LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR050819WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.341	59	78	89	rBV	331830	1314447	4.60%	0.496%
2	2.270	358	367	378	rBV	294549	457228	1.60%	0.173%
3	2.736	505	512	525	rVB	341078	629425	2.20%	0.238%
4	2.987	577	590	608	rVB	404481	869821	3.04%	0.328%
5	3.289	672	684	706	rVB	148885	330200	1.16%	0.125%
6	4.080	913	930	950	rBV2	613515	1620688	5.67%	0.612%
7	4.186	950	963	990	rBV	328477	966306	3.38%	0.365%
8	4.643	1091	1105	1119	rBV	260587	619653	2.17%	0.234%
9	4.984	1193	1211	1226	rBV2	1272872	3113938	10.90%	1.175%
10	5.070	1227	1238	1264	rVB4	321655	928378	3.25%	0.350%
11	5.212	1266	1282	1287	rBV2	454734	972398	3.40%	0.367%
12	5.334	1304	1320	1337	rVB2	501439	1372796	4.80%	0.518%
13	5.472	1348	1363	1374	rBV3	905885	1993794	6.98%	0.752%
14	5.546	1375	1386	1396	rVV2	884409	1922976	6.73%	0.726%
15	5.614	1396	1407	1428	rVB	1139411	2548443	8.92%	0.962%
16	5.881	1477	1490	1501	rBV	602209	1212654	4.24%	0.458%
17	5.942	1502	1509	1530	rVB6	167597	474311	1.66%	0.179%
18	6.328	1617	1629	1636	rBV	345320	648228	2.27%	0.245%
19	6.408	1636	1654	1668	rVB2	3995692	9268106	32.44%	3.498%
20	6.633	1714	1724	1738	rVB	389101	719488	2.52%	0.272%
21	6.730	1740	1754	1768	rVB4	366631	789705	2.76%	0.298%
22	6.839	1768	1788	1797	rBV5	286898	913915	3.20%	0.345%
23	6.897	1797	1806	1828	rVB3	378689	879026	3.08%	0.332%
24	7.061	1831	1857	1867	rBV3	400373	1020404	3.57%	0.385%
25	7.250	1897	1916	1927	rBV6	379102	1126397	3.94%	0.425%
26	7.427	1960	1971	1987	rVB6	398658	889460	3.11%	0.336%
27	7.524	1987	2001	2006	rBV2	1924386	3502367	12.26%	1.322%
28	7.704	2044	2057	2065	rBV3	980688	2046465	7.16%	0.772%
29	7.842	2091	2100	2110	rVB5	384943	691607	2.42%	0.261%
30	7.913	2111	2122	2142	rVB	1789330	3279035	11.48%	1.237%
31	8.041	2144	2162	2169	rVV	1127853	2211421	7.74%	0.835%
32	8.090	2169	2177	2208	rVB	1140696	2499935	8.75%	0.943%
33	8.312	2237	2246	2260	rBV	1144349	2053039	7.18%	0.775%
34	8.385	2260	2269	2274	rBV3	338162	541019	1.89%	0.204%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR050819WMA.M
Title : TRACE VOA SOM01.0

35	8.482	2287	2299	2308	rVB3	696244	1470834	5.15%	0.555%
36	8.540	2309	2317	2325	rBV	743827	1326336	4.64%	0.501%
37	8.601	2330	2336	2344	rVB	568042	861590	3.02%	0.325%
38	8.755	2372	2384	2396	rBV2	531441	939103	3.29%	0.354%
39	8.845	2402	2412	2416	rBV3	337499	593862	2.08%	0.224%
40	9.000	2452	2460	2474	rVB2	418432	729735	2.55%	0.275%
41	9.086	2478	2487	2497	rBV	860980	1307768	4.58%	0.494%
42	9.183	2497	2517	2531	rBV	1316788	2947960	10.32%	1.113%
43	9.356	2559	2571	2591	rBV6	1019096	2780428	9.73%	1.049%
44	9.565	2626	2636	2655	rVB2	455099	916942	3.21%	0.346%
45	9.717	2666	2683	2685	rBV5	582904	1099757	3.85%	0.415%
46	9.807	2702	2711	2729	rVB6	155233	452015	1.58%	0.171%
47	9.919	2732	2746	2748	rBV5	267433	500227	1.75%	0.189%
48	9.948	2749	2755	2772	rVV2	641670	1128654	3.95%	0.426%
49	10.041	2775	2784	2802	rVV7	431341	915055	3.20%	0.345%
50	10.160	2811	2821	2831	rBV	5141670	7954184	27.84%	3.002%
51	10.369	2877	2886	2895	rBV3	503000	823048	2.88%	0.311%
52	10.430	2896	2905	2916	rVV2	345783	748760	2.62%	0.283%
53	10.488	2916	2923	2933	rVB2	339704	521060	1.82%	0.197%
54	10.582	2941	2952	2978	rBV	9978021	15565959	54.48%	5.874%
55	10.694	2980	2987	2997	rVB6	209076	398751	1.40%	0.150%
56	10.967	3063	3072	3093	rVB2	930783	1694355	5.93%	0.639%
57	11.096	3103	3112	3120	rVB	440598	662703	2.32%	0.250%
58	11.286	3159	3171	3176	rVV	1361767	2199761	7.70%	0.830%
59	11.318	3176	3181	3197	rVB	1615584	2479848	8.68%	0.936%
60	11.479	3222	3231	3246	rBV	1011782	1651647	5.78%	0.623%
61	11.565	3251	3258	3267	rVB	296920	416673	1.46%	0.157%
62	11.684	3284	3295	3307	rVB	1458593	2218075	7.76%	0.837%
63	11.768	3307	3321	3339	rBV3	10483010	21839975	76.43%	8.242%
64	11.858	3339	3349	3374	rVV3	3147658	6584633	23.04%	2.485%
65	11.977	3375	3386	3400	rVB	1772969	2800043	9.80%	1.057%
66	12.051	3401	3409	3419	rBV	242697	374176	1.31%	0.141%
67	12.141	3428	3437	3450	rVB	759170	1110198	3.89%	0.419%
68	12.247	3456	3470	3476	rBV	7662667	11823288	41.38%	4.462%
69	12.279	3476	3480	3491	rVV	3747502	5522385	19.33%	2.084%
70	12.350	3491	3502	3523	rVV2	10860566	20392626	71.37%	7.696%
71	12.491	3539	3546	3551	rBV3	214033	333544	1.17%	0.126%

LSC Area Percent Report

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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR050819WMA.M
Title : TRACE VOA SOM01.0

72	12.533	3551	3559	3574	rVB	1378877	2264191	7.92%	0.854%
73	12.646	3575	3594	3606	rBV	6494680	10397149	36.39%	3.924%
74	12.716	3607	3616	3626	rVB6	343979	599298	2.10%	0.226%
75	12.784	3627	3637	3653	rBV2	1304456	2174639	7.61%	0.821%
76	12.874	3658	3665	3670	rBV	339633	465372	1.63%	0.176%
77	12.919	3672	3679	3683	rBV	484812	666596	2.33%	0.252%
78	12.961	3683	3692	3700	rBV	5037780	7180546	25.13%	2.710%
79	13.118	3720	3741	3753	rBV2	18045744	28574373	100.00%	10.784%
80	13.183	3754	3761	3771	rVB2	987593	1714761	6.00%	0.647%
81	13.286	3783	3793	3818	rVB2	2591448	4551160	15.93%	1.718%
82	13.405	3820	3830	3836	rVV3	480115	840938	2.94%	0.317%
83	13.450	3836	3844	3853	rVV	1448818	2450448	8.58%	0.925%
84	13.504	3853	3861	3869	rVV2	1773591	2908196	10.18%	1.098%
85	13.572	3870	3882	3886	rVV2	1185687	2473854	8.66%	0.934%
86	13.604	3887	3892	3914	rVB2	2065828	3520443	12.32%	1.329%
87	13.736	3917	3933	3943	rVV	2336613	3941502	13.79%	1.487%
88	13.781	3944	3947	3960	rVV3	242254	397723	1.39%	0.150%
89	13.948	3991	3999	4010	rVV3	483816	810801	2.84%	0.306%
90	14.009	4010	4018	4028	rVB3	485359	765374	2.68%	0.289%
91	14.147	4050	4061	4077	rBV	352399	713344	2.50%	0.269%
92	14.327	4108	4117	4129	rBV	501668	972388	3.40%	0.367%
93	14.472	4155	4162	4173	rVV2	166824	289203	1.01%	0.109%
94	14.533	4173	4181	4196	rVB3	253156	454377	1.59%	0.171%
95	14.675	4214	4225	4238	rBV4	182696	389315	1.36%	0.147%
96	14.871	4276	4286	4299	rBV	1860509	2987983	10.46%	1.128%
97	15.057	4332	4344	4360	rBV	1130962	1962095	6.87%	0.740%

Sum of corrected areas: 264979100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
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Acq On : 13 May 2019 12:54
Operator : JC/SP
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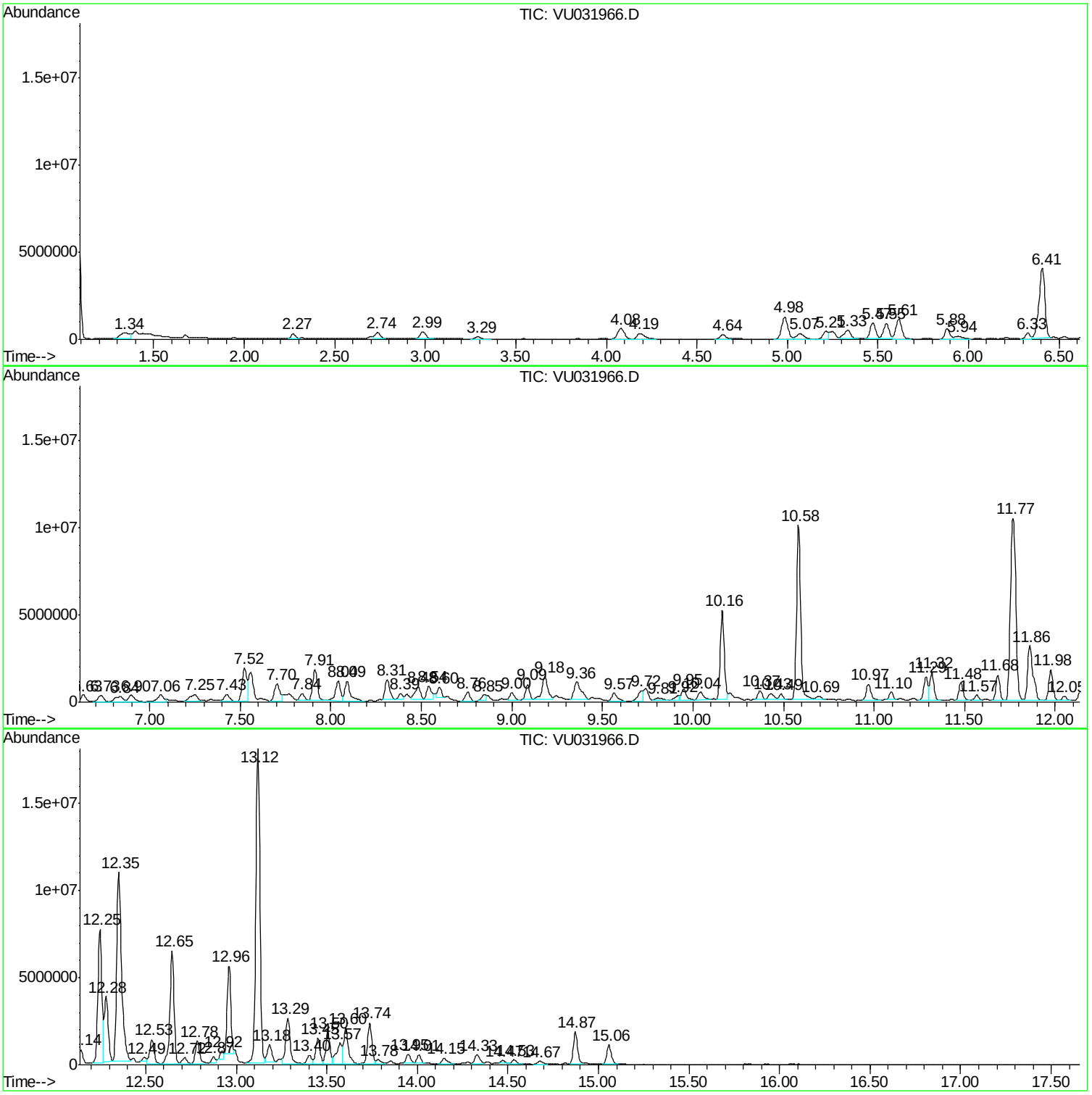
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

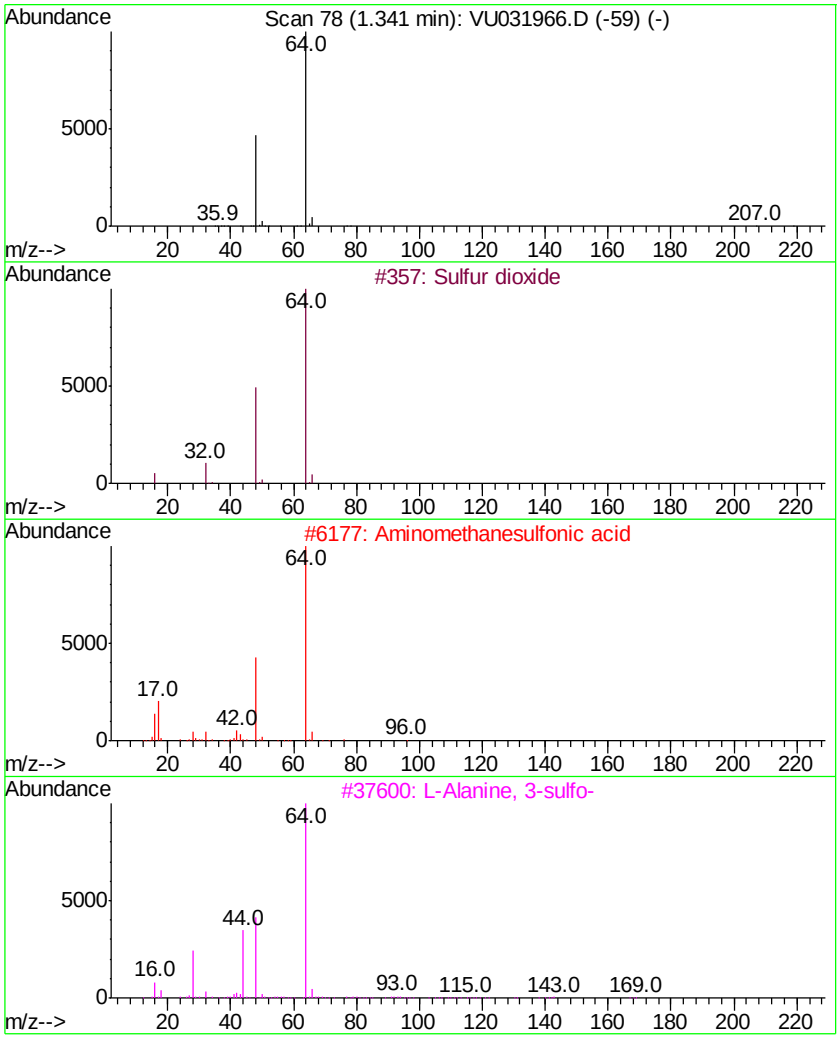
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

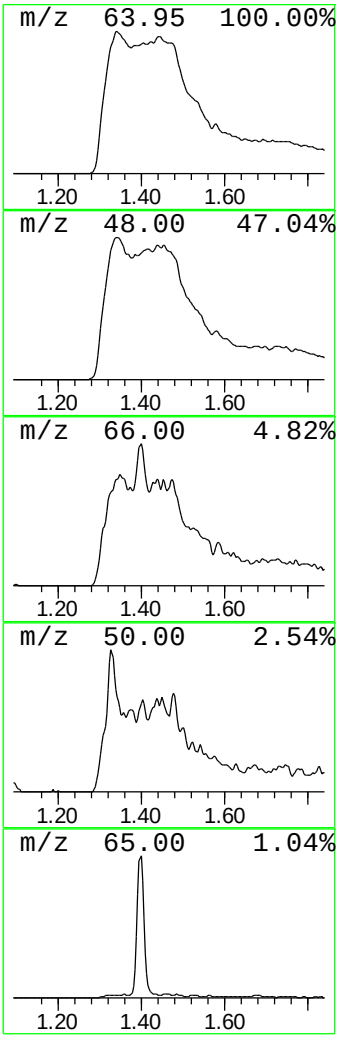
****

Peak Number 1 Sulfur dioxide Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.34	5.42 ug/L	1314450	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	74
3	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
4	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

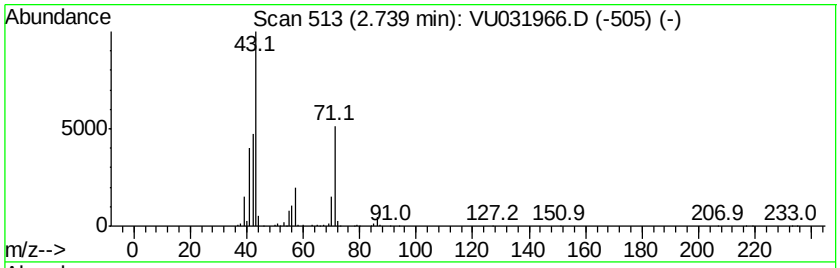
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

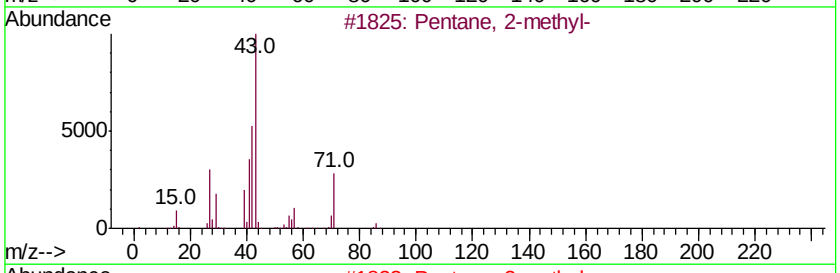
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

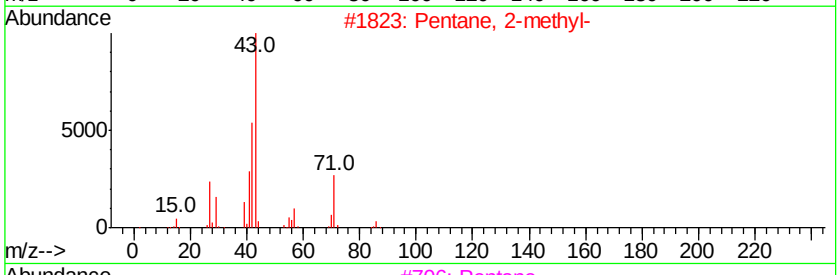
****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 55

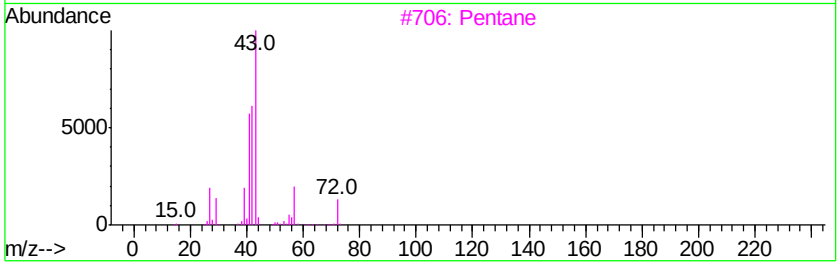
R.T.	EstConc	Area	Relative to ISTD	R.T.
2.74	2.60 ug/L	629425	1,4-Difluorobenzene	5.88

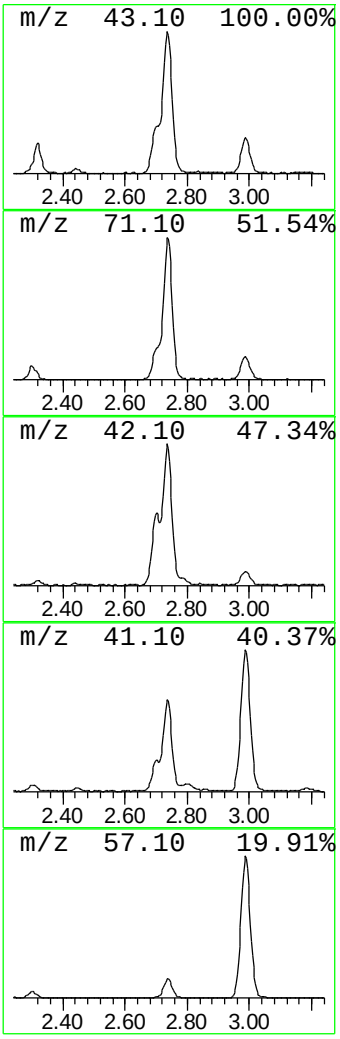
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	46
3	Pentane	72	C5H12	000109-66-0	43
4	1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	38
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	25











Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

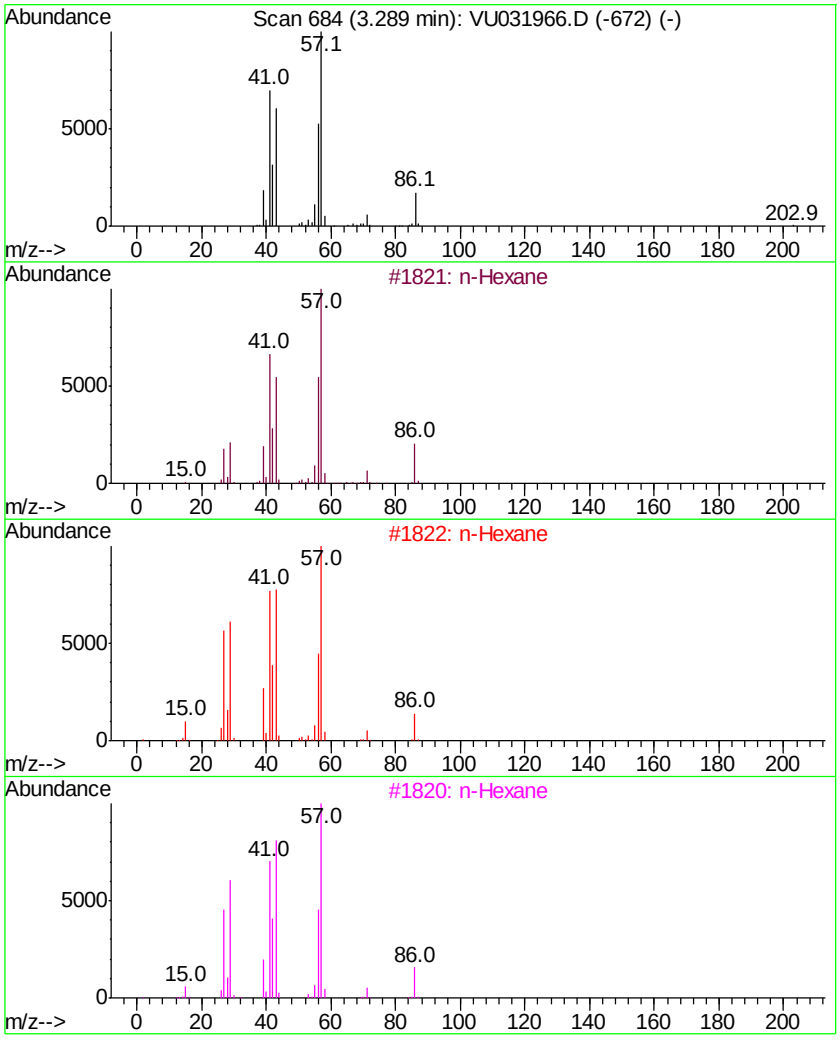
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

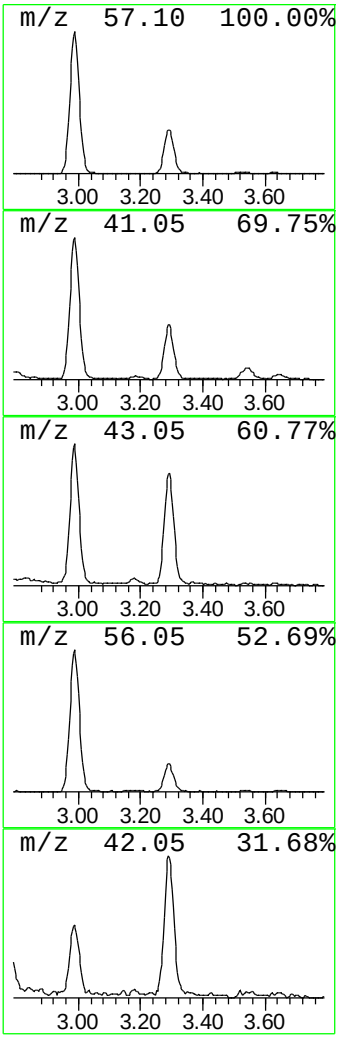
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.29	1.36 ug/L	330200	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	90
3	n-Hexane	86	C6H14	000110-54-3	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	53
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

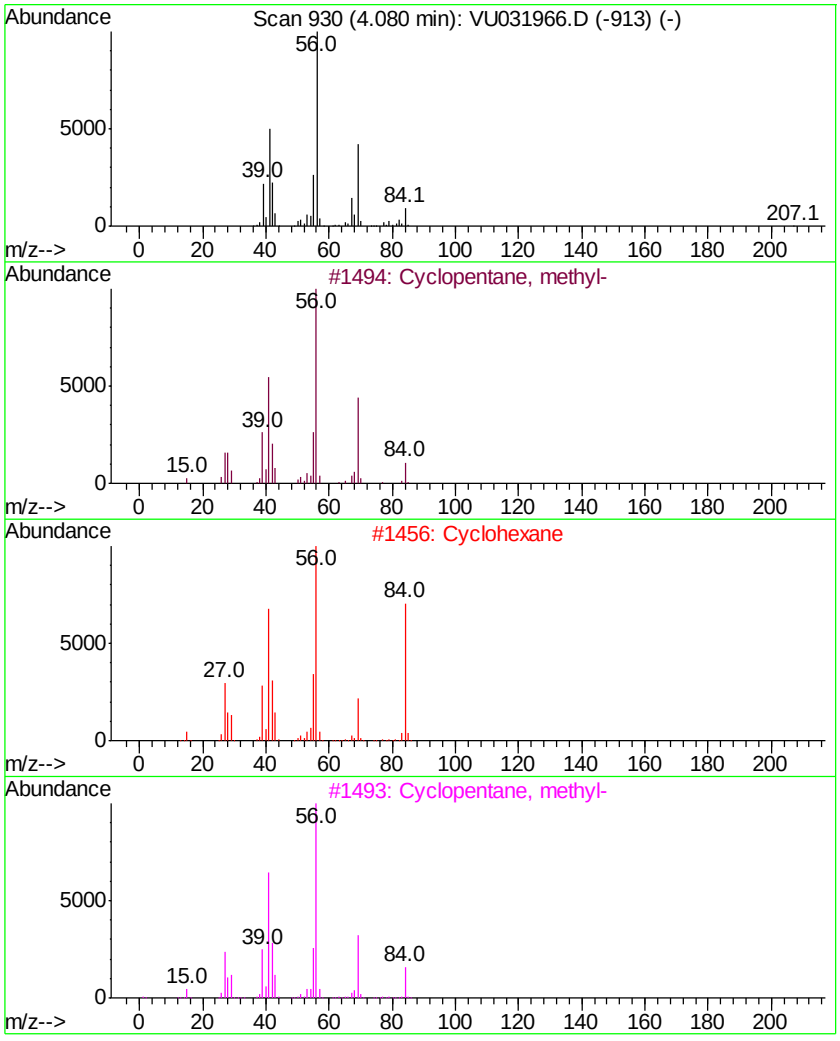
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

