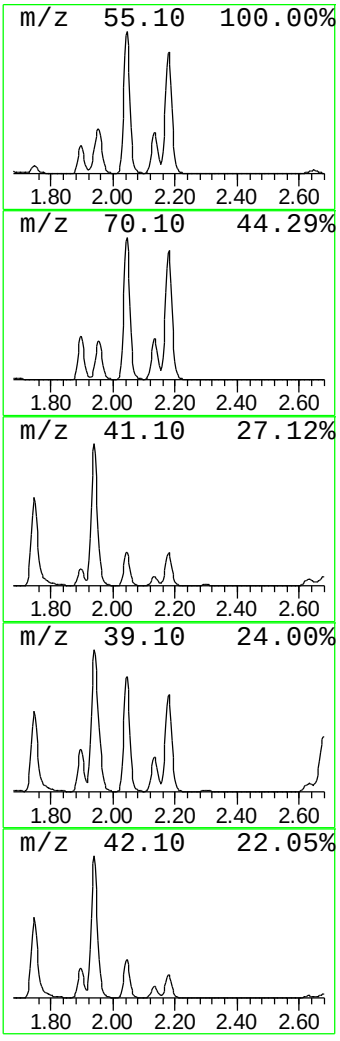
****

Peak Number 9 (DEL) Alkane: Cyclic2.18 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	1276.87 ug/L	10033700	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	91
2	2-Butene, 2-methyl-	70	C5H10	000513-35-9	91
3	2-Butene, 2-methyl-	70	C5H10	000513-35-9	90
4	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	83
5	2-Methyl-1-butene	70	C5H10	000563-46-2	78





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Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

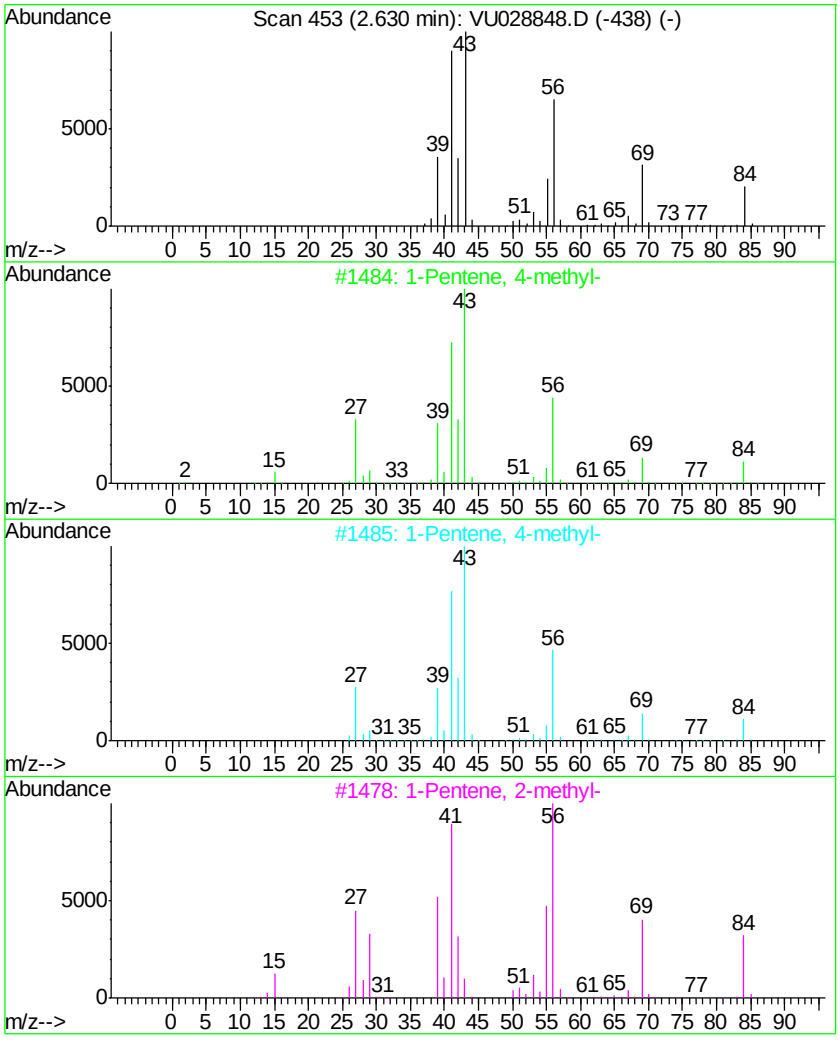
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

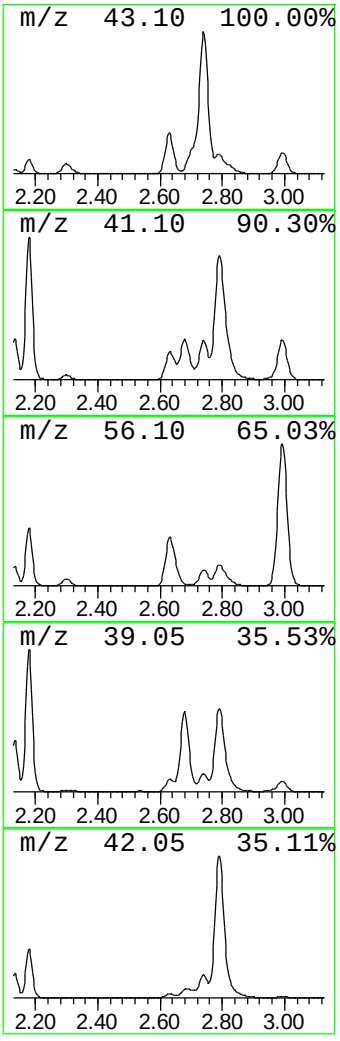
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 (DEL) Alkane: Cyclic2.63 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.63	156.16 ug/L	1227130	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	86
2	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	83
3	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	76
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	68
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	64





Library Search Compound Report

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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

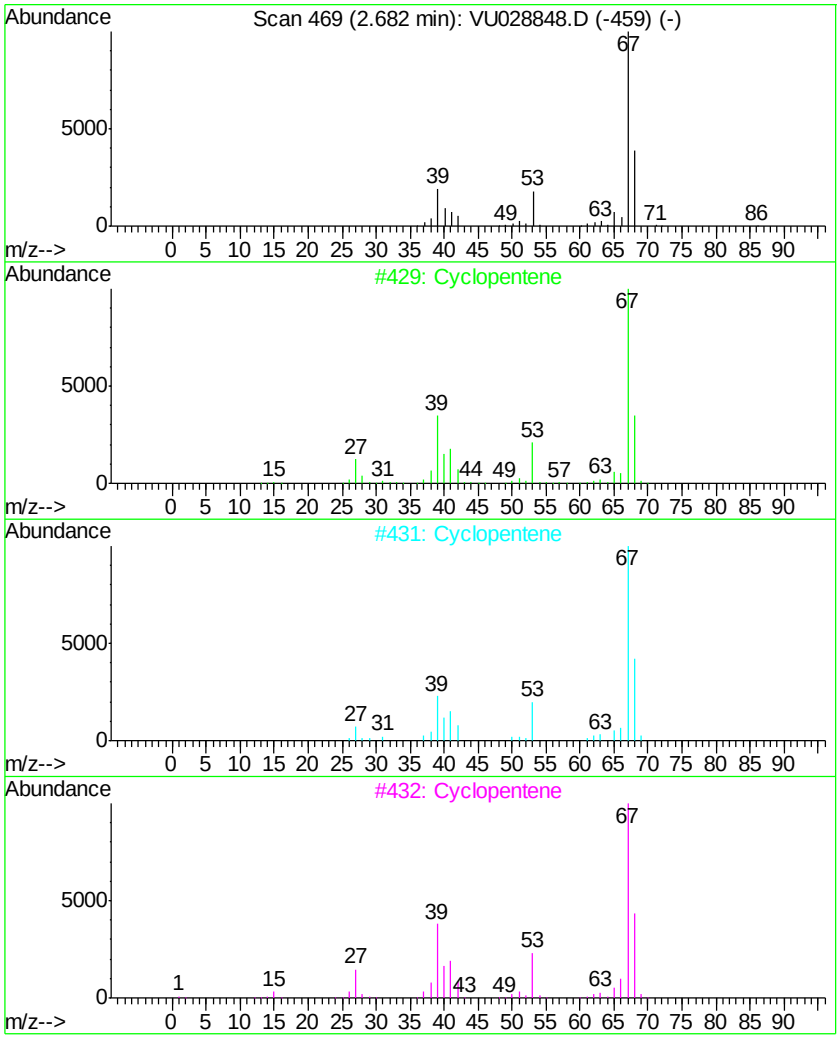
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

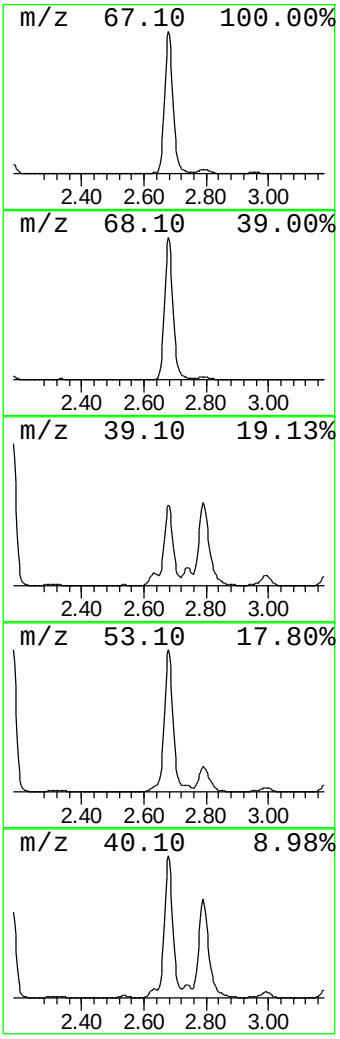
****

Peak Number 11 Cyclopentene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.68	994.56 ug/L	7815220	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene	68	C5H8	000142-29-0	90
2	Cyclopentene	68	C5H8	000142-29-0	90
3	Cyclopentene	68	C5H8	000142-29-0	78
4	1,4-Pentadiene	68	C5H8	000591-93-5	62
5	1,3-Pentadiene, (Z)-	68	C5H8	001574-41-0	58





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

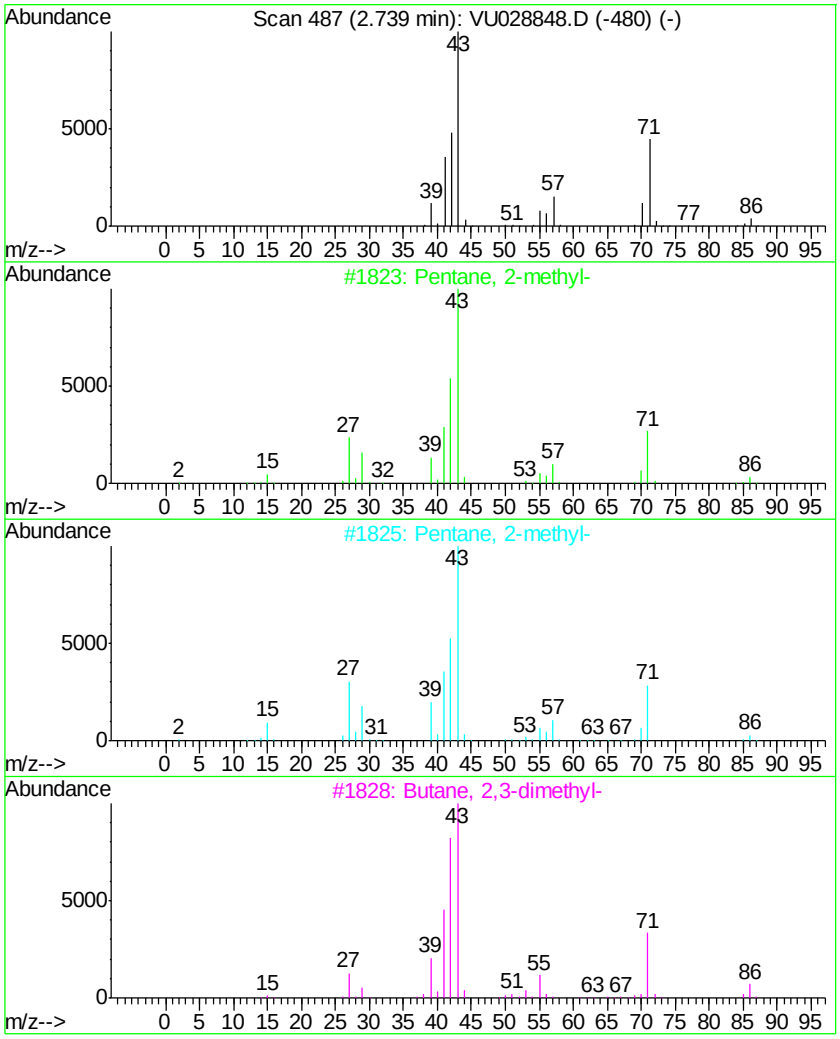
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

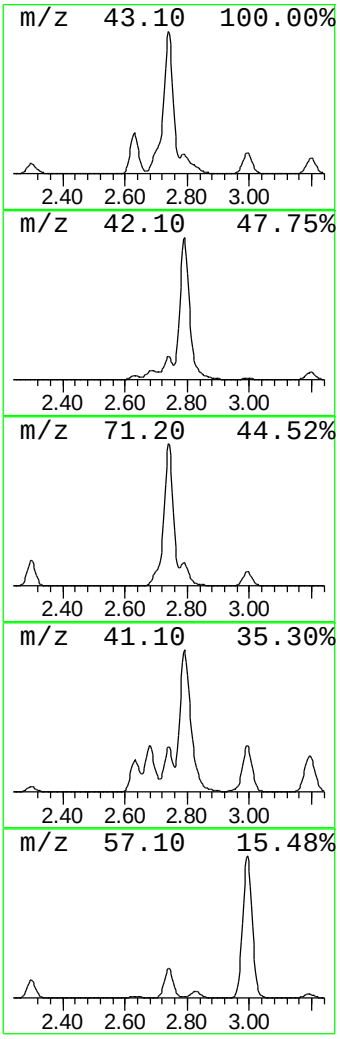
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.74	374.48 ug/L	2942680	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	43
4	Sulfurous acid, hexyl pentyl ester	236	C11H24O3S	1000309-14-1	42
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

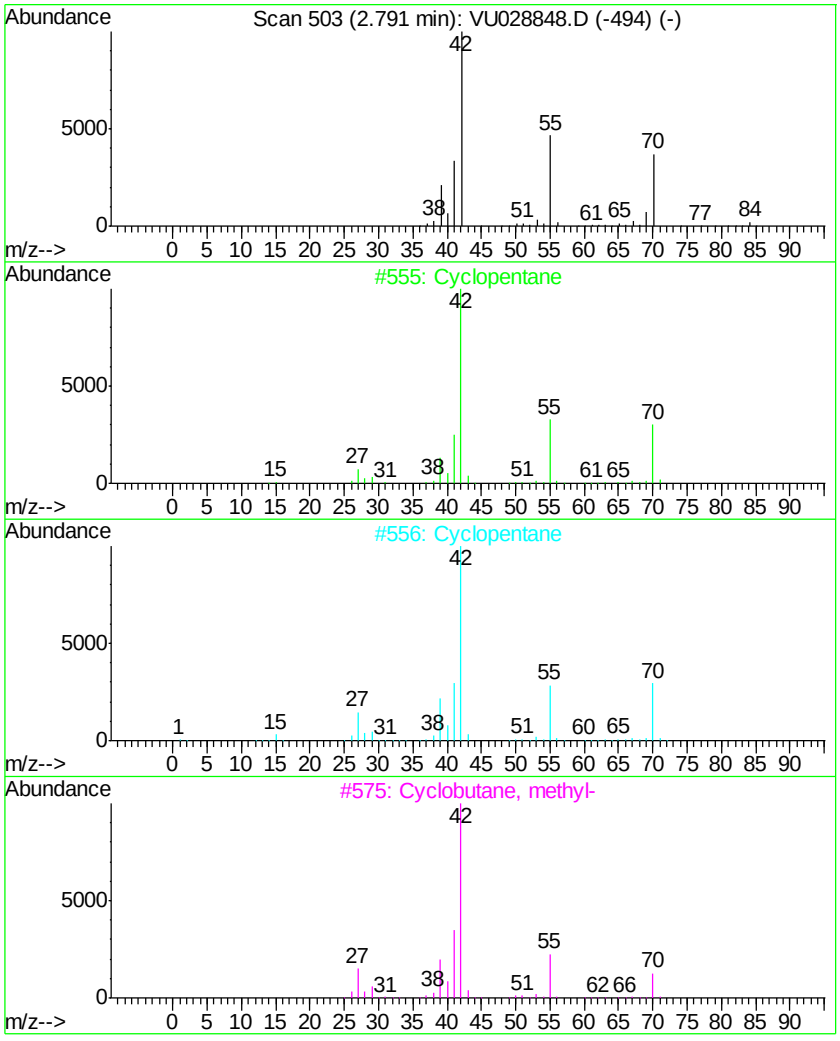
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

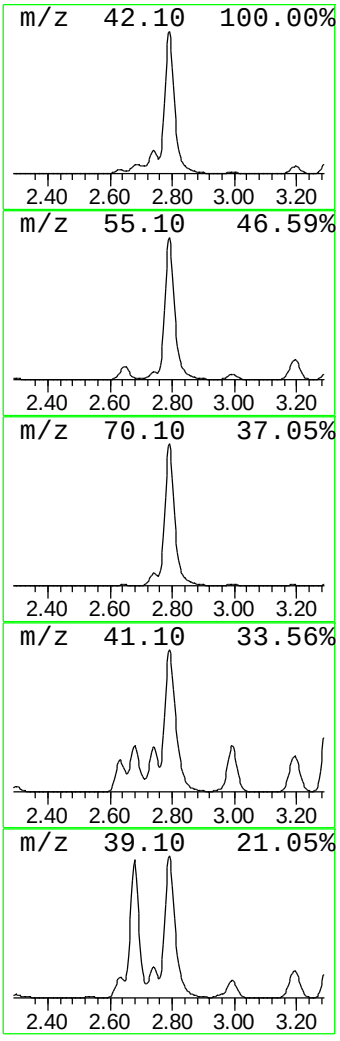
****

Peak Number 13 (DEL) Alkane: Cyclic2.79 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.79	1422.05 ug/L	11174500	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	78
2	Cyclopentane	70	C5H10	000287-92-3	72
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	72
4	1-Pentene	70	C5H10	000109-67-1	53
5	1-Pentene	70	C5H10	000109-67-1	23





Library Search Compound Report

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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

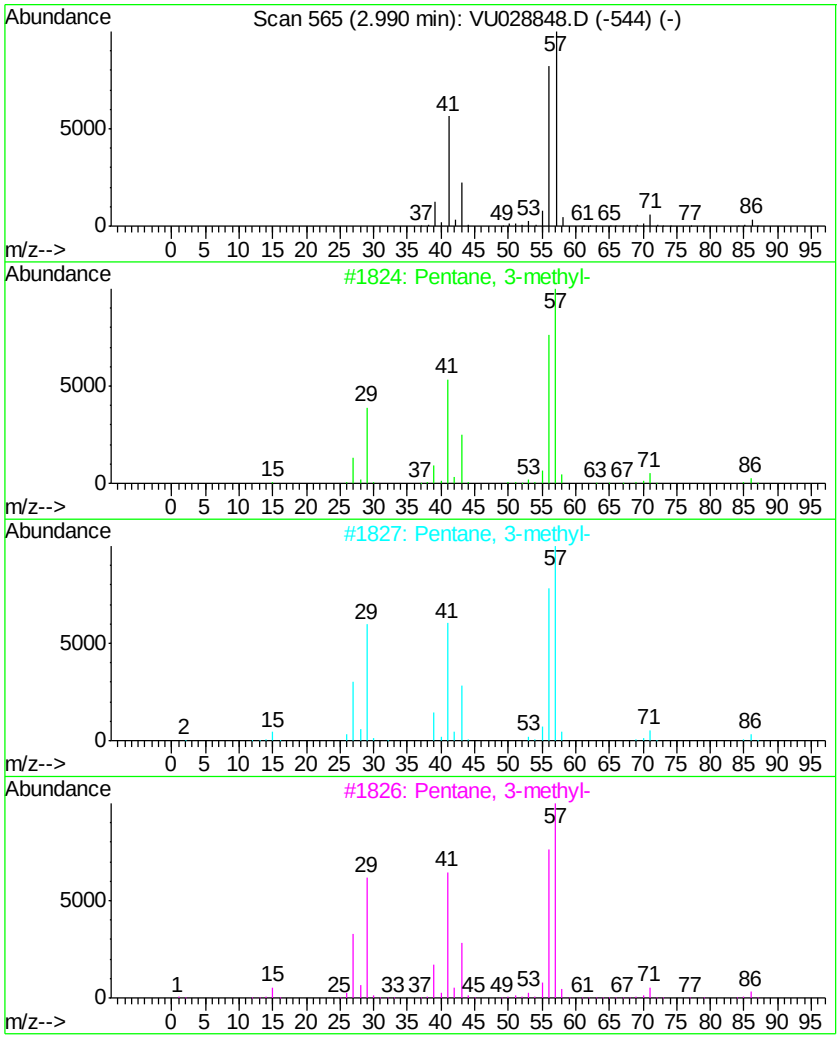
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

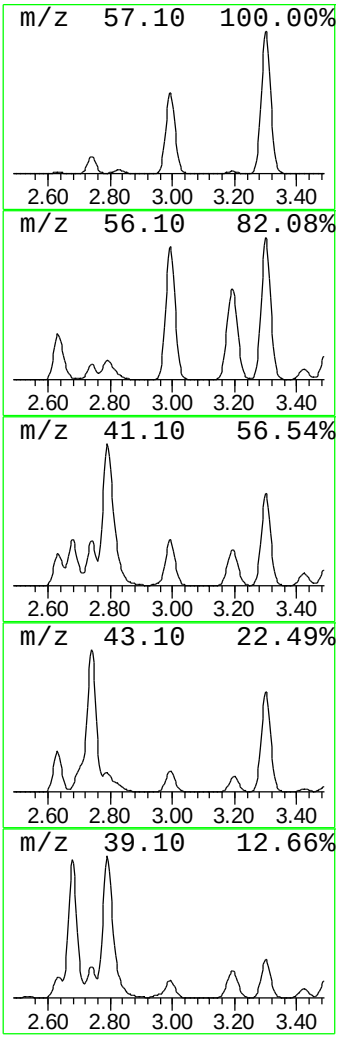
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	303.68 ug/L	2386310	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	86
4	Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	56
5	Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	45





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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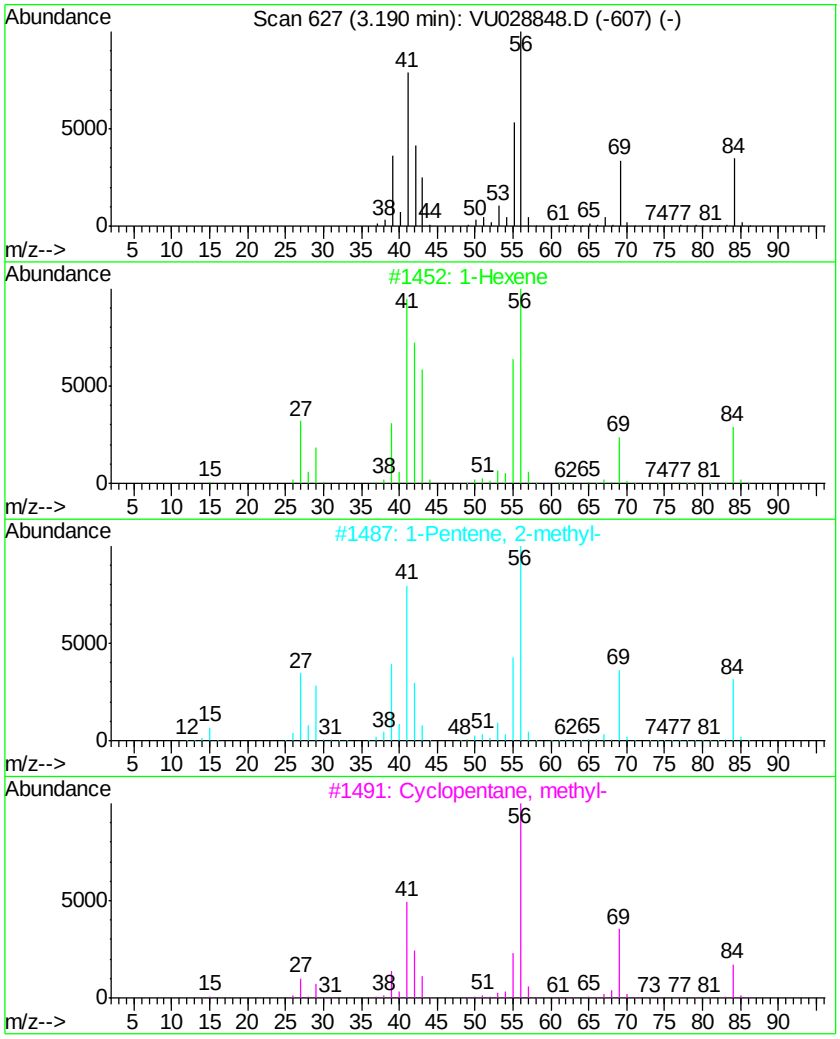
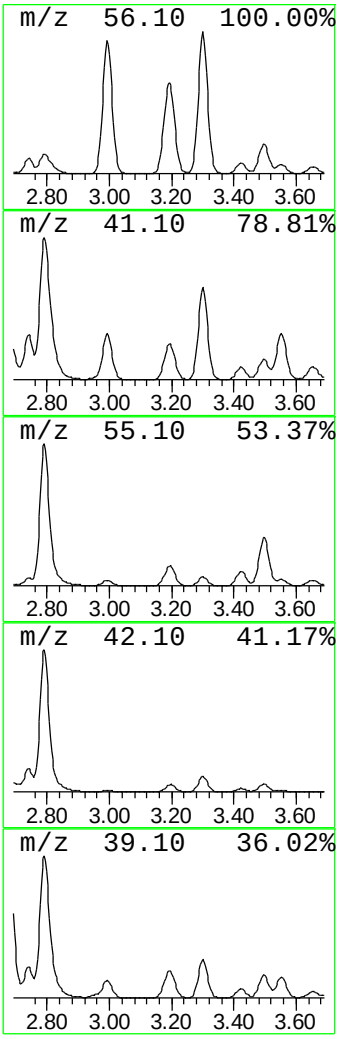
Peak Number 15 (DEL) Alkane: Cyclic3.19 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.19	265.66 ug/L	2087520	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene	84	C6H12	000592-41-6	91
2	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	87
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
4	Cyclohexane	84	C6H12	000110-82-7	86
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	83