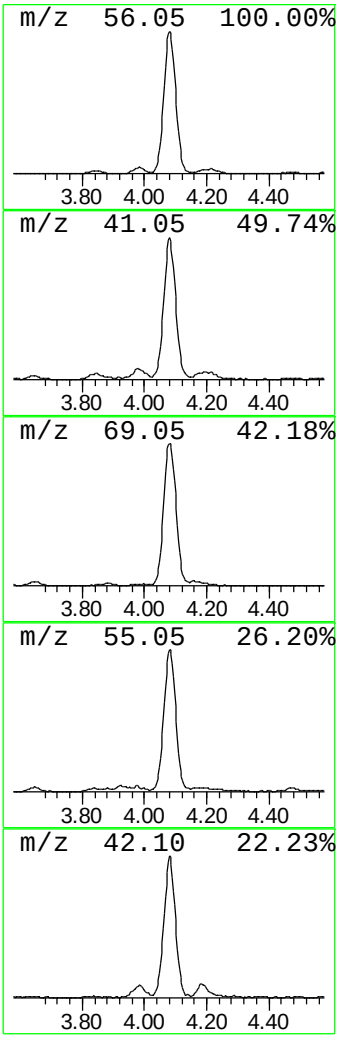
****

Peak Number 4 (DEL) Alkane: Cyclic4.08 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.08	6.68 ug/L	1620690	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclohexane	84	C6H12	000110-82-7	86
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
4	Cyclohexane	84	C6H12	000110-82-7	83
5	Cyclohexane	84	C6H12	000110-82-7	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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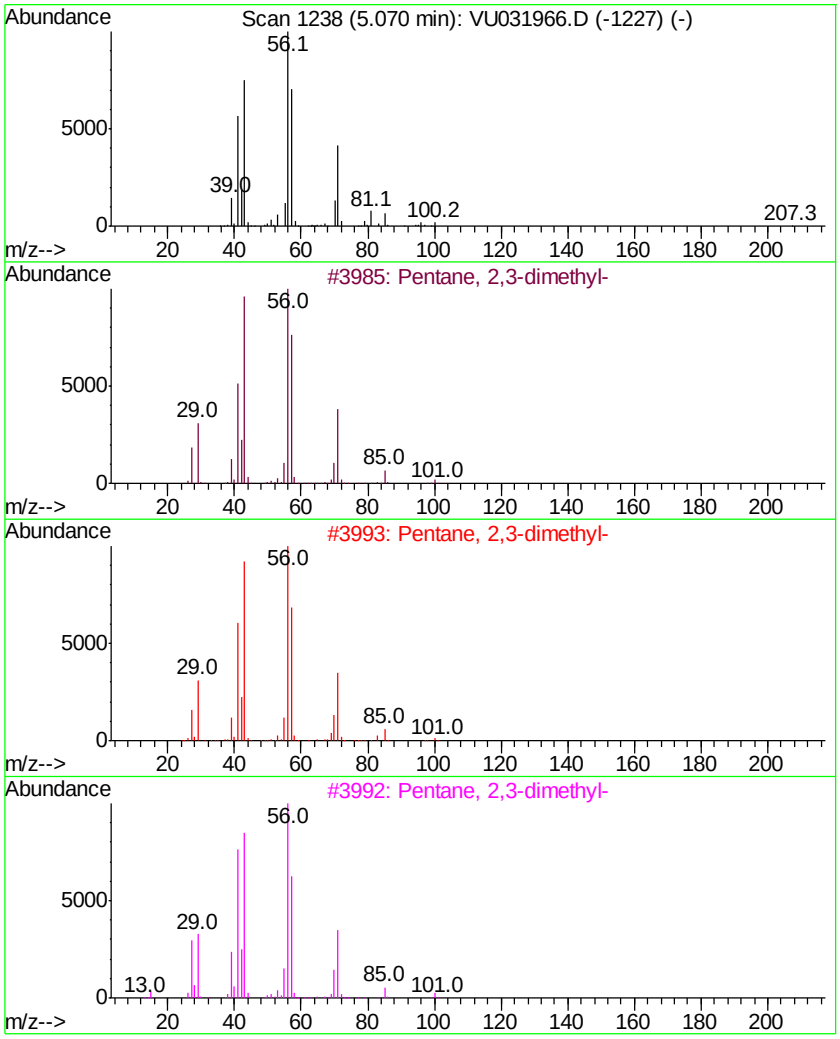
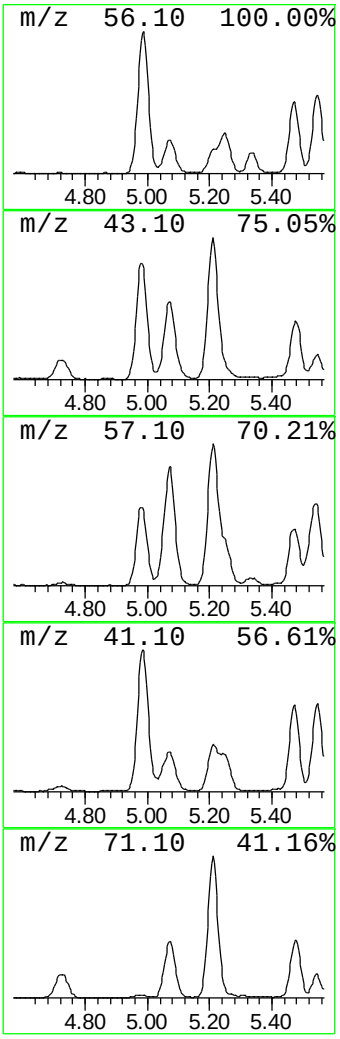
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	3.83 ug/L	928378	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	80
5	Ethanol, 2-(dodecyloxy)-	230	C14H30O2	004536-30-5	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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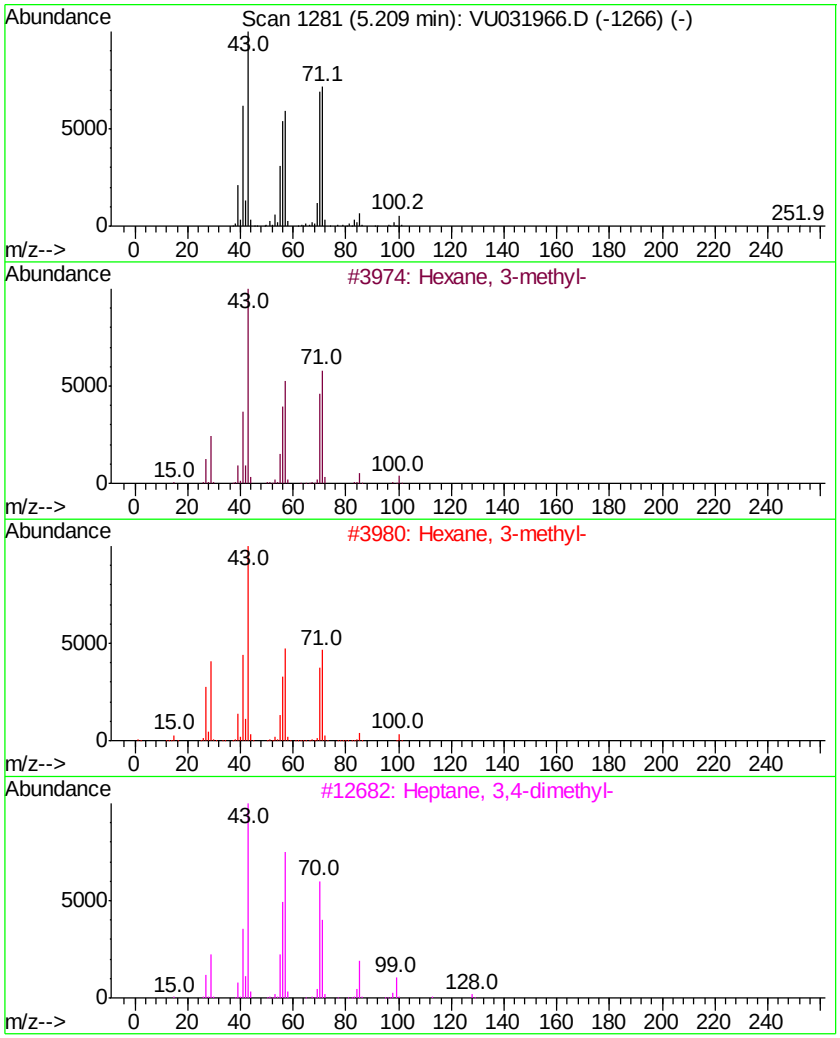
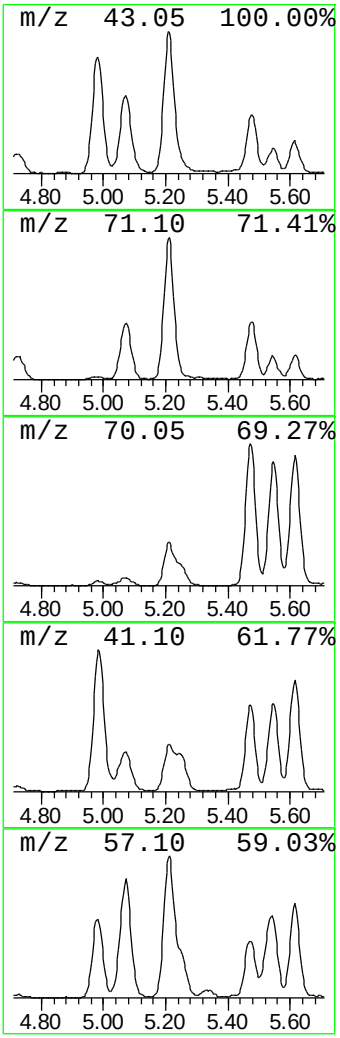
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.21	4.01 ug/L	972398	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	87
3	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	72
4	Hexane, 3-methyl-	100	C7H16	000589-34-4	68
5	Sulfurous acid, isobutyl 2-penty...	208	C9H20O3S	1000309-15-2	53





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Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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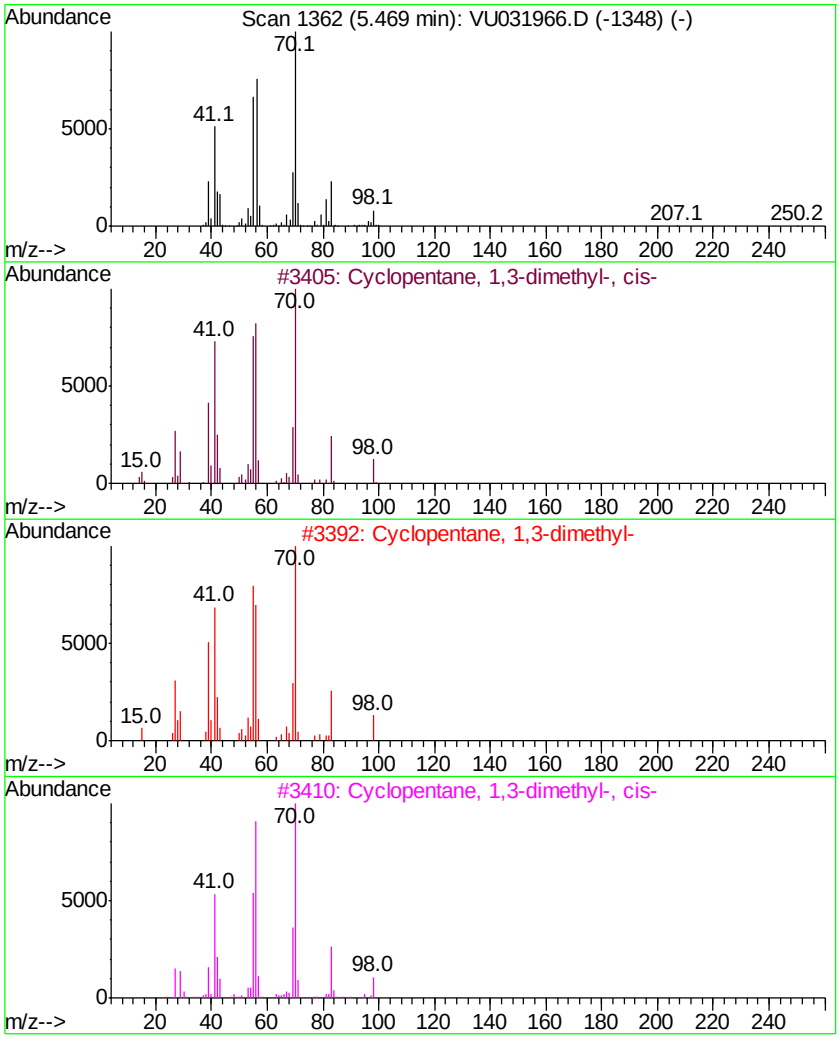
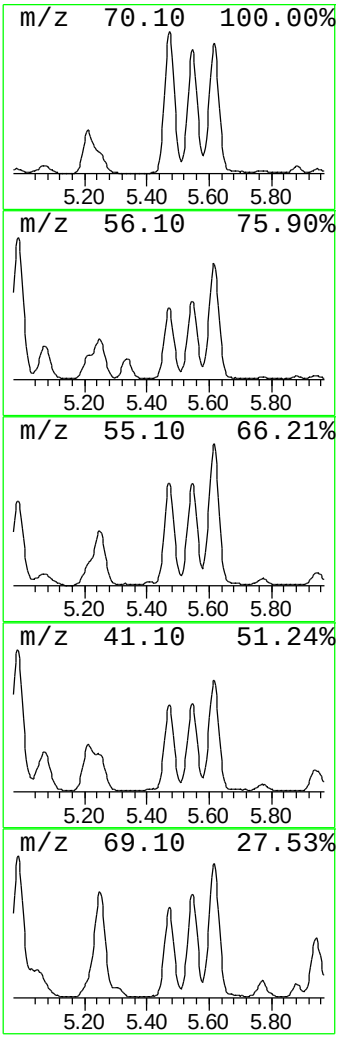
Peak Number 7 (DEL) Alkane: Cyclic5.47 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.47	8.22 ug/L	1993790	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	90
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
4	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	58
5	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	58





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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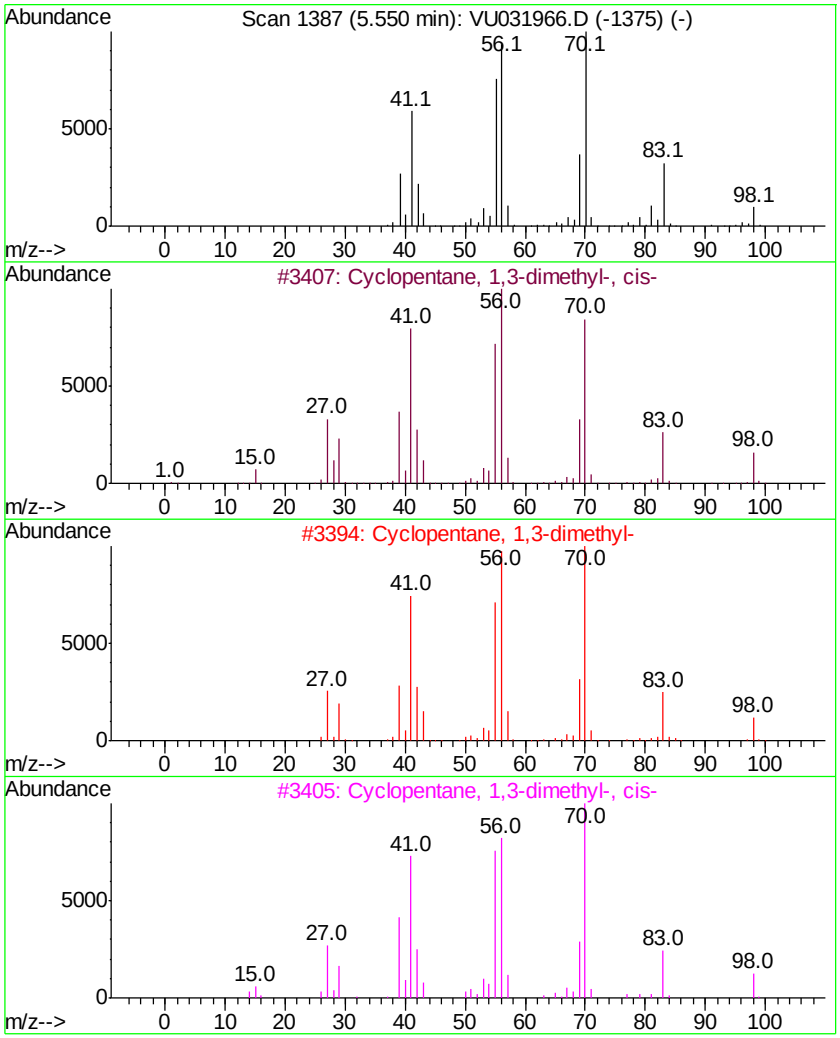
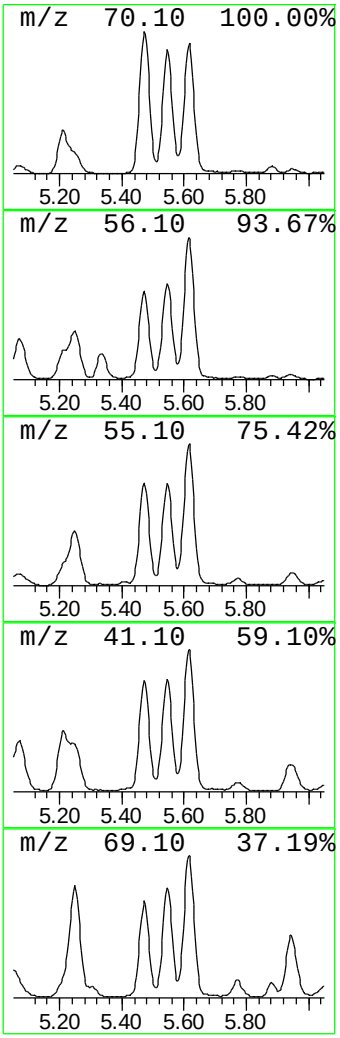
Peak Number 8 (DEL) Alkane: Cyclic5.55 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	7.93 ug/L	1922980	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	94
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	91
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	91
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	90
5	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	90





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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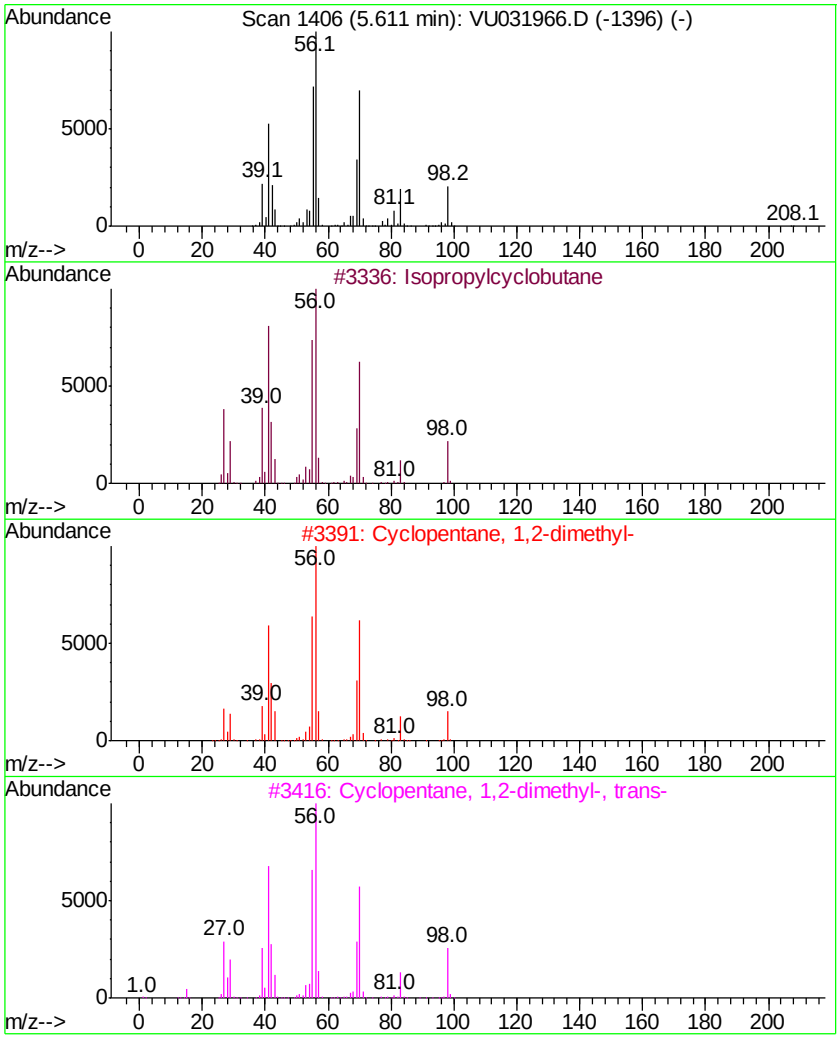
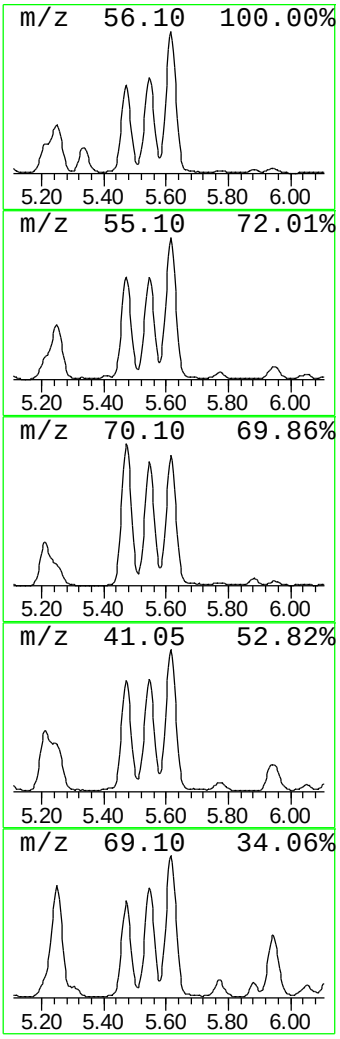
Peak Number 9 (DEL) Alkane: Cyclic5.61 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.61	10.51 ug/L	2548440	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropylcyclobutane	98	C7H14	000872-56-0	94
2	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	91
3	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	87
5	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	78





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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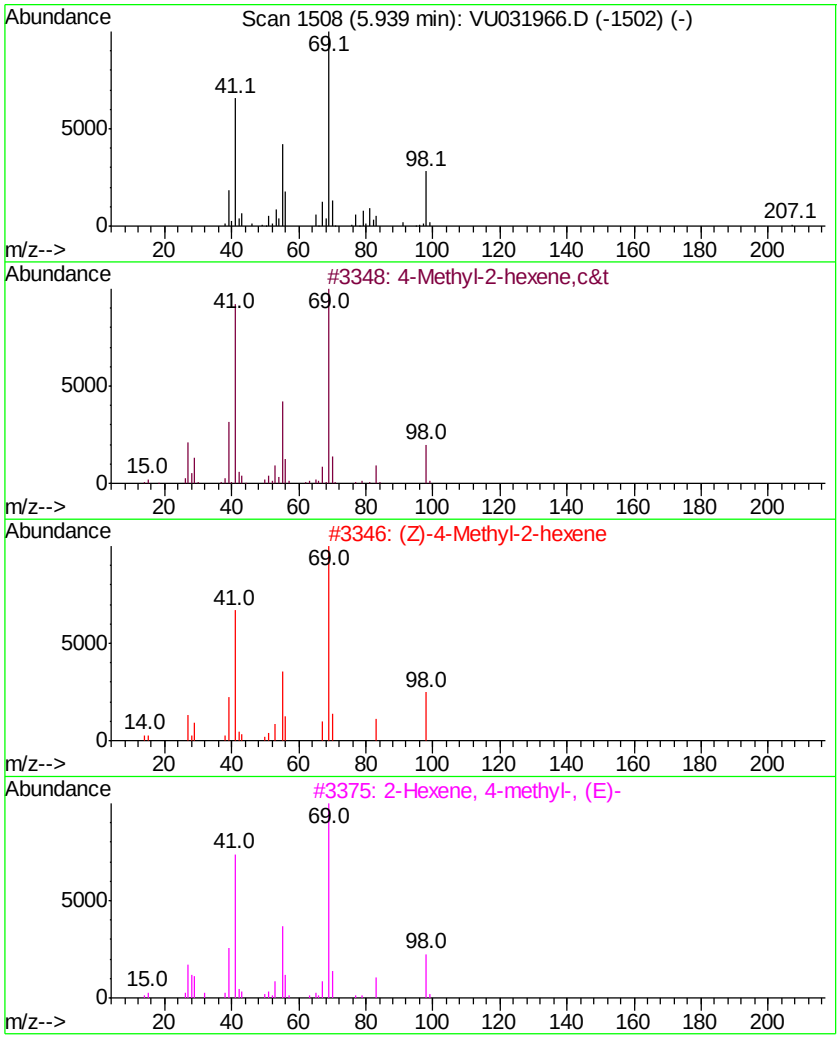
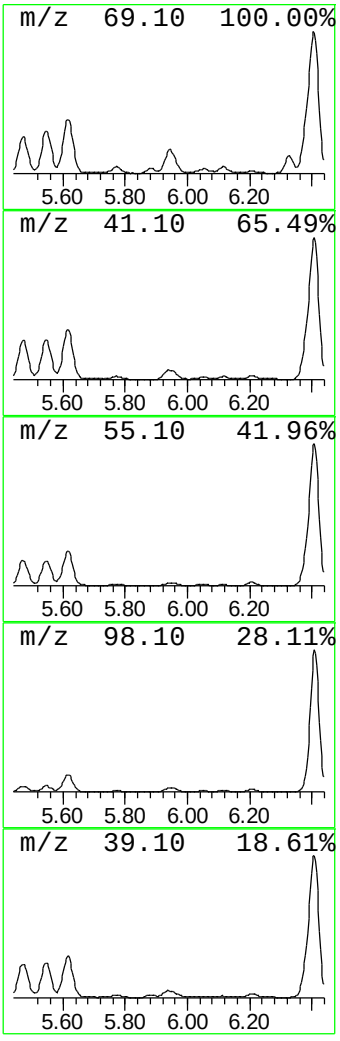
Peak Number 10 (DEL) Alkane: Cyclic5.94 Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.94	1.96 ug/L	474311	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methyl-2-hexene,c&t	98	C7H14	003404-55-5	86
2	(Z)-4-Methyl-2-hexene	98	C7H14	003683-19-0	86
3	2-Hexene, 4-methyl-, (E)-	98	C7H14	003683-22-5	86
4	4-Methyl-2-hexene,c&t	98	C7H14	003404-55-5	80
5	2-Hexene, 4-methyl-, (E)-	98	C7H14	003683-22-5	80





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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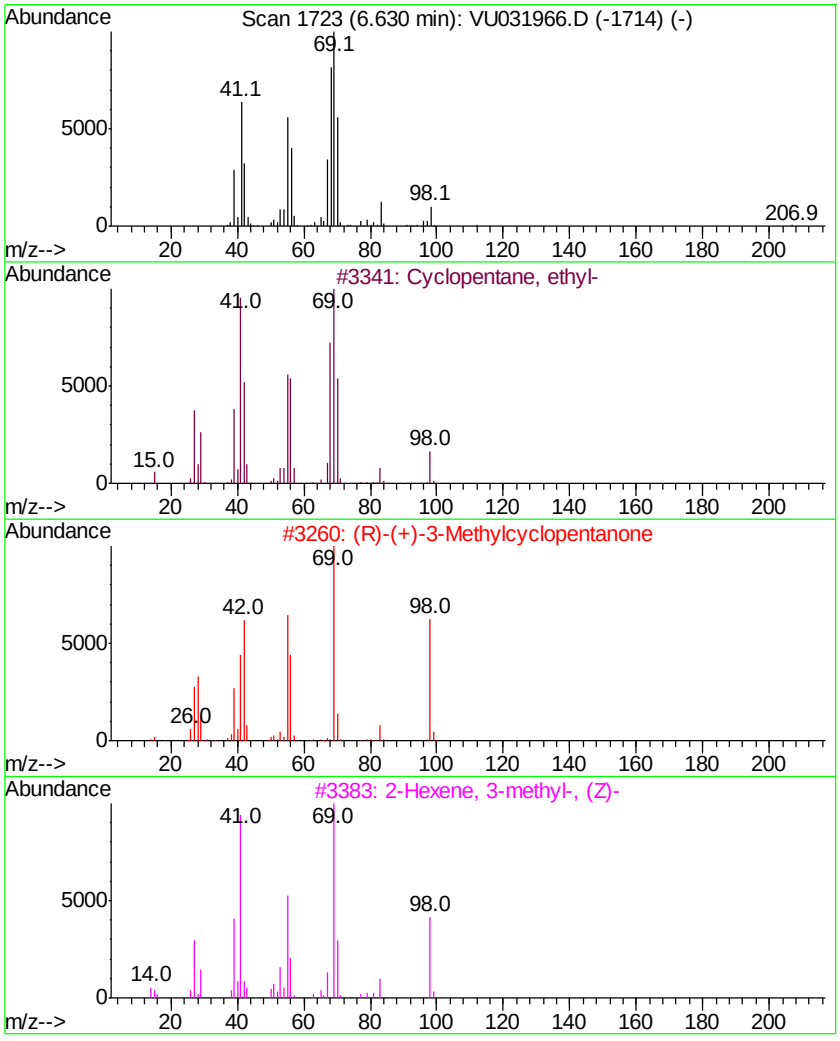
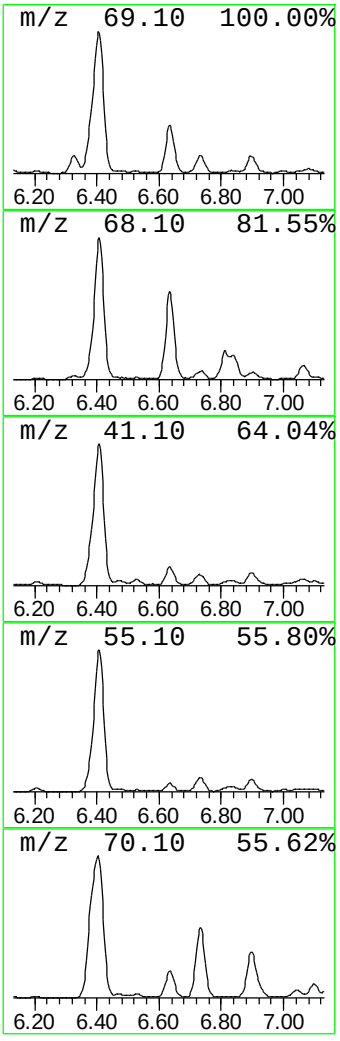
Peak Number 11 (DEL) Alkane: Cyclic6.63 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	2.97 ug/L	719488	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	83
2	(R)-(+)-3-Methylcyclopentanone	98	C6H10O	006672-30-6	43
3	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	43
4	Cyclopentanone, 3-methyl-	98	C6H10O	001757-42-2	38
5	1-Hexene, 3-methyl-	98	C7H14	003404-61-3	38





Library Search Compound Report

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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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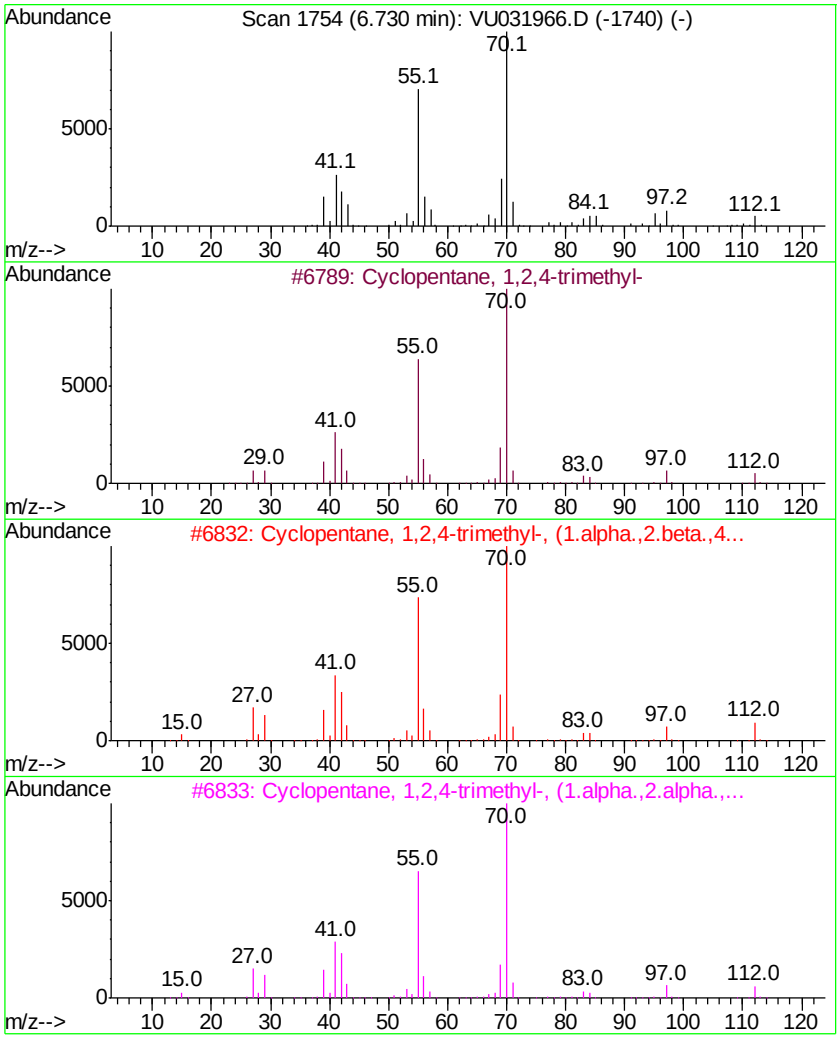
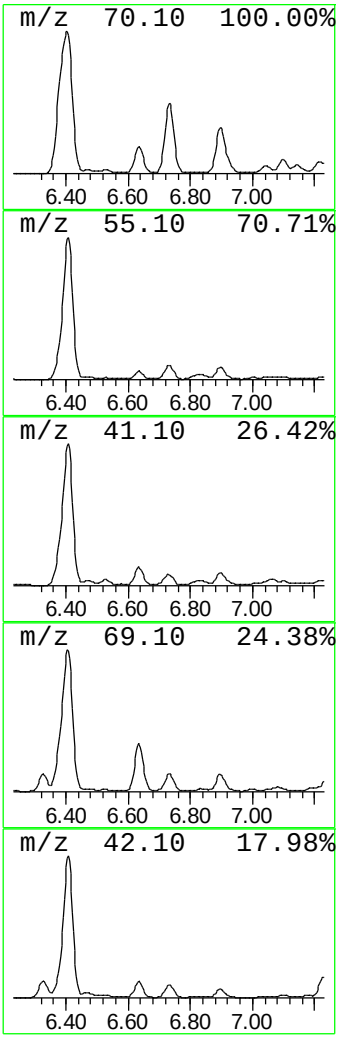
Peak Number 12 (DEL) Alkane: Cyclic6.73 Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	3.26 ug/L	789705	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	90
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	90
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	87
4	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	86
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	72





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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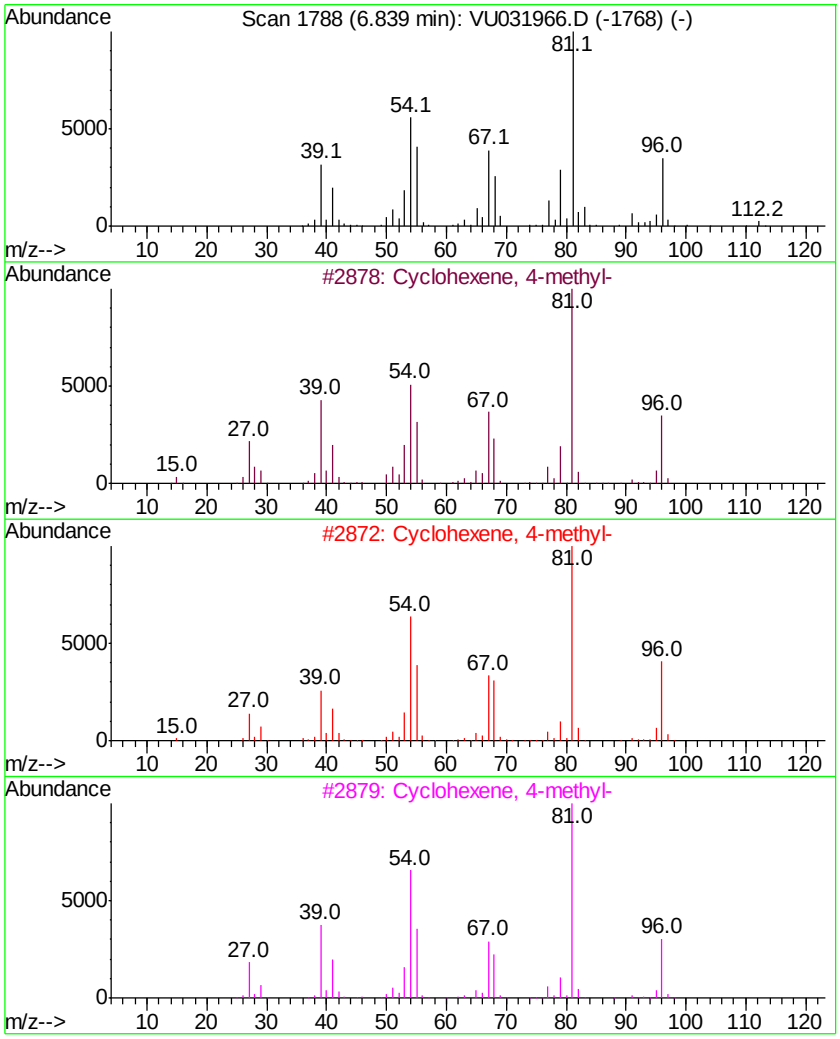
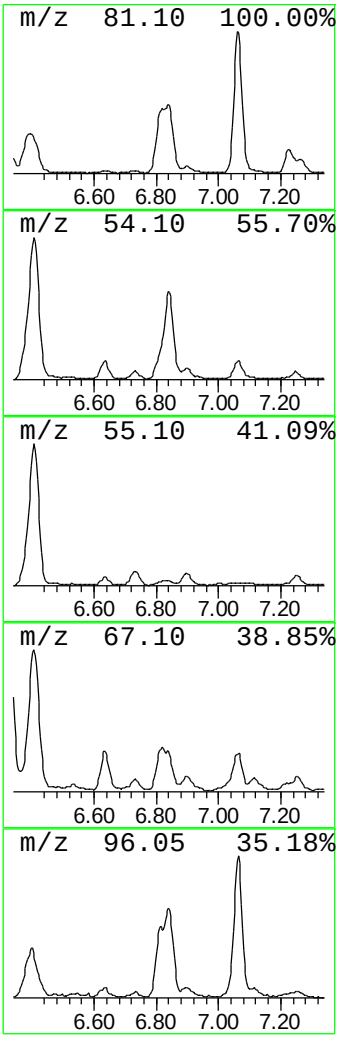
Peak Number 13 Cyclohexene, 4-methyl- Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.84	3.77 ug/L	913915	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	95
2	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	87
3	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	87
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	76
5	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	70





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Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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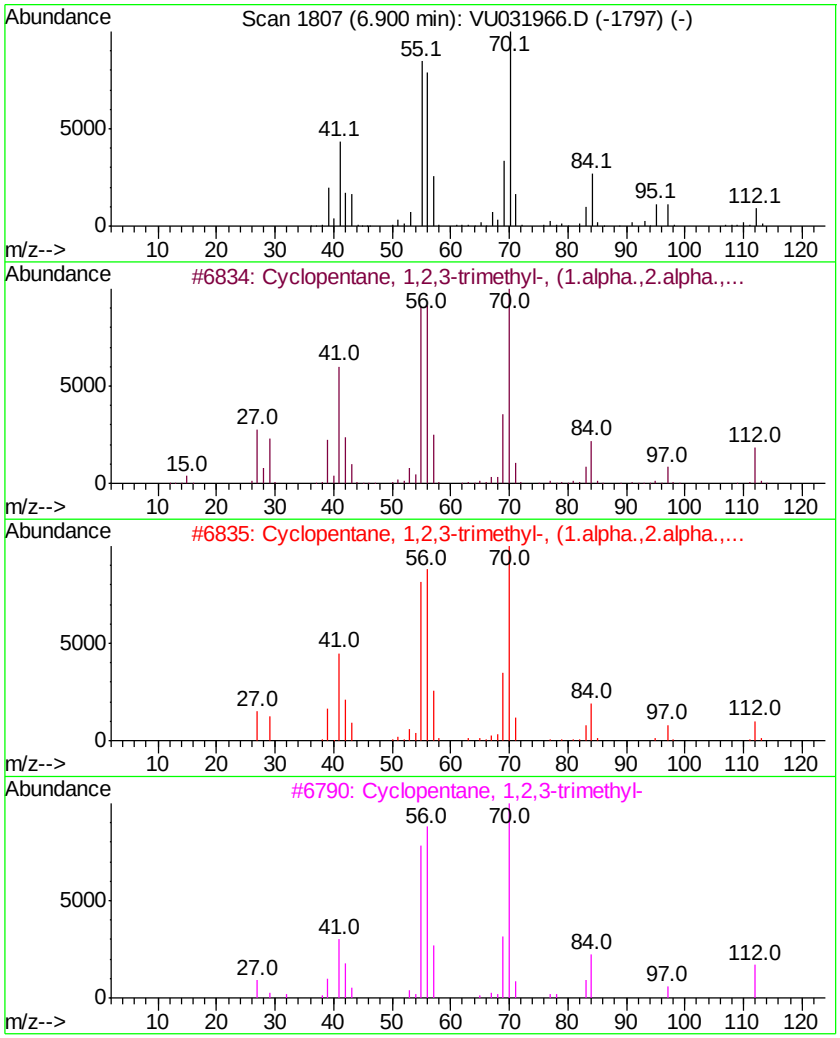
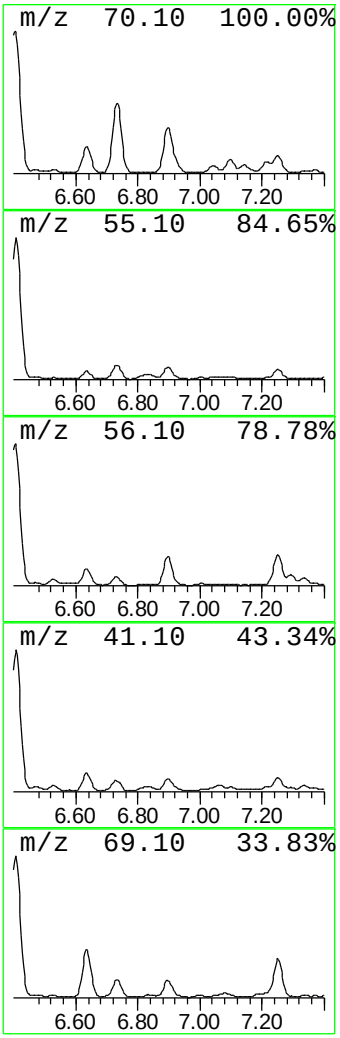
Peak Number 14 (DEL) Alkane: Cyclic6.90 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	3.62 ug/L	879026	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	95
2	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	93
3	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	91
4	cis-1-Butyl-2-methylcyclopropane	112	C8H16	038851-69-3	64
5	trans-1-Butyl-2-methylcyclopropane	112	C8H16	038851-70-6	64





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Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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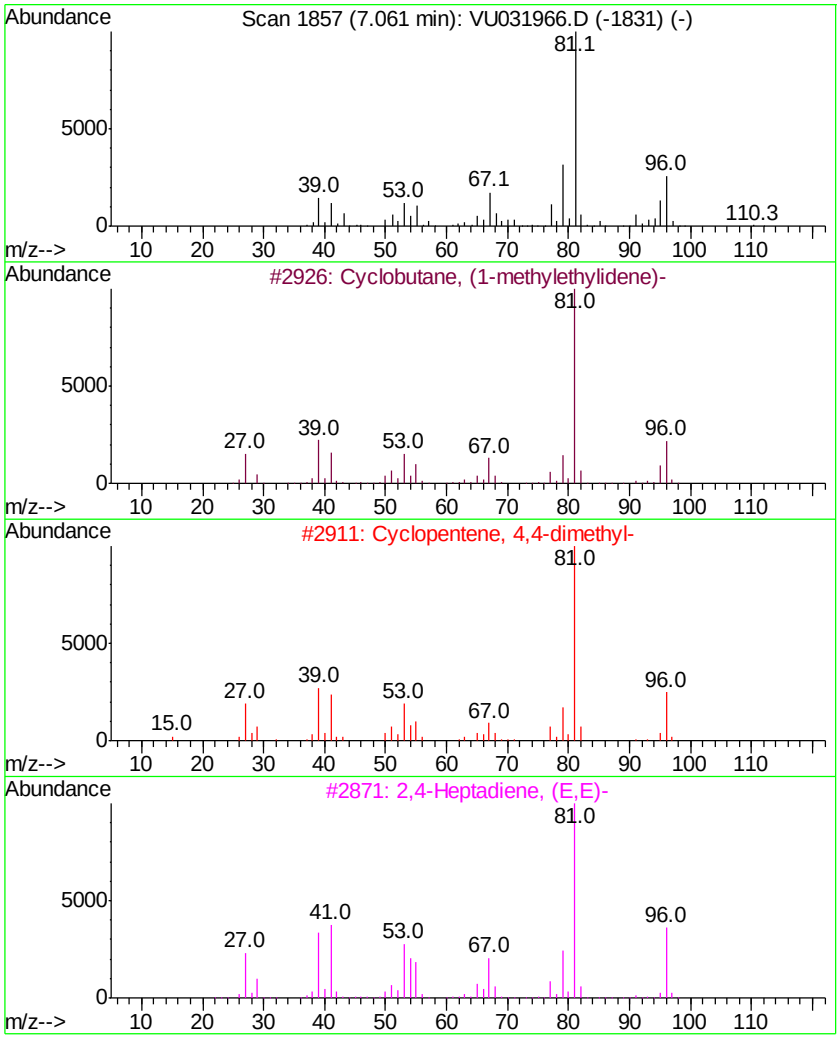
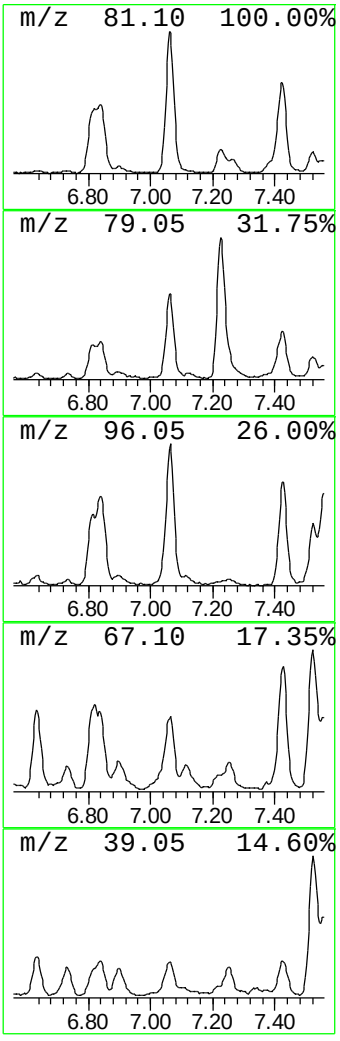
Peak Number 15 Cyclobutane, (1-methylethyl... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.06	4.21 ug/L	1020400	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	87
2	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	80
3	2,4-Heptadiene, (E,E)-	96	C7H12	002384-94-3	74
4	Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	72
5	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	72





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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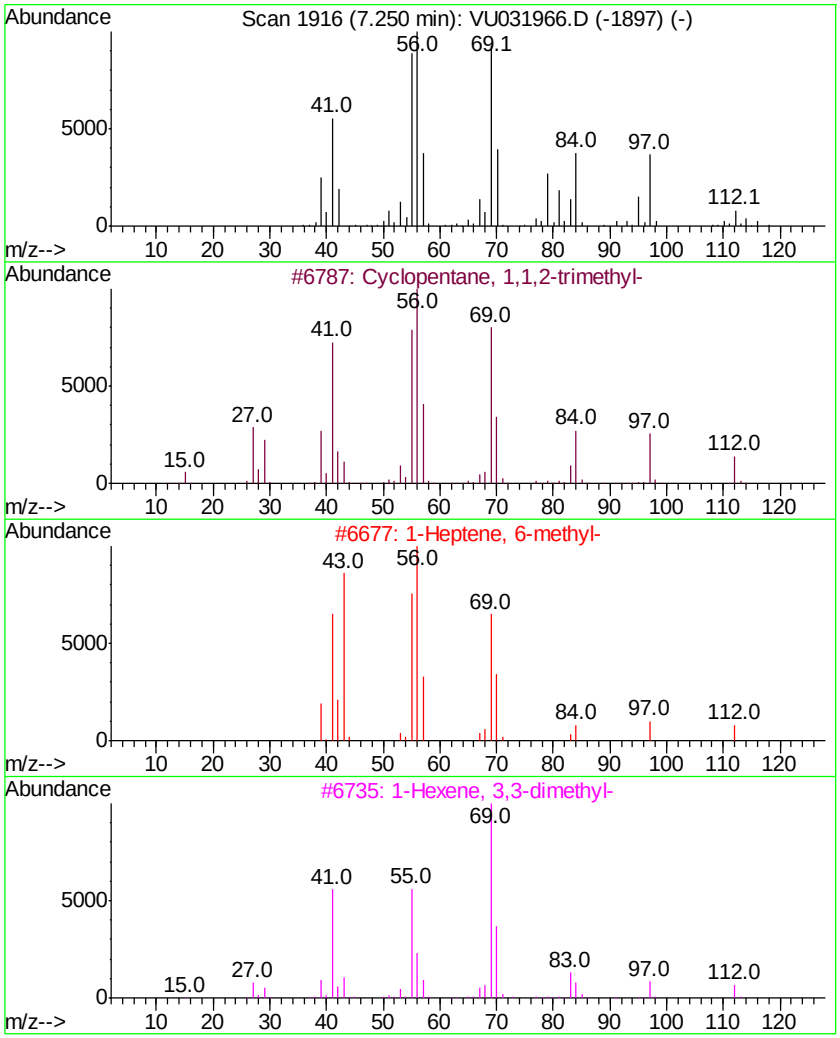
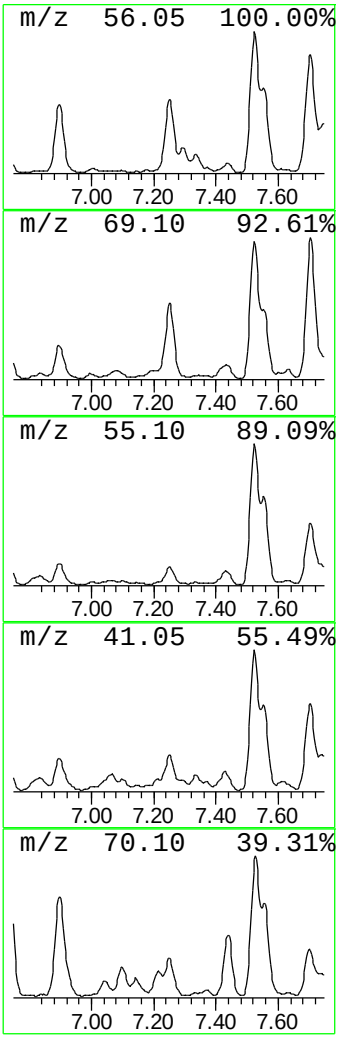
Peak Number 16 (DEL) Alkane: Cyclic7.25 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.25	4.64 ug/L	1126400	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,2-trimethyl-	112	C8H16	004259-00-1	80
2	1-Heptene, 6-methyl-	112	C8H16	005026-76-6	46
3	1-Hexene, 3,3-dimethyl-	112	C8H16	003404-77-1	43
4	Pentane, 3-methylene-	84	C6H12	000760-21-4	43
5	Pentane, 3-methylene-	84	C6H12	000760-21-4	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

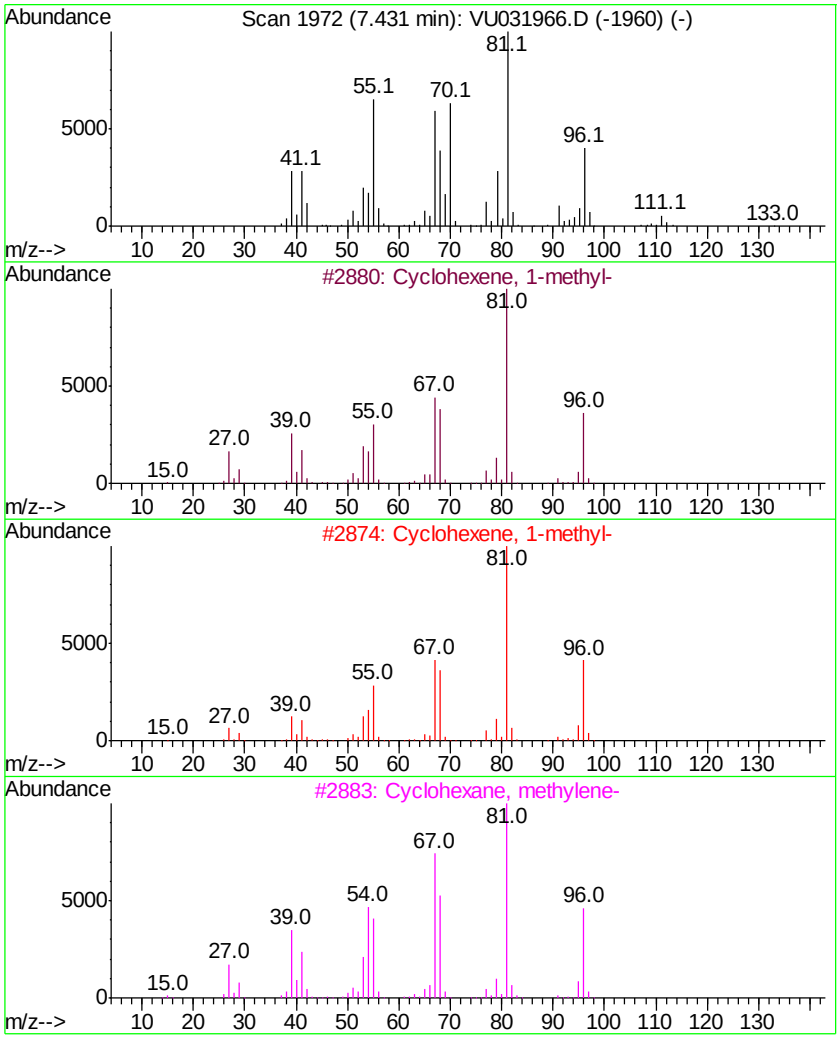
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

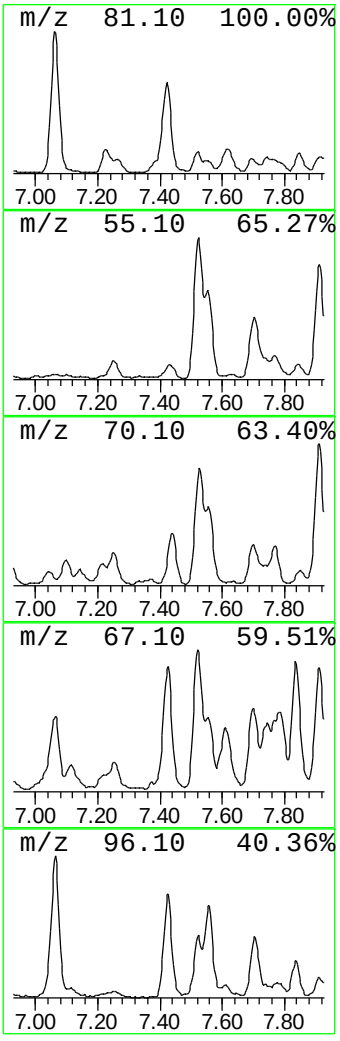
****

Peak Number 17 Cyclohexene, 1-methyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	3.67 ug/L	889460	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	81
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	81
3	Cyclohexane, methylene-	96	C7H12	001192-37-6	76
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	70
5	1,4-Heptadiene	96	C7H12	005675-22-9	64





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

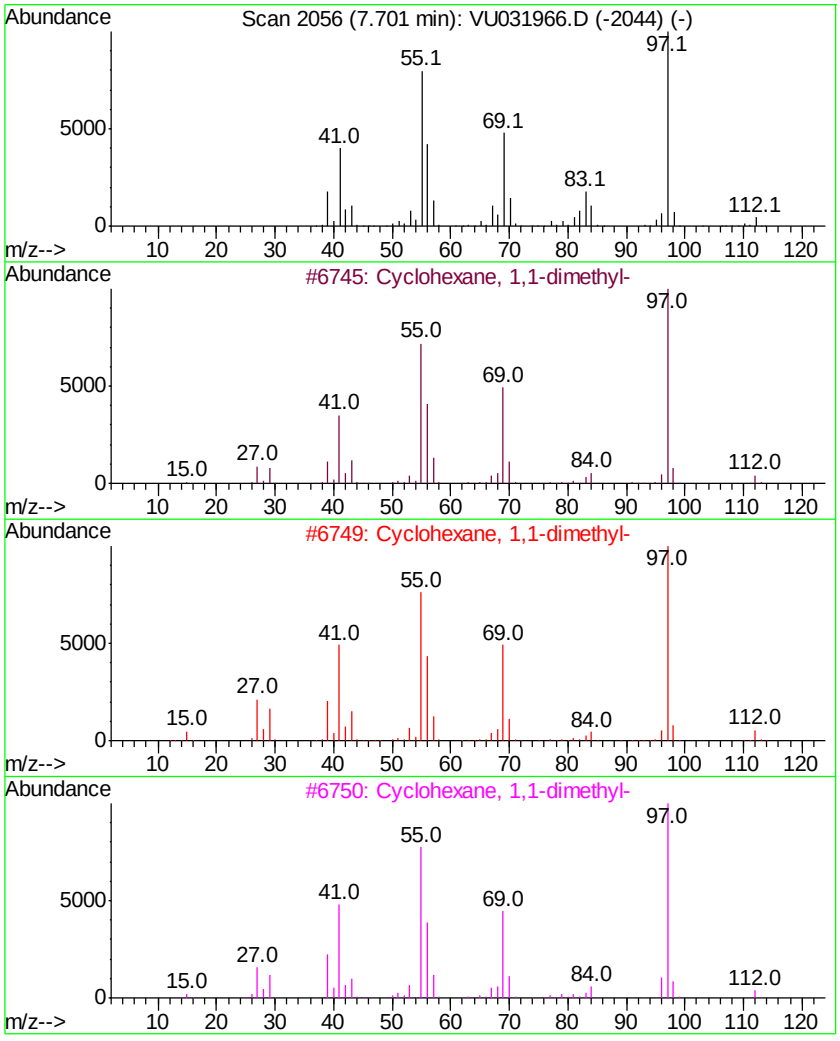
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