Library Search Compound Report

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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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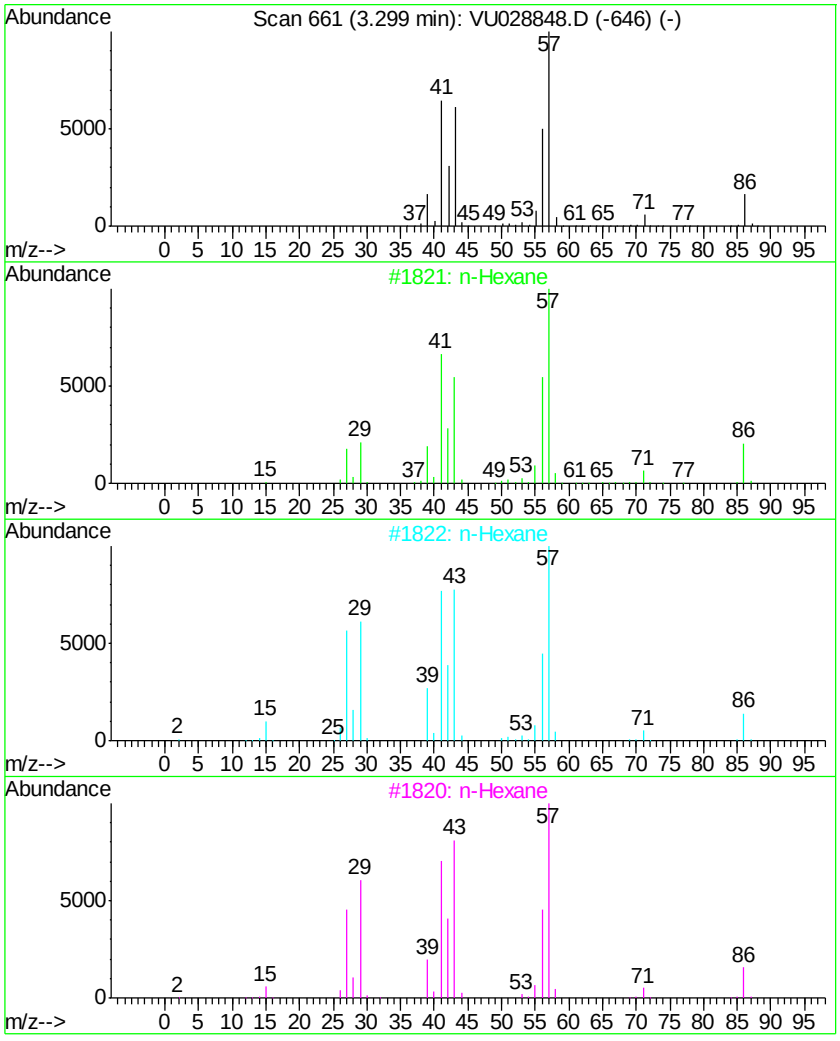
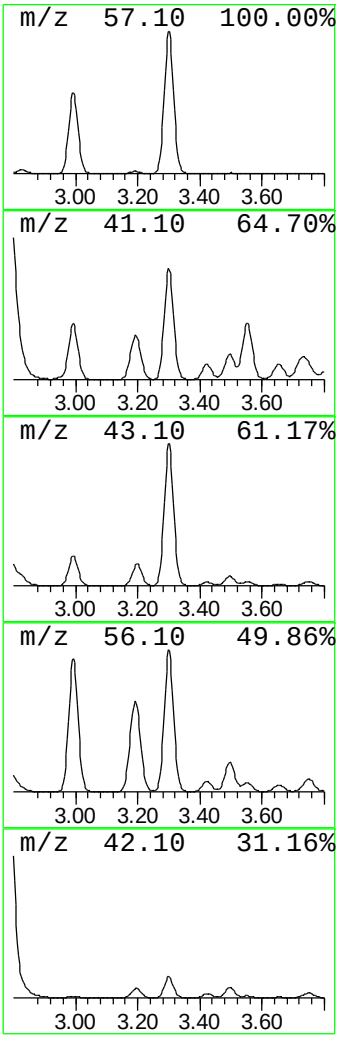
Peak Number 16 (DEL) Alkane: Cyclic3.30 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.30	583.65 ug/L	4586330	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	91
2	n-Hexane	86	C6H14	000110-54-3	91
3	n-Hexane	86	C6H14	000110-54-3	91
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	53
5	Propanal, 2,2-dimethyl-	86	C5H10O	000630-19-3	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

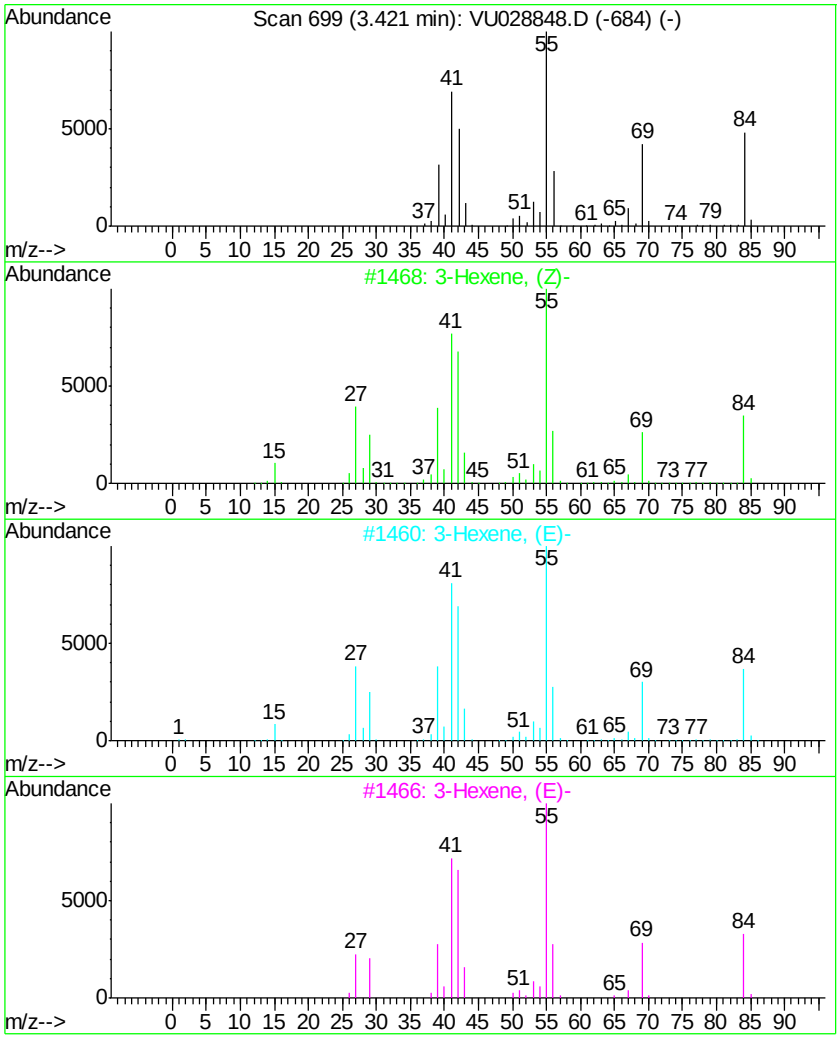
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

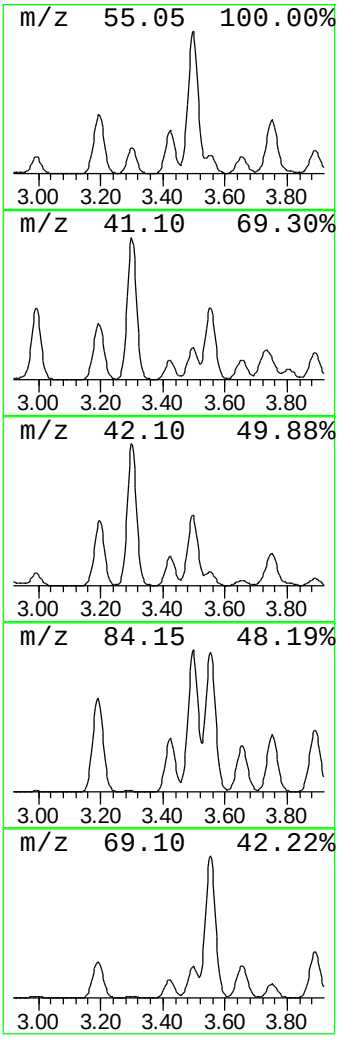
****

Peak Number 17 (DEL) Alkane: Cyclic3.42 Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.42	93.77 ug/L	736860	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
2	3-Hexene, (E)-	84	C6H12	013269-52-8	91
3	3-Hexene, (E)-	84	C6H12	013269-52-8	91
4	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
5	3-Hexene	84	C6H12	000592-47-2	91





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

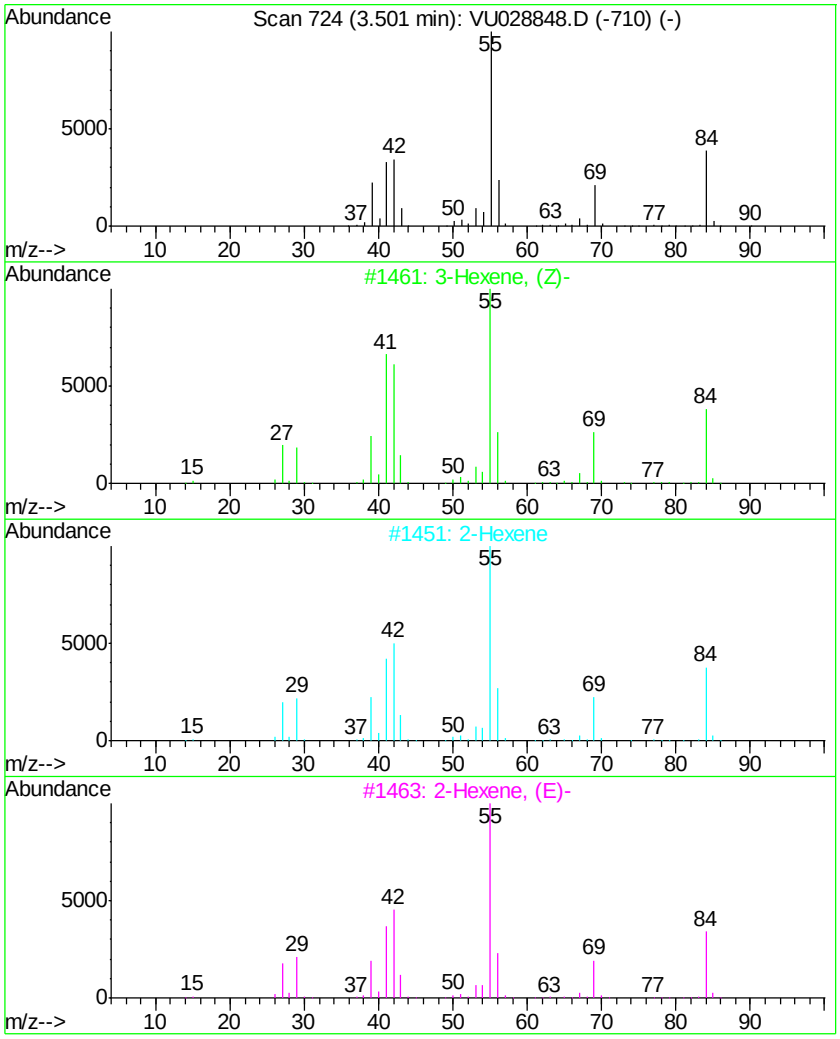
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

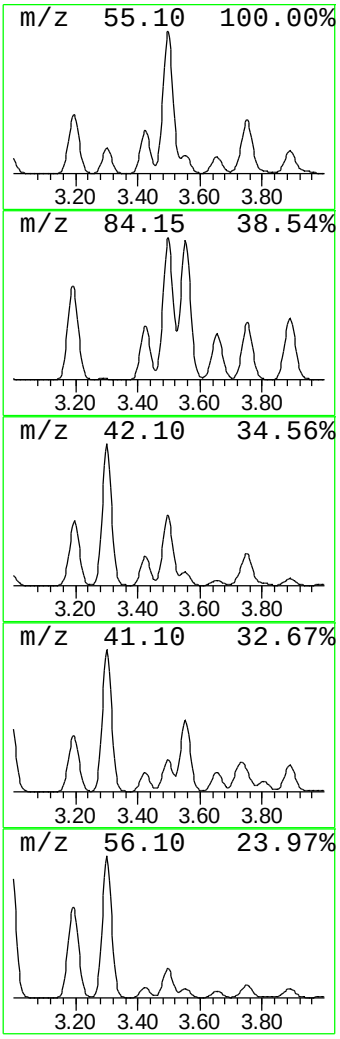
****

Peak Number 18 (DEL) Alkane: Cyclic3.50 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.50	236.53 ug/L	1858630	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
2	2-Hexene	84	C6H12	000592-43-8	91
3	2-Hexene, (E)-	84	C6H12	004050-45-7	91
4	2-Hexene	84	C6H12	000592-43-8	91
5	2-Hexene, (E)-	84	C6H12	004050-45-7	91





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

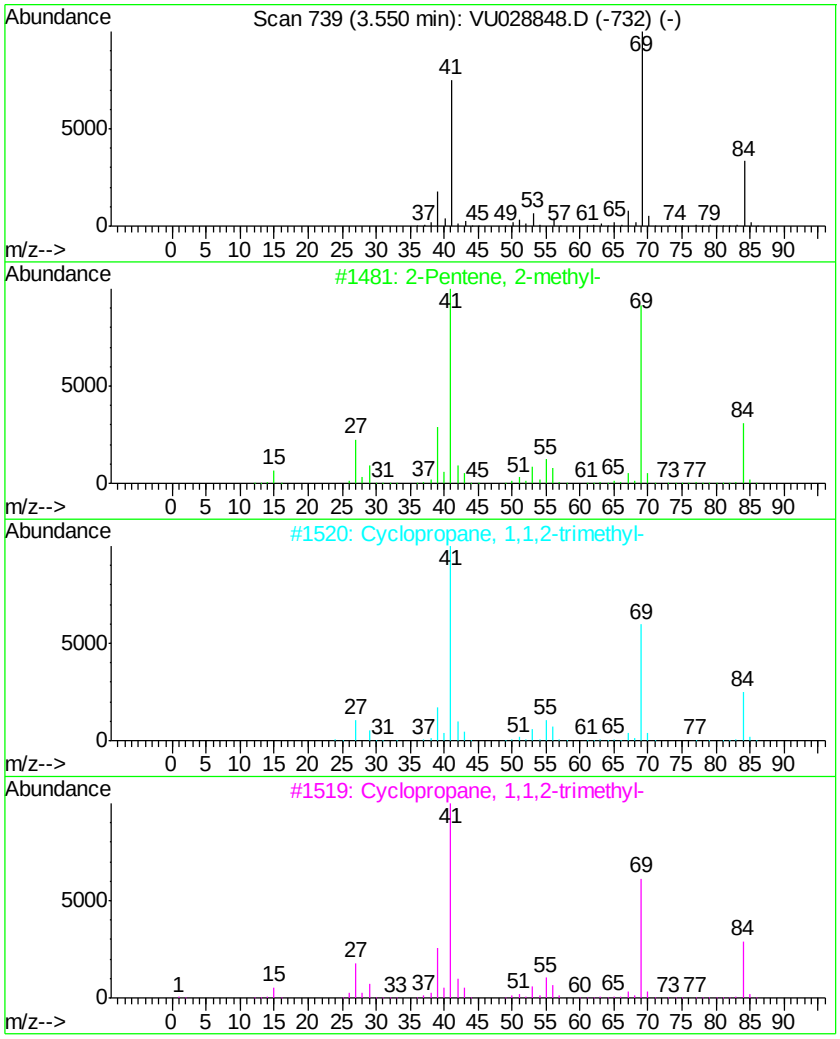
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

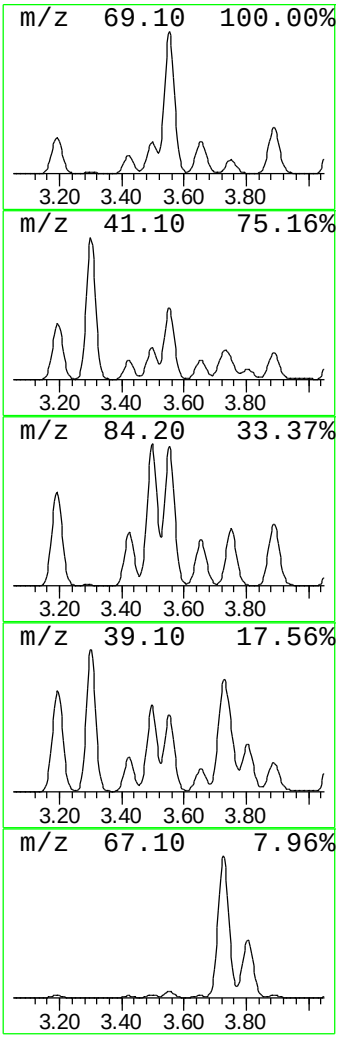
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 (DEL) Alkane: Cyclic3.55 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	214.67 ug/L	1686860	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	90
2	Cyclopropane, 1,1,2-trimethyl-	84	C6H12	004127-45-1	90
3	Cyclopropane, 1,1,2-trimethyl-	84	C6H12	004127-45-1	90
4	1-Butene, 2,3-dimethyl-	84	C6H12	000563-78-0	86
5	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	83





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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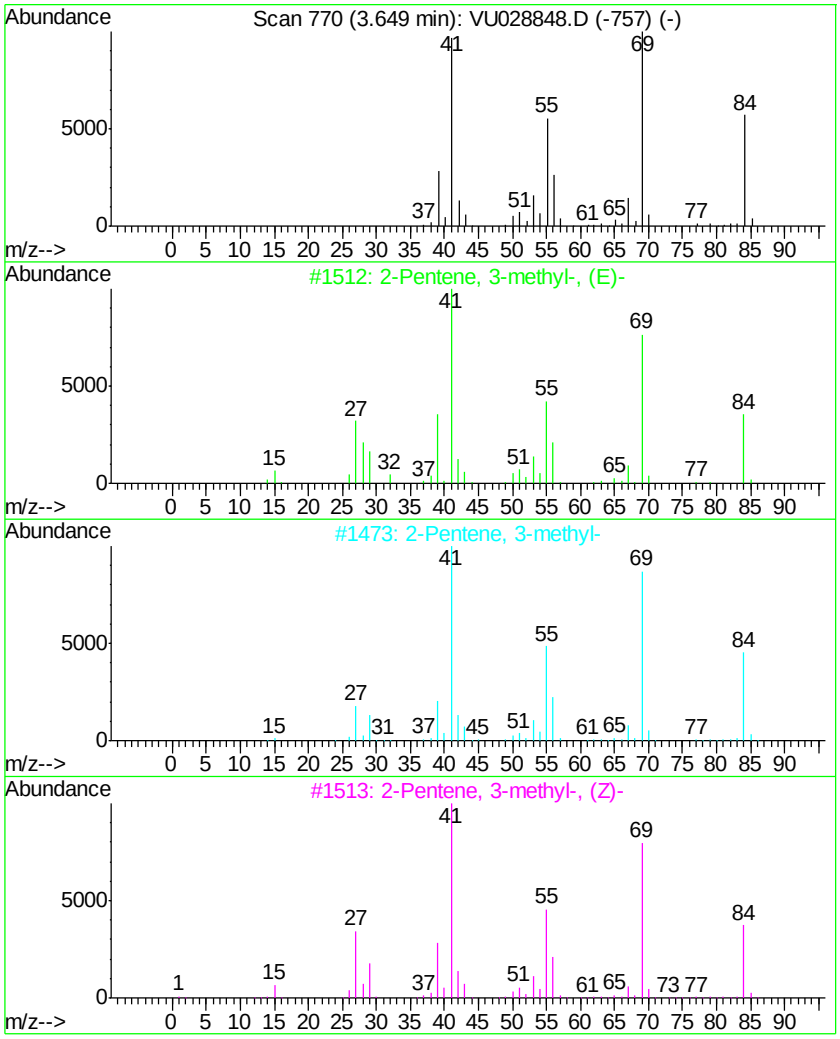
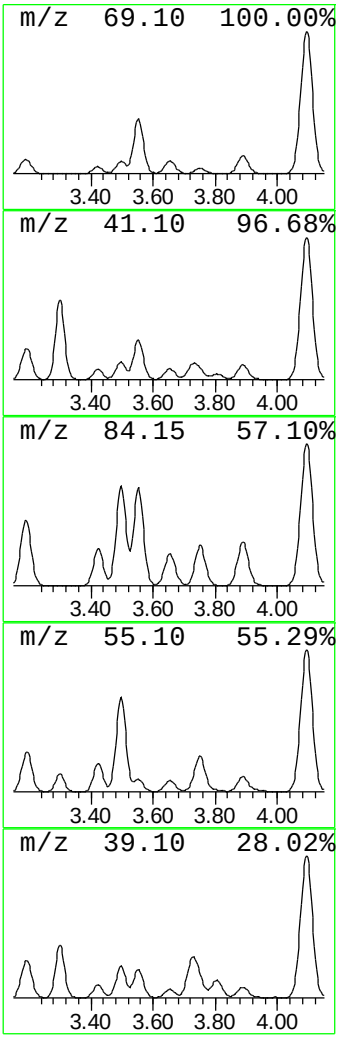
Peak Number 20 (DEL) Alkane: Cyclic3.65 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.65	74.04 ug/L	581768	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	95
2	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	94
3	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	94
4	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	94
5	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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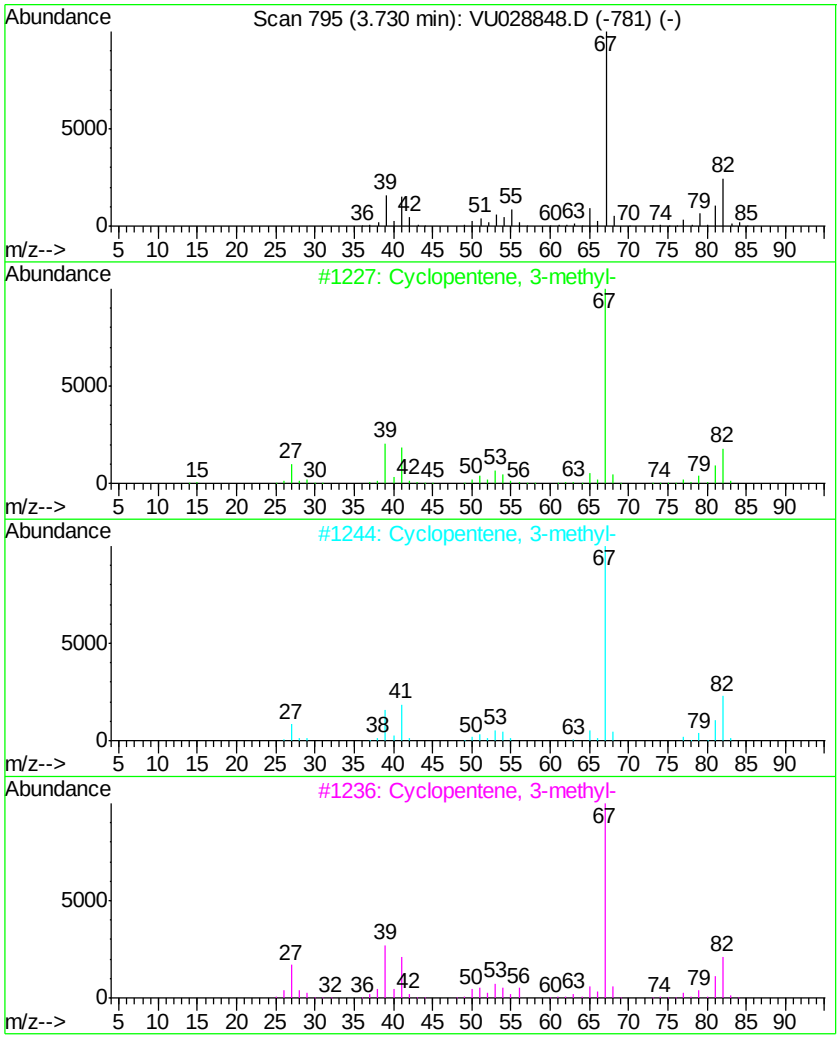
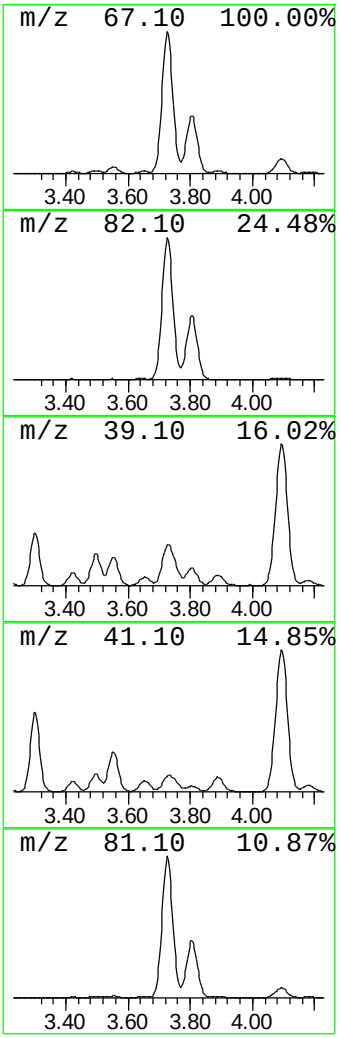
Peak Number 21 Cyclopentene, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.73	421.13 ug/L	3309270	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	91
2	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	91
3	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	91
4	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	90
5	1,4-Pentadiene, 2-methyl-	82	C6H10	000763-30-4	90