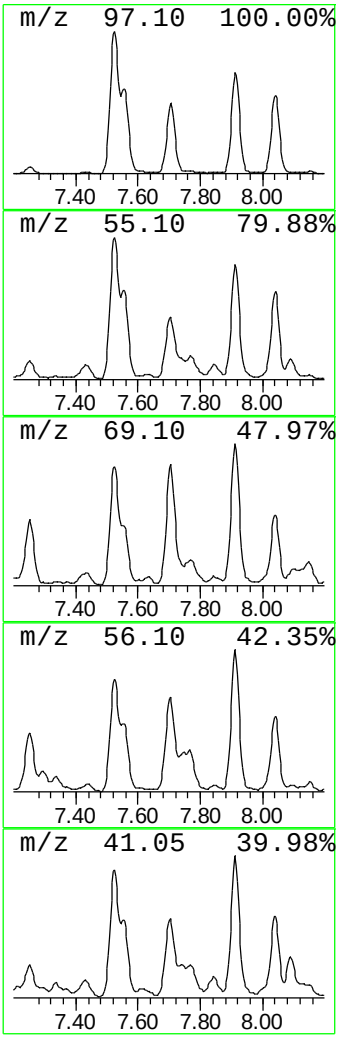
****

Peak Number 18 (DEL) Alkane: Cyclic7.70 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	7.82 ug/L	2046470	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	95
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	93
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	93
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	72
5	1H-Pyrazole, 4,5-dihydro-3,5,5-t...	112	C6H12N2	003975-85-7	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

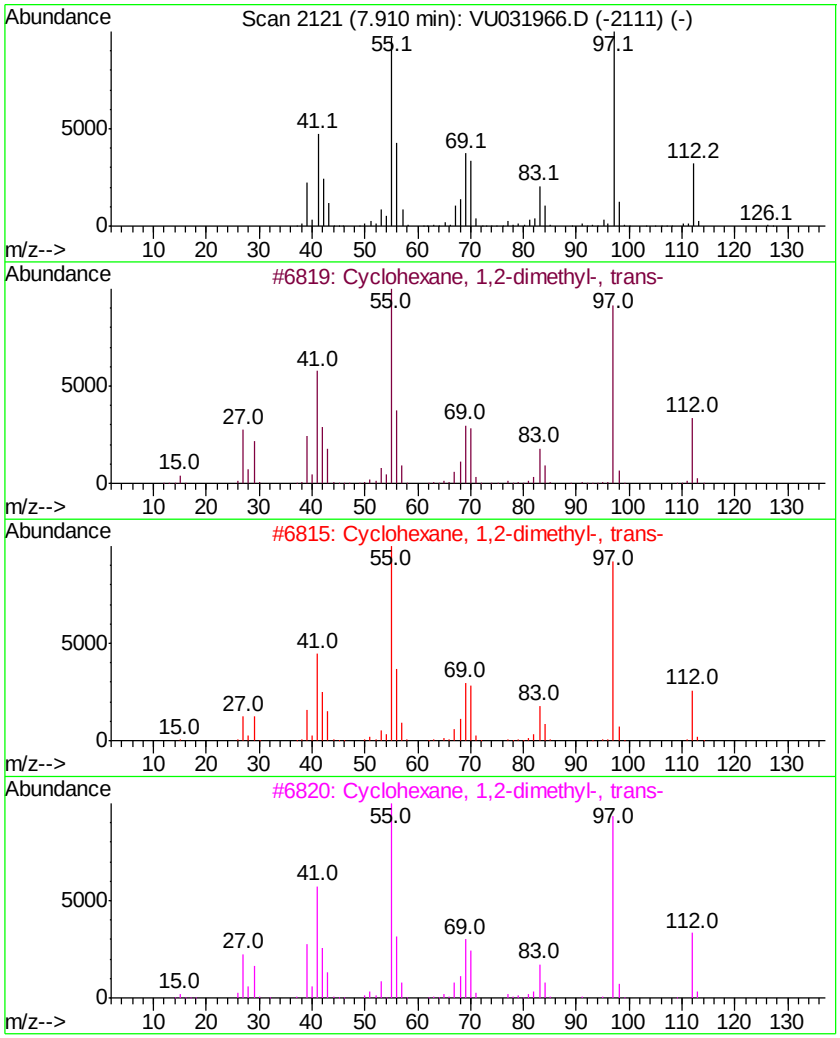
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

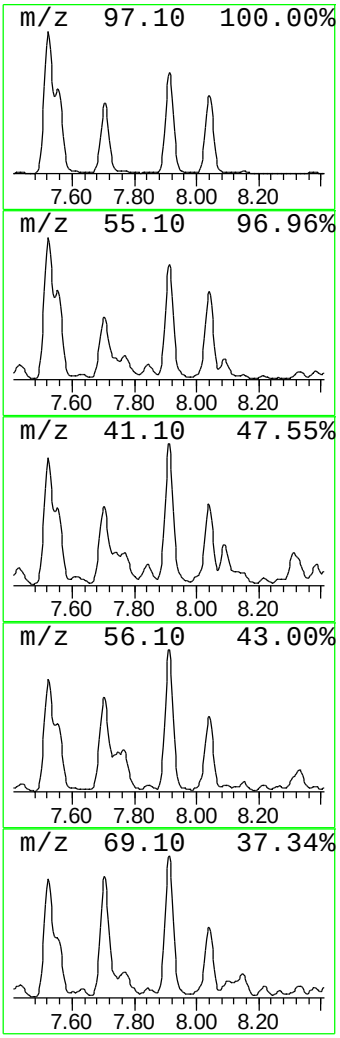
****

Peak Number 19 (DEL) Alkane: Cyclic7.91 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	12.54 ug/L	3279040	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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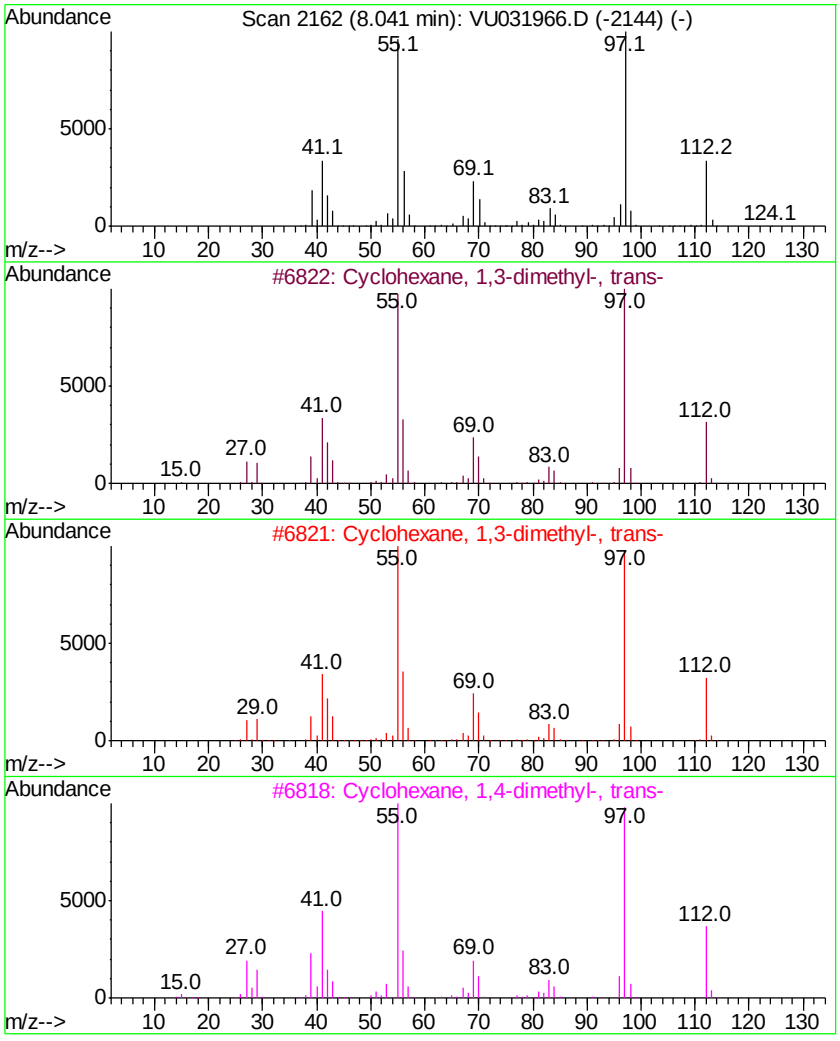
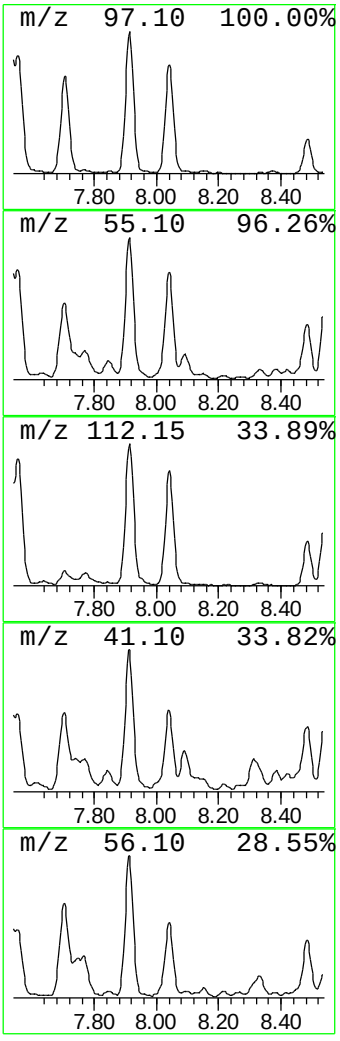
Peak Number 20 (DEL) Alkane: Cyclic8.04 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	8.45 ug/L	2211420	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	97
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	97
3	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	96
5	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	95





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

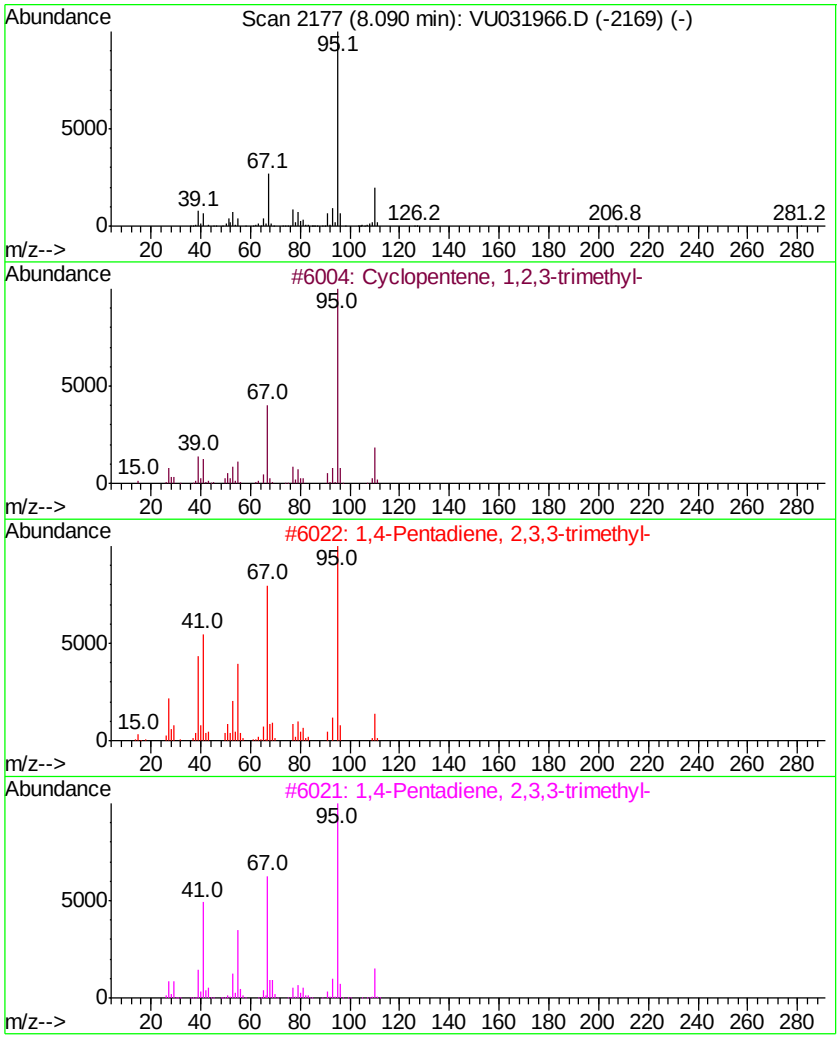
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

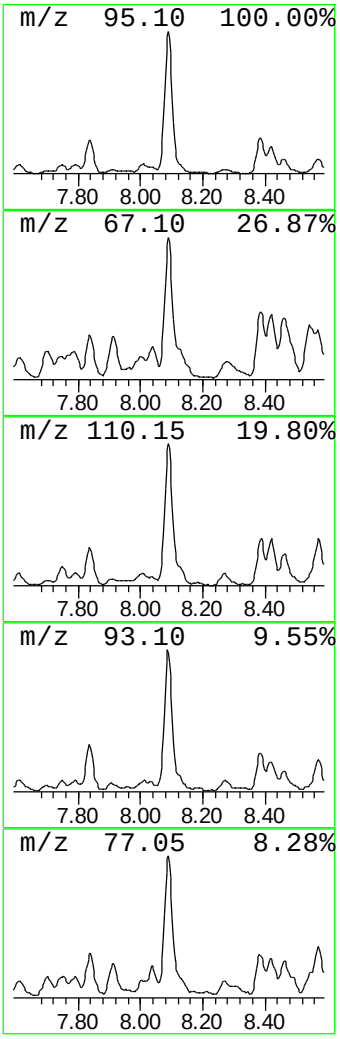
****

Peak Number 21 Cyclopentene, 1,2,3-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	9.56 ug/L	2499940	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1,2,3-trimethyl-	110	C8H14	000473-91-6	91
2	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	90
3	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	78
4	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	110	C8H14	1000142-17-5	72
5	1-(3H-Imidazol-4-yl)-ethanone	110	C5H6N2O	061985-25-9	72





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Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

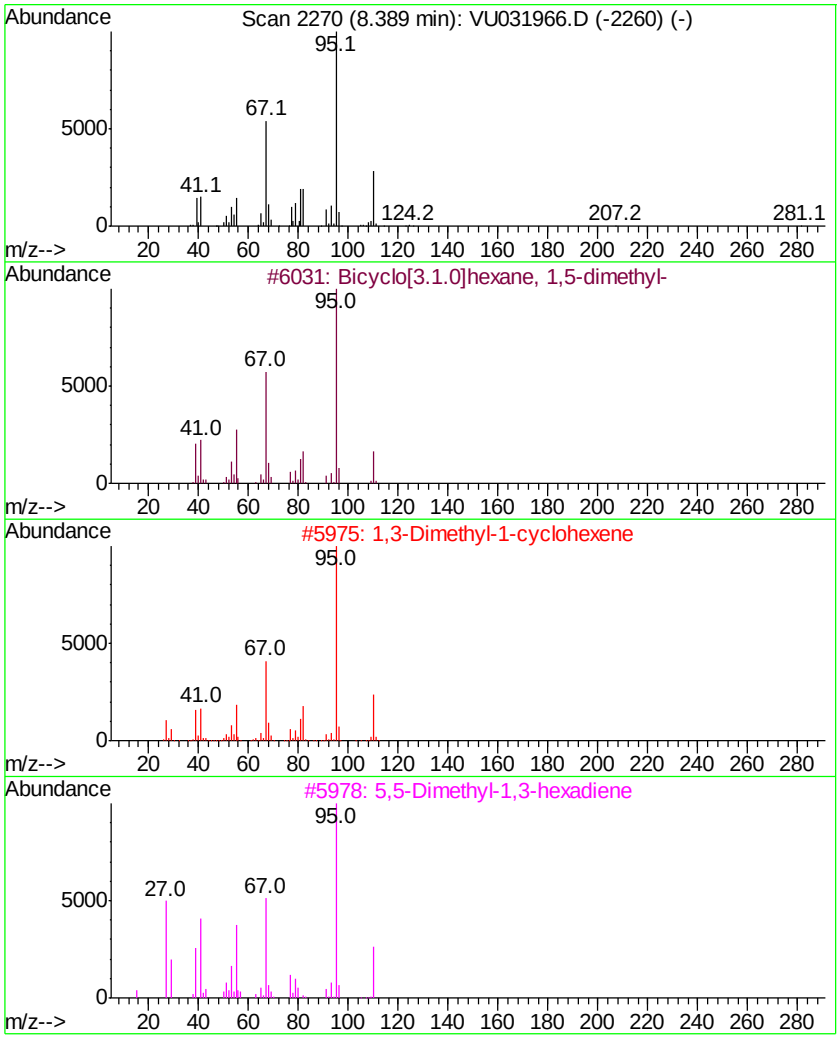
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

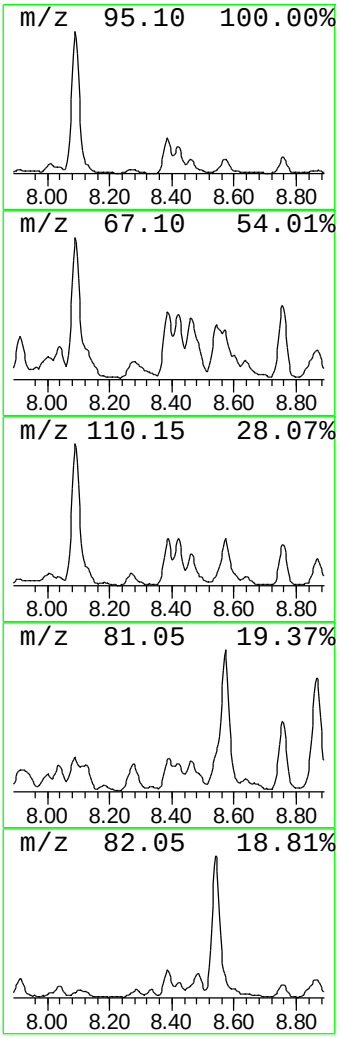
****

Peak Number 22 Bicyclo[3.1.0]hexane, 1,5-d... Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.39	2.07 ug/L	541019	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	110	C8H14	1000142-17-5	91
2	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	91
3	5,5-Dimethyl-1,3-hexadiene	110	C8H14	001515-79-3	87
4	5,5-Dimethyl-1,3-hexadiene	110	C8H14	001515-79-3	87
5	Cyclohexene, 3,5-dimethyl-	110	C8H14	000823-17-6	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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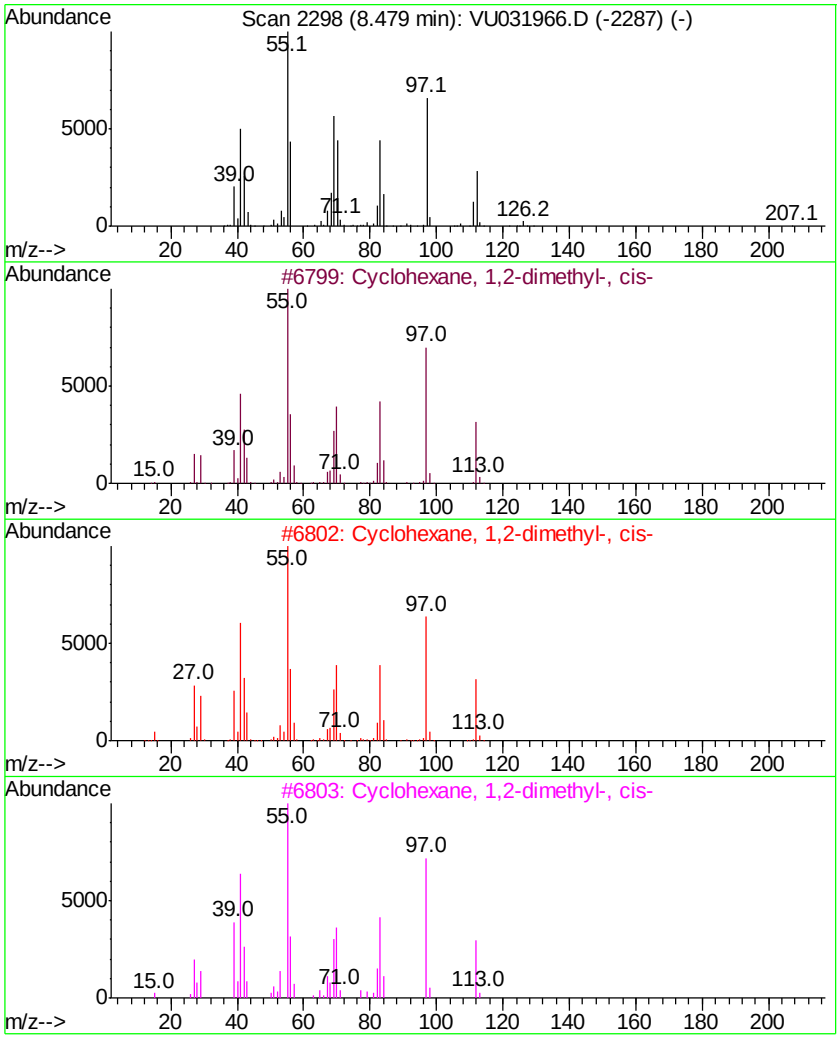
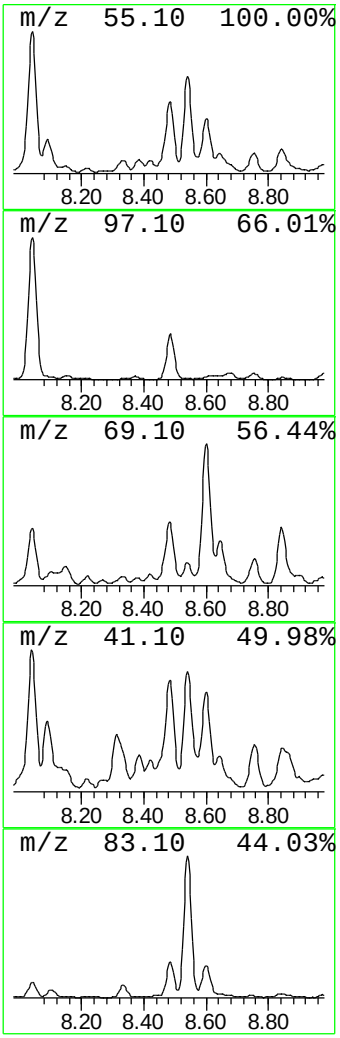
Peak Number 23 (DEL) Alkane: Cyclic8.48 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	5.62 ug/L	1470830	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	95
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	93
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	68
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	62





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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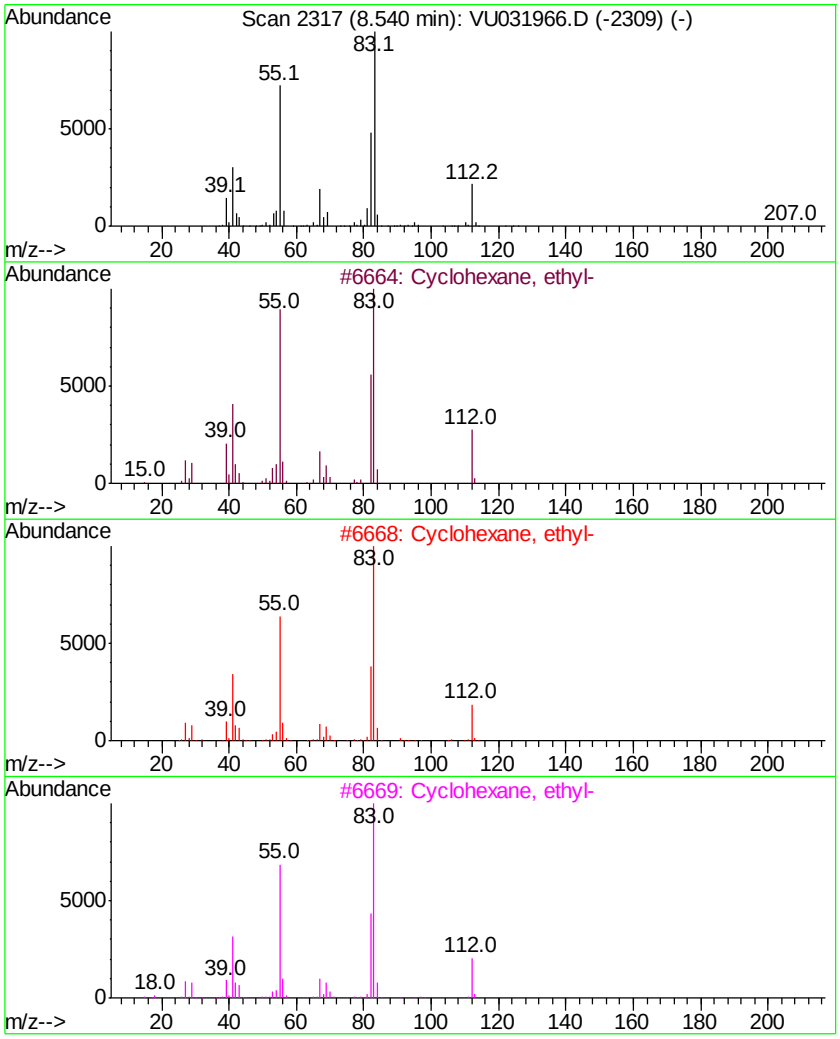
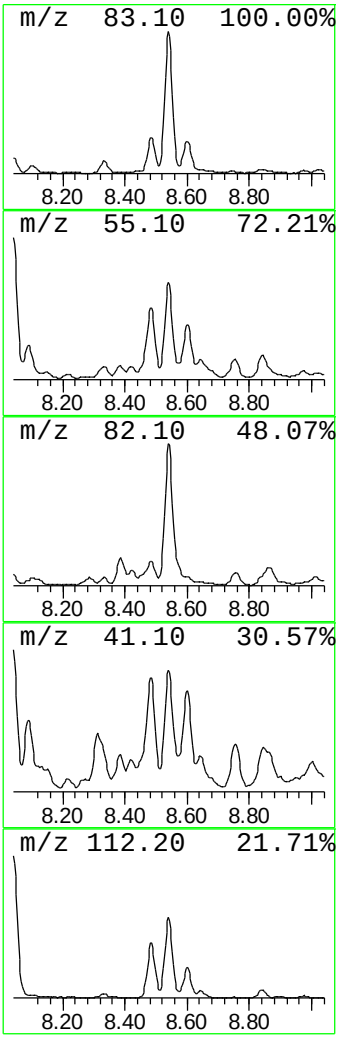
Peak Number 24 (DEL) Alkane: Cyclic8.54 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	5.07 ug/L	1326340	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	87
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	83
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	64
5	Pyridine, 2,3,4,5-tetrahydro-	83	C5H9N	000505-18-0	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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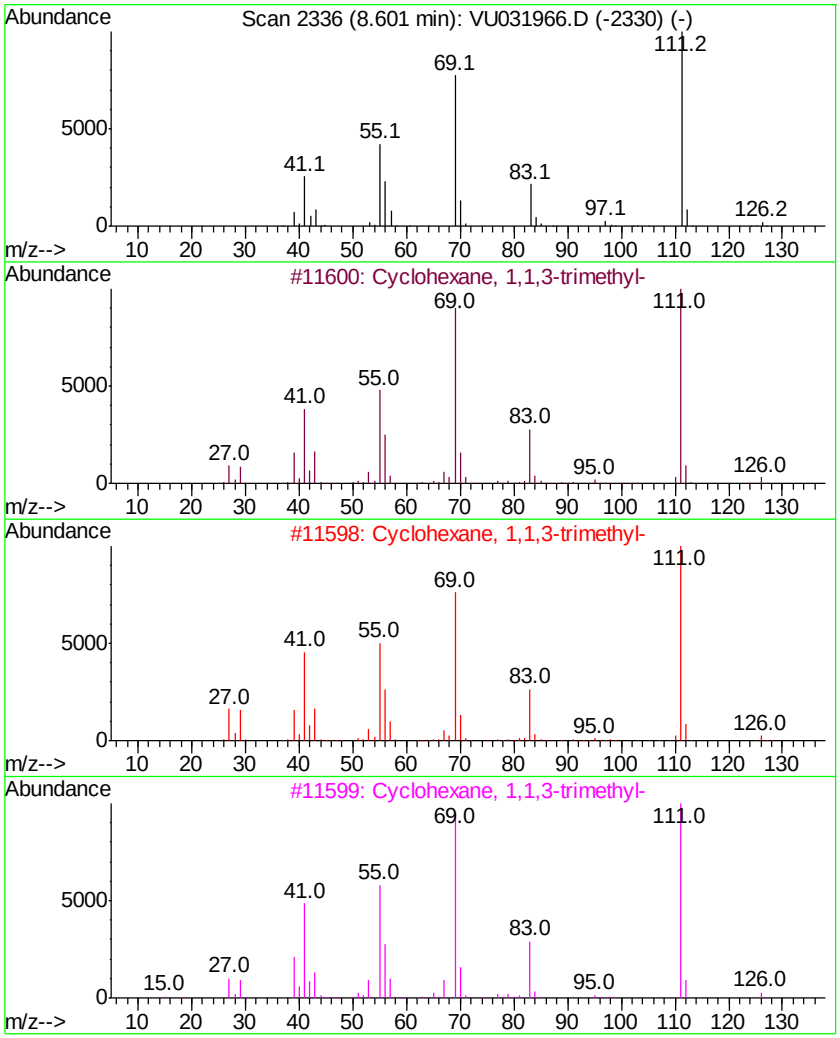
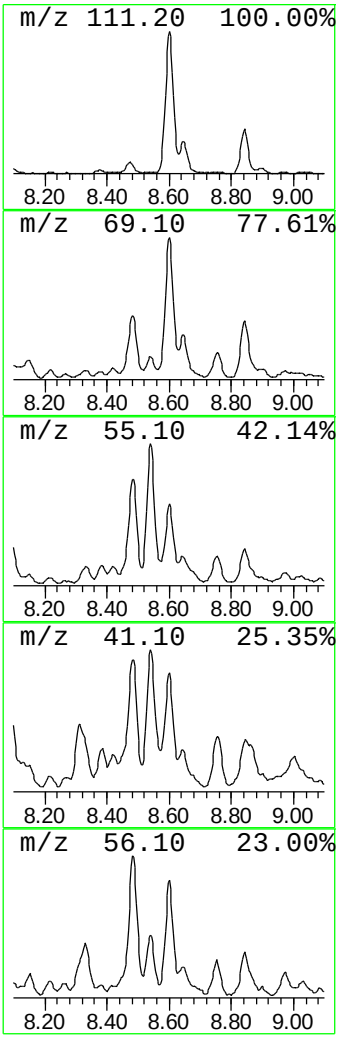
Peak Number 25 (DEL) Alkane: Cyclic8.60 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	3.29 ug/L	861590	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	81
4	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	72
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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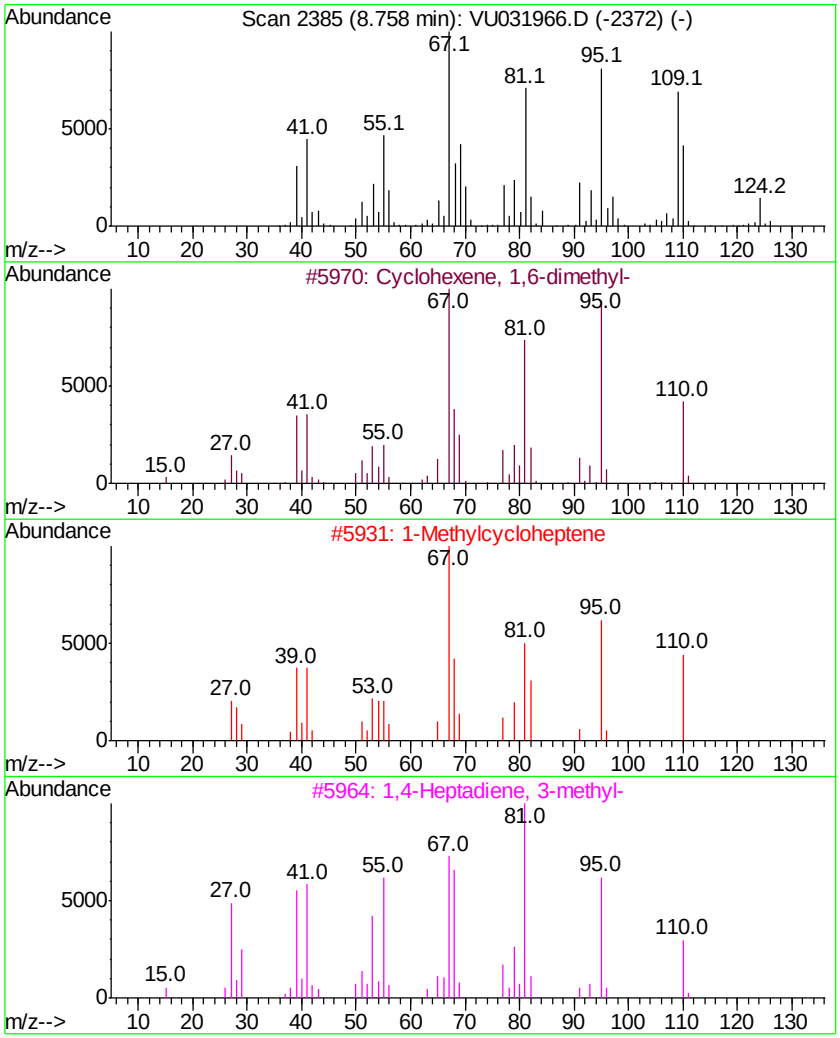
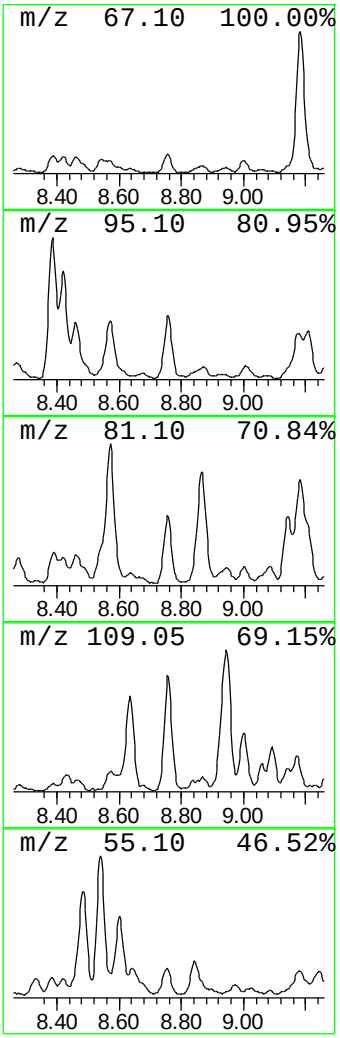
Peak Number 26 Cyclohexene, 1,6-dimethyl- Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	3.59 ug/L	939103	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1,6-dimethyl-	110	C8H14	001759-64-4	70
2	1-Methylcycloheptene	110	C8H14	055308-20-8	70
3	1,4-Heptadiene, 3-methyl-	110	C8H14	001603-01-6	68
4	Cyclohexene, 1,2-dimethyl-	110	C8H14	001674-10-8	64
5	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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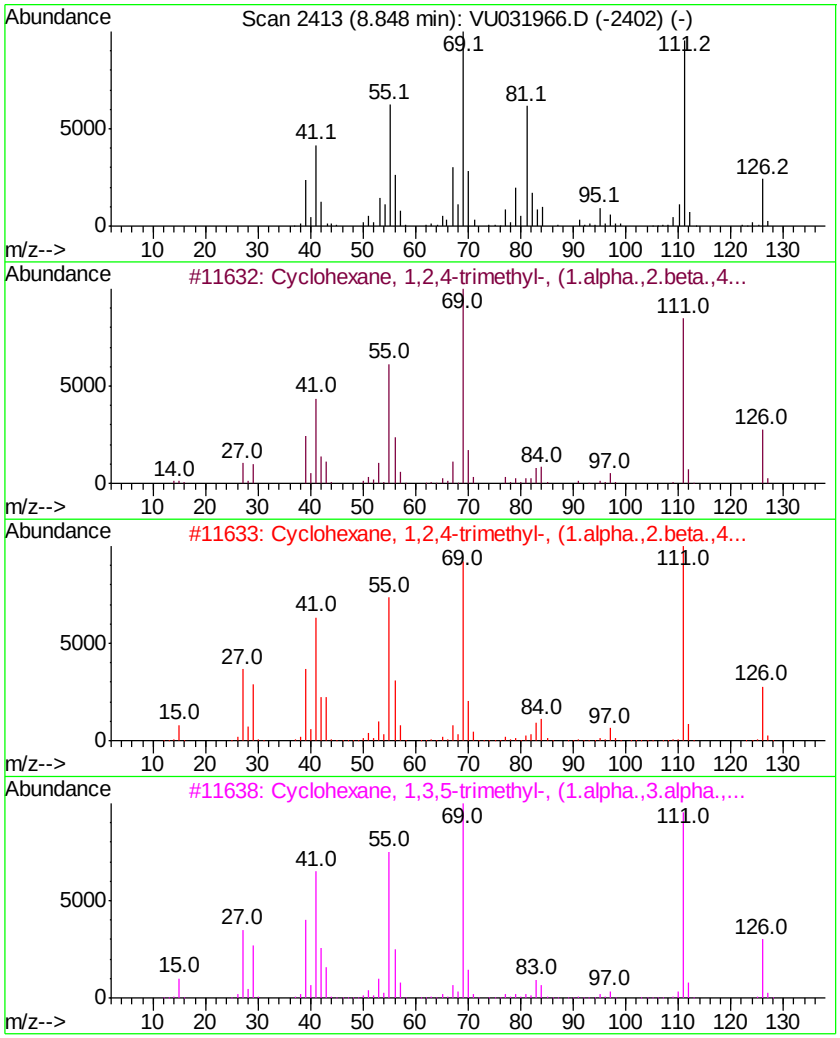
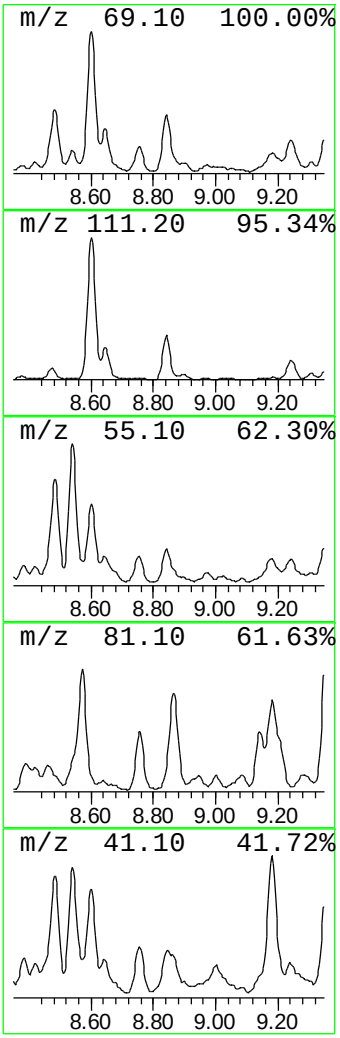
Peak Number 27 (DEL) Alkane: Cyclic8.85 Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.85	2.27 ug/L	593862	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	93
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	91
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	87
4	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	74
5	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	74





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

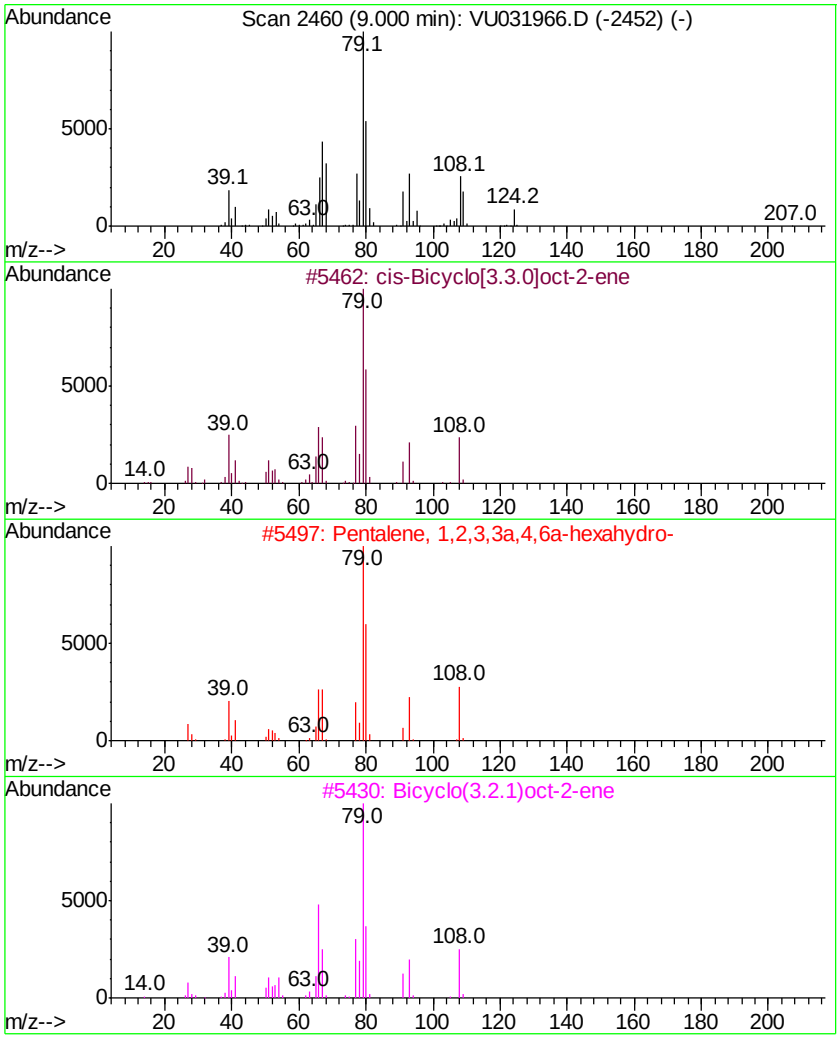
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

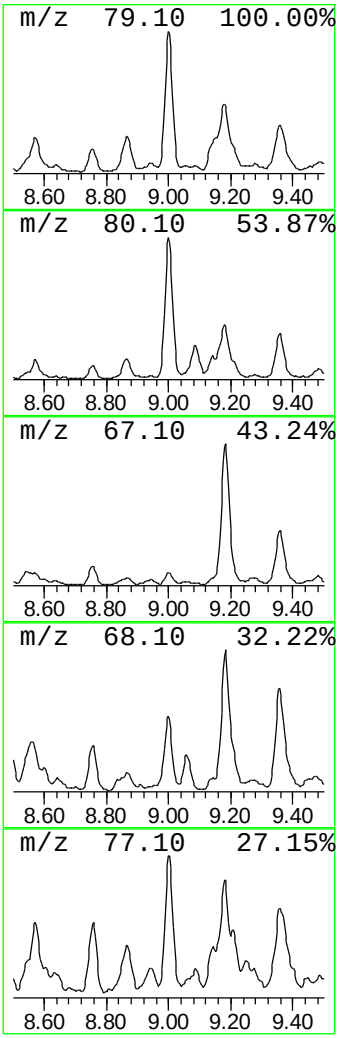
****

Peak Number 28 cis-Bicyclo[3.3.0]oct-2-ene Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.00	2.79 ug/L	729735	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-Bicyclo[3.3.0]oct-2-ene	108	C8H12	000930-99-4	83
2	Pentalene, 1,2,3,3a,4,6a-hexahydro-	108	C8H12	005549-09-7	81
3	Bicyclo(3.2.1)oct-2-ene	108	C8H12	000823-02-9	58
4	1,4-Cyclooctadiene, (Z,Z)-	108	C8H12	016327-22-3	55
5	Bicyclo[3.2.1]octan-2-ol, exo-	126	C8H14O	001965-38-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

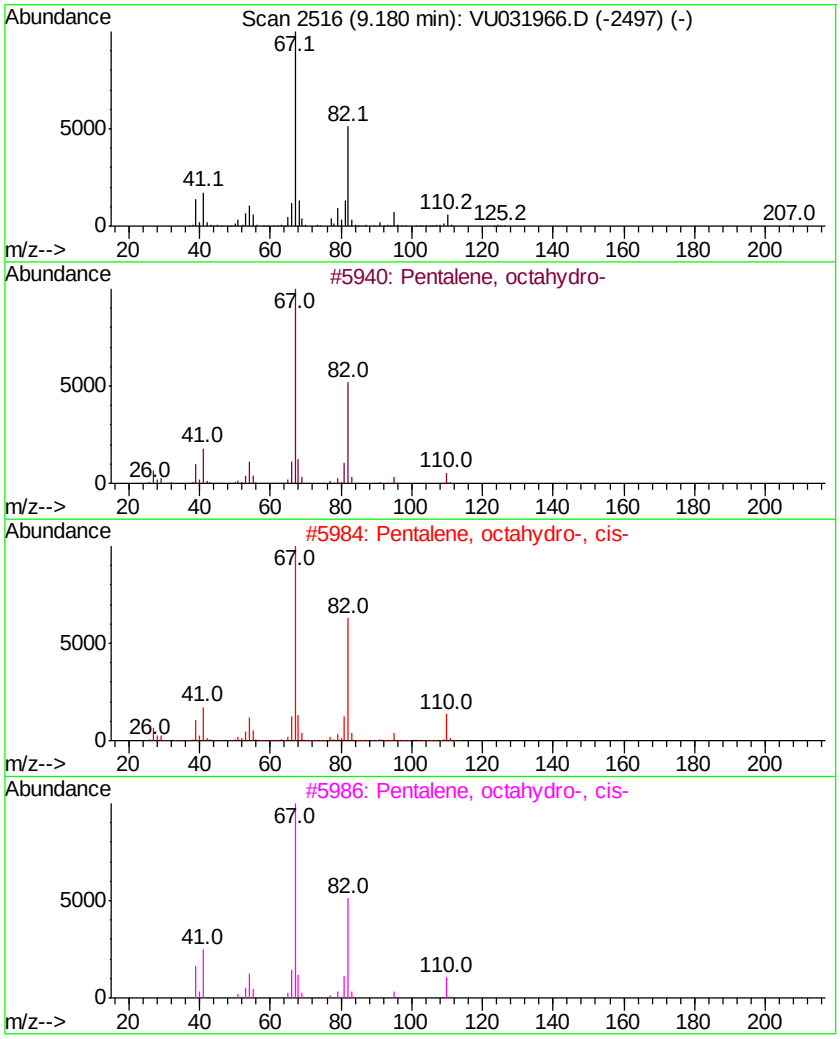
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

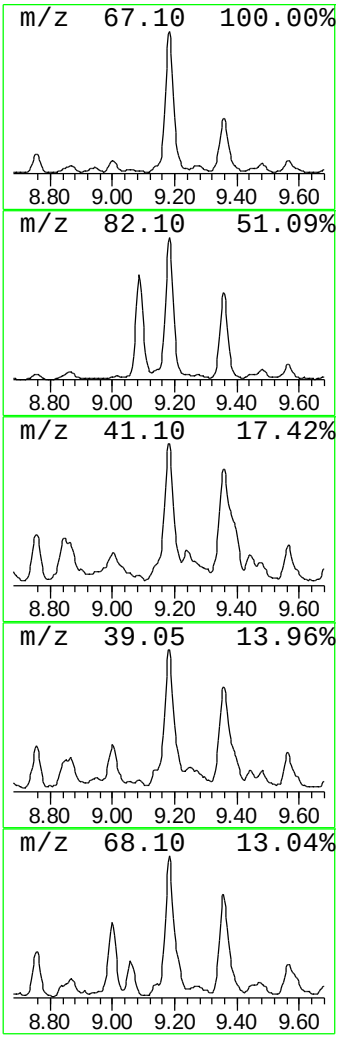
****

Peak Number 29 Pentalene, octahydro- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.18	11.27 ug/L	2947960	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-	110	C8H14	000694-72-4	91
2	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	91
3	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	91
4	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	90
5	4-Methyl-2-pentyne	82	C6H10	021020-27-9	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

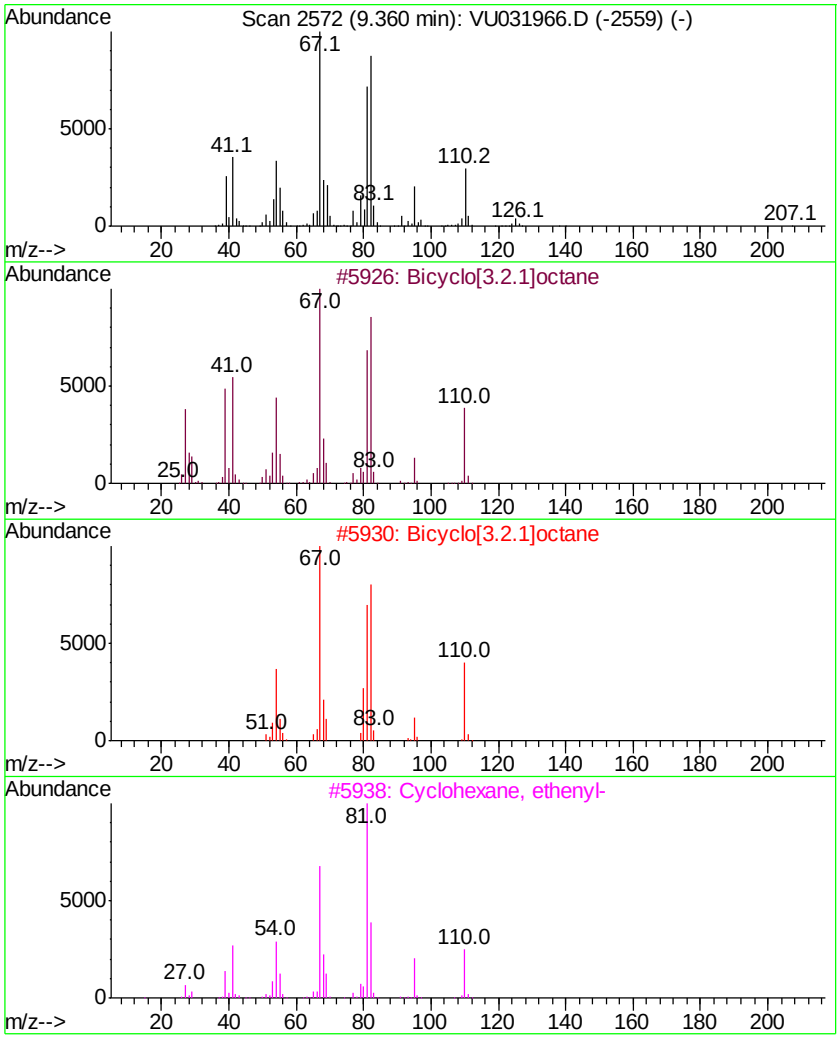
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