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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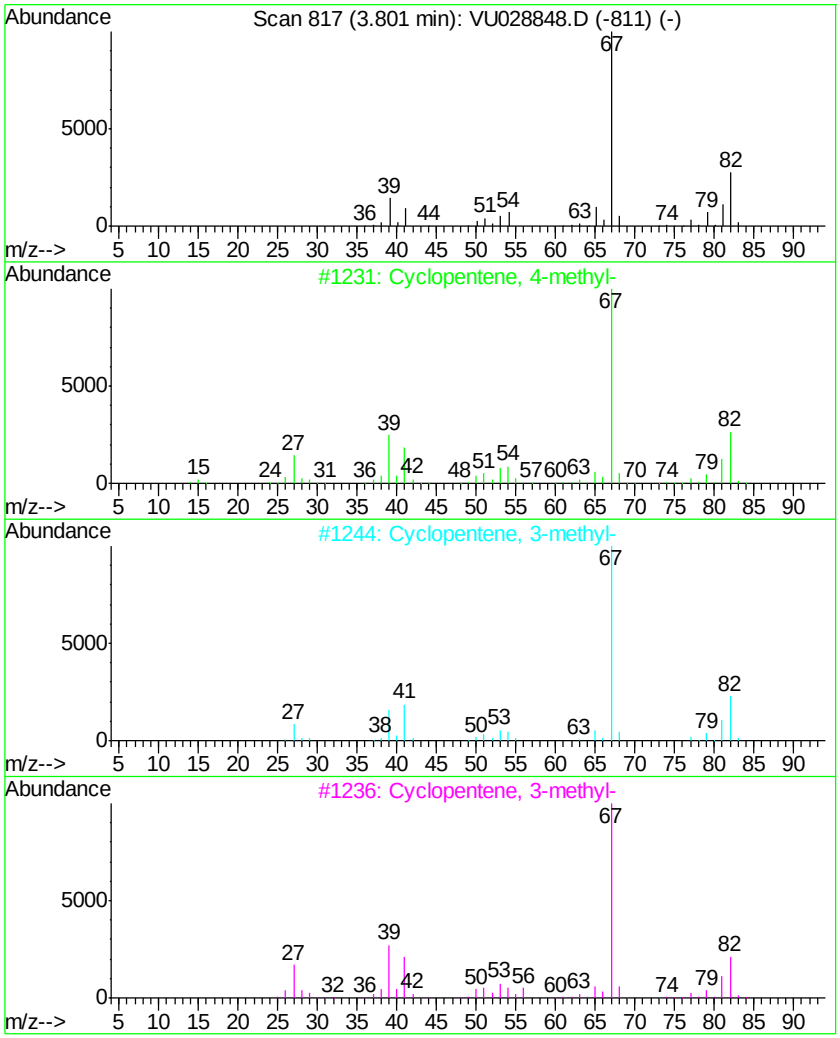
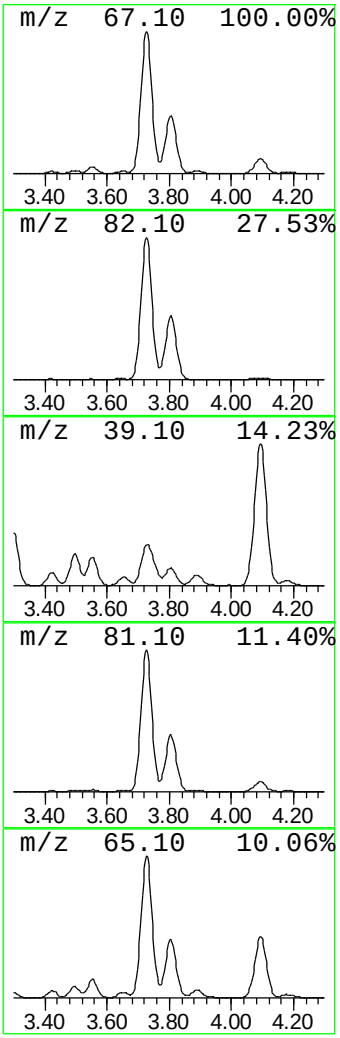
Peak Number 22 Cyclopentene, 4-methyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.80	131.14 ug/L	1030530	1,4-Difluorobenzene	5.88

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





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

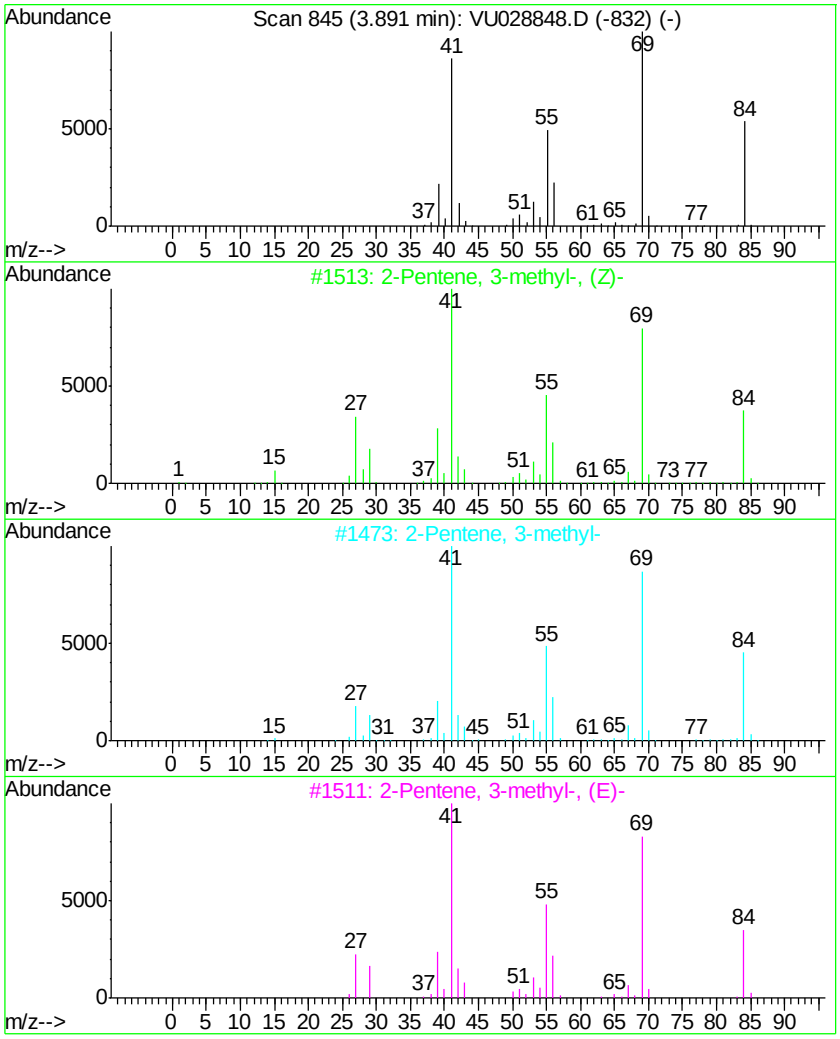
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

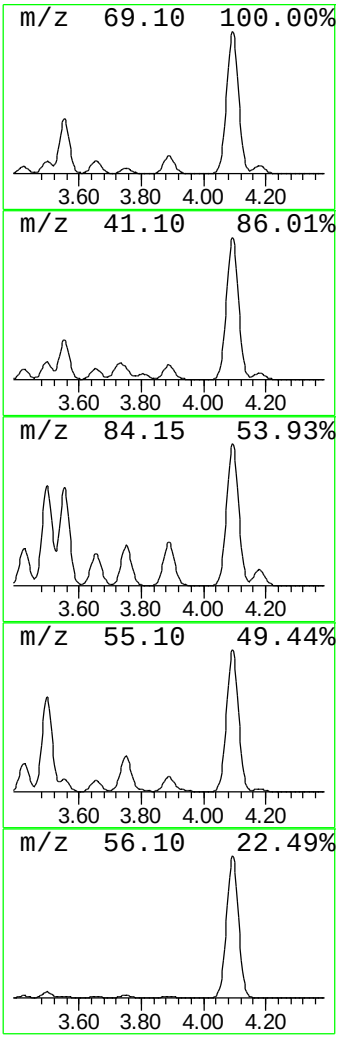
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Cyclic3.89 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.89	105.57 ug/L	829581	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	91
2	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	91
3	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91
4	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	91
5	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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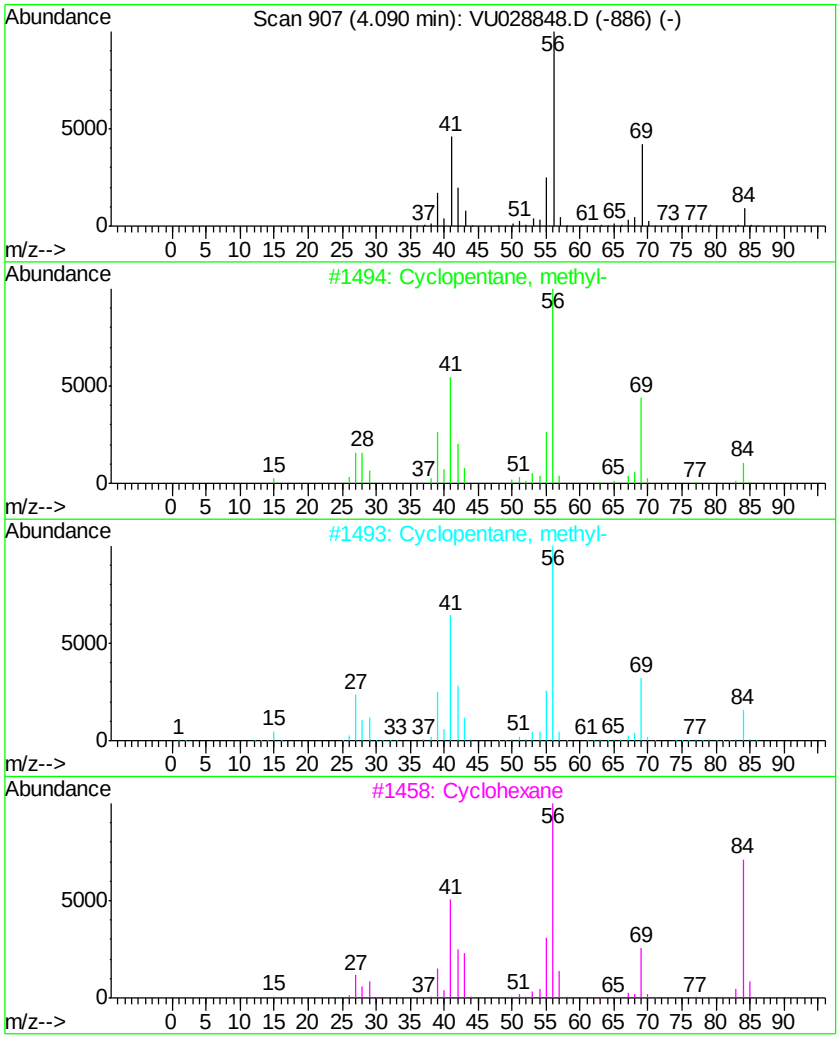
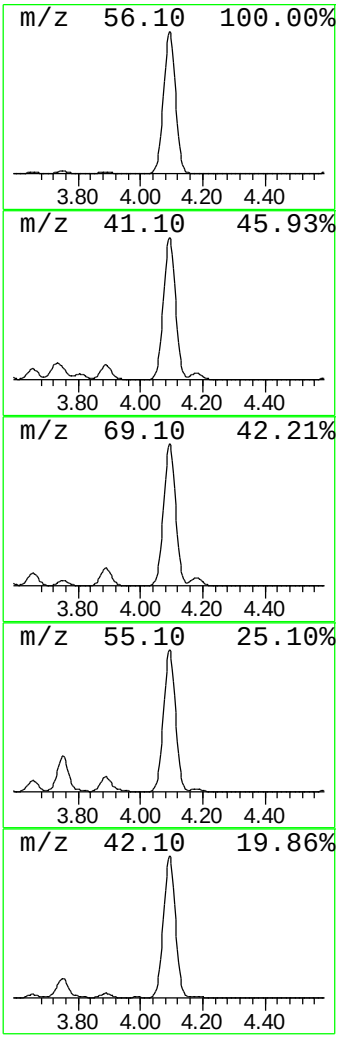
Peak Number 24 (DEL) Alkane: Cyclic4.09 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.09	1549.47 ug/L	12175800	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3	Cyclohexane	84	C6H12	000110-82-7	78
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
5	Cyclobutane, ethyl-	84	C6H12	004806-61-5	72





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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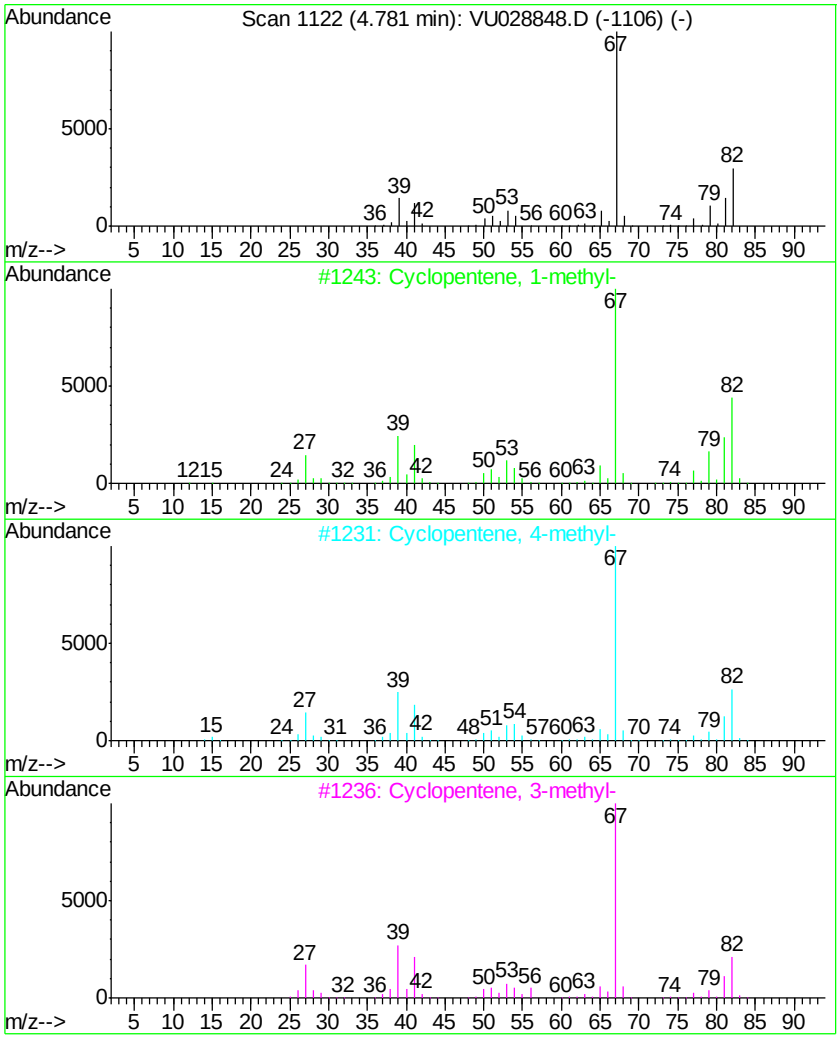
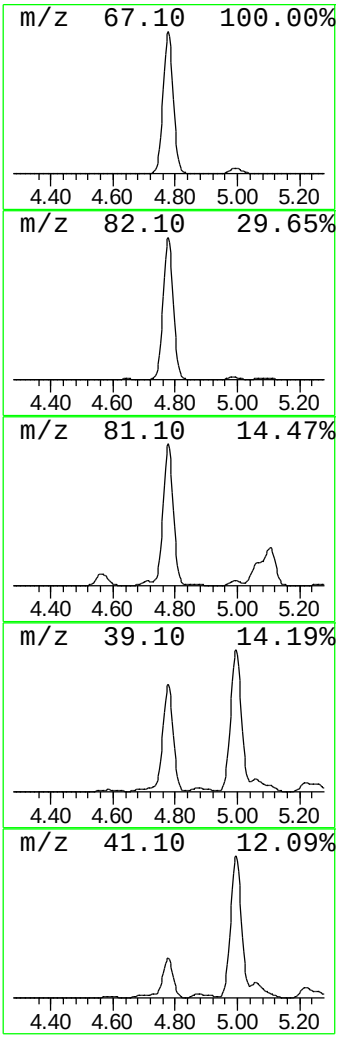
Peak Number 25 Cyclopentene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.78	571.40 ug/L	4490090	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	90
2	Cyclopentene, 4-methyl-	82	C6H10	001759-81-5	90
3	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	87
4	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	87
5	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	86





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Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

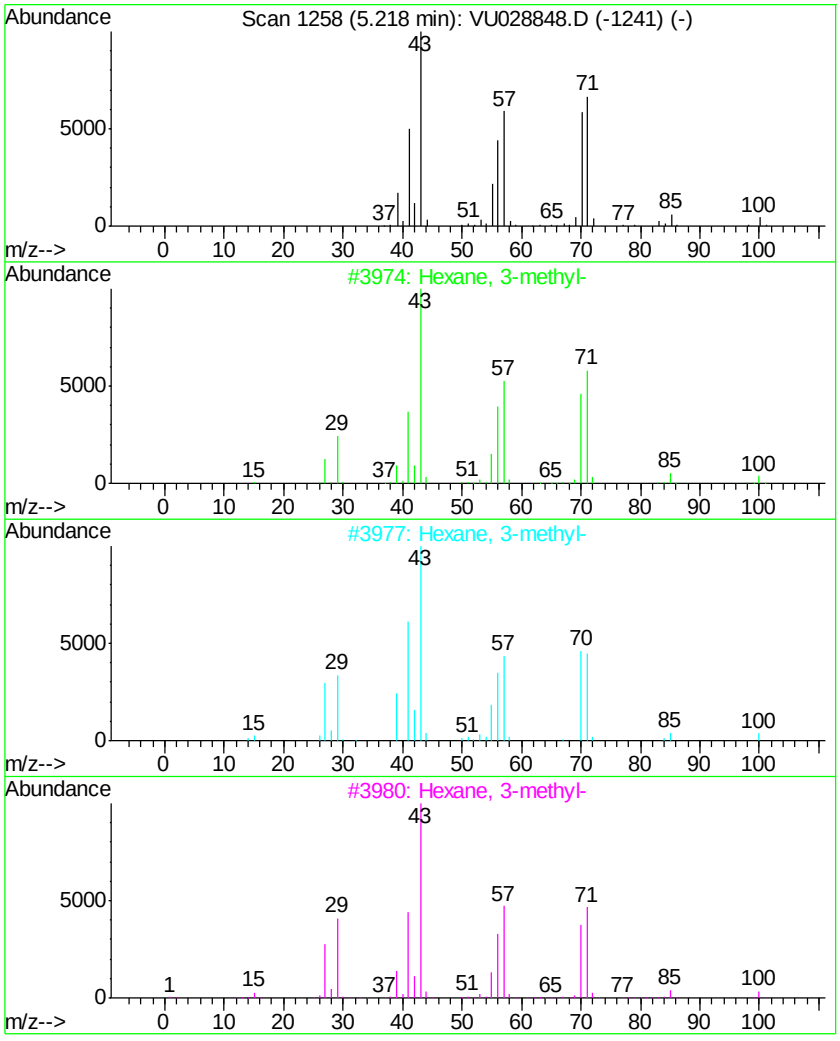
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

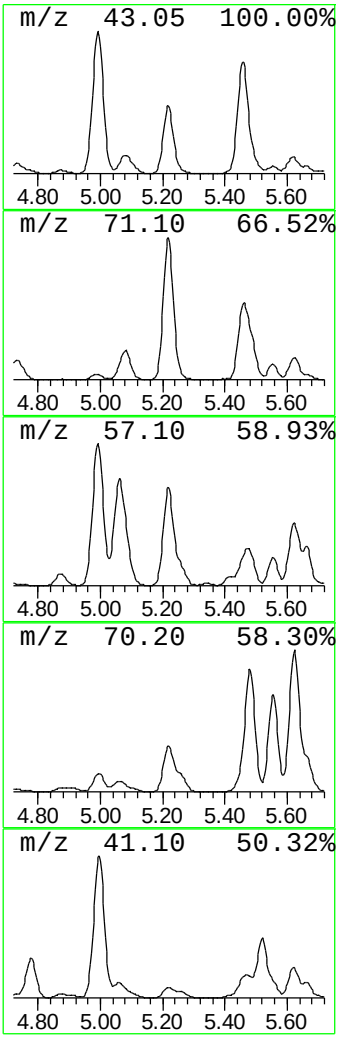
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.22	83.25 ug/L	654170	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	83
4	Heptane	100	C7H16	000142-82-5	72
5	Heptane	100	C7H16	000142-82-5	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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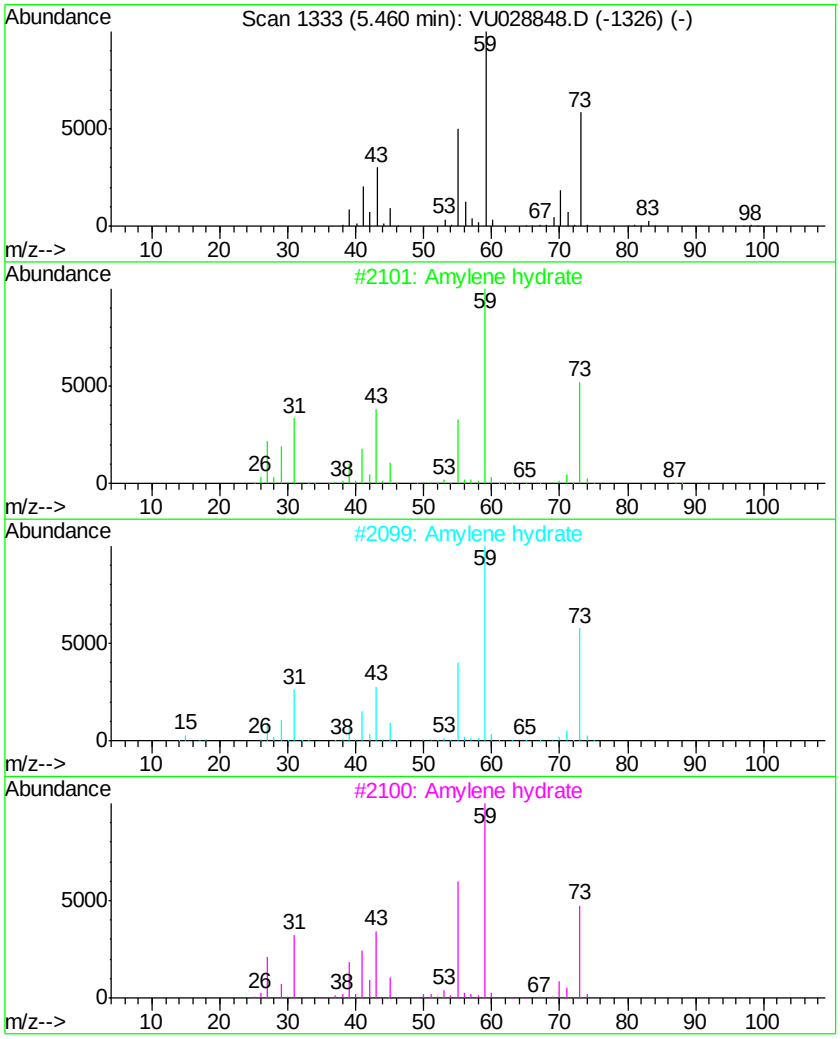
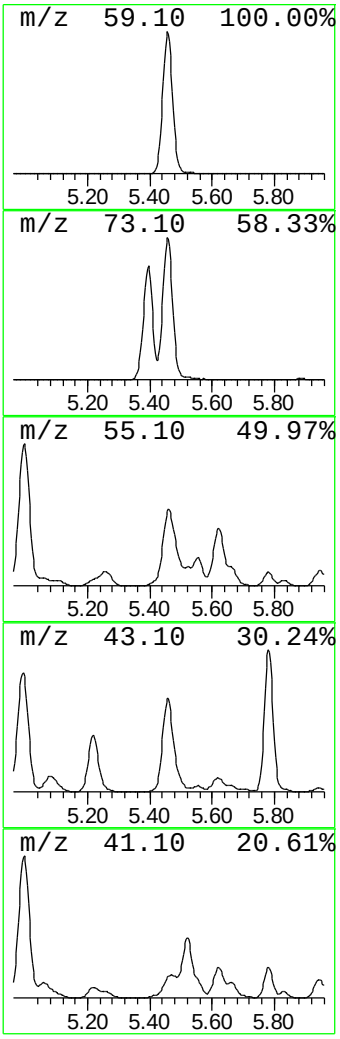
Peak Number 27 Amylene hydrate Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.46	297.41 ug/L	2337070	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Amylene hydrate	88	C5H12O	000075-85-4	64
2	Amylene hydrate	88	C5H12O	000075-85-4	56
3	Amylene hydrate	88	C5H12O	000075-85-4	56
4	3-Hexanol	102	C6H14O	000623-37-0	40
5	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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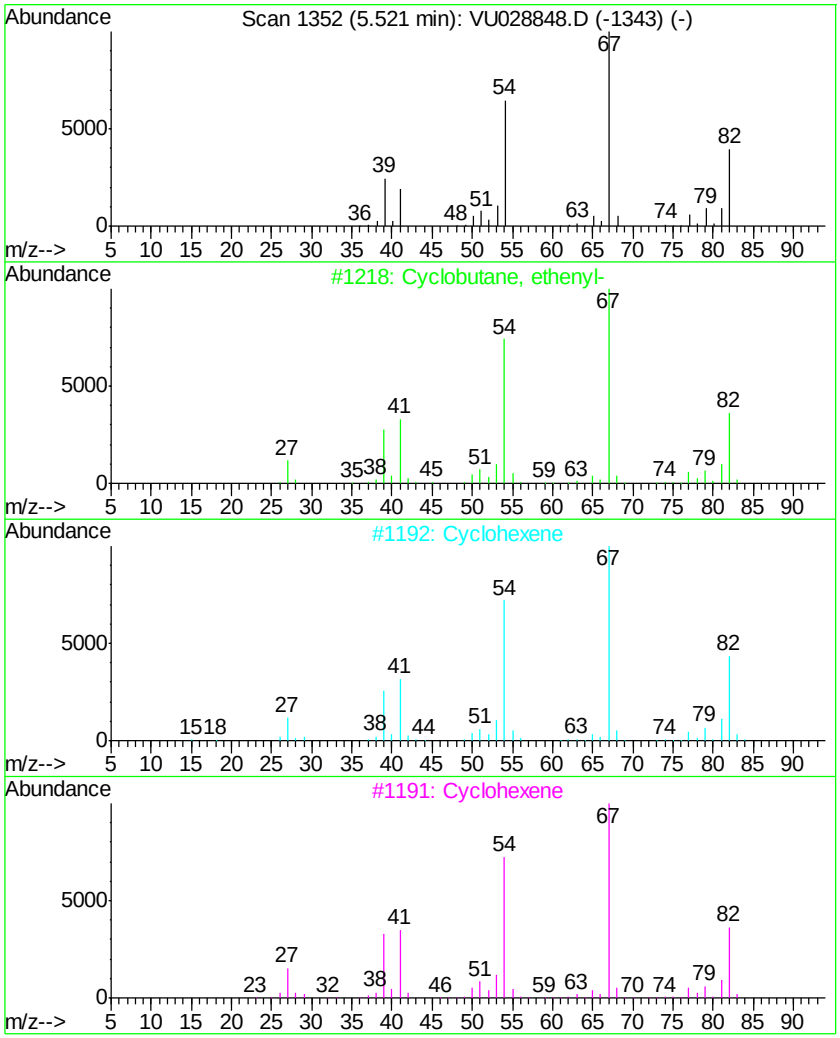
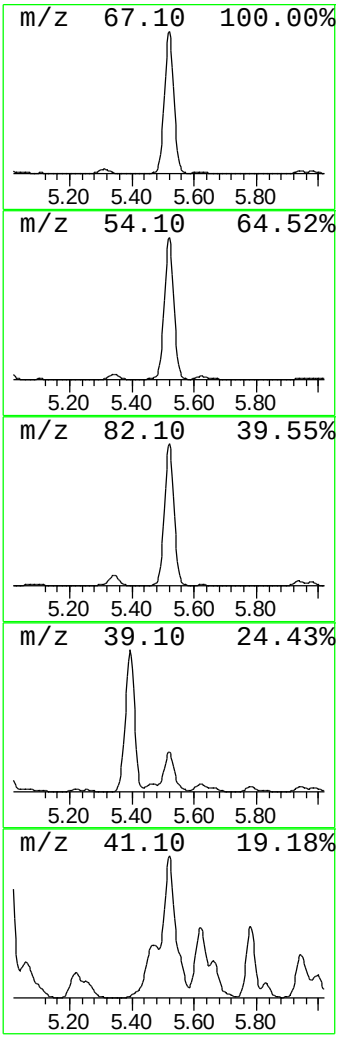
Peak Number 28 Cyclobutane, ethenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.52	651.70 ug/L	5121020	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, ethenyl-	82	C6H10	002597-49-1	93
2	Cyclohexene	82	C6H10	000110-83-8	90
3	Cyclohexene	82	C6H10	000110-83-8	90
4	Cyclopentane, methylene-	82	C6H10	001528-30-9	64
5	Cyclopentane, methylene-	82	C6H10	001528-30-9	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