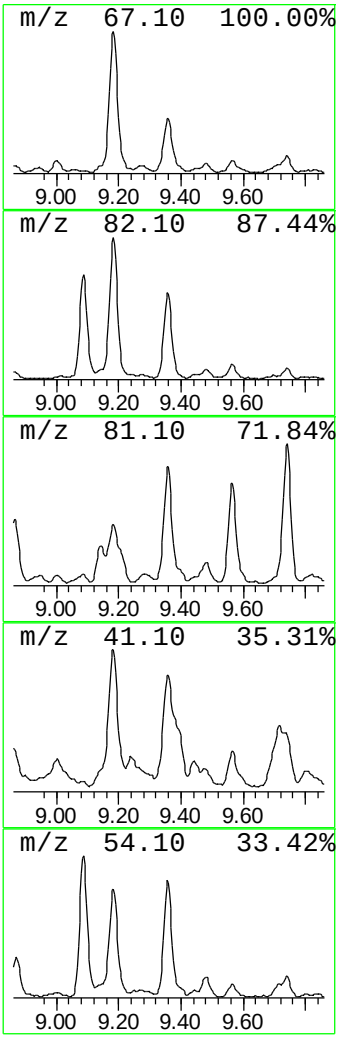
****

Peak Number 30 Bicyclo[3.2.1]octane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	10.63 ug/L	2780430	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	90
2	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	87
3	Cyclohexane, ethenyl-	110	C8H14	000695-12-5	70
4	Cyclooctene	110	C8H14	000931-88-4	68
5	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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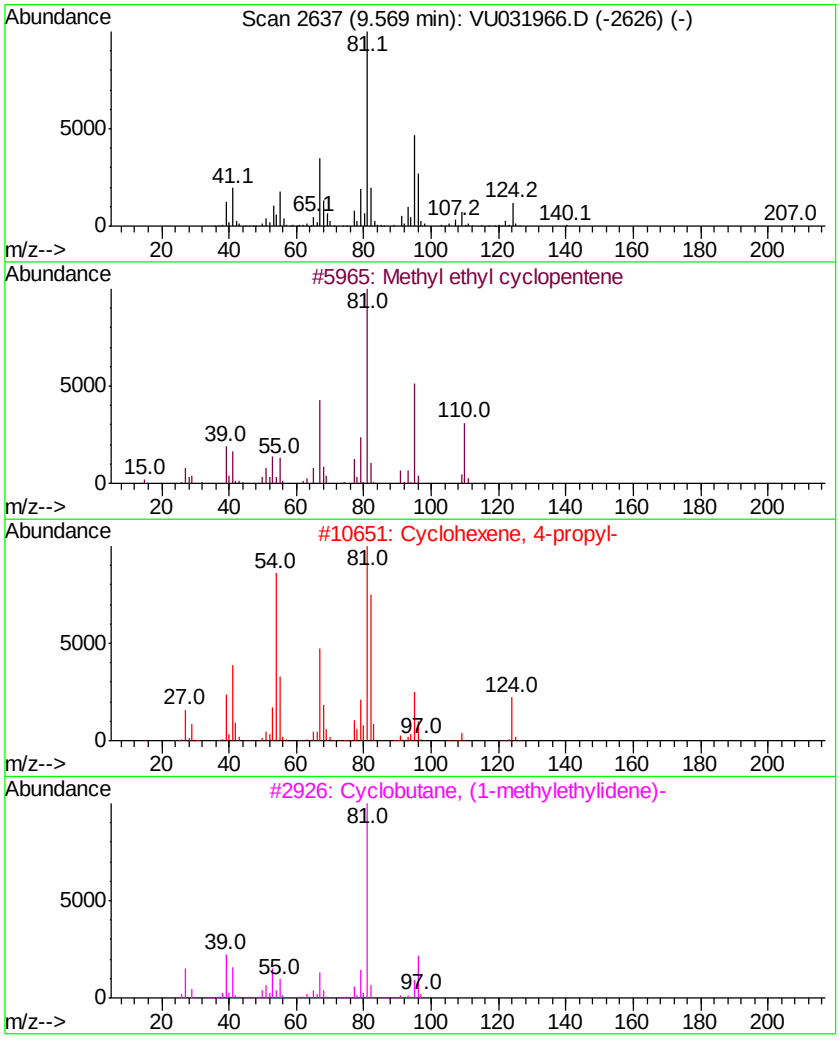
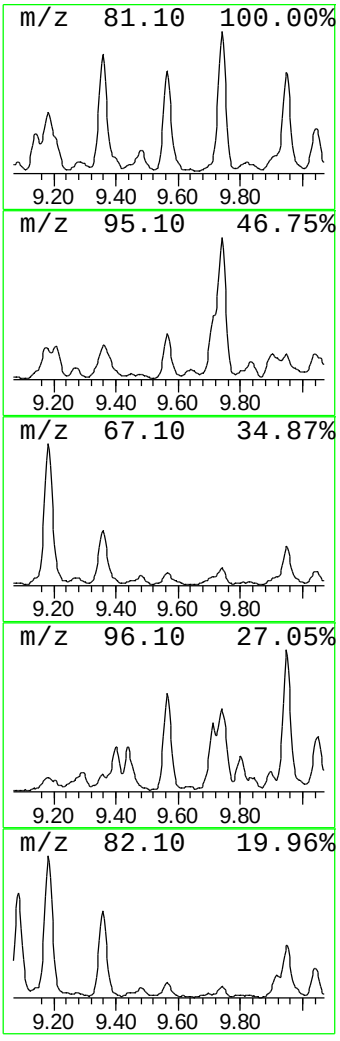
Peak Number 31 Methyl ethyl cyclopentene Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	3.51 ug/L	916942	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methyl ethyl cyclopentene	110	C8H14	019780-56-4	59
2	Cyclohexene, 4-propyl-	124	C9H16	013487-64-4	53
3	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	52
4	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	50
5	Cyclohexene, 3-ethyl-	110	C8H14	002808-71-1	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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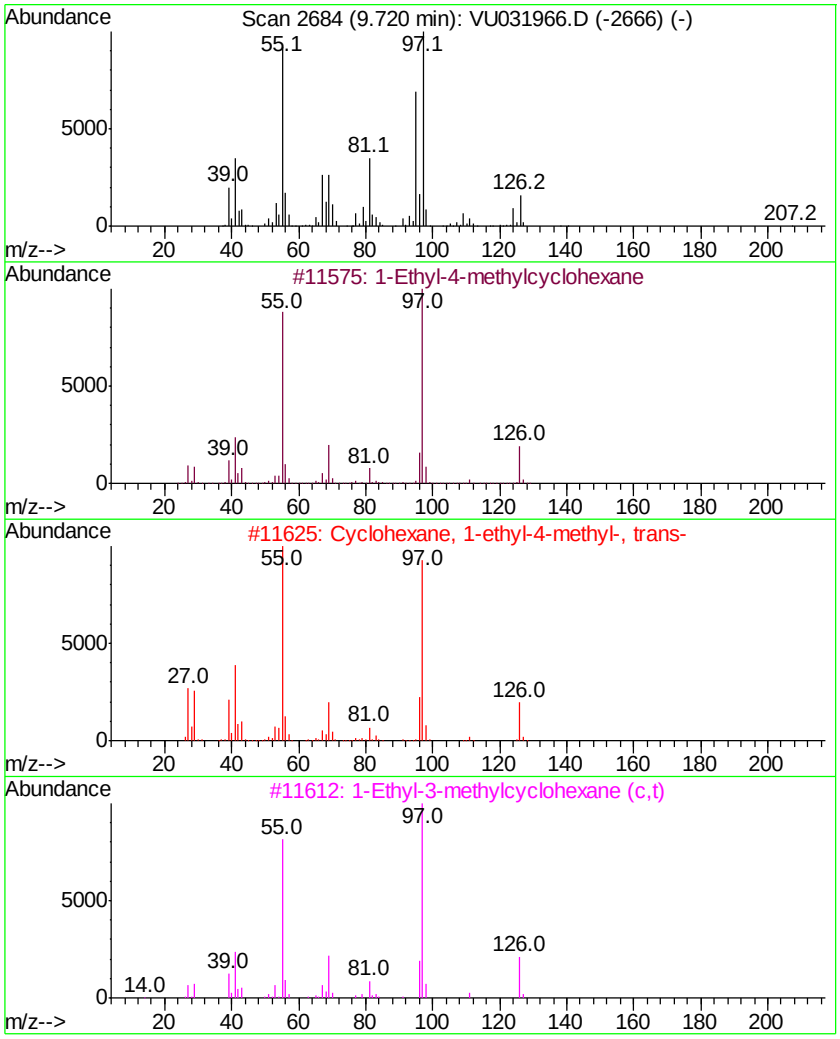
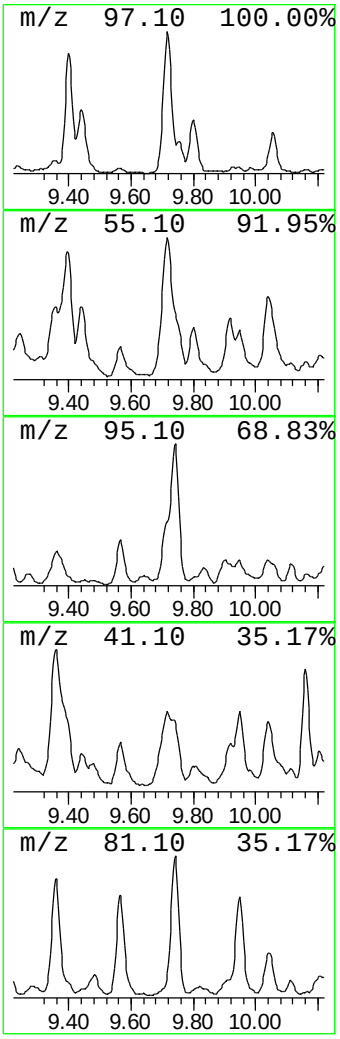
Peak Number 32 (DEL) Alkane: Cyclic9.72 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	4.20 ug/L	1099760	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	52
2	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	52
3	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	52
4	Cycloheptanemethanol	128	C8H16O	004448-75-3	50
5	2-Hexene, 3,4,4-trimethyl-	126	C9H18	053941-19-8	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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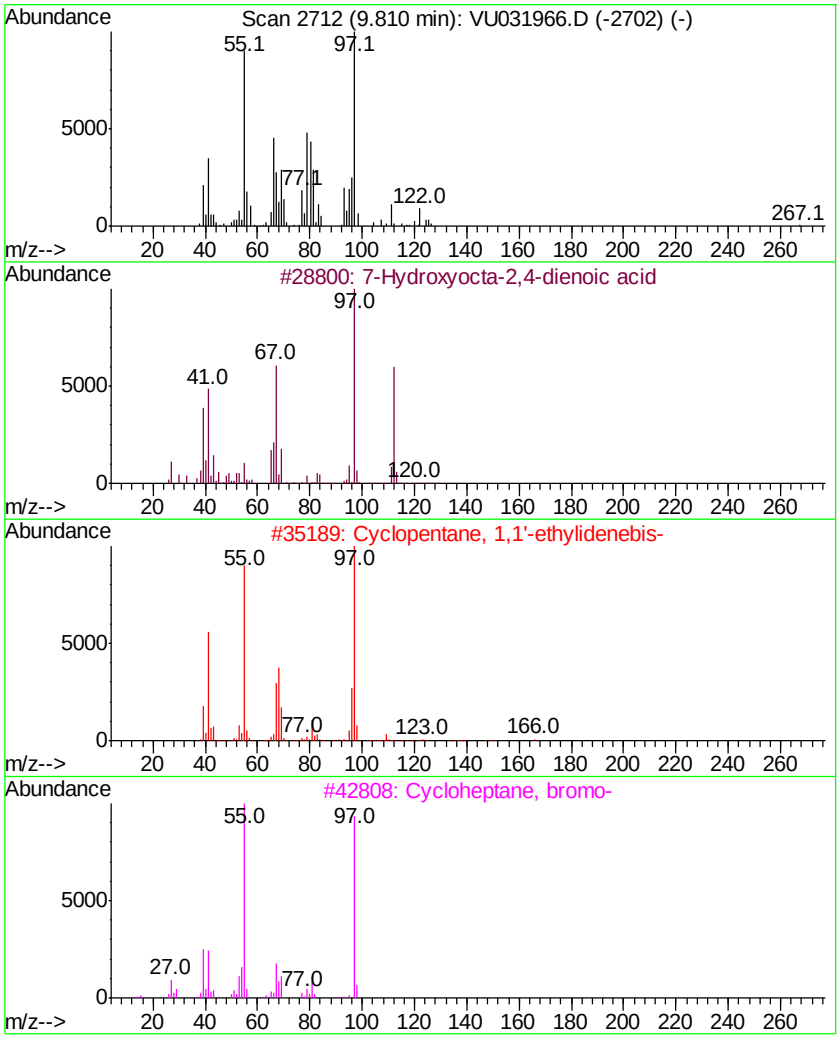
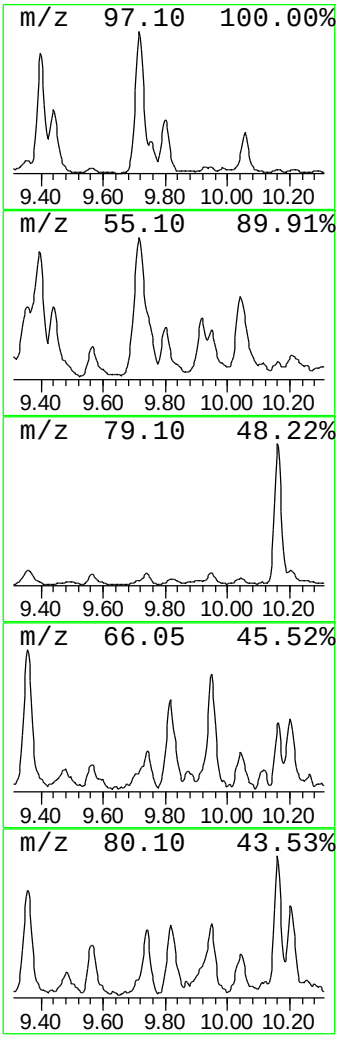
Peak Number 33 unknown-01 Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.81	1.73 ug/L	452015	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Hydroxyocta-2,4-dienoic acid	156	C8H12O3	1000191-79-4	38
2	Cyclopentane, 1,1'-ethylidenebis-	166	C12H22	004413-21-2	38
3	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	35
4	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	35
5	Cycloheptanemethanol	128	C8H16O	004448-75-3	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

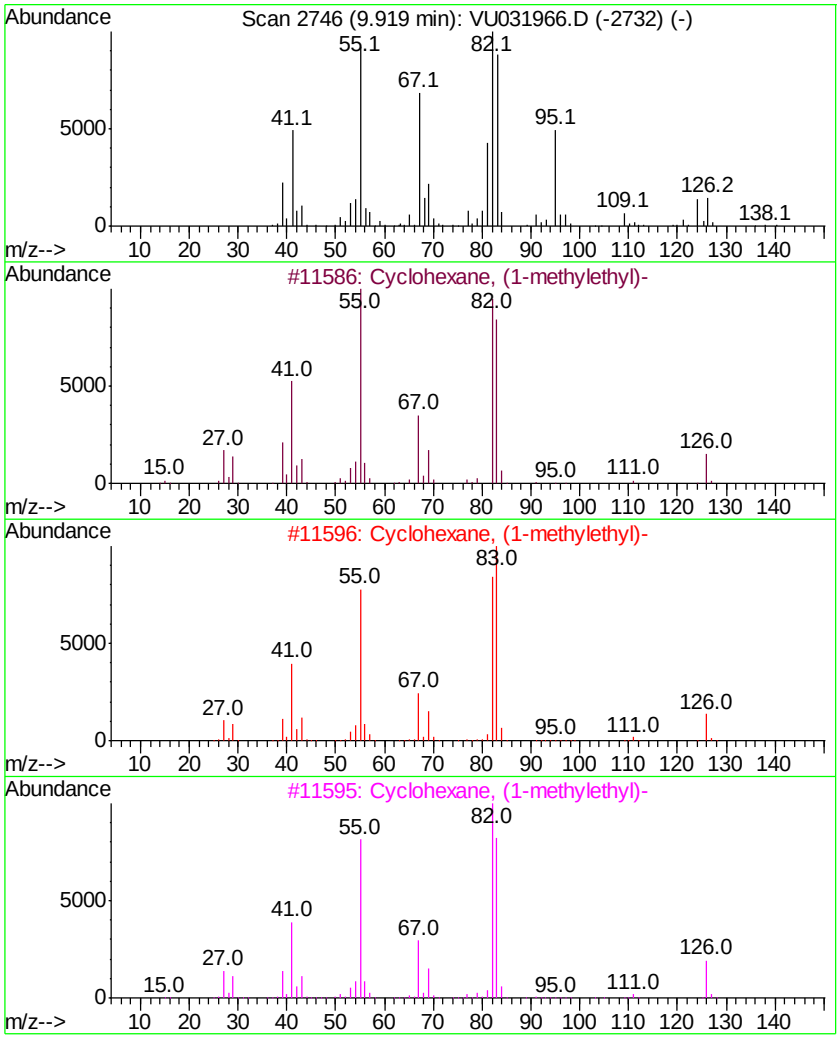
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

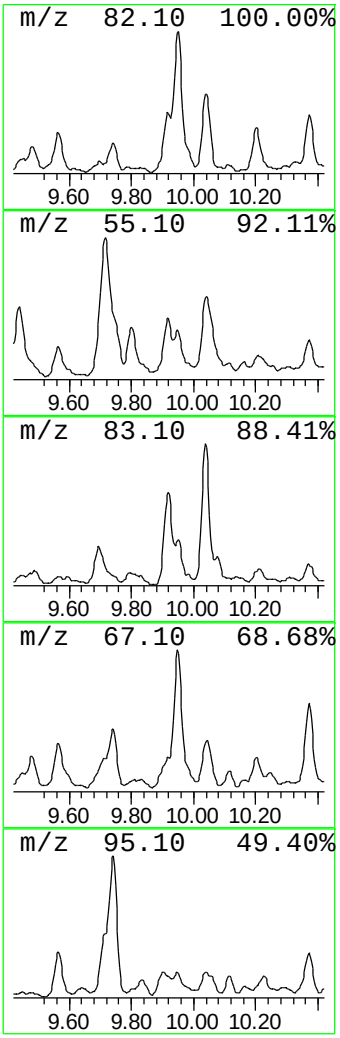
****

Peak Number 34 (DEL) Alkane: Cyclic9.92 Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.92	1.91 ug/L	500227	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	70
2	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	70
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	70
4	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	70
5	(E)-Hex-3-enyl (E)-2-methylbut-2...	182	C11H18O2	1000373-74-1	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

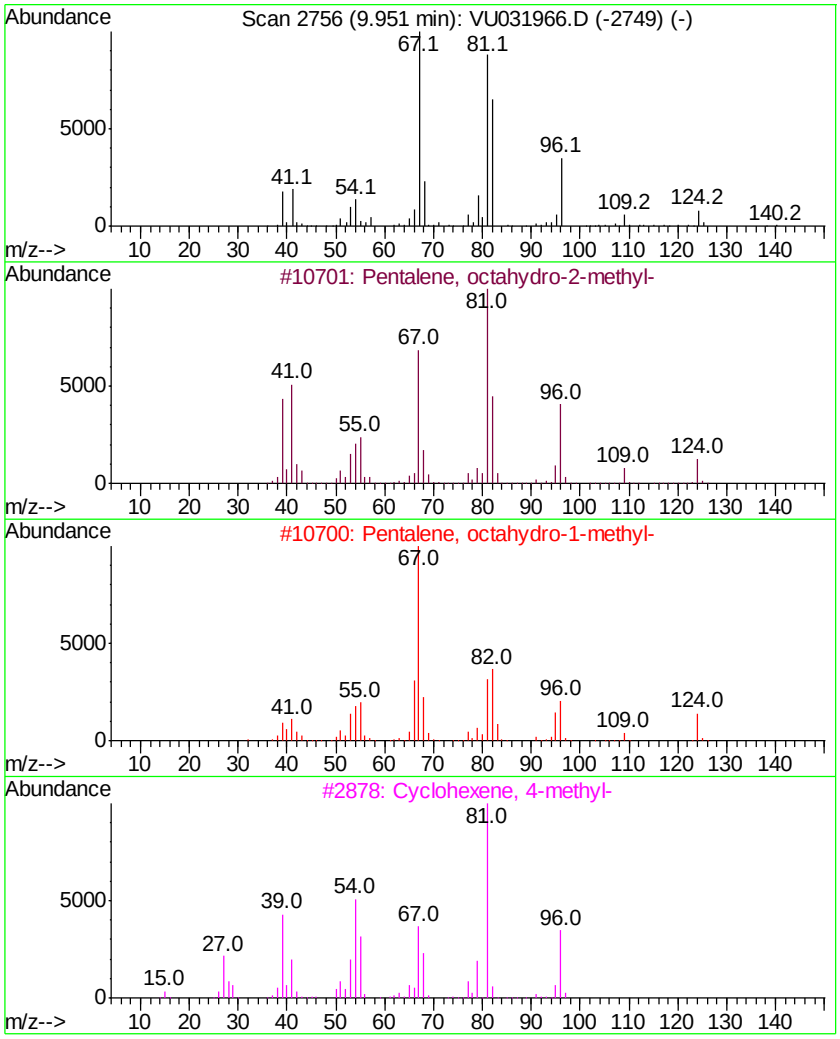
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

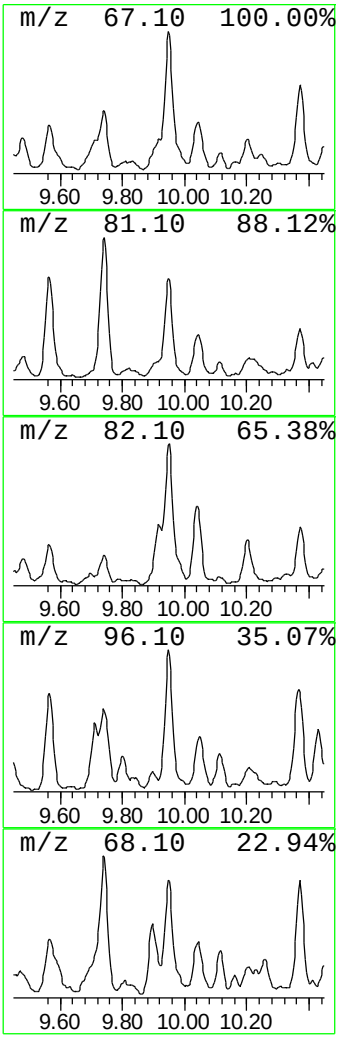
****

Peak Number 35 Pentalene, octahydro-2-methyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	4.32 ug/L	1128650	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	53
2	Pentalene, octahydro-1-methyl-	124	C9H16	032273-77-1	50
3	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	49
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	46
5	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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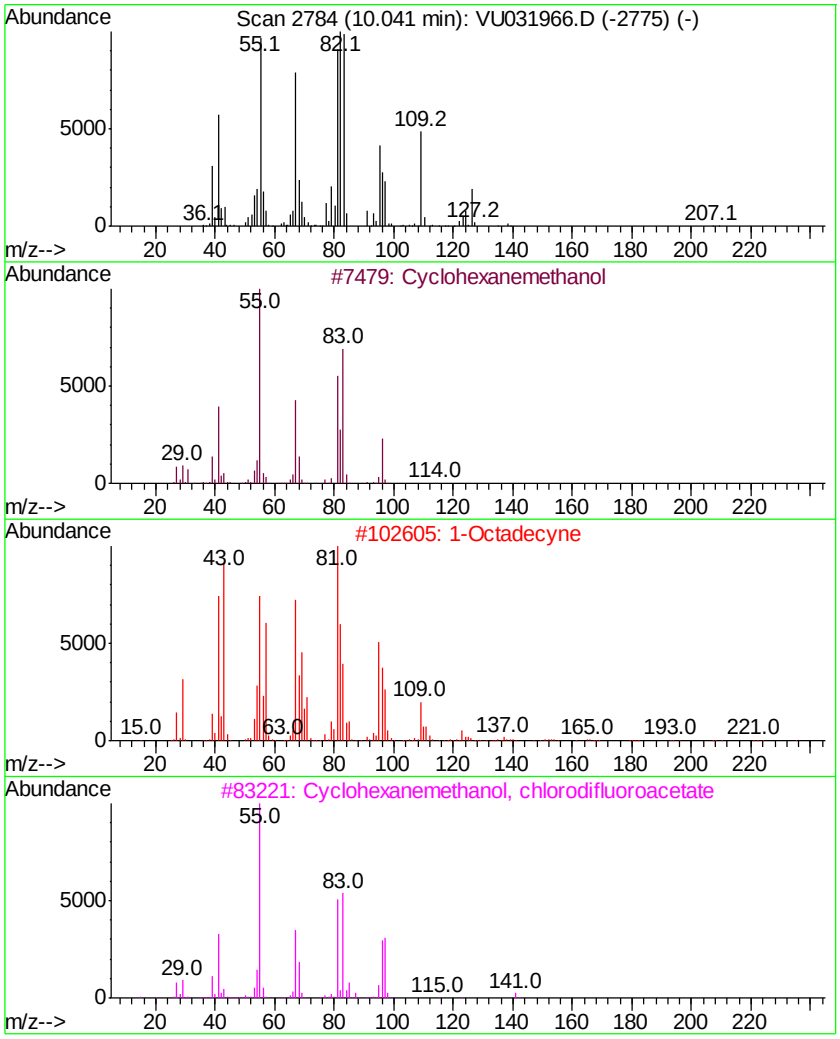
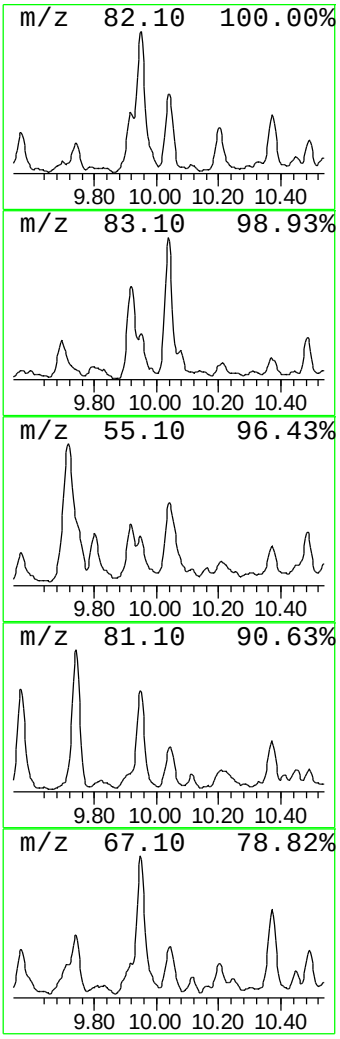
Peak Number 36 unknown-02 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	3.50 ug/L	915055	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanemethanol	114	C7H14O	000100-49-2	49
2	1-Octadecyne	250	C18H34	000629-89-0	46
3	Cyclohexanemethanol, chlorodiflu...	226	C9H13ClF2O2	1000376-25-9	46
4	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	38
5	Cyclopropane, (2-methylenebutyl)-	110	C8H14	074685-56-6	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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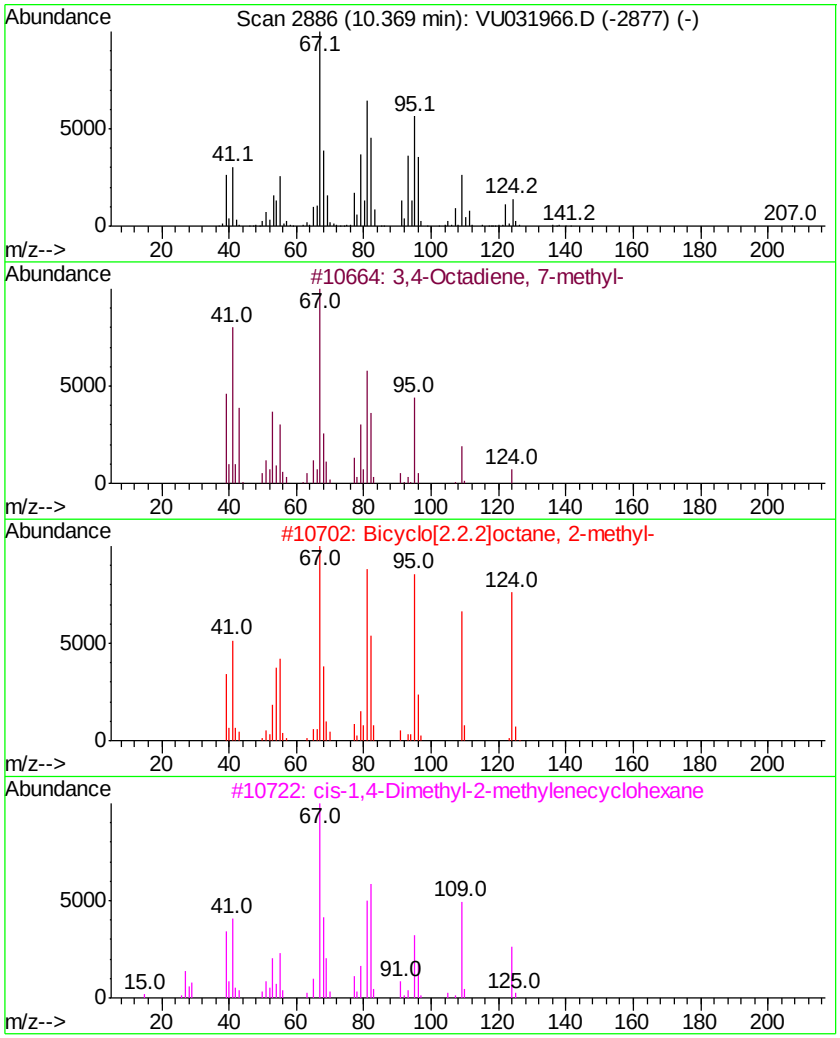
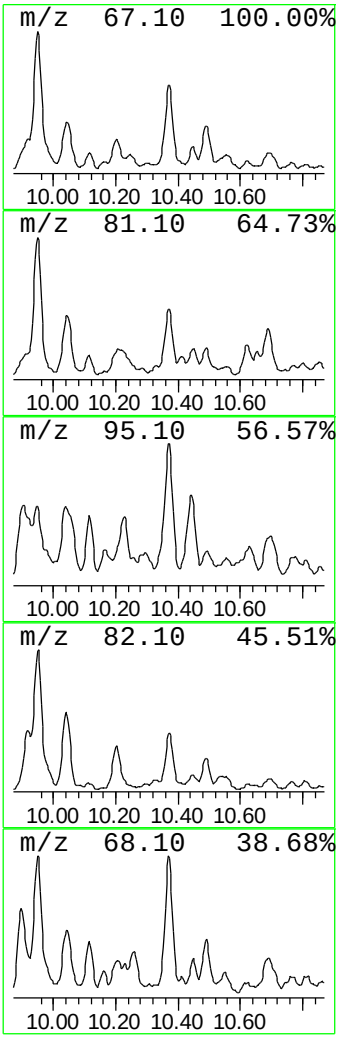
Peak Number 37 3,4-Octadiene, 7-methyl- Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.37	2.49 ug/L	823048	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	90
2	Bicyclo[2.2.2]octane, 2-methyl-	124	C9H16	000766-53-0	80
3	cis-1,4-Dimethyl-2-methylenecycl...	124	C9H16	019781-46-5	64
4	Cyclooctene, 3-methyl-	124	C9H16	013152-05-1	52
5	1-Ethynylcyclopentanol	110	C7H10O	017356-19-3	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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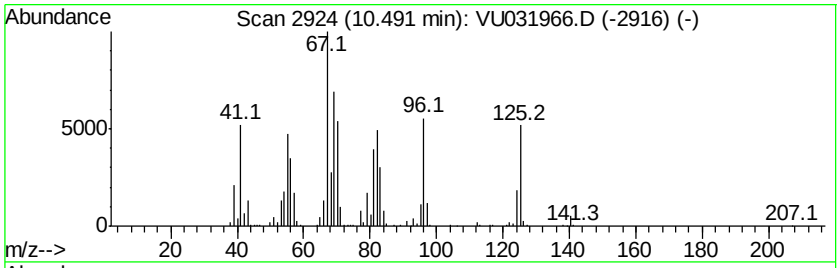
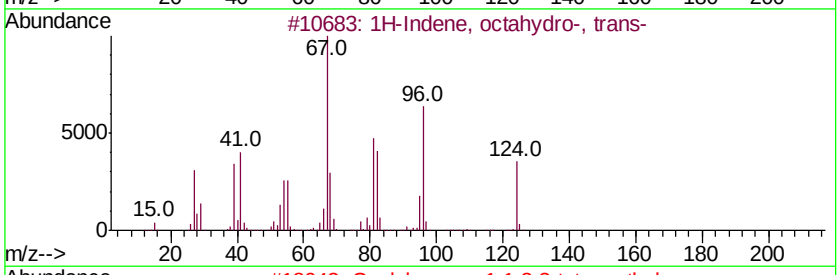
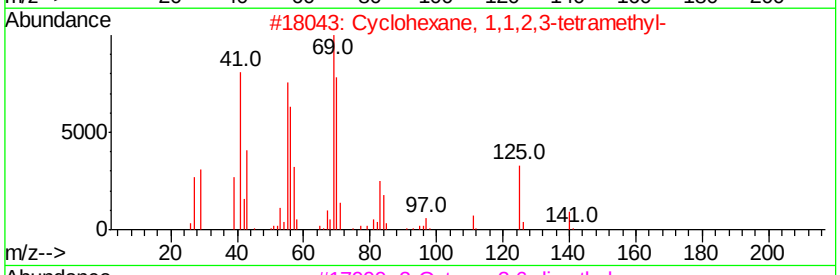
Peak Number 38 unknown-03 Concentration Rank 69

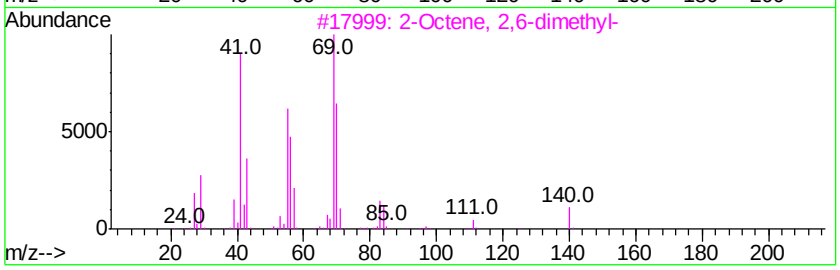
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	1.58 ug/L	521060	1,4-Dichlorobenzene-d4	11.48

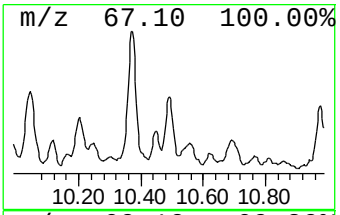
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	46
2	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	46
3	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	42
4	Pentalene, octahydro-1-methyl-	124	C9H16	032273-77-1	30
5	Octahydropentalen-1-ol	126	C8H14O	037465-25-1	27