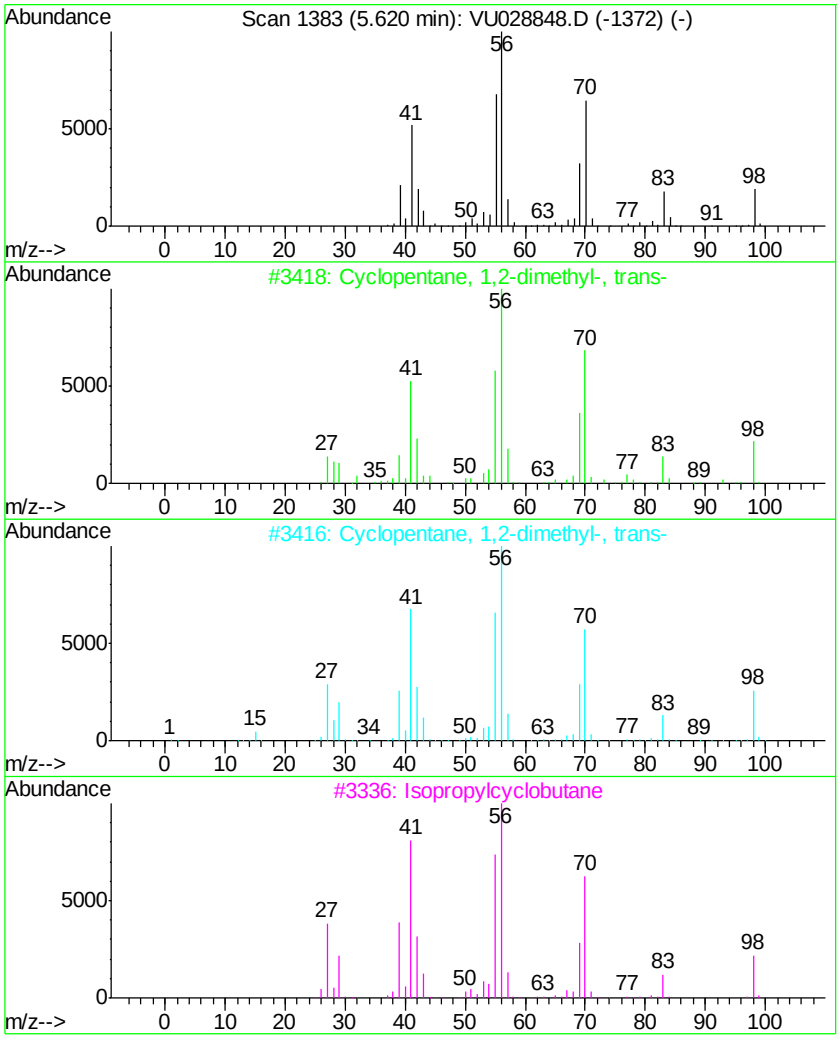
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

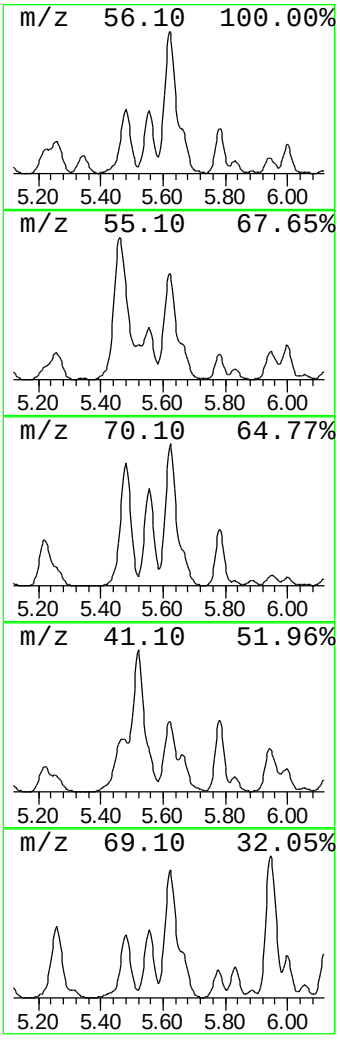
****

Peak Number 29 (DEL) Alkane: Cyclic5.62 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.62	288.35 ug/L	2265820	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
3	Isopropylcyclobutane	98	C7H14	000872-56-0	91
4	1-Heptene	98	C7H14	000592-76-7	72
5	1-Heptene	98	C7H14	000592-76-7	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

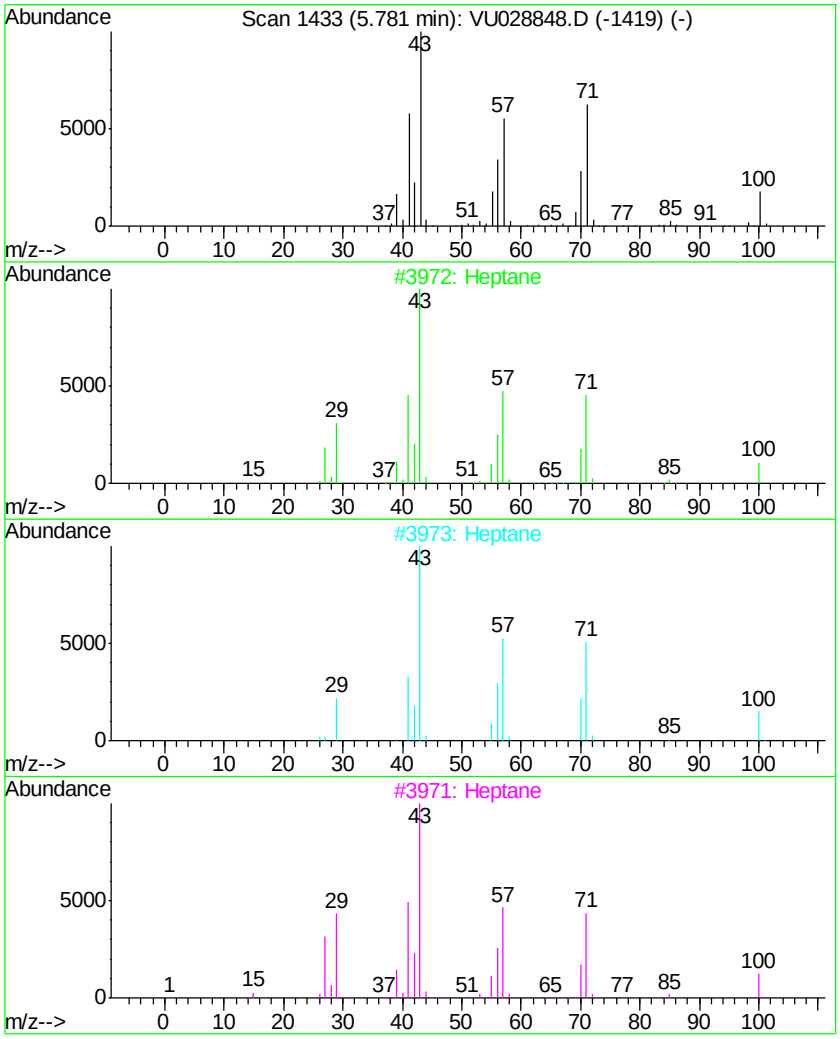
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

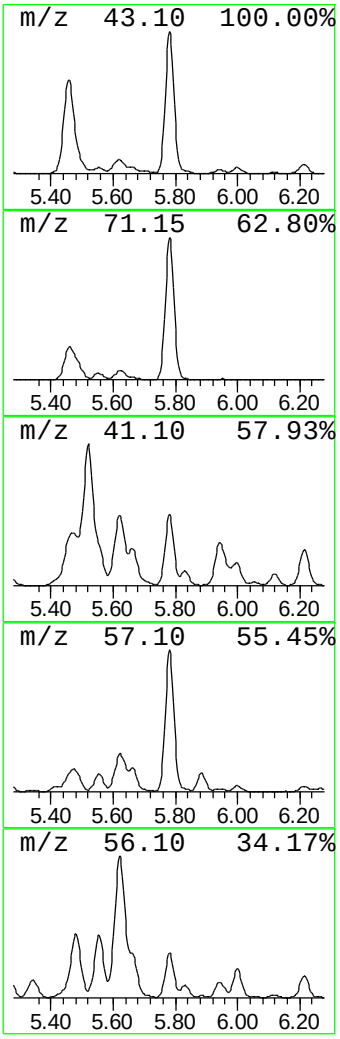
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.78	154.79 ug/L	1216350	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane	100	C7H16	000142-82-5	91
2	Heptane	100	C7H16	000142-82-5	91
3	Heptane	100	C7H16	000142-82-5	90
4	Heptane	100	C7H16	000142-82-5	78
5	Oxalic acid, isobutyl pentyl ester	216	C11H20O4	1000309-37-0	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

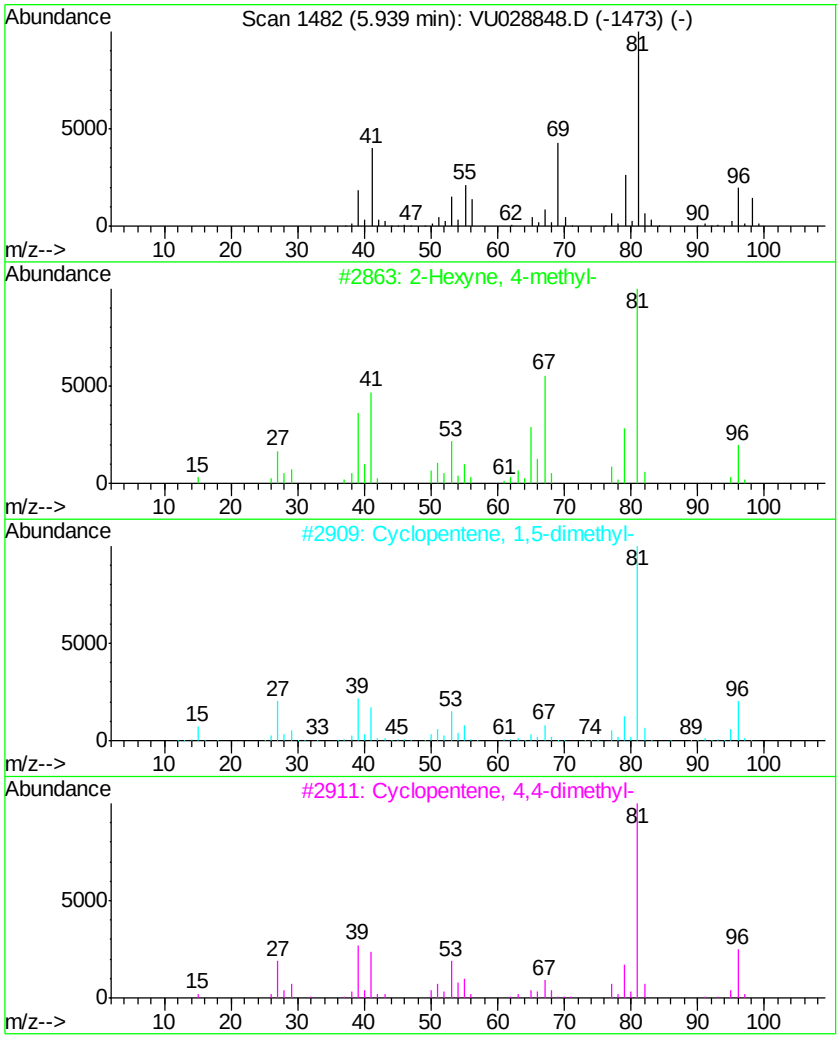
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

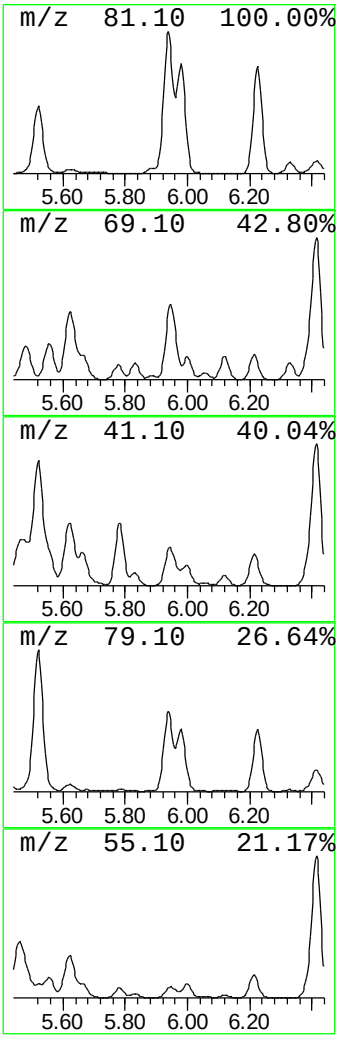
****

Peak Number 31 2-Hexyne, 4-methyl- Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.94	105.43 ug/L	828477	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexyne, 4-methyl-	96	C7H12	020198-49-6	72
2	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	70
3	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	68
4	3,5-Dimethylcyclopentene	96	C7H12	007459-71-4	59
5	Cyclopropane, 1-methyl-1-isoprop...	96	C7H12	003422-07-9	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

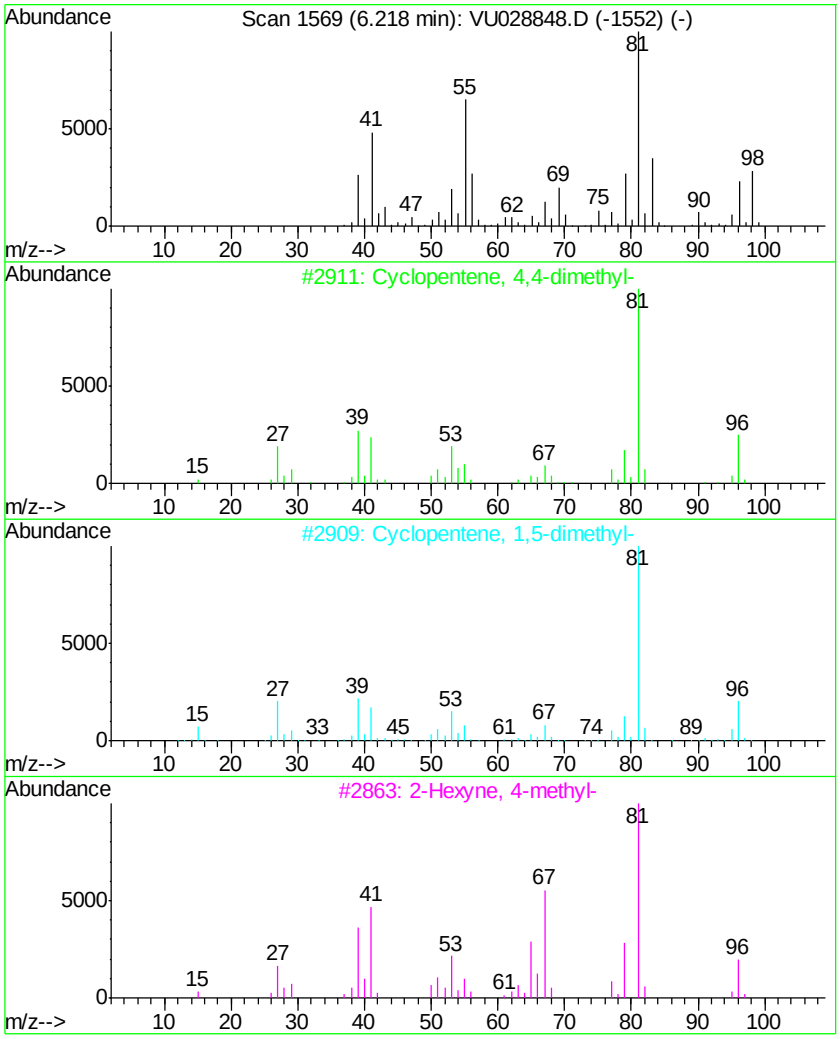
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

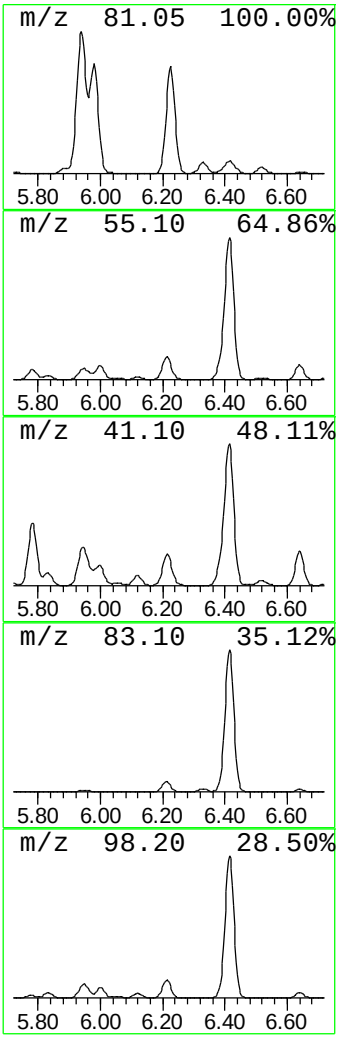
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 32 Cyclopentene, 4,4-dimethyl- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.22	132.98 ug/L	1044940	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	60
2	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	60
3	2-Hexyne, 4-methyl-	96	C7H12	020198-49-6	49
4	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	49
5	1-Hexyne, 5-methyl-	96	C7H12	002203-80-7	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

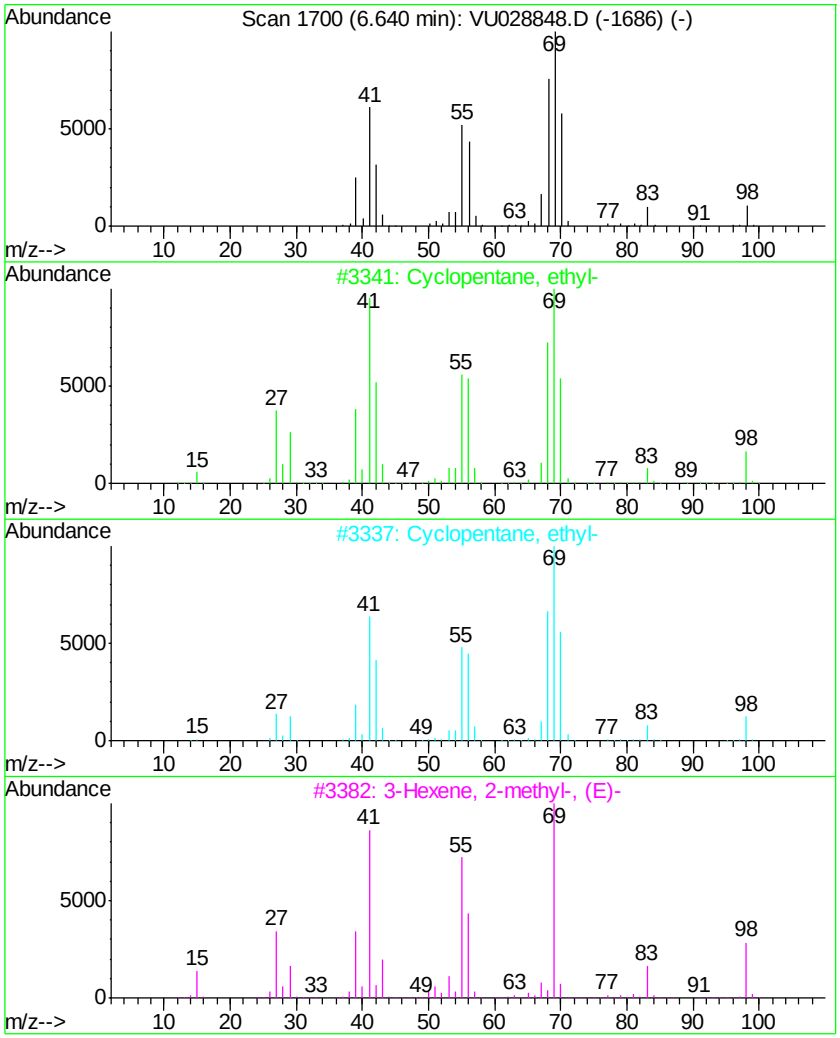
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

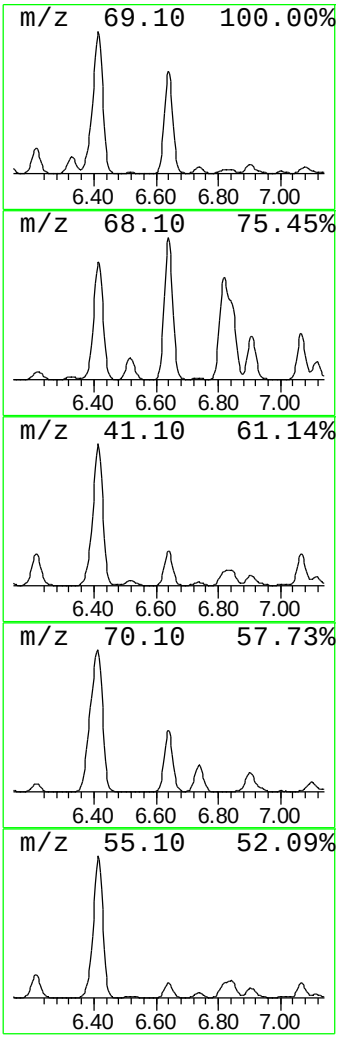
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 (DEL) Alkane: Cyclic6.64 Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.64	94.24 ug/L	740576	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	93
3	3-Hexene, 2-methyl-, (E)-	98	C7H14	000692-24-0	46
4	Cyclopentanone, 3-methyl-	98	C6H10O	001757-42-2	43
5	3-Methyl-2-hexene	98	C7H14	017618-77-8	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

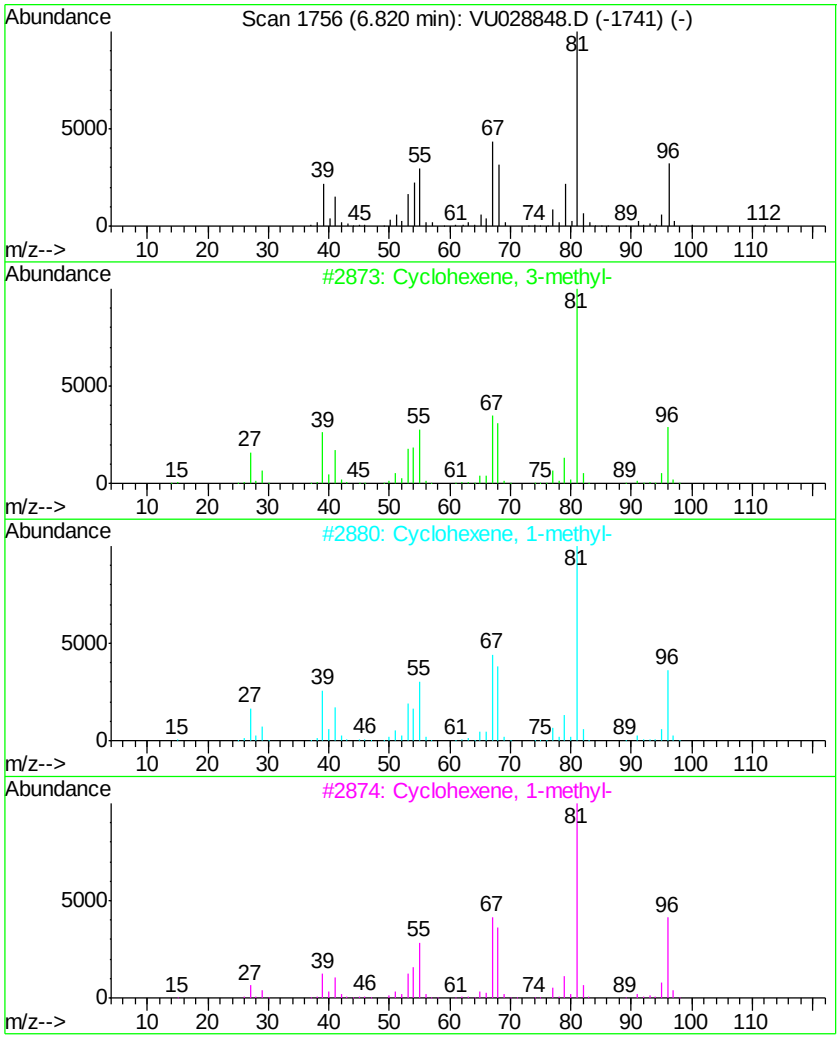
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

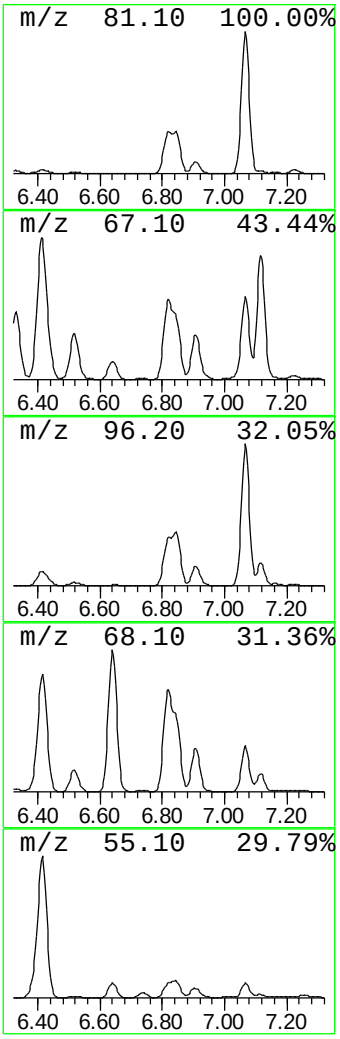
****

Peak Number 34 Cyclohexene, 3-methyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.82	113.18 ug/L	889328	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	95
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	93
3	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	93
4	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	87
5	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

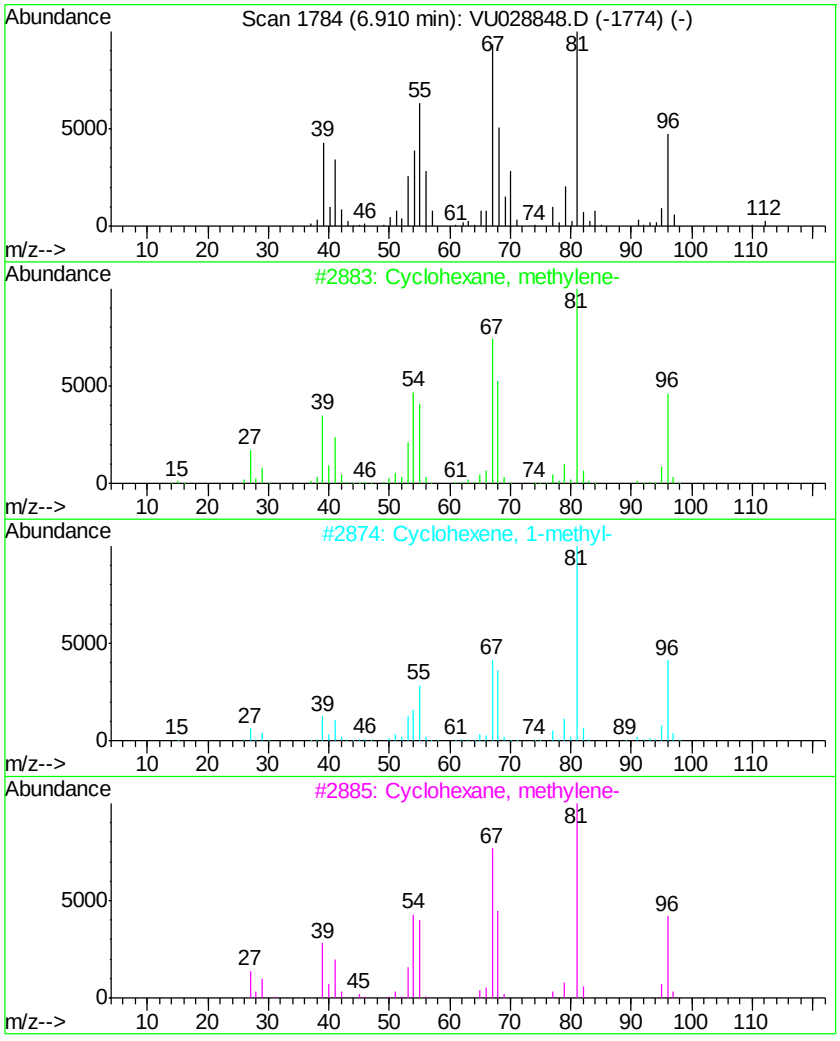
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

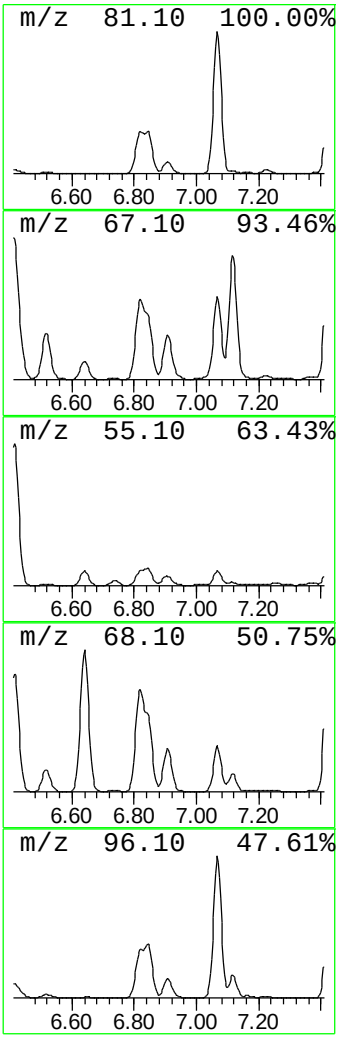
****

Peak Number 35 Cyclohexane, methylene- Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.91	48.52 ug/L	381299	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methylene-	96	C7H12	001192-37-6	93
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	86
3	Cyclohexane, methylene-	96	C7H12	001192-37-6	81
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	64
5	Cyclohexane, methylene-	96	C7H12	001192-37-6	62





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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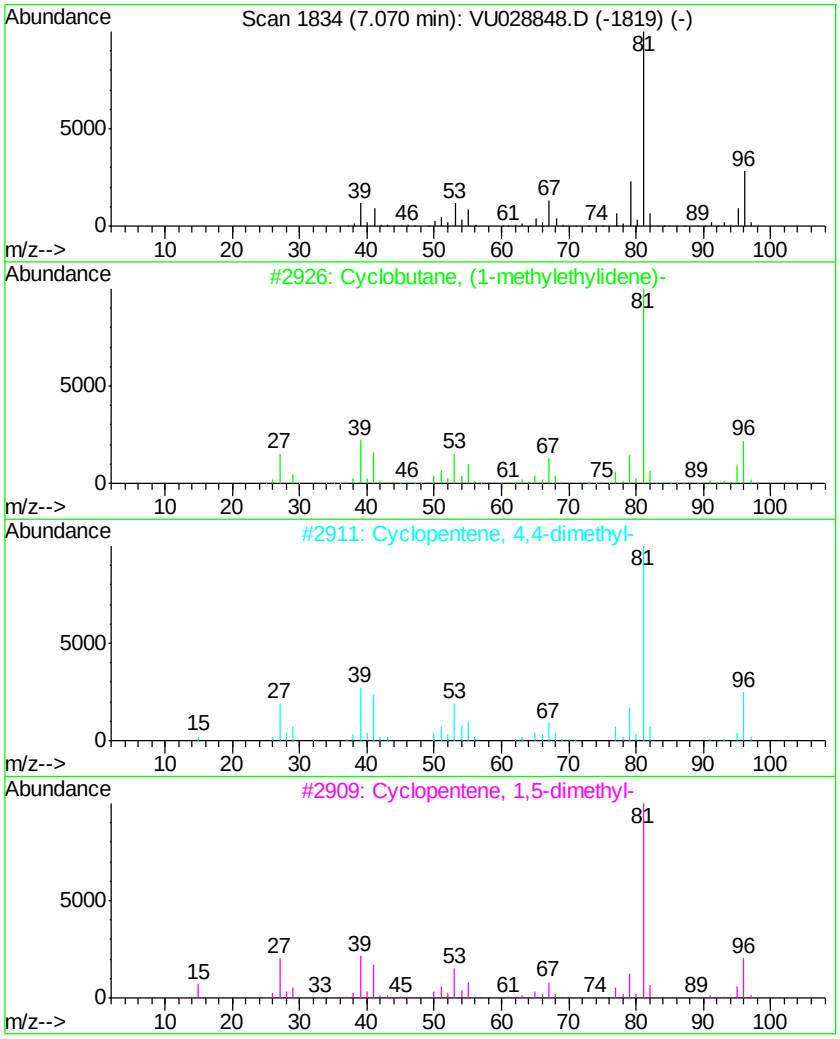
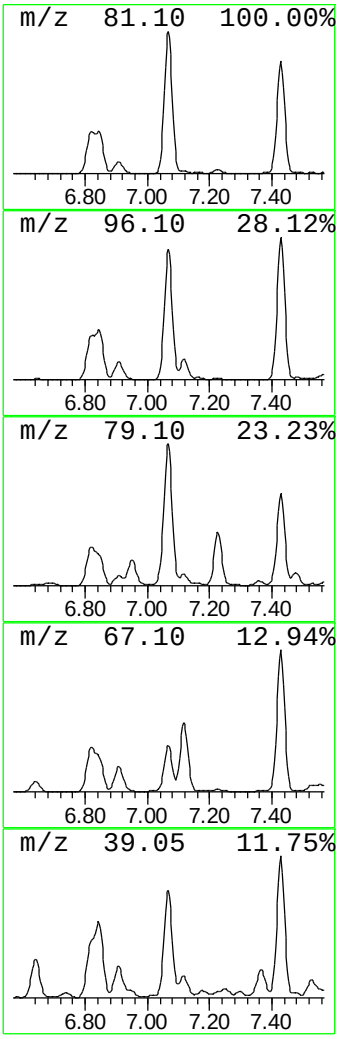
Peak Number 36 Cyclobutane, (1-methylethyl... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.07	274.43 ug/L	2156440	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	90
2	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	87
3	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	87
4	3,5-Dimethylcyclopentene	96	C7H12	007459-71-4	78
5	Cyclopropane, 1-methyl-1-isoprop...	96	C7H12	003422-07-9	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

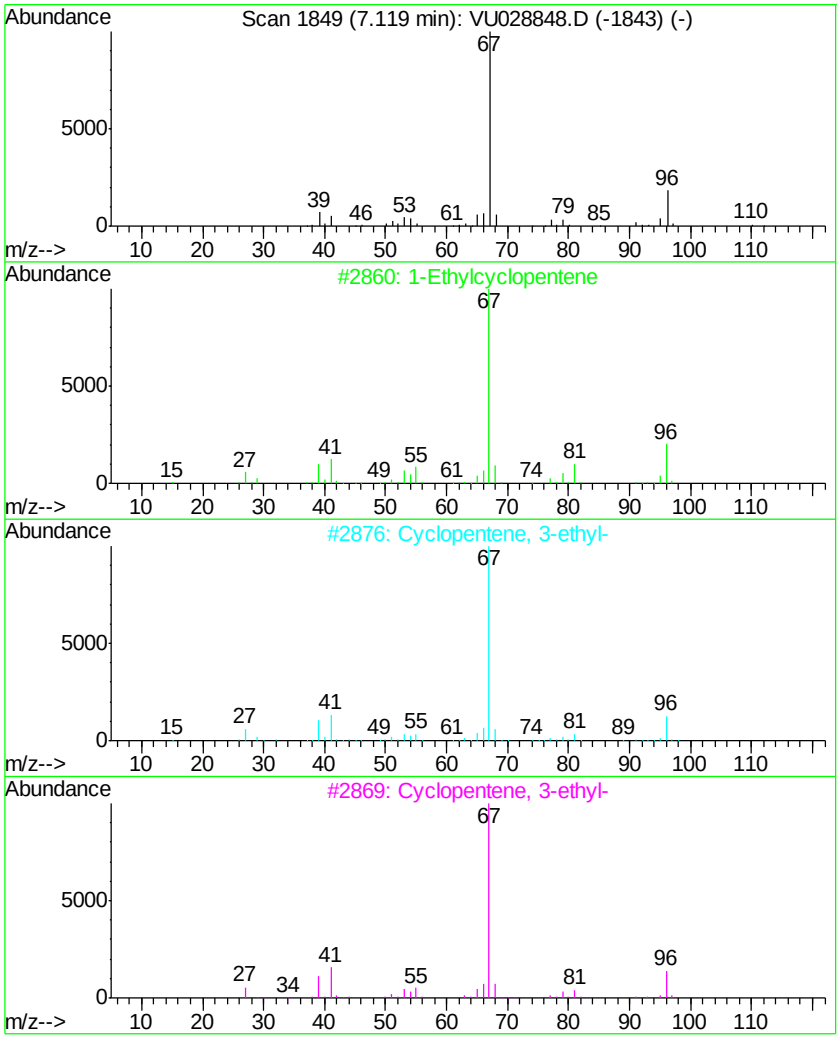
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

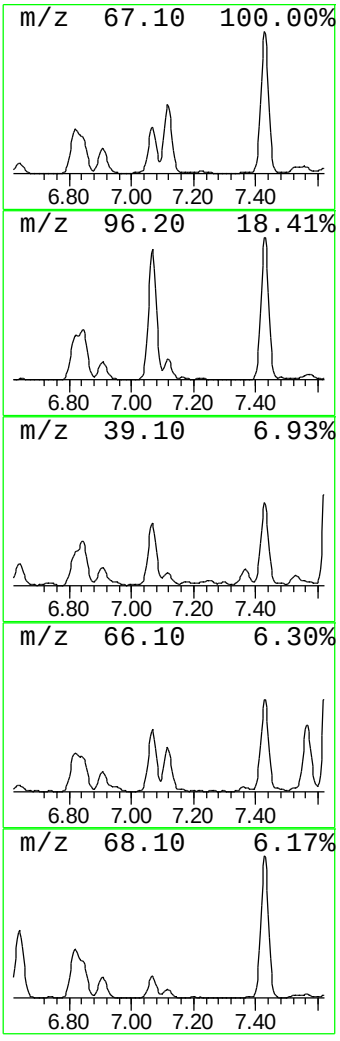
****

Peak Number 37 1-Ethylcyclopentene Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.12	43.87 ug/L	344756	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethylcyclopentene	96	C7H12	002146-38-5	90
2	Cyclopentene, 3-ethyl-	96	C7H12	000694-35-9	90
3	Cyclopentene, 3-ethyl-	96	C7H12	000694-35-9	86
4	Cyclobutane, 1-ethyl-3-methylene-	96	C7H12	056335-70-7	80
5	1-Ethylcyclopentene	96	C7H12	002146-38-5	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

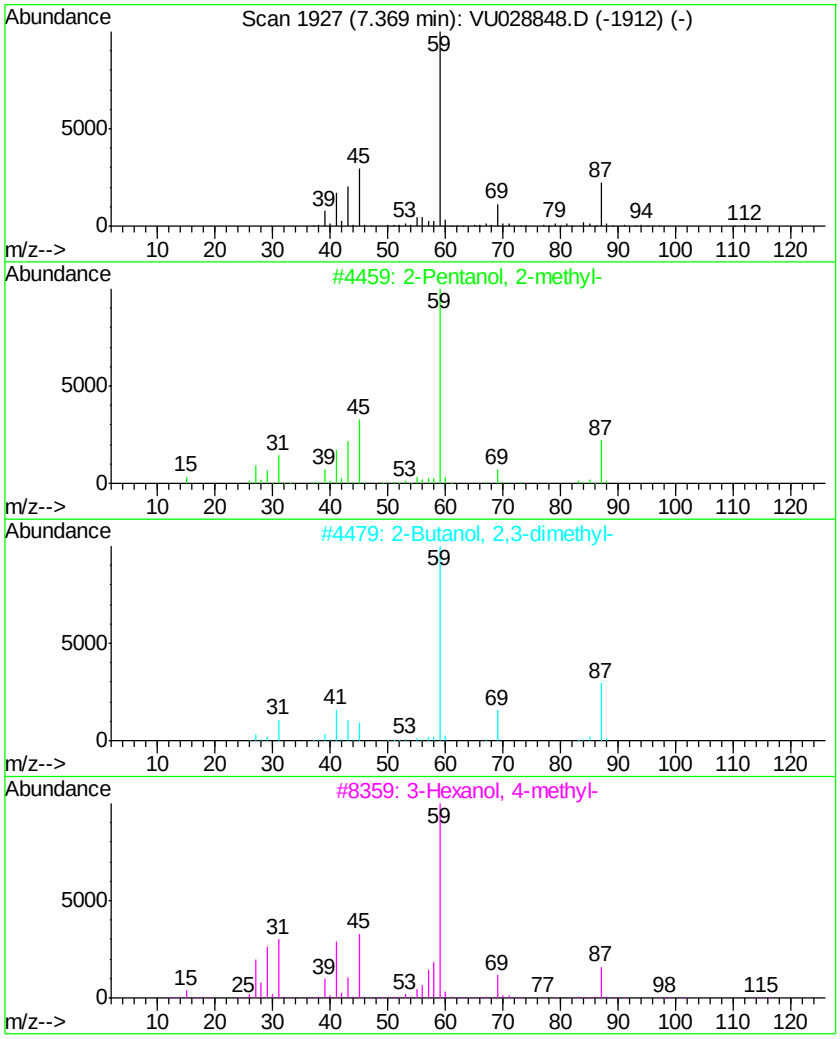
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

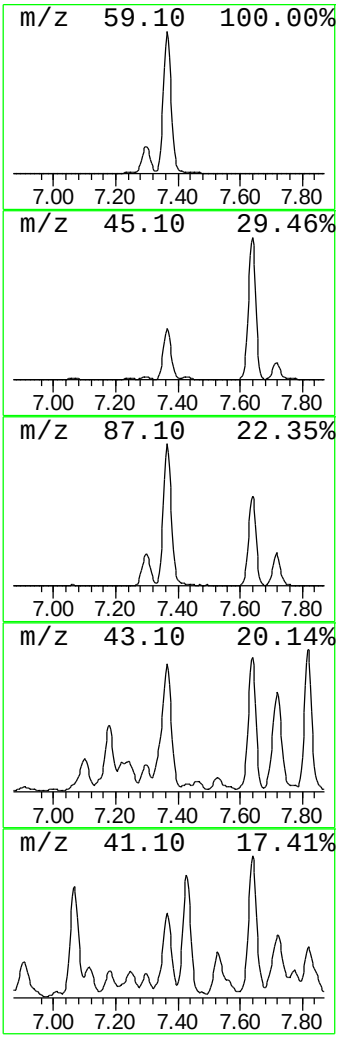
****

Peak Number 39 2-Pentanol, 2-methyl- Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.37	94.69 ug/L	744042	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 2-methyl-	102	C6H14O	000590-36-3	83
2	2-Butanol, 2,3-dimethyl-	102	C6H14O	000594-60-5	64
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	56
4	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	45
5	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	45





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

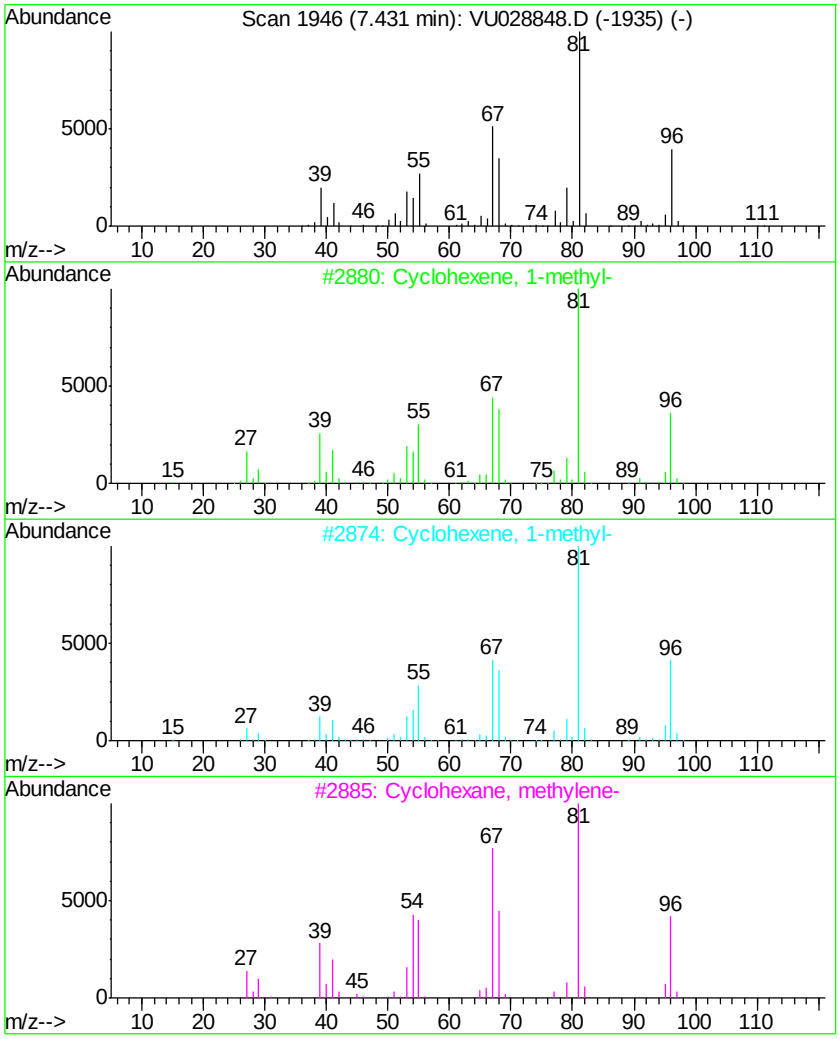
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

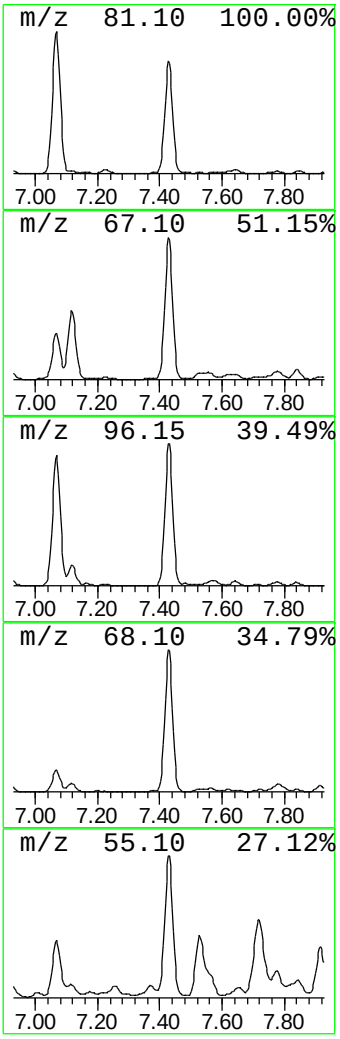
****

Peak Number 40 Cyclohexene, 1-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	293.40 ug/L	2305550	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	95
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	93
3	Cyclohexane, methylene-	96	C7H12	001192-37-6	90
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	87
5	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