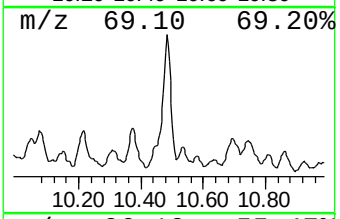


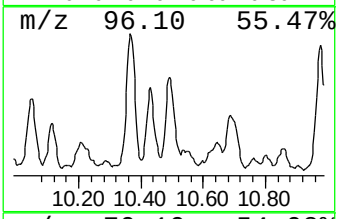


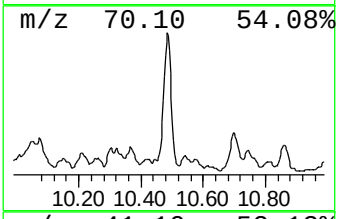


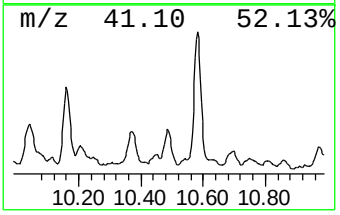












Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

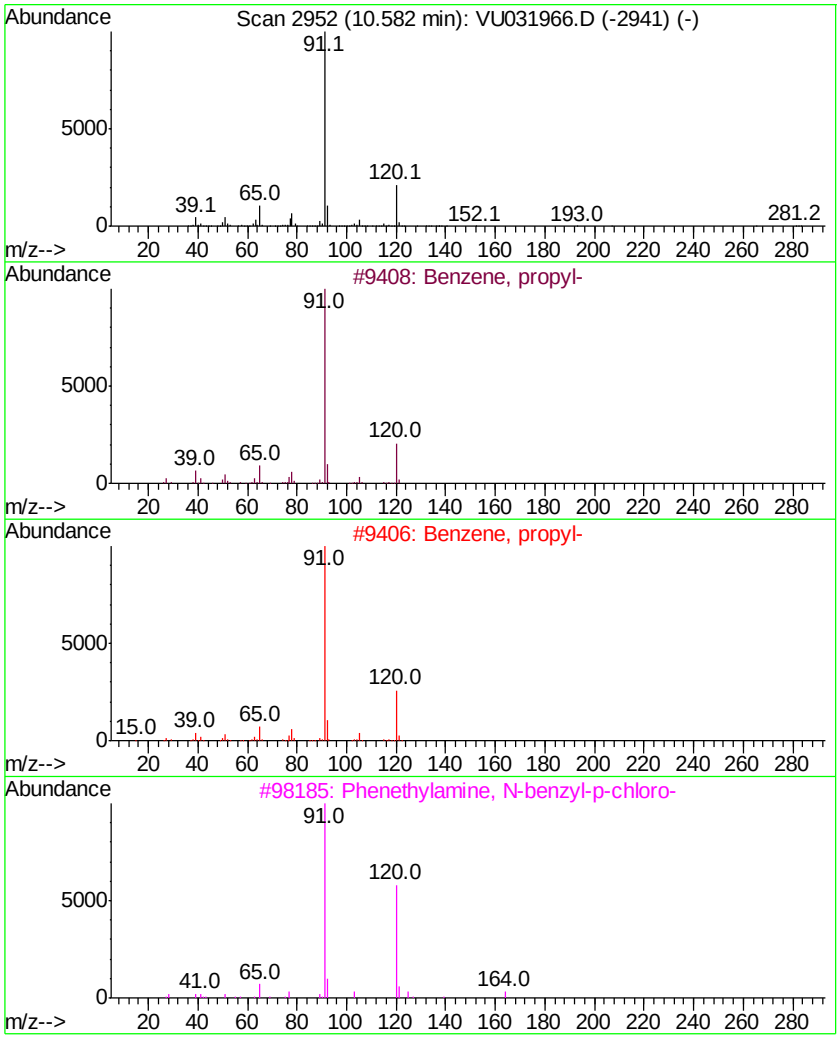
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

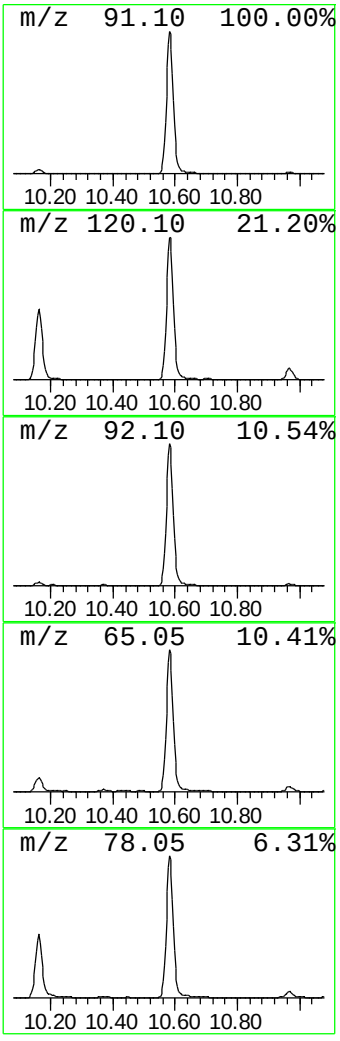
****

Peak Number 39 Benzene, propyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	47.12 ug/L	15566000	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	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	72
4	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	64
5	Benzene, propyl-	120	C9H12	000103-65-1	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

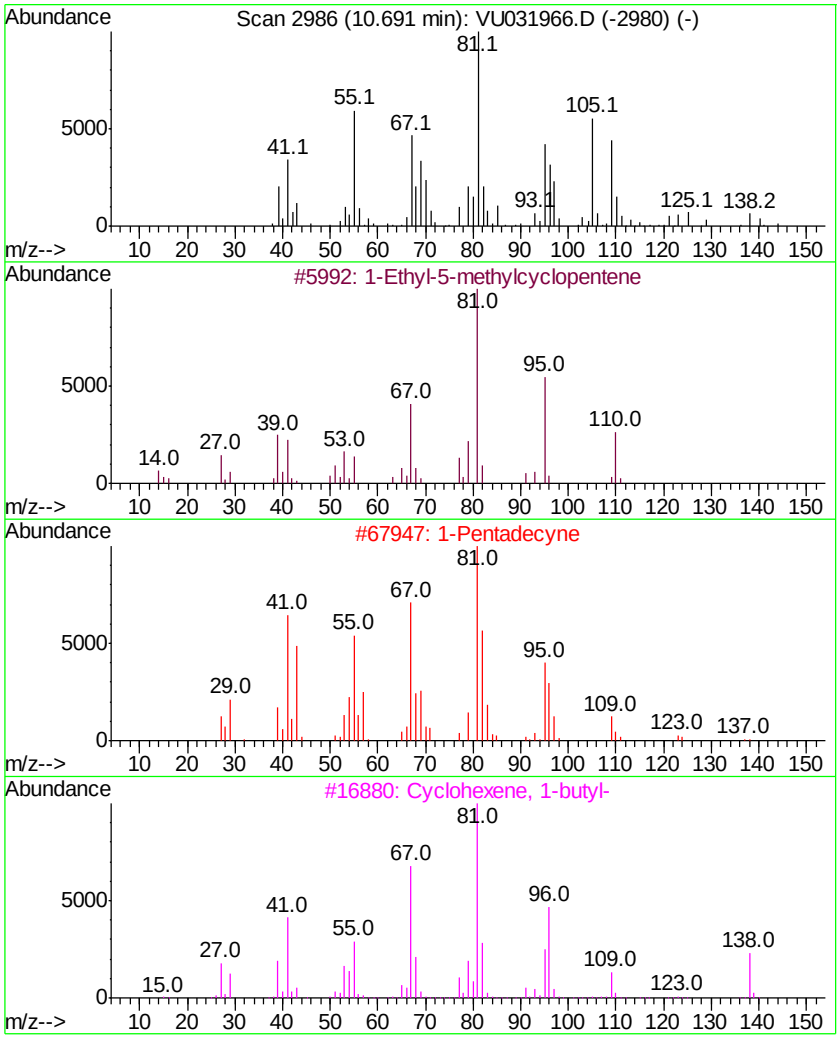
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

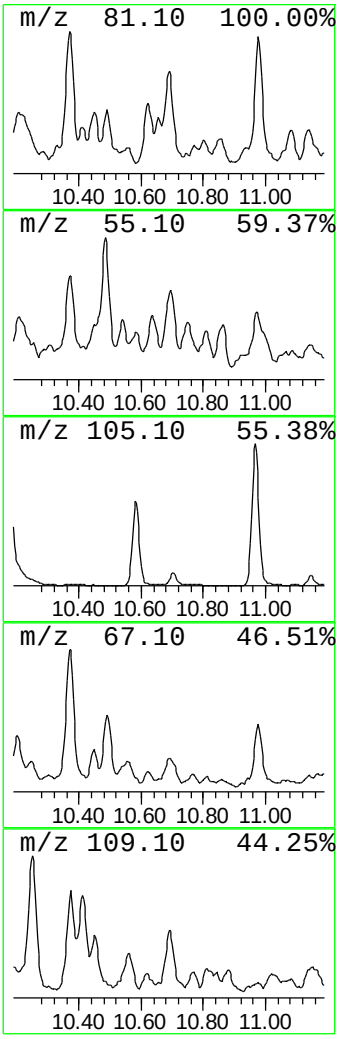
****

Peak Number 40 unknown-04 Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.69	1.21 ug/L	398751	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-5-methylcyclopentene	110	C8H14	097797-57-4	49
2	1-Pentadecyne	208	C15H28	000765-13-9	47
3	Cyclohexene, 1-butyl-	138	C10H18	003282-53-9	45
4	Cyclohexylmethanol, trifluoroace...	210	C9H13F3O2	164071-20-9	43
5	Cyclopentane, 1,3-dimethyl-2-(1-...	138	C10H18	061142-31-2	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

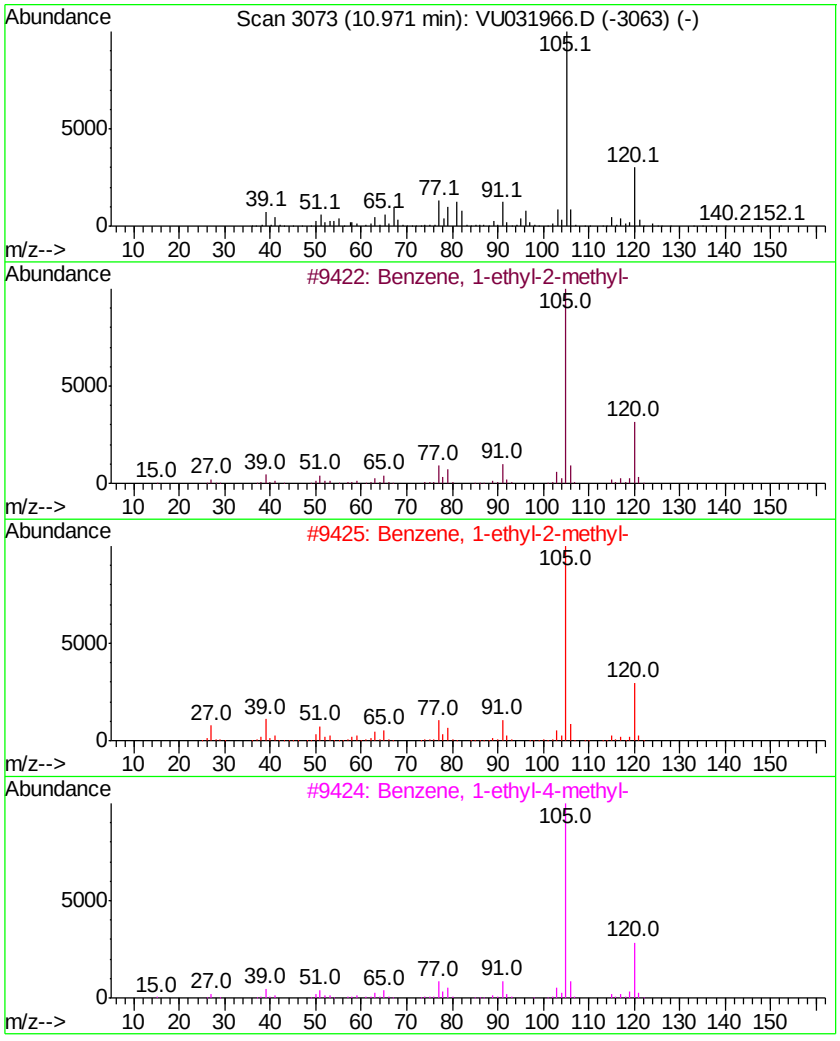
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

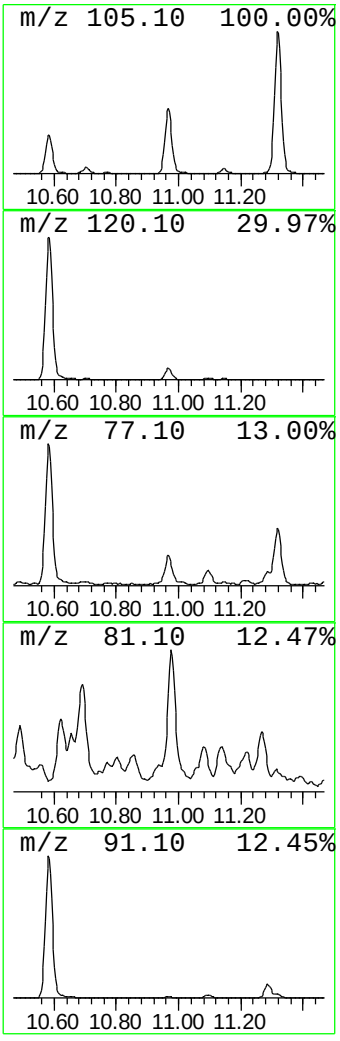
****

Peak Number 41 Benzene, 1-ethyl-2-methyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	5.13 ug/L	1694360	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	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

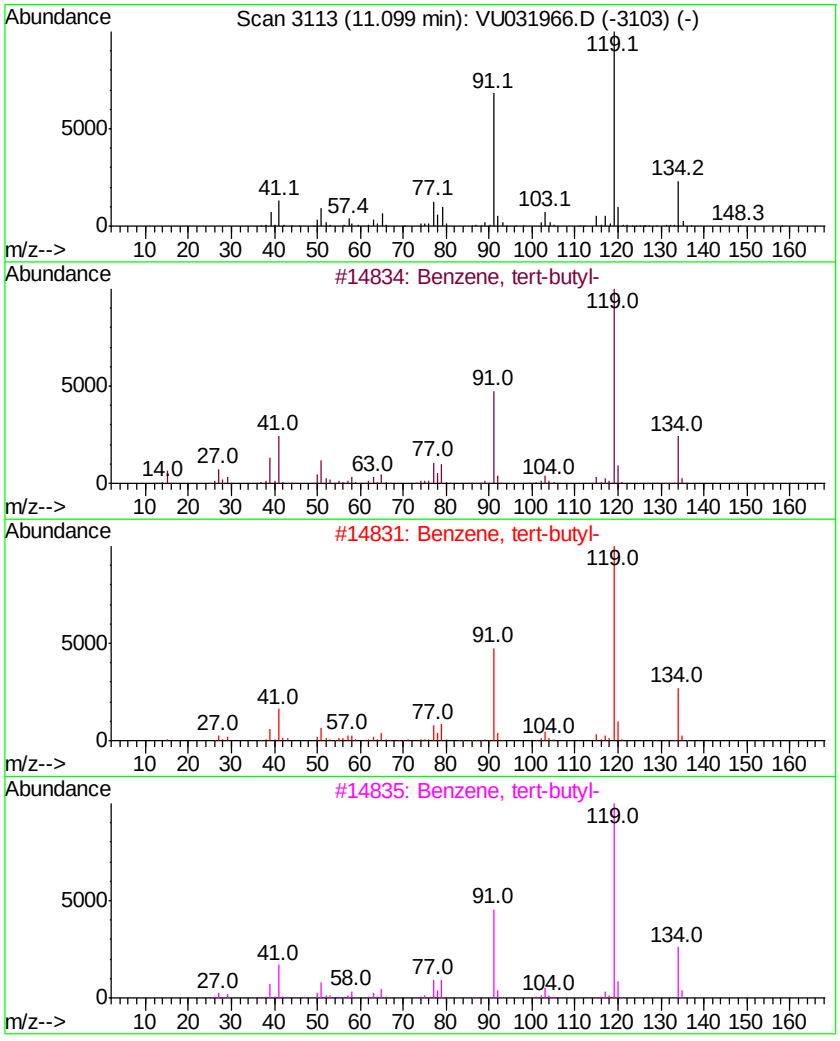
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

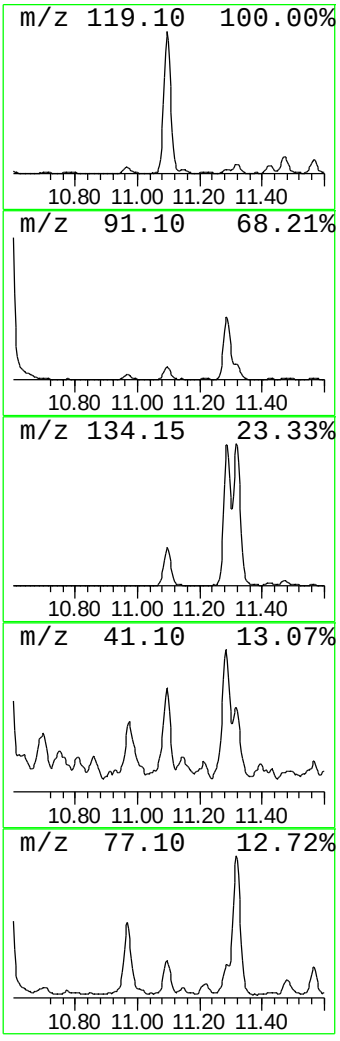
****

Peak Number 42 Benzene, tert-butyl- Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	2.01 ug/L	662703	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, tert-butyl-	134	C10H14	000098-06-6	90
2	Benzene, tert-butyl-	134	C10H14	000098-06-6	90
3	Benzene, tert-butyl-	134	C10H14	000098-06-6	87
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	81
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	80





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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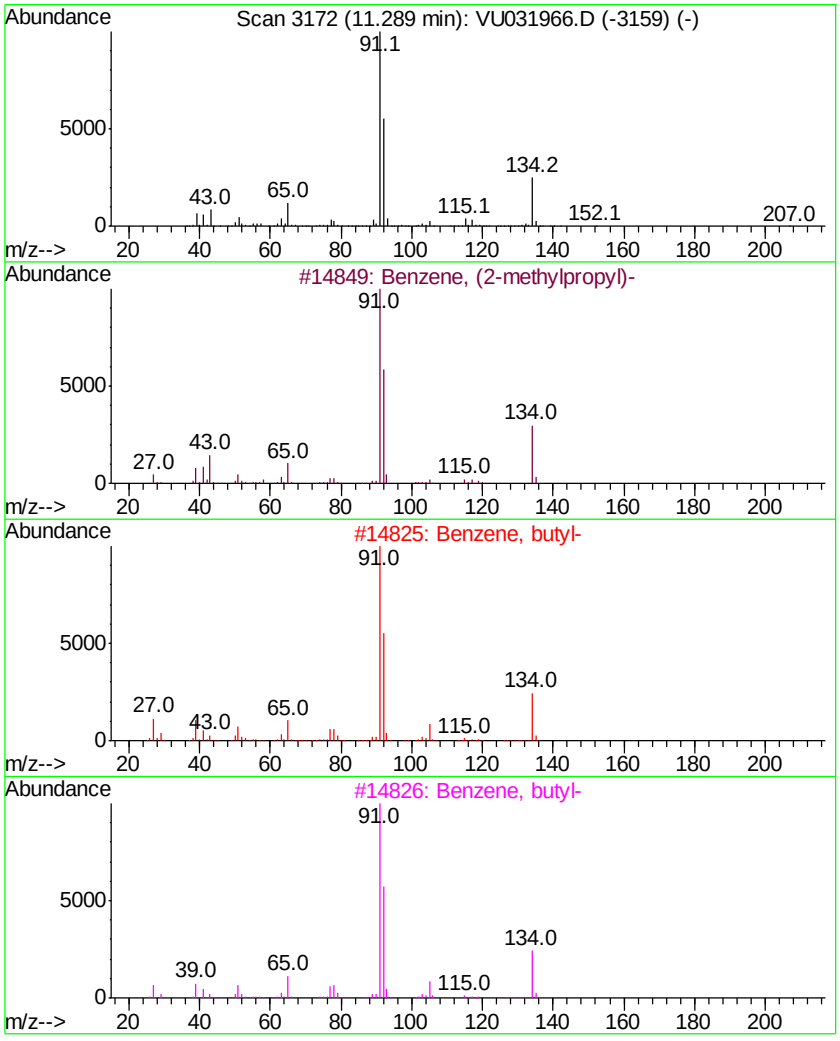
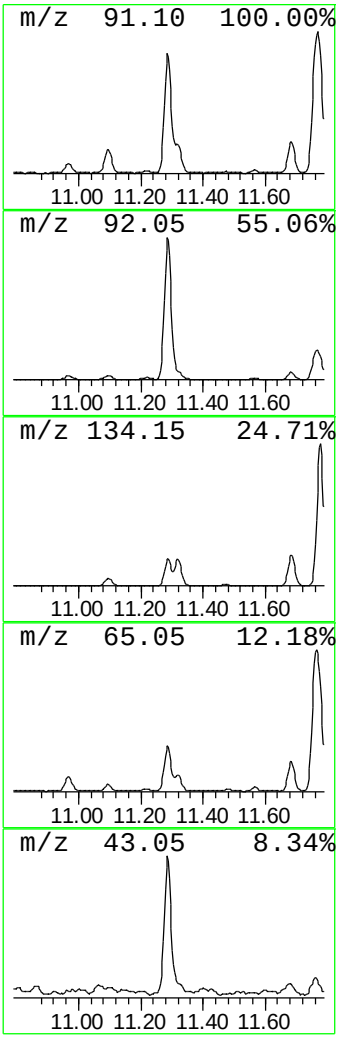
Peak Number 43 Benzene, (2-methylpropyl)- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	6.66 ug/L	2199760	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	83
2	Benzene, butyl-	134	C10H14	000104-51-8	80
3	Benzene, butyl-	134	C10H14	000104-51-8	80
4	Benzene, butyl-	134	C10H14	000104-51-8	80
5	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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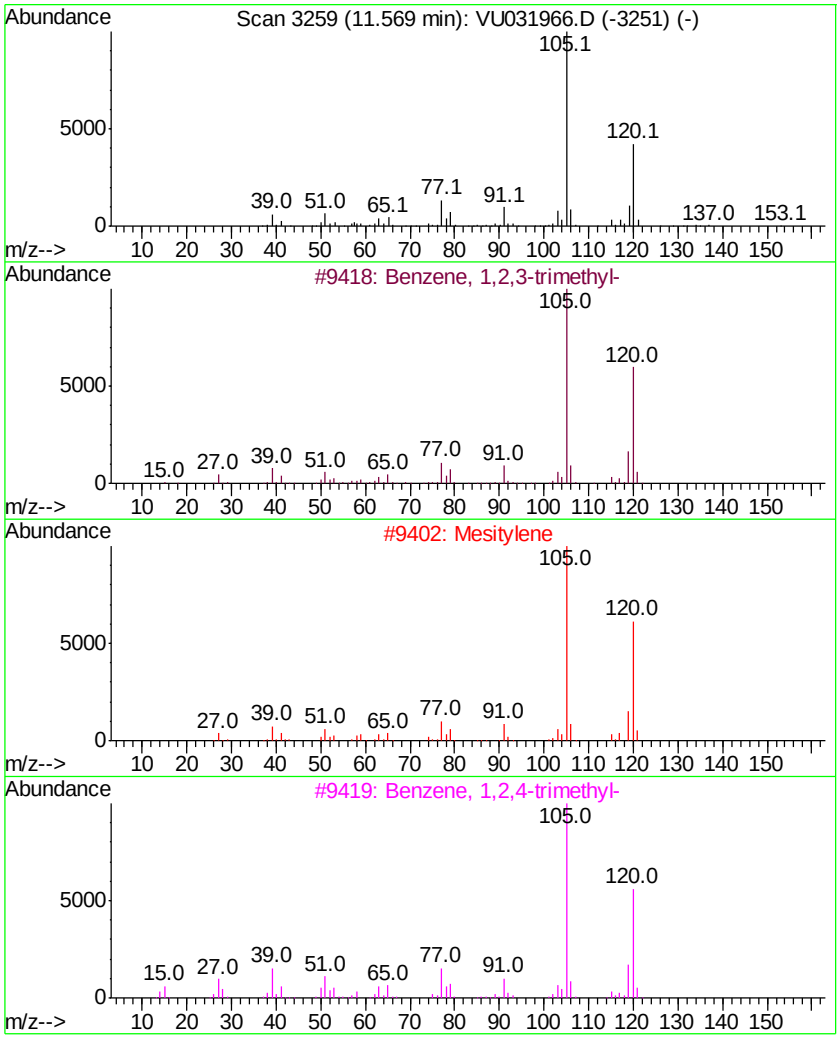
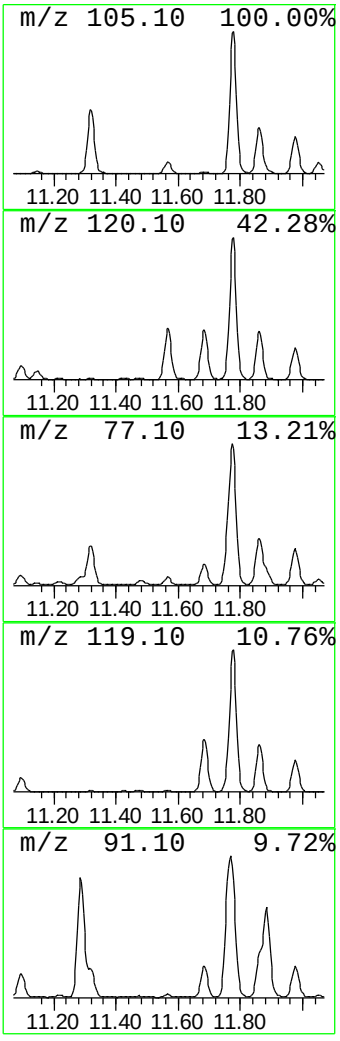
Peak Number 45 Benzene, 1,2,3-trimethyl- Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.57	1.26 ug/L	416673	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	95
2	Mesitylene	120	C9H12	000108-67-8	93
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
4	Mesitylene	120	C9H12	000108-67-8	91
5	Mesitylene	120	C9H12	000108-67-8	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

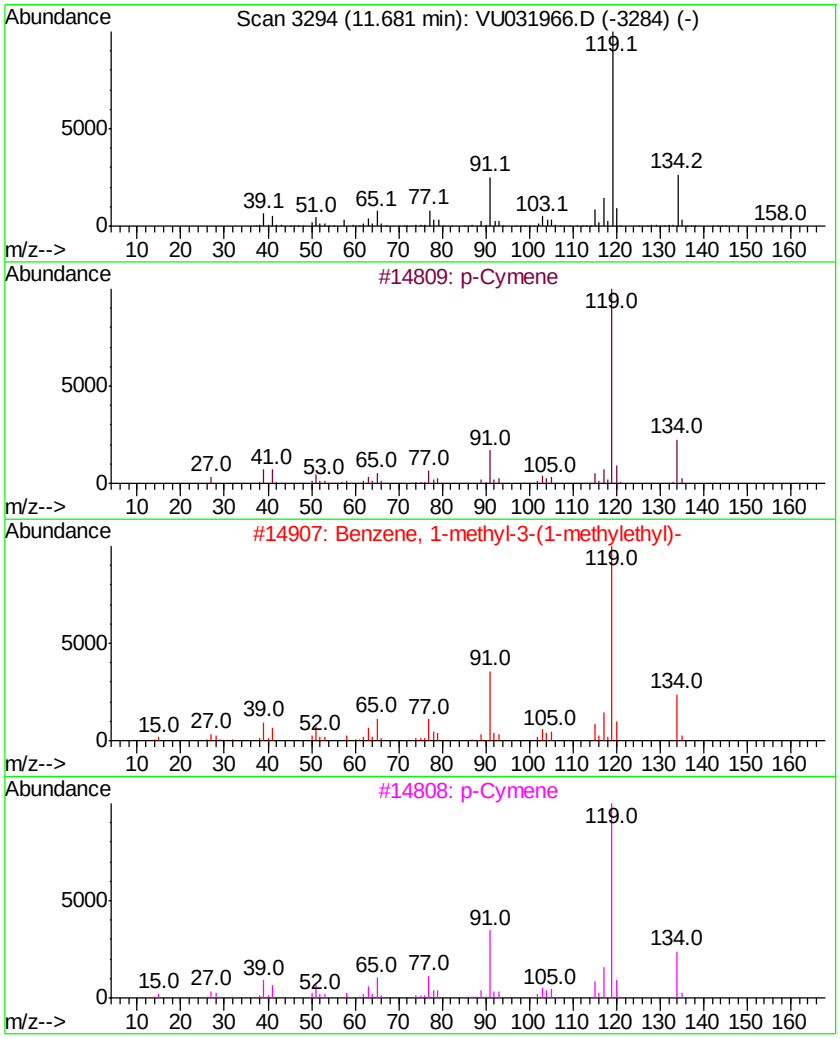
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