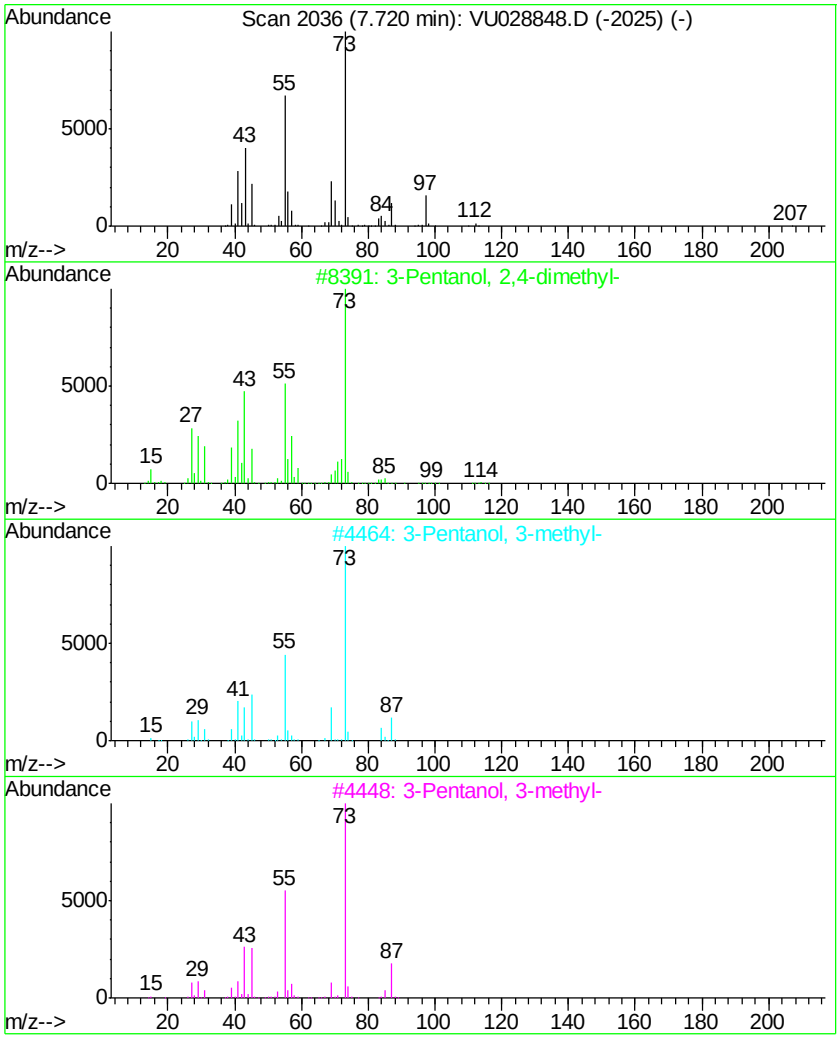
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

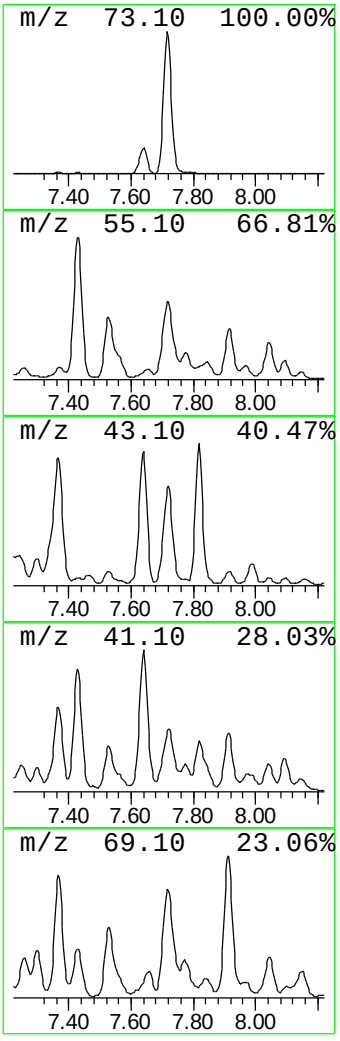
****

Peak Number 41 3-Pentanol, 2,4-dimethyl- Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.72	46.51 ug/L	528725	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	59
2	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	50
3	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	47
4	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	38
5	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	37





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

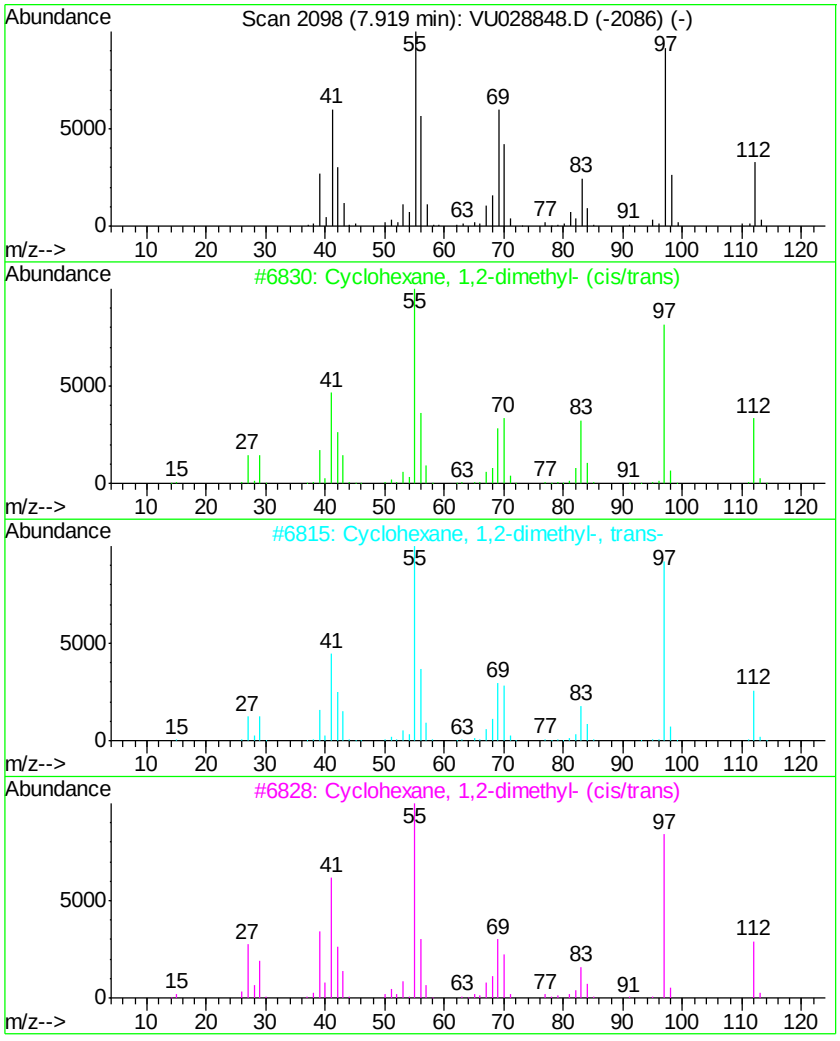
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

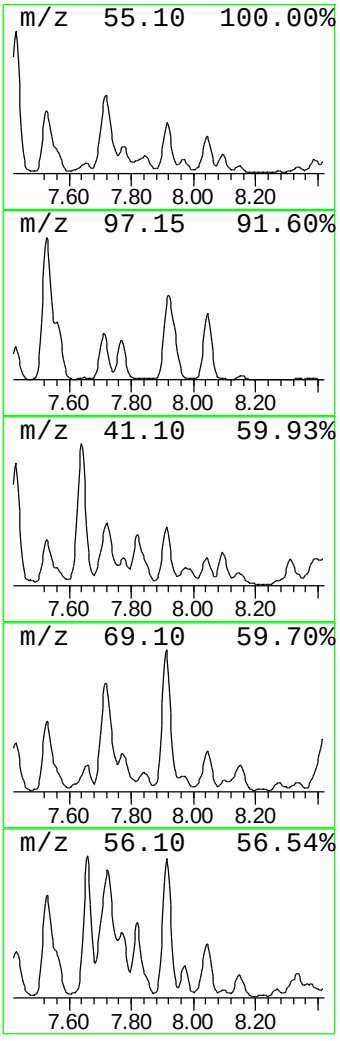
****

Peak Number 42 (DEL) Alkane: Cyclic7.92 Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	37.83 ug/L	430070	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	76
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	68
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	68
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	68
5	4-Octene, (E)-	112	C8H16	014850-23-8	60





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

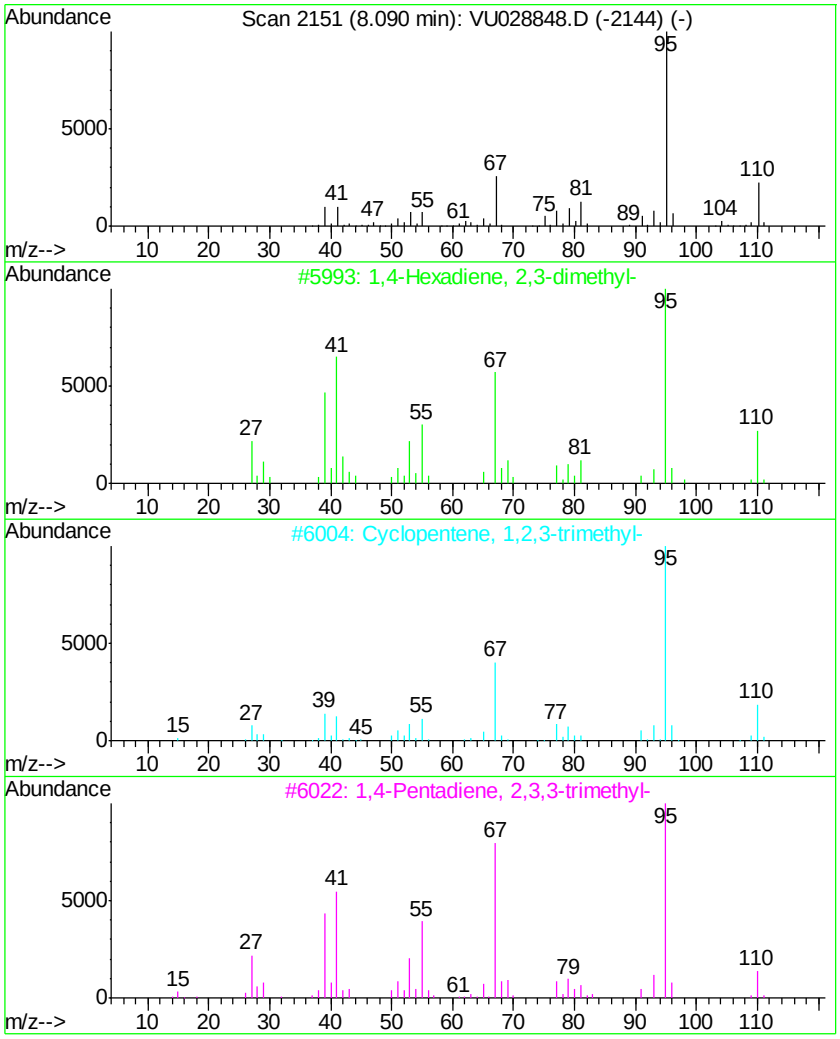
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

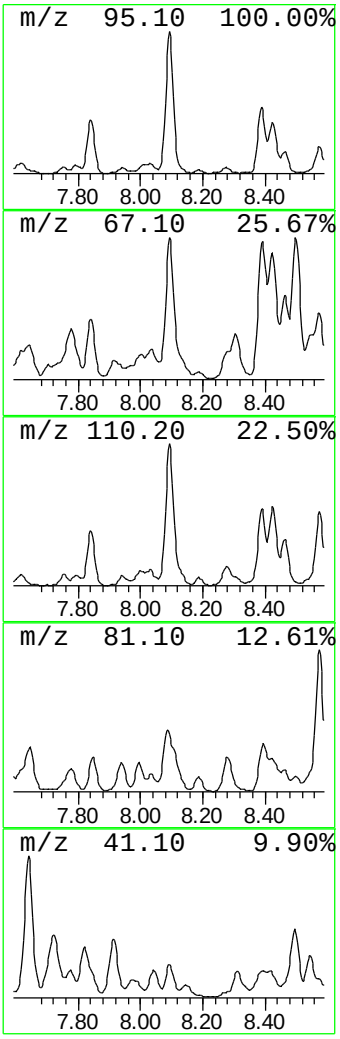
****

Peak Number 43 1,4-Hexadiene, 2,3-dimethyl- Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	38.69 ug/L	439829	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Hexadiene, 2,3-dimethyl-	110	C8H14	018669-52-8	91
2	Cyclopentene, 1,2,3-trimethyl-	110	C8H14	000473-91-6	87
3	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	80
4	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	72
5	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

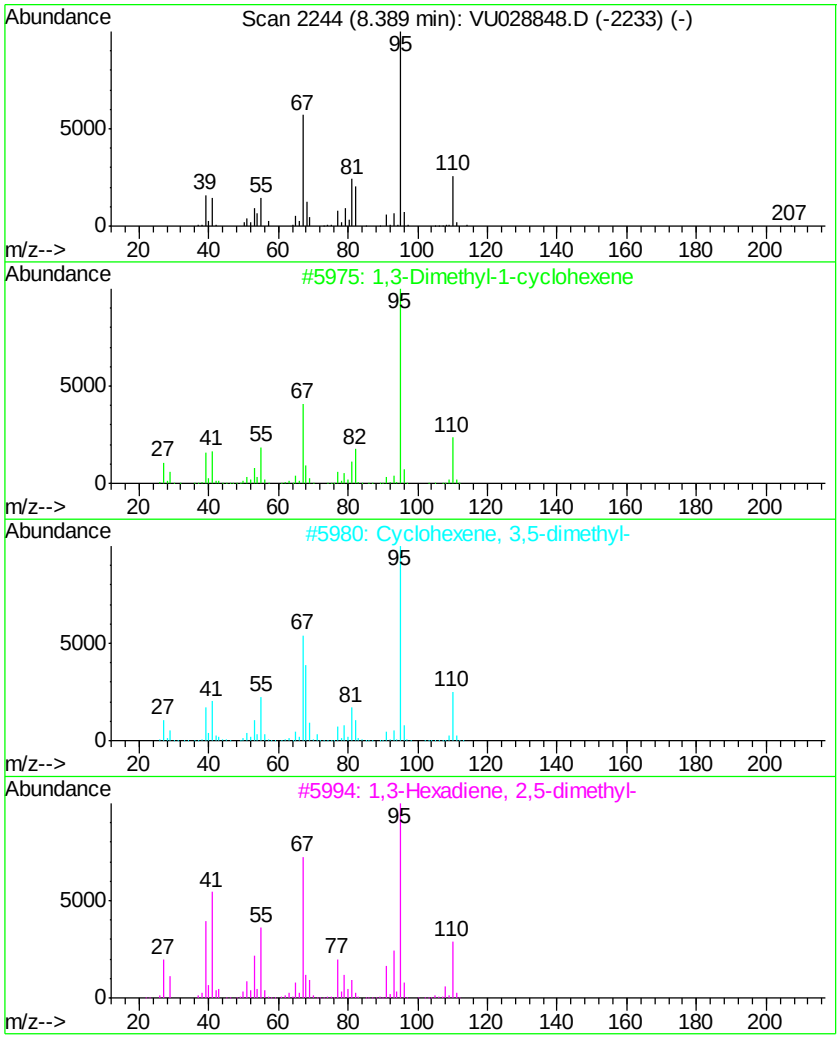
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

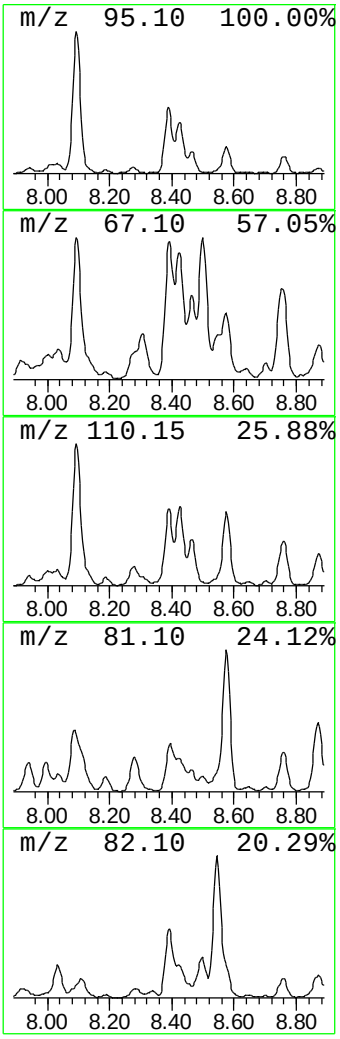
****

Peak Number 44 1,3-Dimethyl-1-cyclohexene Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.39	27.35 ug/L	310943	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	90
2	Cyclohexene, 3,5-dimethyl-	110	C8H14	000823-17-6	83
3	1,3-Hexadiene, 2,5-dimethyl-	110	C8H14	029253-64-3	72
4	5,5-Dimethyl-1,3-hexadiene	110	C8H14	001515-79-3	72
5	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

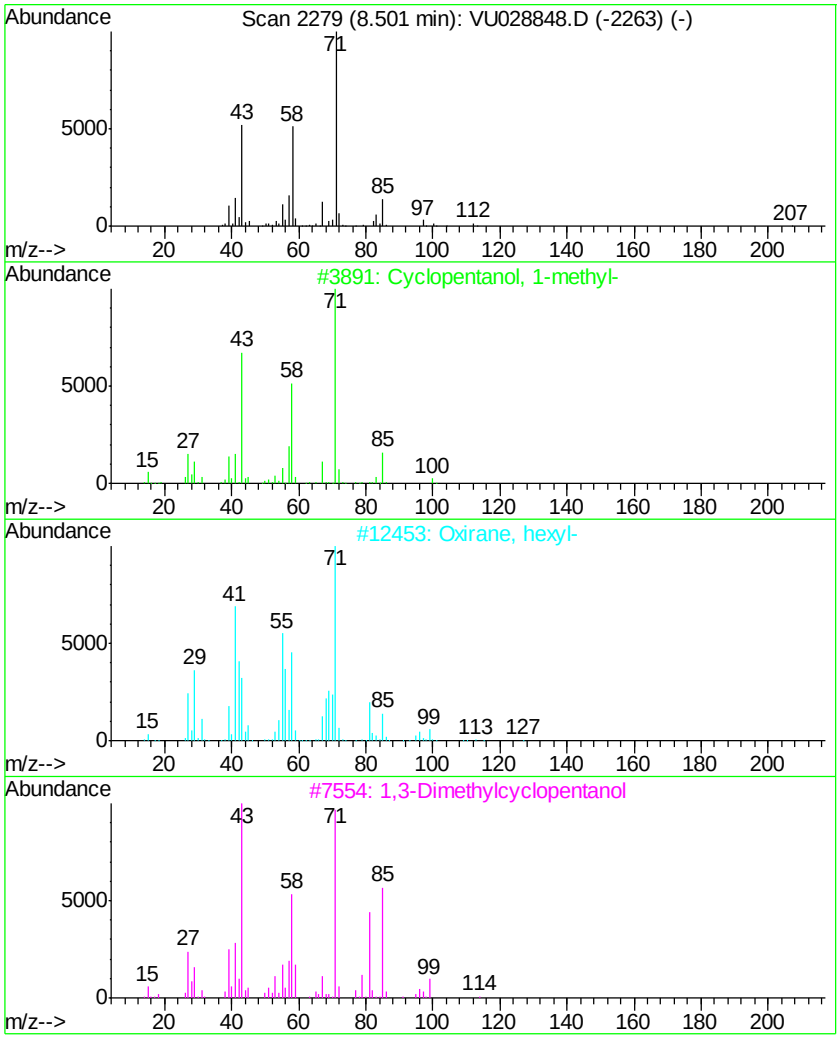
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

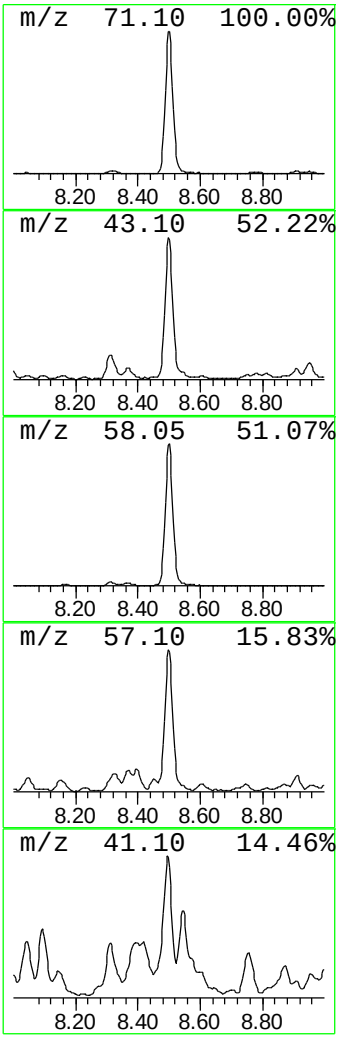
****

Peak Number 45 Cyclopentanol, 1-methyl- Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.50	66.16 ug/L	752207	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentanol, 1-methyl-	100	C6H12O	001462-03-9	91
2	Oxirane, hexyl-	128	C8H16O	002984-50-1	64
3	1,3-Dimethylcyclopentanol	114	C7H14O	019550-46-0	64
4	Oxirane, hexyl-	128	C8H16O	002984-50-1	56
5	1-Penten-3-ol, 2-methyl-	100	C6H12O	002088-07-5	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

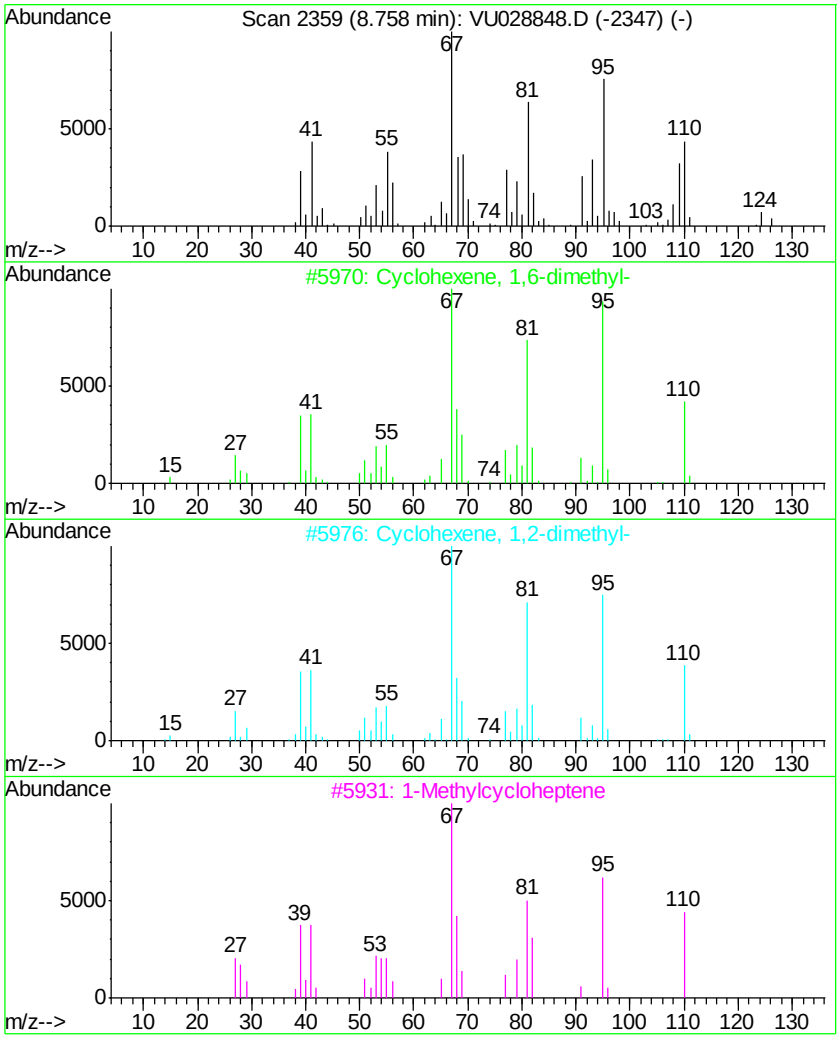
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

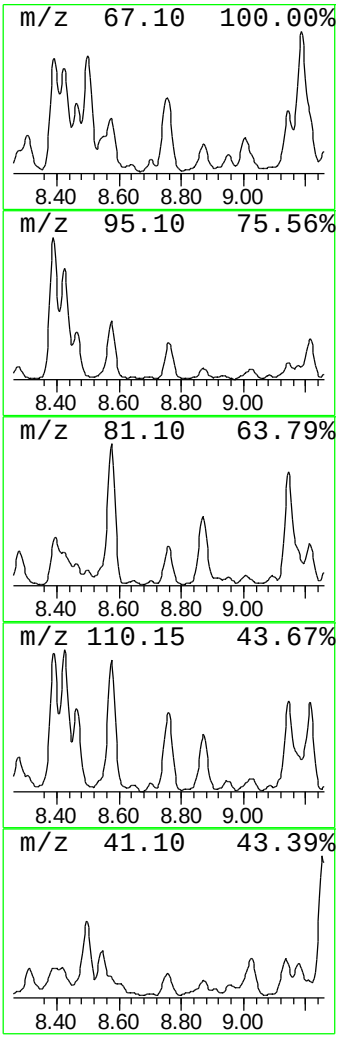
****

Peak Number 46 Cyclohexene, 1,6-dimethyl- Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	24.67 ug/L	280465	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1,6-dimethyl-	110	C8H14	001759-64-4	93
2	Cyclohexene, 1,2-dimethyl-	110	C8H14	001674-10-8	92
3	1-Methylcycloheptene	110	C8H14	055308-20-8	76
4	2,4-Hexadiene, 2,3-dimethyl-	110	C8H14	005678-98-8	60
5	1-Methylcycloheptene	110	C8H14	055308-20-8	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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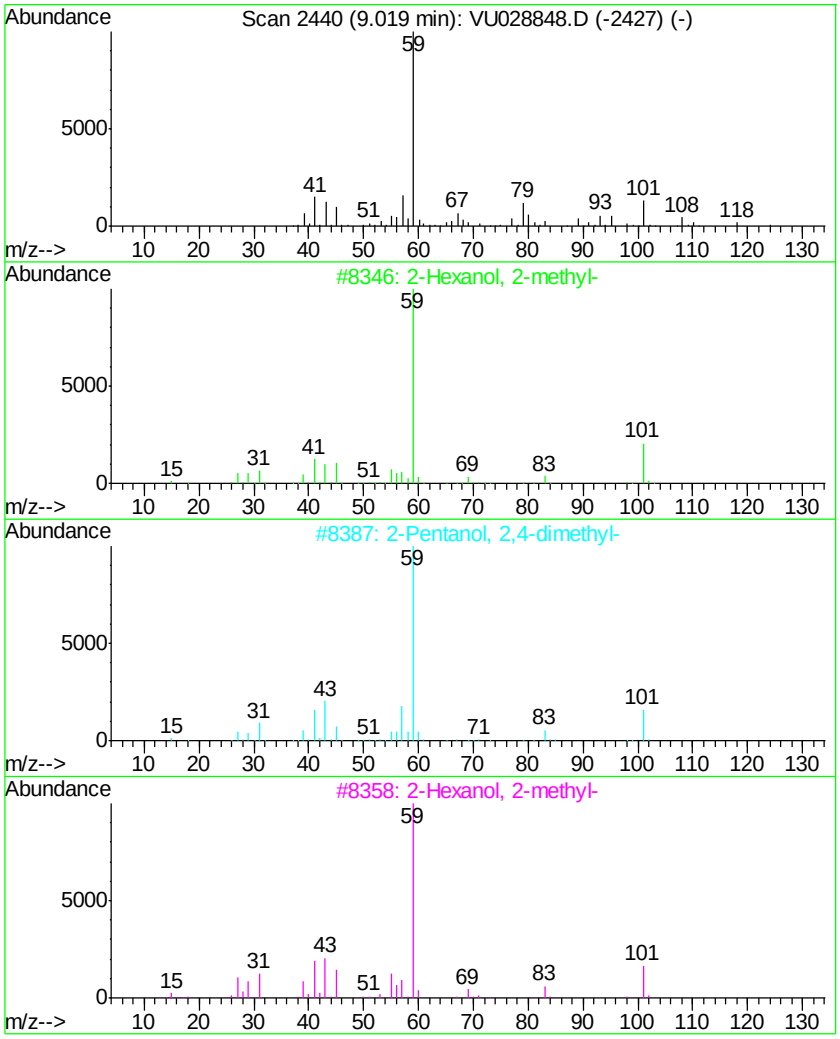
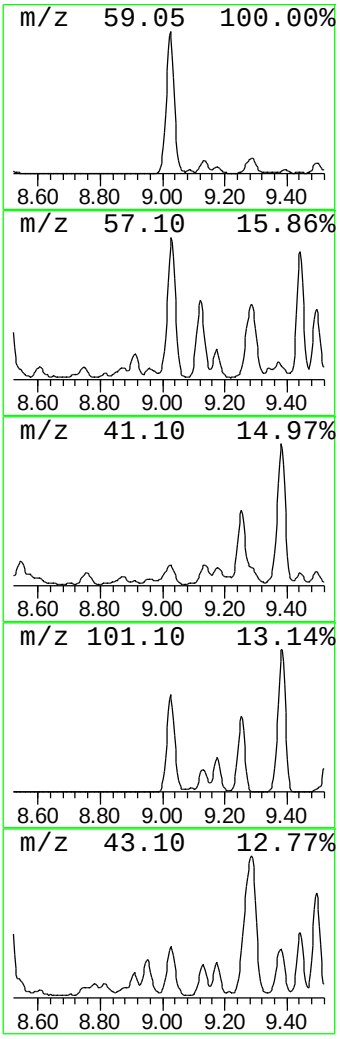
Peak Number 47 2-Hexanol, 2-methyl- Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.02	44.30 ug/L	503651	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	64
2	2-Pentanol, 2,4-dimethyl-	116	C7H16O	000625-06-9	50
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	50
4	2-Hexanone, 3-hydroxy-3,5-dimethyl-	144	C8H16O2	006321-14-8	45
5	3-Hexanol, 4-ethyl-	130	C8H18O	019780-44-0	40





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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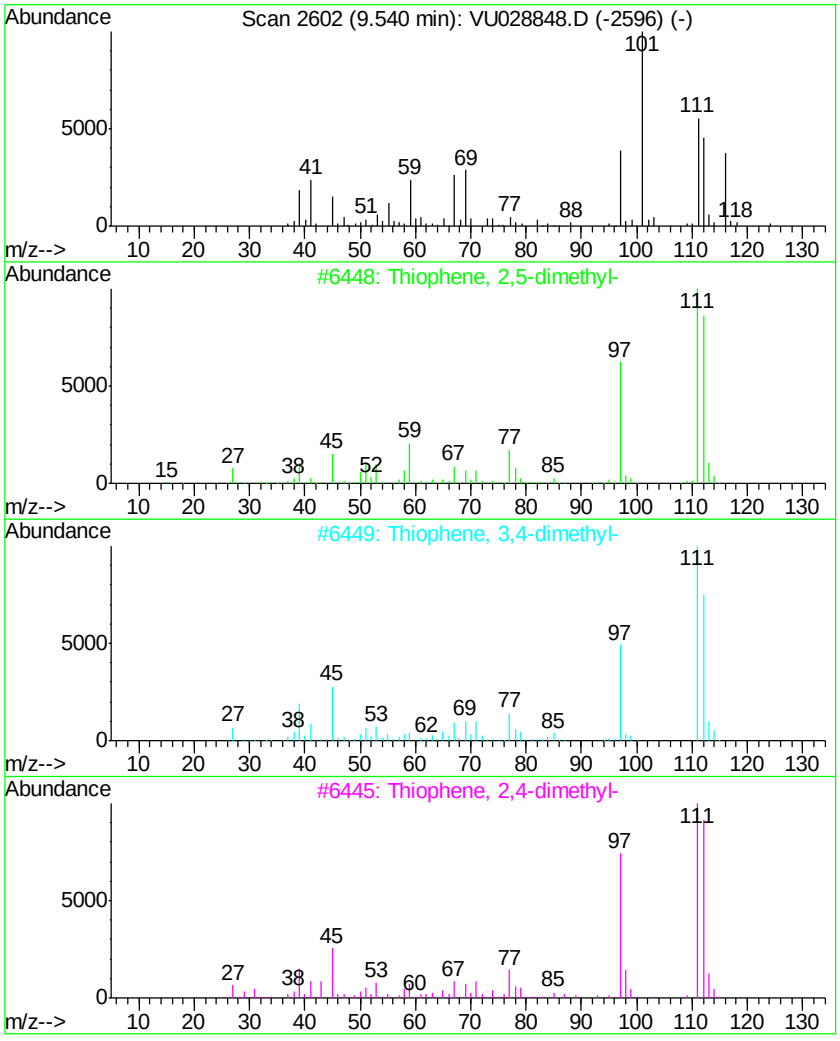
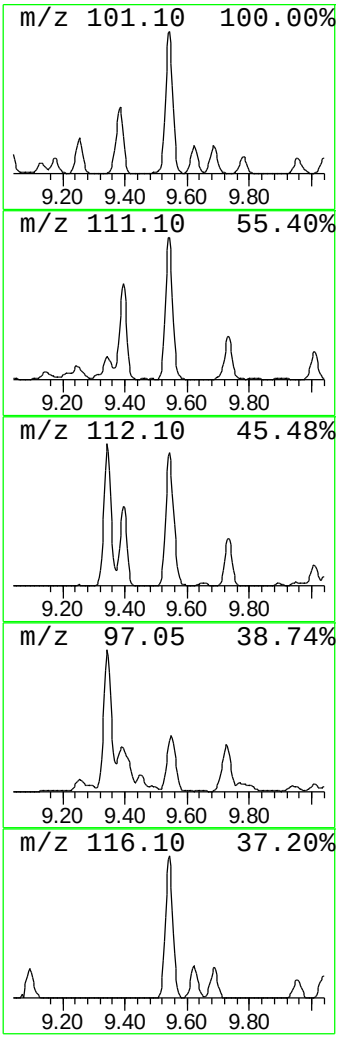
Peak Number 48 Thiophene, 2,5-dimethyl- Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	25.40 ug/L	288722	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, 2,5-dimethyl-	112	C6H8S	000638-02-8	50
2	Thiophene, 3,4-dimethyl-	112	C6H8S	000632-15-5	46
3	Thiophene, 2,4-dimethyl-	112	C6H8S	000638-00-6	46
4	Thiophene, 2,4-dimethyl-	112	C6H8S	000638-00-6	41
5	Thiophene, 2,5-dimethyl-	112	C6H8S	000638-02-8	41





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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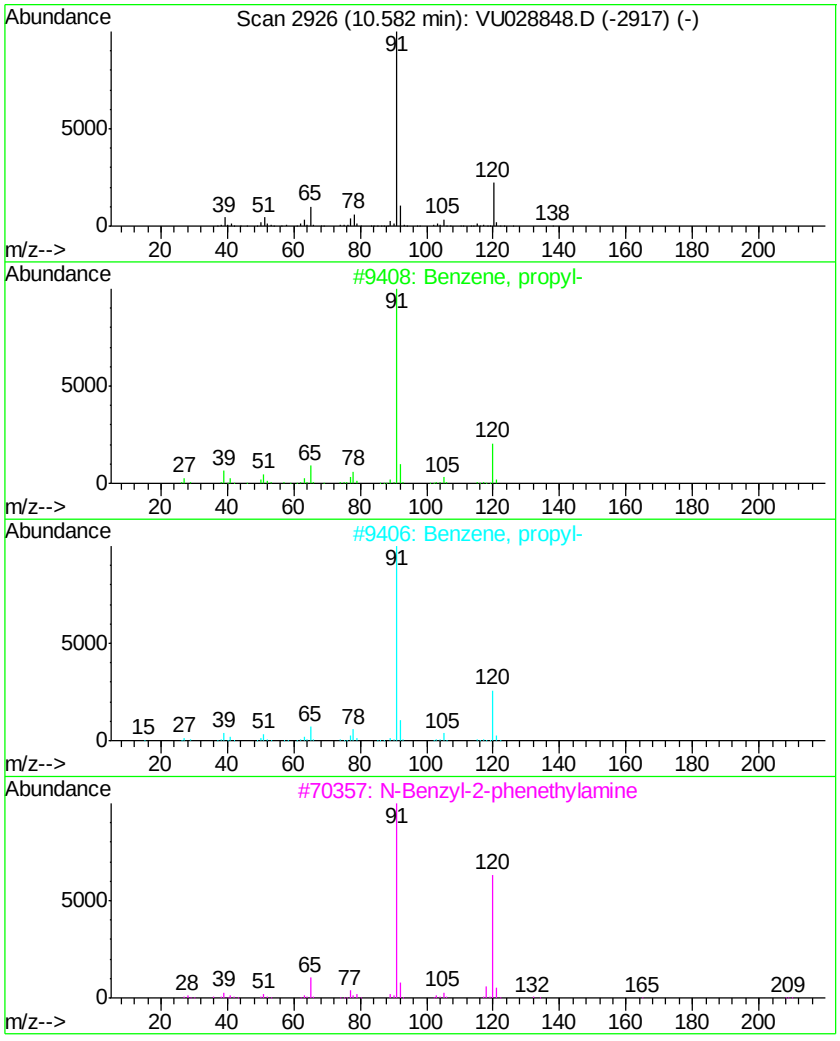
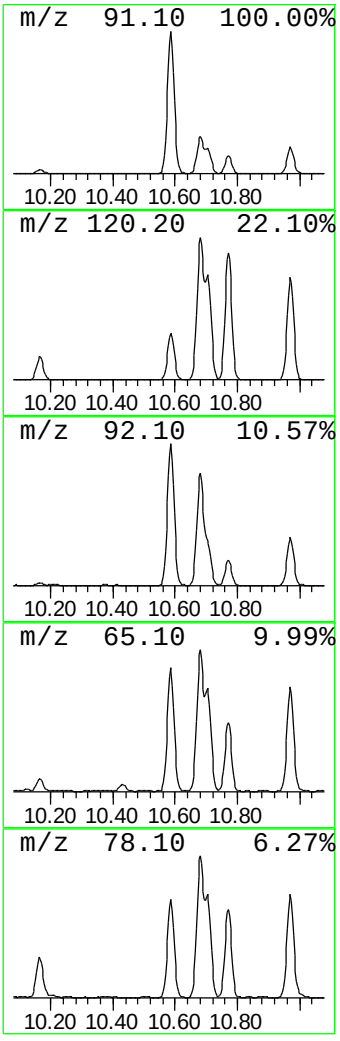
Peak Number 49 Benzene, propyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	112.75 ug/L	1769400	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	Benzene, propyl-	120	C9H12	000103-65-1	90
3	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	74
4	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	72
5	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

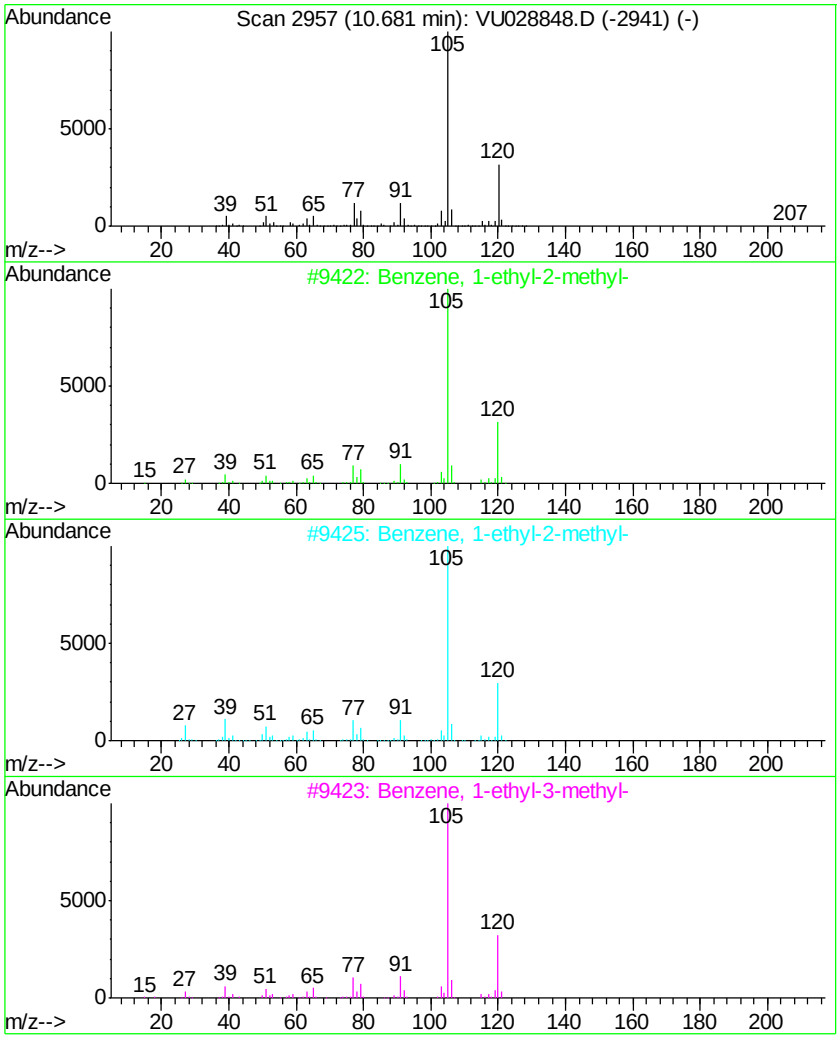
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

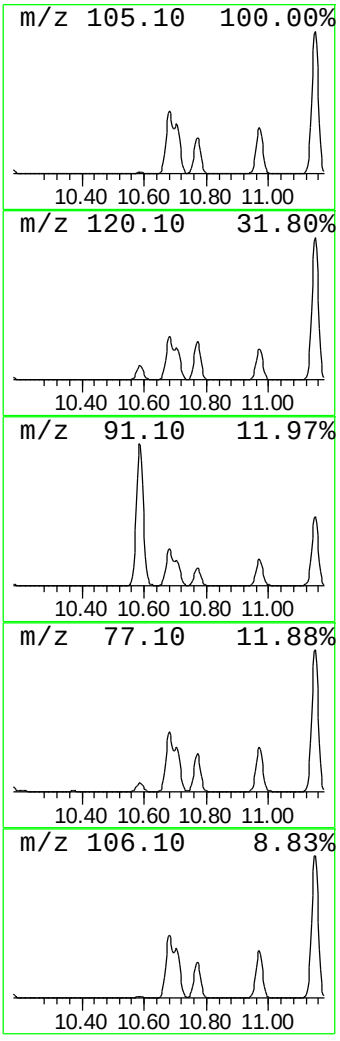
****

Peak Number 50 Benzene, 1-ethyl-2-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	336.71 ug/L	5284060	1,4-Dichlorobenzene-d4	11.48

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





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

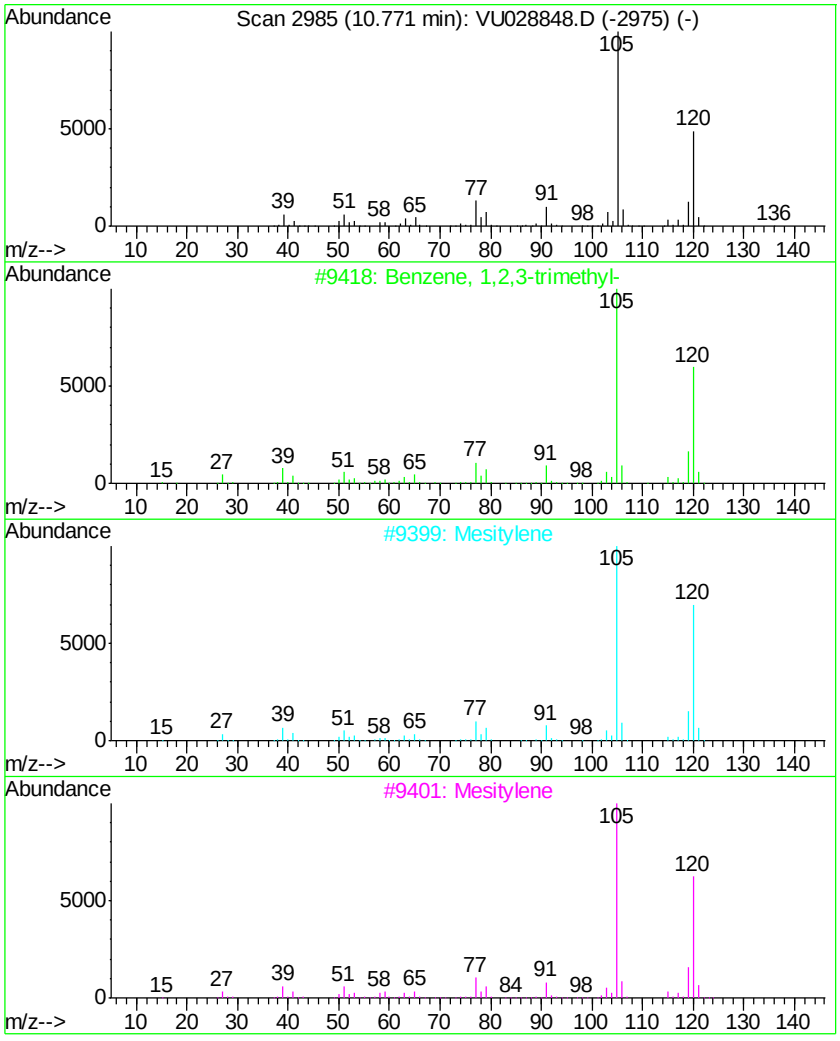
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

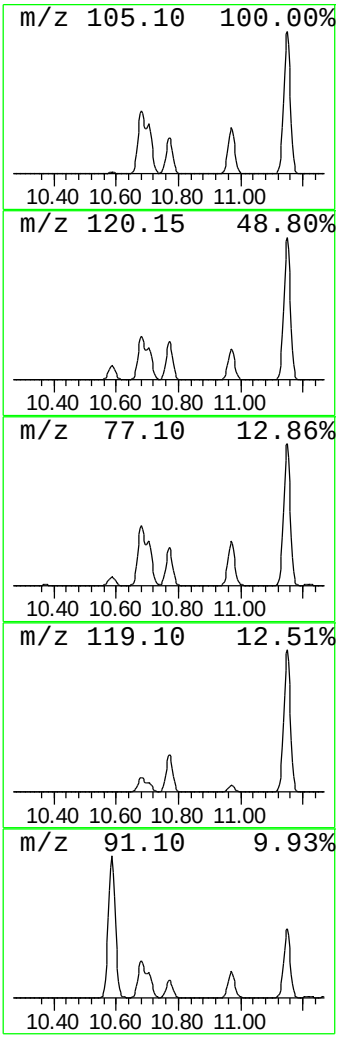
****

Peak Number 51 Benzene, 1,2,3-trimethyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	195.93 ug/L	3074700	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Mesitylene	120	C9H12	000108-67-8	97
3	Mesitylene	120	C9H12	000108-67-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

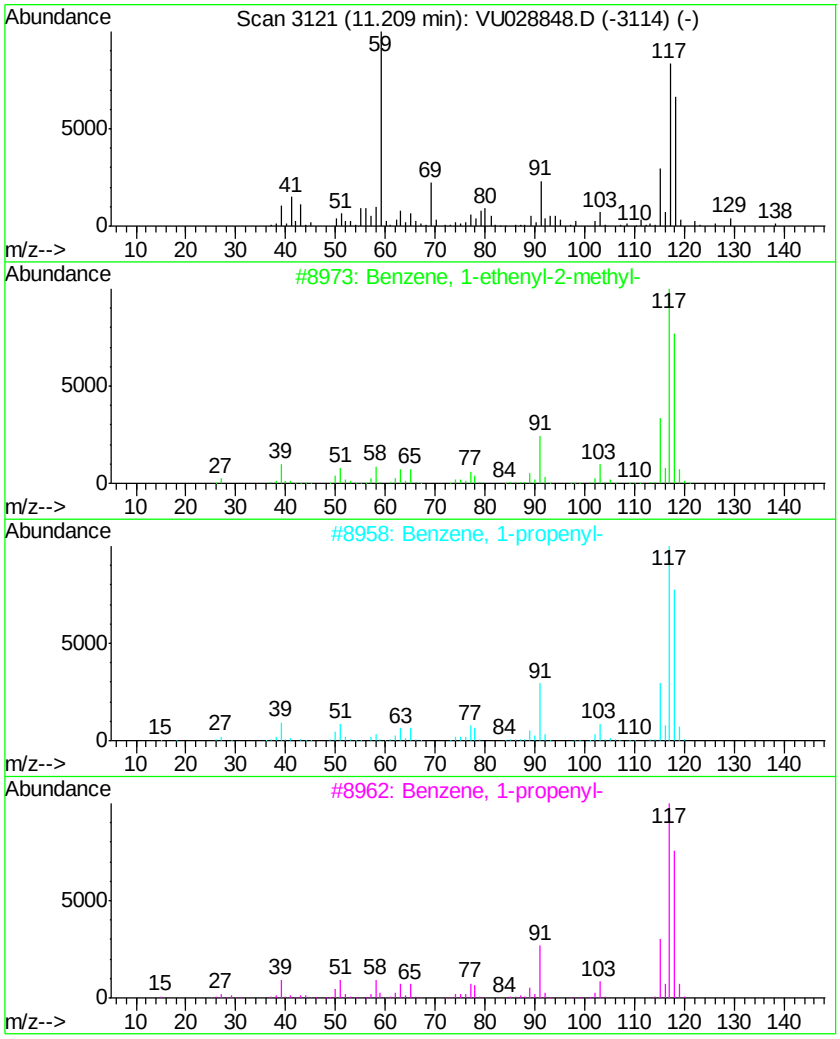
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

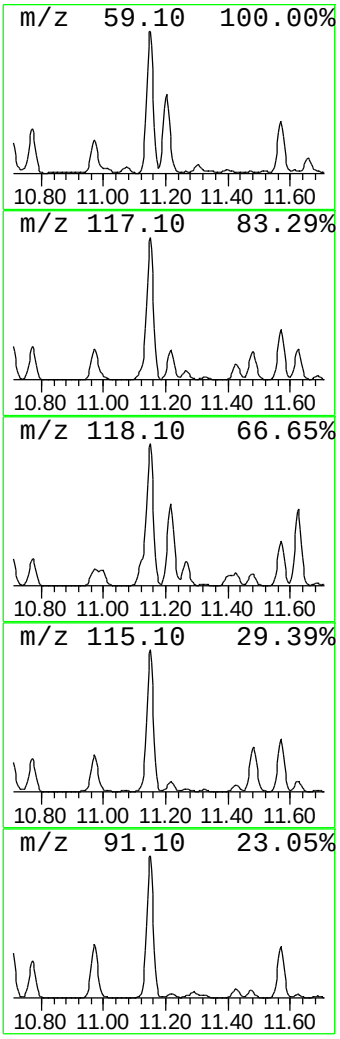
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 54 Benzene, 1-ethenyl-2-methyl- Concentration Rank 79

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	17.51 ug/L	274830	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	83
2	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
5	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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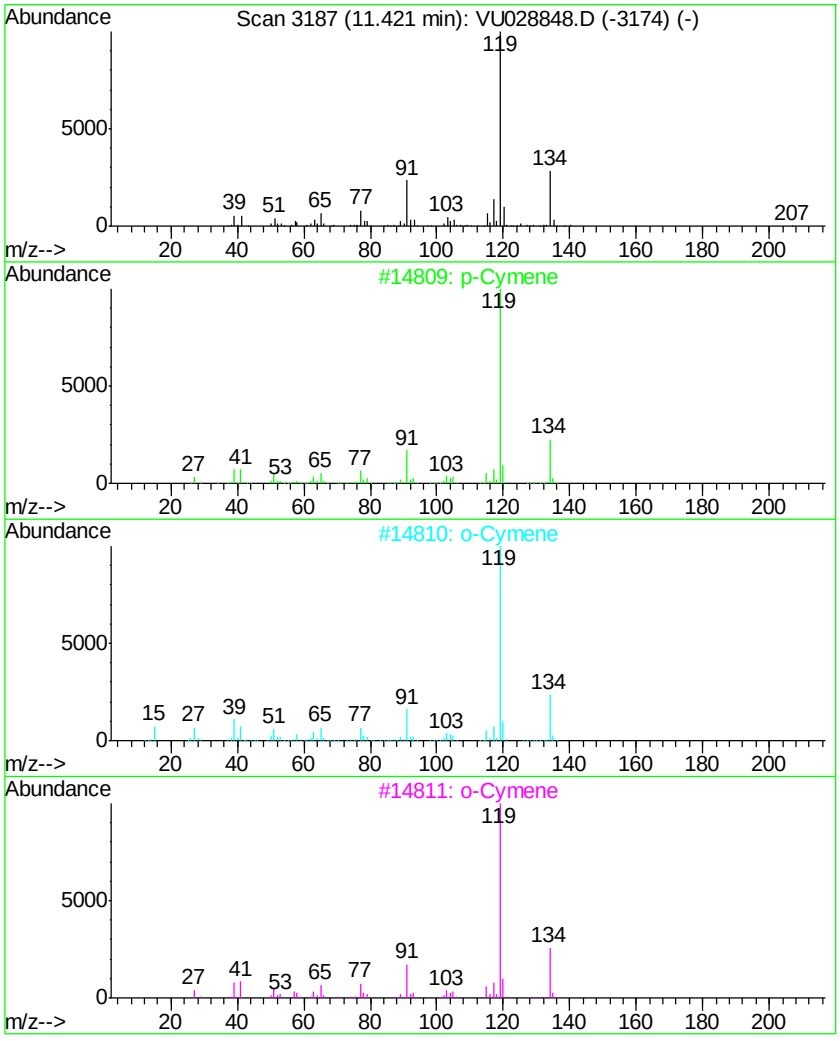
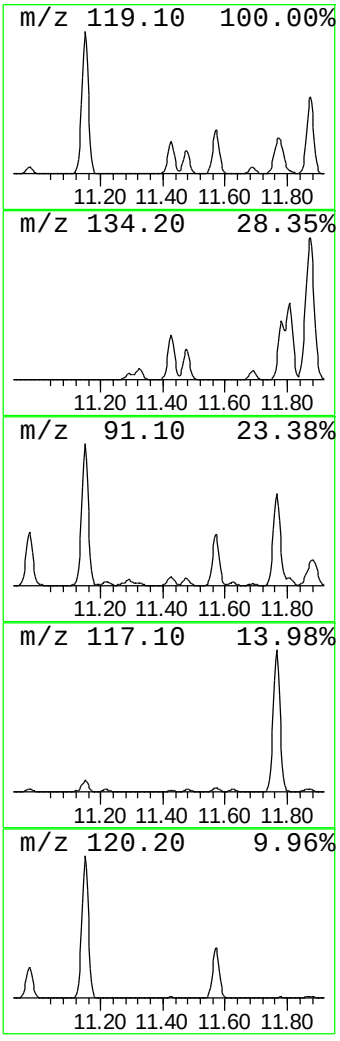
Peak Number 55 p-Cymene Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.42	23.41 ug/L	367397	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	97
2	o-Cymene	134	C10H14	000527-84-4	97
3	o-Cymene	134	C10H14	000527-84-4	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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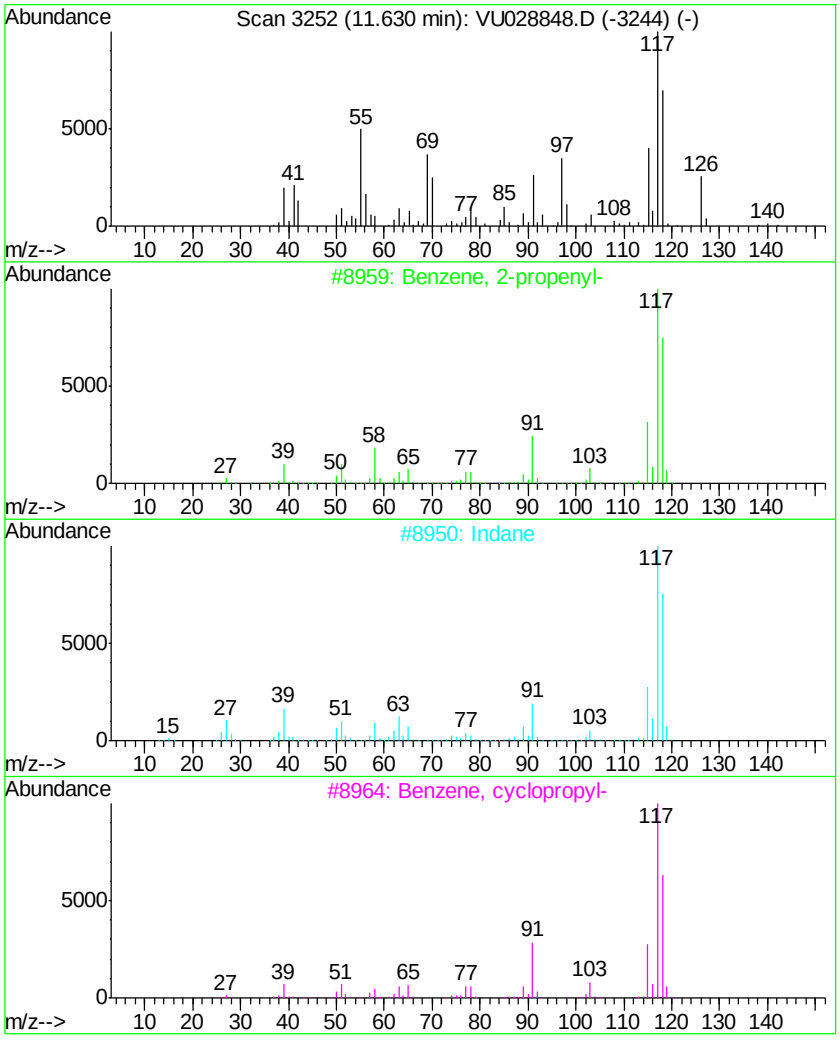
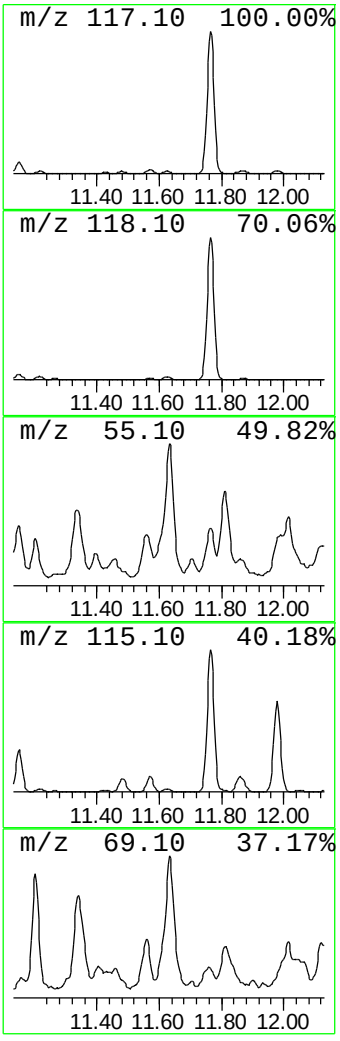
Peak Number 57 Benzene, 2-propenyl- Concentration Rank 77

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.63	18.97 ug/L	297737	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-propenyl-	118	C9H10	000300-57-2	70
2	Indane	118	C9H10	000496-11-7	60
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	55
4	Indane	118	C9H10	000496-11-7	55
5	Indane	118	C9H10	000496-11-7	55





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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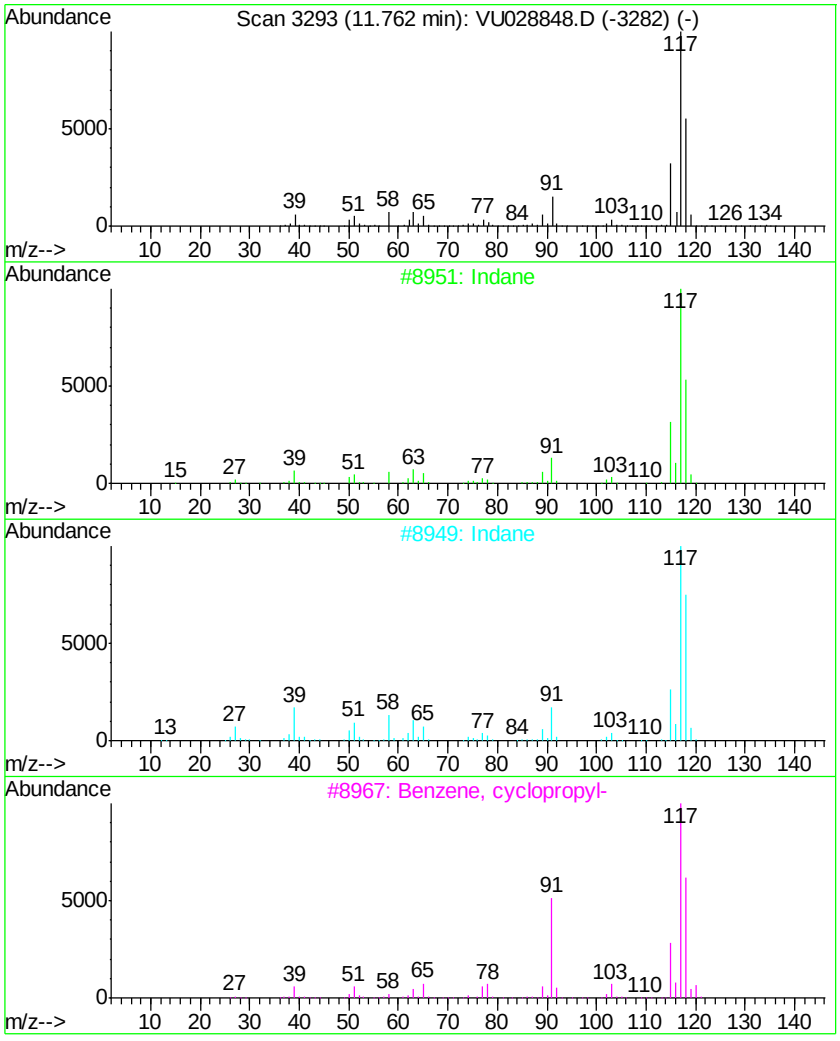
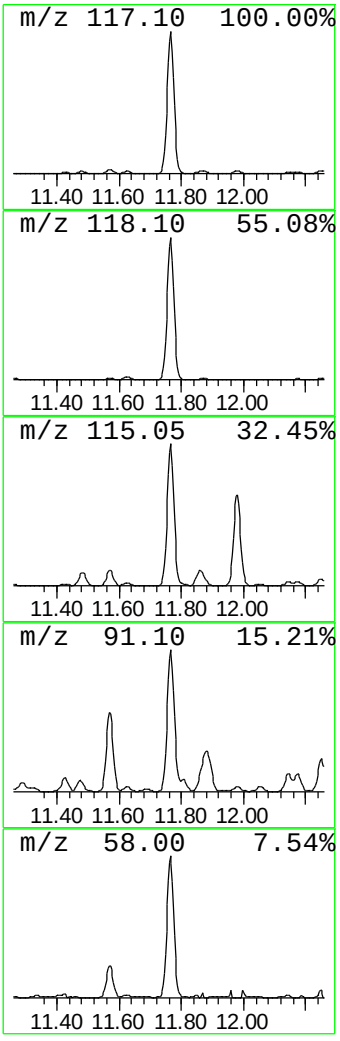
Peak Number 58 Indane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	375.90 ug/L	5898990	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	91
2	Indane	118	C9H10	000496-11-7	91
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	83
4	Indane	118	C9H10	000496-11-7	80
5	Deltacyclene	118	C9H10	007785-10-6	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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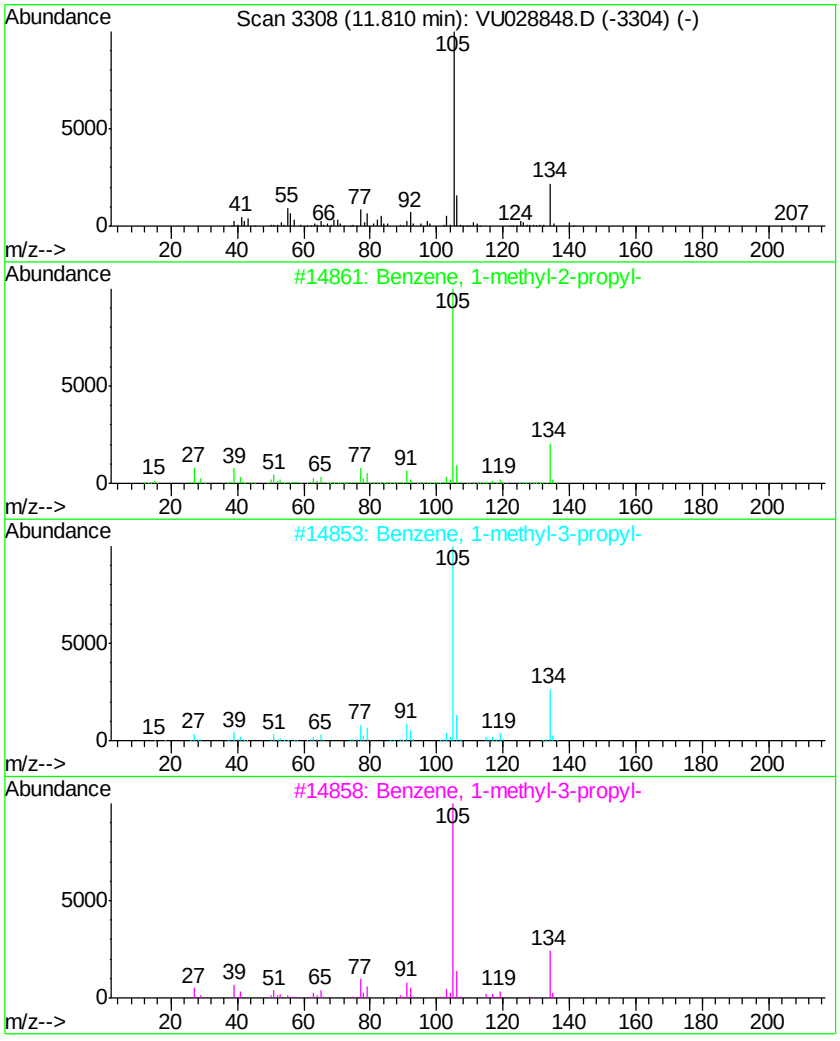
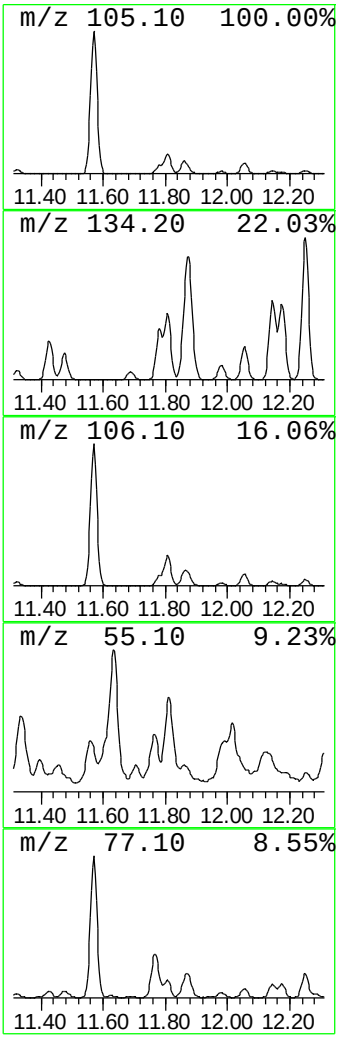
Peak Number 59 Benzene, 1-methyl-2-propyl- Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	32.93 ug/L	516840	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	80
2	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	80
3	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	72
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	72
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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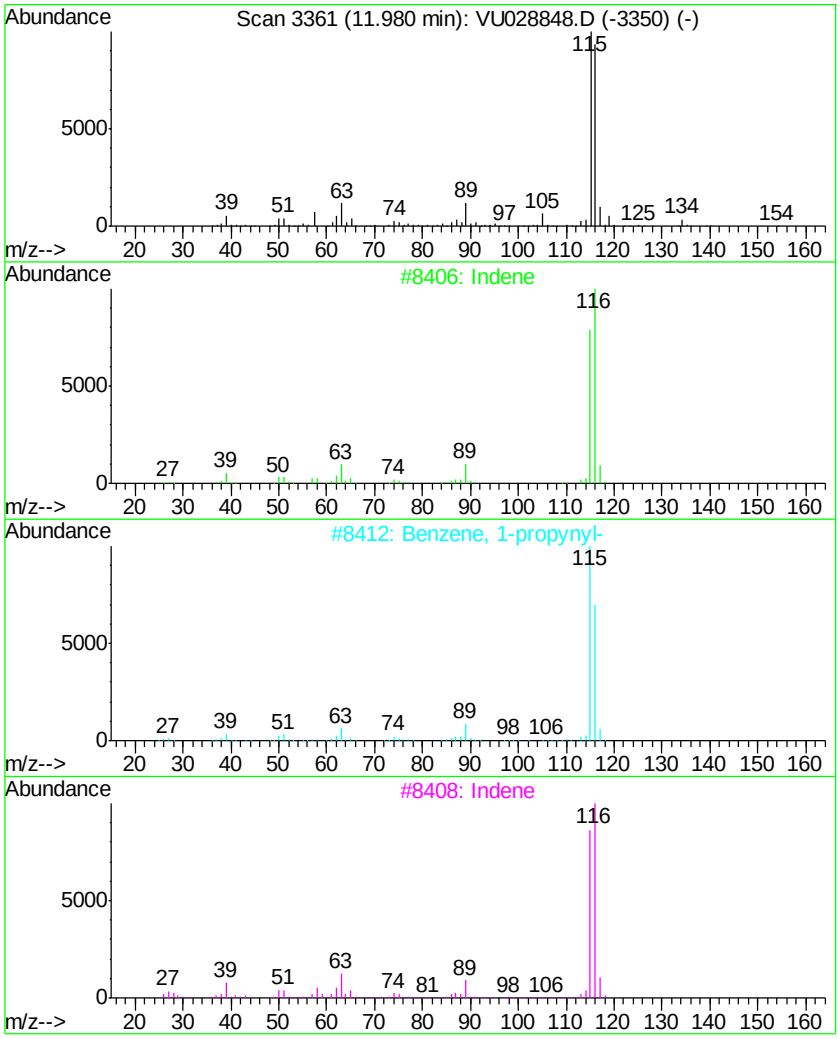
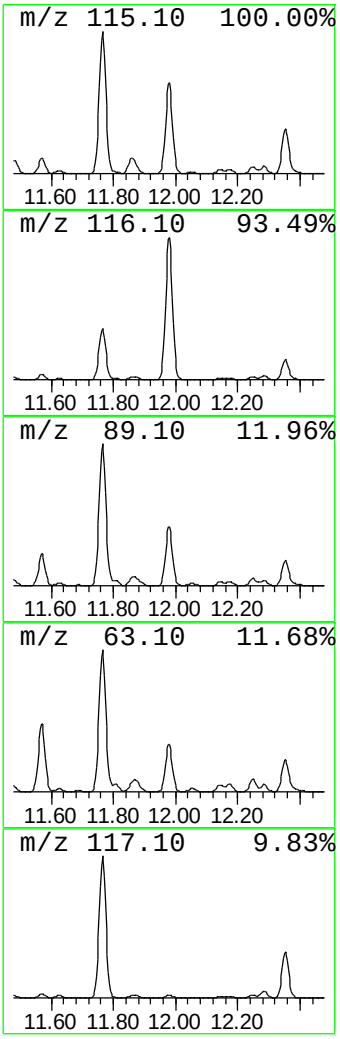
Peak Number 60 Indene Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	85.09 ug/L	1335410	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	97
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
3	Indene	116	C9H8	000095-13-6	94
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.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...	1.30	761.4	ug/L	5982980	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	1.45	1140.1	ug/L	8958590	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	1.51	530.4	ug/L	4168020	1	5.88	392900	50.0
(DEL) Alkane: Str...	1.75	1929.0	ug/L	15158000	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	1.90	441.9	ug/L	3472510	1	5.88	392900	50.0
(DEL) Alkane: Str...	1.94	3134.7	ug/L	24632300	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	2.04	1347.7	ug/L	10590000	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	2.13	415.7	ug/L	3266900	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	2.18	1276.9	ug/L	10033700	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	2.63	156.2	ug/L	1227130	1	5.88	392900	50.0
Cyclopentene	2.68	994.6	ug/L	7815220	1	5.88	392900	50.0
(DEL) Alkane: Str...	2.74	374.5	ug/L	2942680	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	2.79	1422.1	ug/L	11174500	1	5.88	392900	50.0
(DEL) Alkane: Str...	2.99	303.7	ug/L	2386310	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.19	265.7	ug/L	2087520	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.30	583.6	ug/L	4586330	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.42	93.8	ug/L	736860	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.50	236.5	ug/L	1858630	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.55	214.7	ug/L	1686860	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.65	74.0	ug/L	581768	1	5.88	392900	50.0
Cyclopentene, 3-m...	3.73	421.1	ug/L	3309270	1	5.88	392900	50.0
Cyclopentene, 4-m...	3.80	131.1	ug/L	1030530	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	3.89	105.6	ug/L	829581	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	4.09	1549.5	ug/L	12175800	1	5.88	392900	50.0
Cyclopentene, 1-m...	4.78	571.4	ug/L	4490090	1	5.88	392900	50.0
(DEL) Alkane: Str...	5.22	83.3	ug/L	654170	1	5.88	392900	50.0
Amylene hydrate	5.46	297.4	ug/L	2337070	1	5.88	392900	50.0
Cyclobutane, ethe...	5.52	651.7	ug/L	5121020	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	5.62	288.4	ug/L	2265820	1	5.88	392900	50.0
(DEL) Alkane: Str...	5.78	154.8	ug/L	1216350	1	5.88	392900	50.0
2-Hexyne, 4-methyl-	5.94	105.4	ug/L	828477	1	5.88	392900	50.0
Cyclopentene, 4,4...	6.22	133.0	ug/L	1044940	1	5.88	392900	50.0
(DEL) Alkane: Cyc...	6.64	94.2	ug/L	740576	1	5.88	392900	50.0
Cyclohexene, 3-me...	6.82	113.2	ug/L	889328	1	5.88	392900	50.0
Cyclohexane, meth...	6.91	48.5	ug/L	381299	1	5.88	392900	50.0
Cyclobutane, (1-m...	7.07	274.4	ug/L	2156440	1	5.88	392900	50.0
1-Ethylcyclopentene	7.12	43.9	ug/L	344756	1	5.88	392900	50.0
2-Pentanol, 2-met...	7.37	94.7	ug/L	744042	1	5.88	392900	50.0
Cyclohexene, 1-me...	7.43	293.4	ug/L	2305550	1	5.88	392900	50.0
3-Pentanol, 2,4-d...	7.72	46.5	ug/L	528725	2	9.09	568436	50.0
(DEL) Alkane: Cyc...	7.92	37.8	ug/L	430070	2	9.09	568436	50.0
1,4-Hexadiene, 2,...	8.09	38.7	ug/L	439829	2	9.09	568436	50.0
1,3-Dimethyl-1-cy...	8.39	27.4	ug/L	310943	2	9.09	568436	50.0
Cyclopentanol, 1-...	8.50	66.2	ug/L	752207	2	9.09	568436	50.0
Cyclohexene, 1,6-...	8.76	24.7	ug/L	280465	2	9.09	568436	50.0
2-Hexanol, 2-methyl-	9.02	44.3	ug/L	503651	2	9.09	568436	50.0
Thiophene, 2,5-di...	9.54	25.4	ug/L	288722	2	9.09	568436	50.0
Benzene, propyl-	10.58	112.8	ug/L	1769400	3	11.48	784660	50.0
Benzene, 1-ethyl-...	10.68	336.7	ug/L	5284060	3	11.48	784660	50.0

Benzene, 1,2,3-tr...	10.77	195.9	ug/L	3074700	3	11.48	784660	50.0
Benzene, 1-etheny...	11.21	17.5	ug/L	274830	3	11.48	784660	50.0
p-Cymene	11.42	23.4	ug/L	367397	3	11.48	784660	50.0
Benzene, 2-propenyl-	11.63	19.0	ug/L	297737	3	11.48	784660	50.0
Indane	11.76	375.9	ug/L	5898990	3	11.48	784660	50.0
Benzene, 1-methyl...	11.81	32.9	ug/L	516840	3	11.48	784660	50.0
Indene	11.98	85.1	ug/L	1335410	3	11.48	784660	50.0

Instrument :
MSVOA_U
ClientSampleId :
F9F55