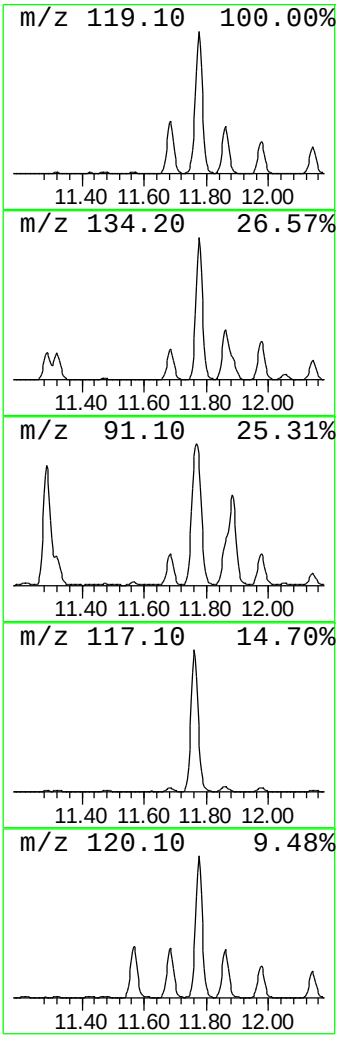
****

Peak Number 46 o-Cymene Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.68	6.71 ug/L	2218080	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	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	o-Cymene	134	C10H14	000527-84-4	94
5	o-Cymene	134	C10H14	000527-84-4	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

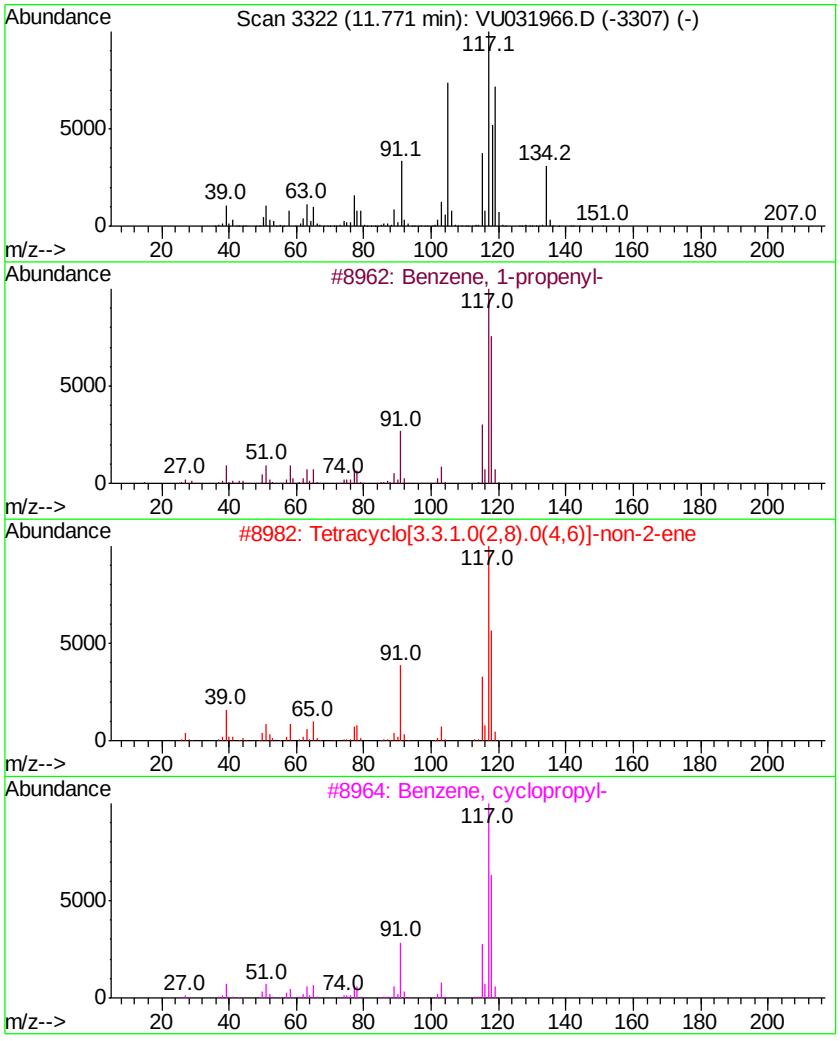
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

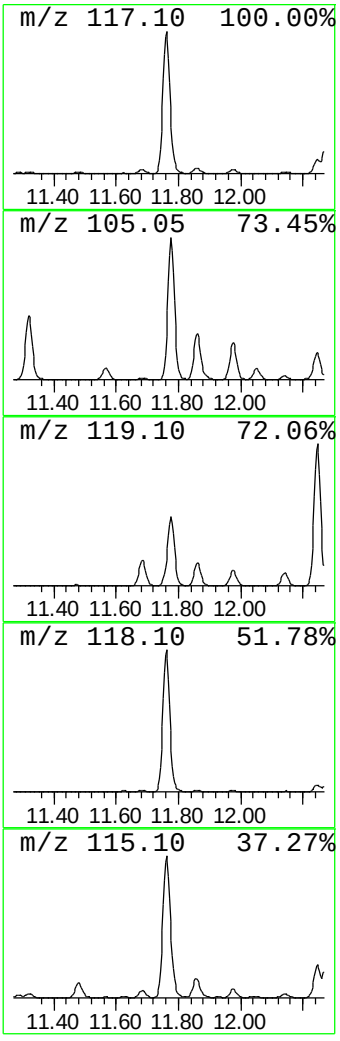
****

Peak Number 47 Benzene, 1-propenyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	66.12 ug/L	21840000	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-propenyl-	118	C9H10	000637-50-3	87
2	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	55
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	55
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	55
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	55





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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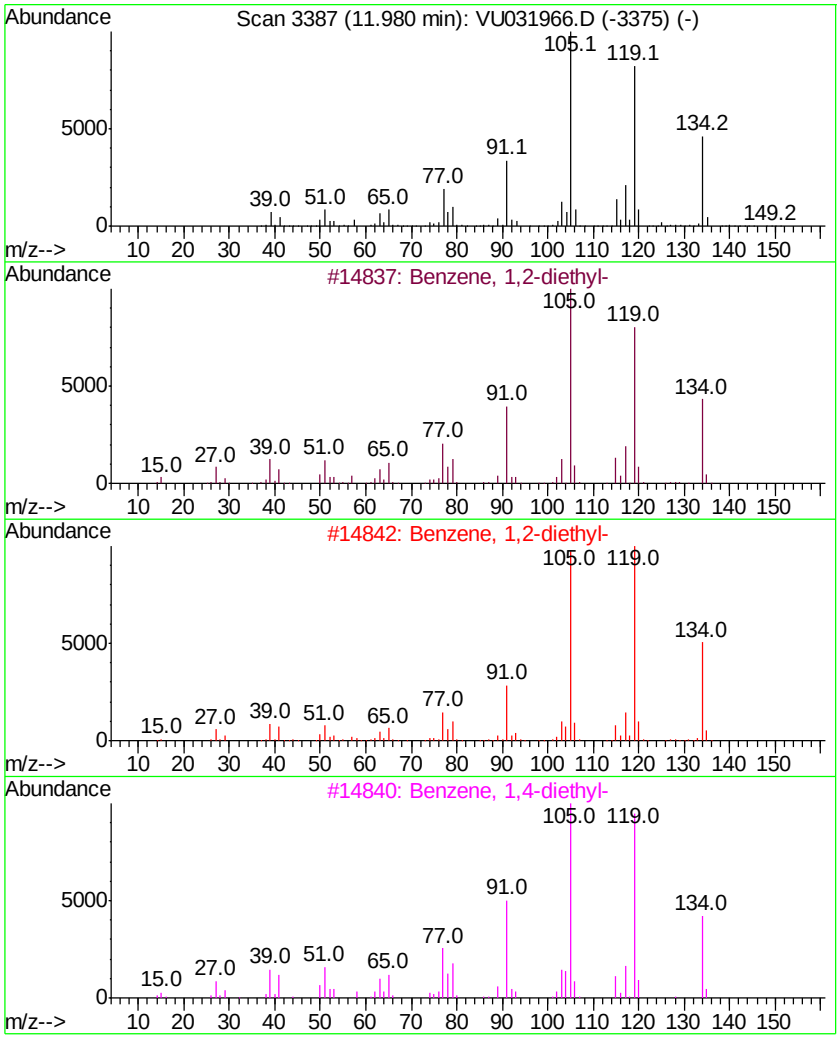
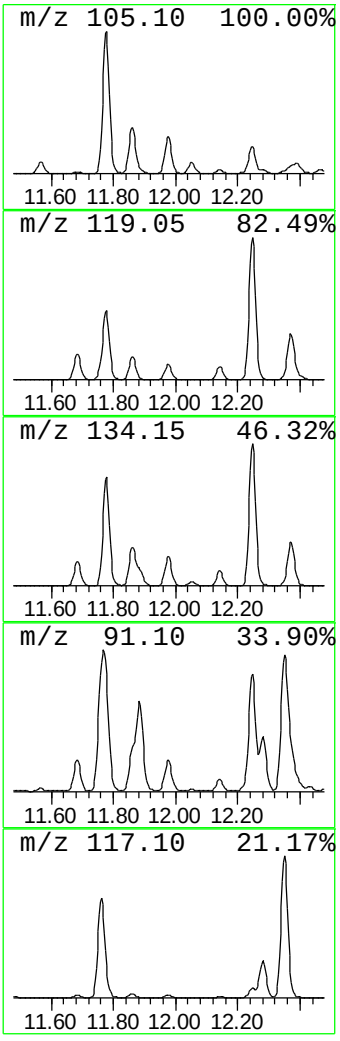
Peak Number 48 Benzene, 1,2-diethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	8.48 ug/L	2800040	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	98
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	94
3	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	93
4	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	87
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

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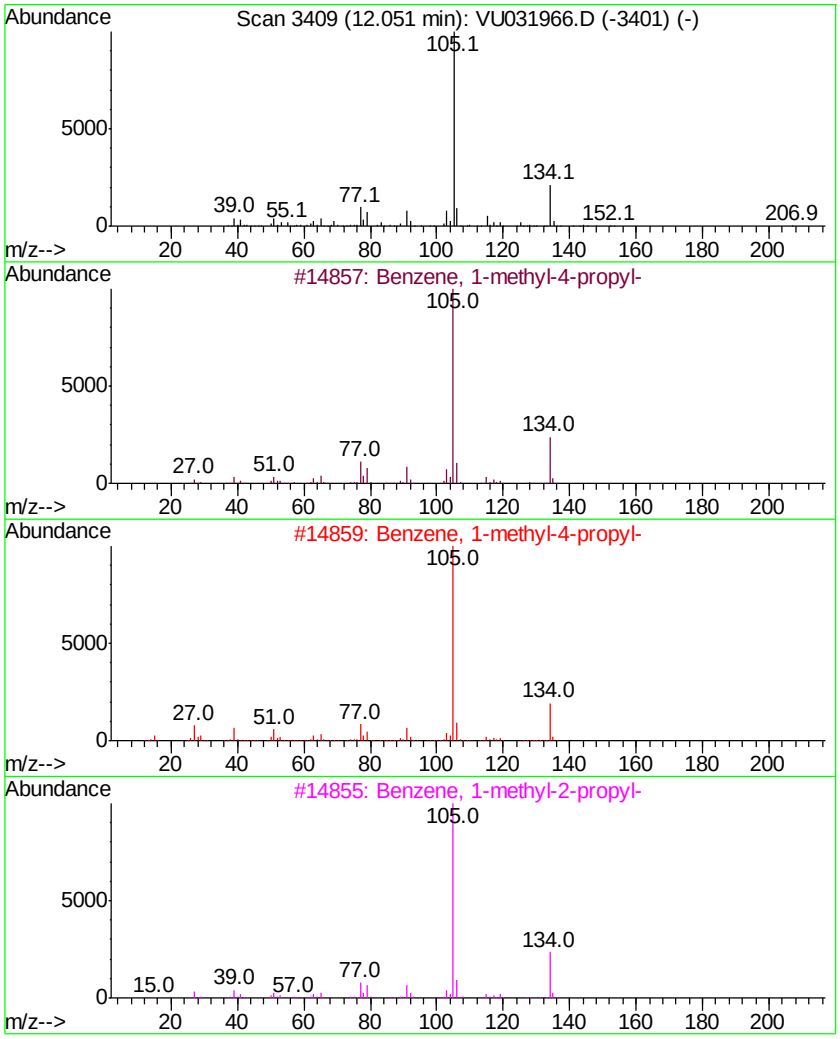
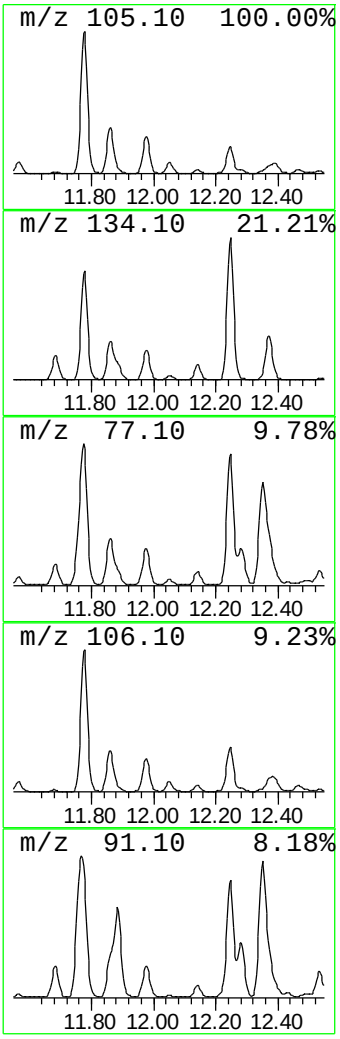
Peak Number 49 Benzene, 1-methyl-4-propyl- Concentration Rank 77

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	1.13 ug/L	374176	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	94
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

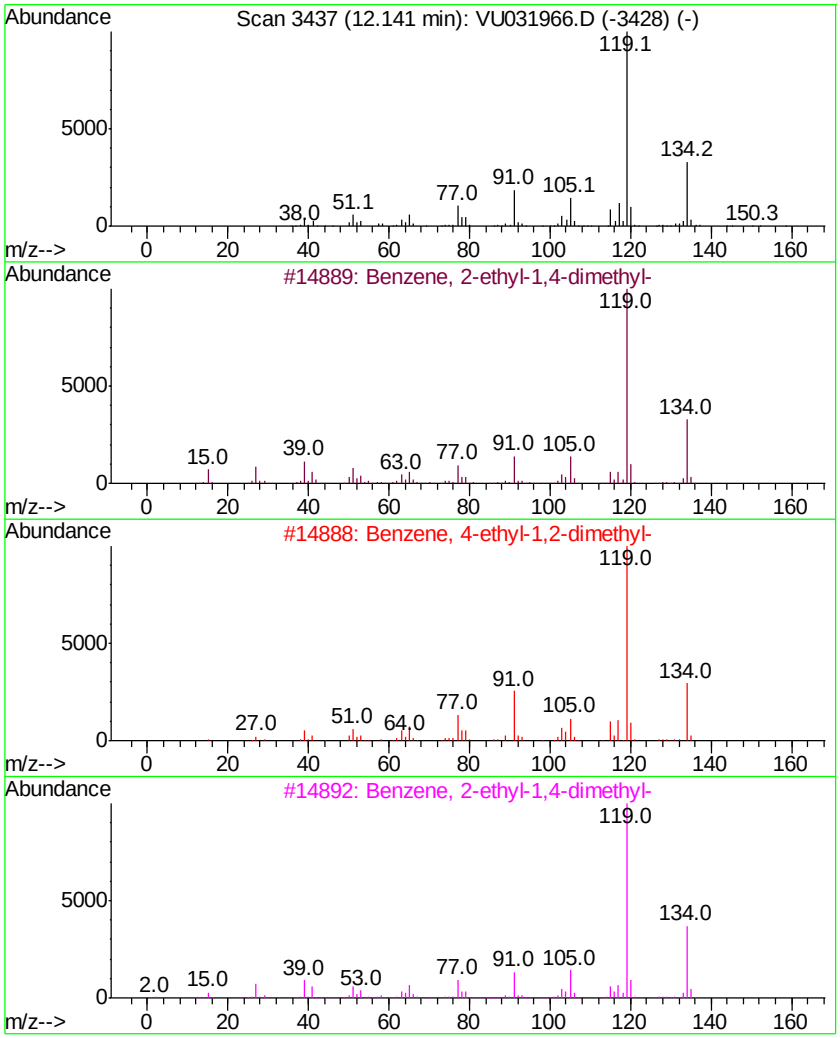
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

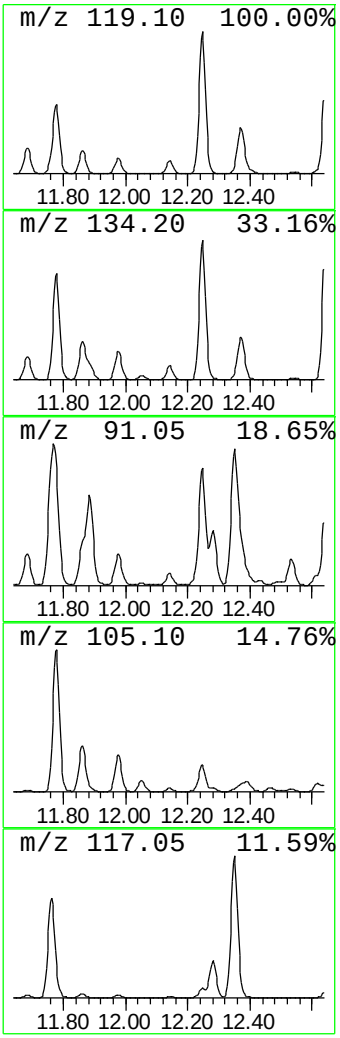
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 50 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	3.36 ug/L	1110200	1,4-Dichlorobenzene-d4	11.48

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	95
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

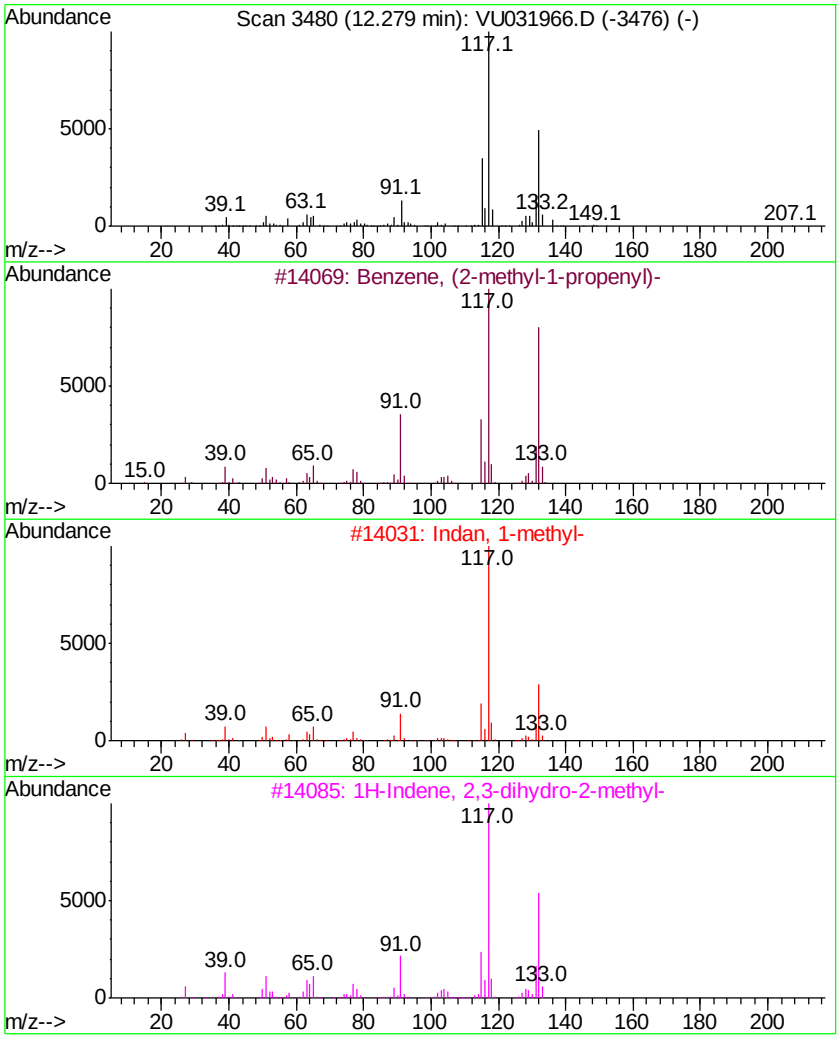
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

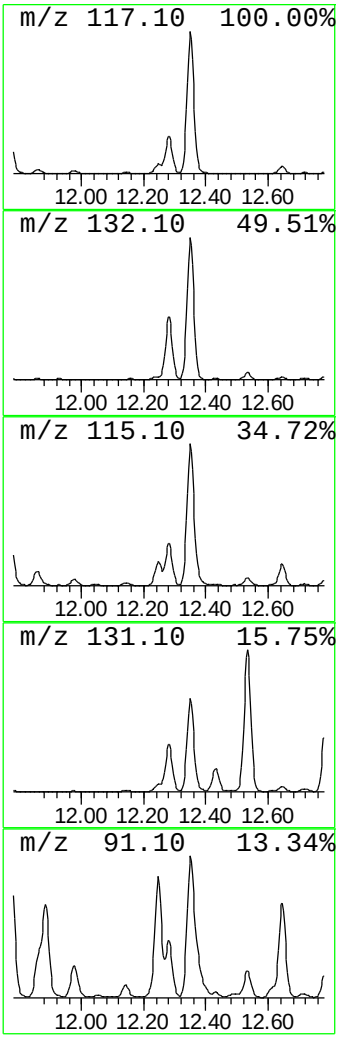
****

Peak Number 52 Benzene, (2-methyl-1-propen... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	16.72 ug/L	5522390	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	91
2	Indan, 1-methyl-	132	C10H12	000767-58-8	90
3	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	90
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	90
5	1-Phenyl-1-butene	132	C10H12	000824-90-8	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

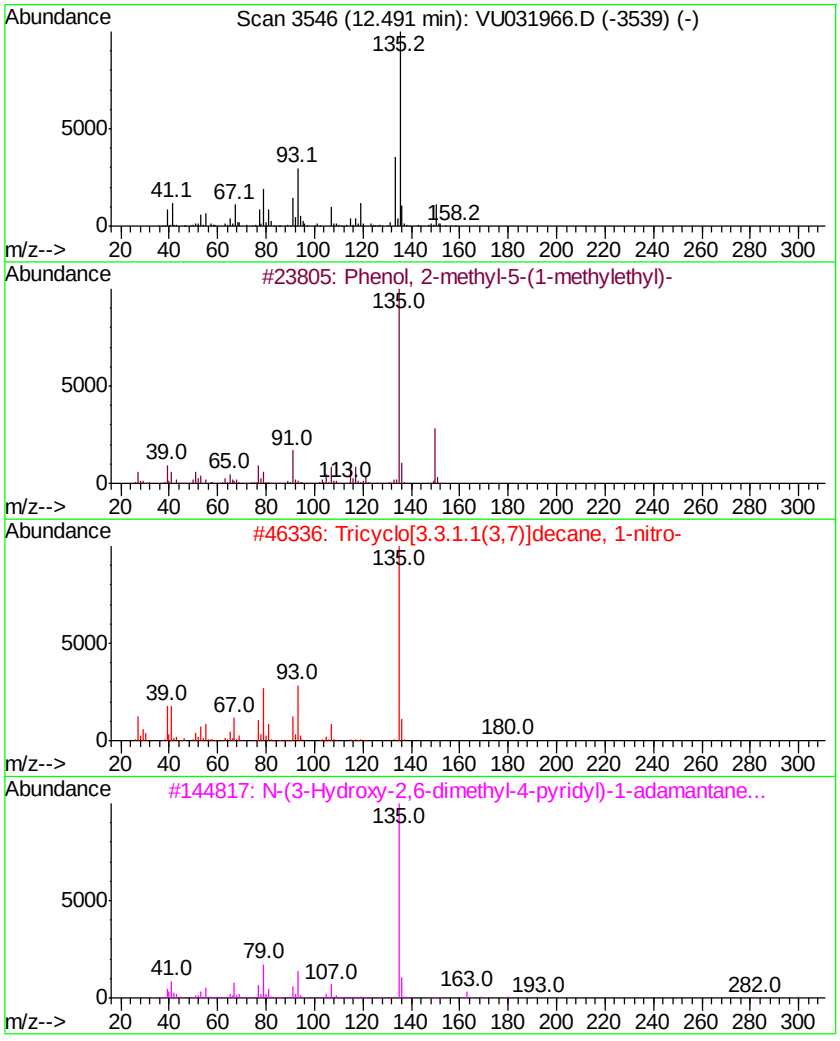
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

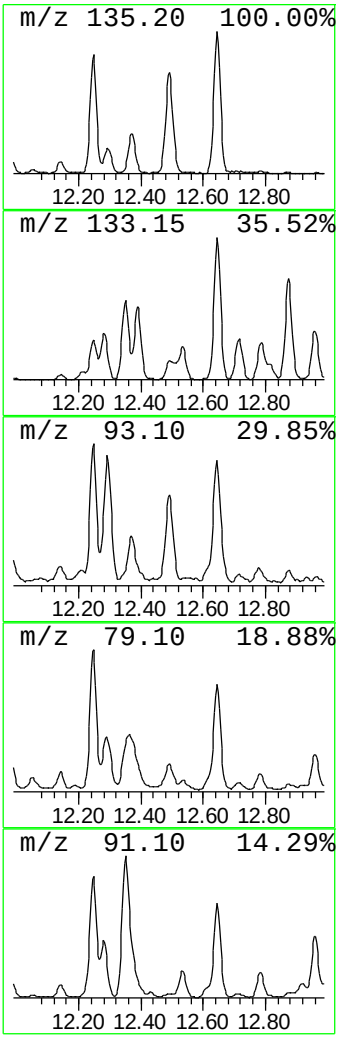
****

Peak Number 54 Phenol, 2-methyl-5-(1-methy... Concentration Rank 78

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	1.01 ug/L	333544	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2-methyl-5-(1-methylethyl)-	150	C10H14O	000499-75-2	58
2	Tricyclo[3.3.1.1(3,7)]decane, 1-...	181	C10H15NO2	007575-82-8	53
3	N-(3-Hydroxy-2,6-dimethyl-4-pyri...	300	C18H24N2O2	1000260-99-3	52
4	Silane, trimethylphenyl-	150	C9H14Si	000768-32-1	52
5	Phosphonic dichloride, 1-adamantyl-	252	C10H15Cl2OP	1000294-15-7	52





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051319\
Data File : VU031966.D
Acq On : 13 May 2019 12:54
Operator : JC/SP
Sample : K2739-08
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB886

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Sulfur dioxide	1.34	5.4	ug/L	1314450	1	5.88	1212650	5.0
(DEL) Alkane: Str...	2.74	2.6	ug/L	629425	1	5.88	1212650	5.0
(DEL) Alkane: Str...	3.29	1.4	ug/L	330200	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	4.08	6.7	ug/L	1620690	1	5.88	1212650	5.0
(DEL) Alkane: Str...	5.07	3.8	ug/L	928378	1	5.88	1212650	5.0
(DEL) Alkane: Str...	5.21	4.0	ug/L	972398	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	5.47	8.2	ug/L	1993790	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	5.55	7.9	ug/L	1922980	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	5.61	10.5	ug/L	2548440	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	5.94	2.0	ug/L	474311	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	6.63	3.0	ug/L	719488	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	6.73	3.3	ug/L	789705	1	5.88	1212650	5.0
Cyclohexene, 4-me...	6.84	3.8	ug/L	913915	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	6.90	3.6	ug/L	879026	1	5.88	1212650	5.0
Cyclobutane, (1-m...	7.06	4.2	ug/L	1020400	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	7.25	4.6	ug/L	1126400	1	5.88	1212650	5.0
Cyclohexene, 1-me...	7.43	3.7	ug/L	889460	1	5.88	1212650	5.0
(DEL) Alkane: Cyc...	7.70	7.8	ug/L	2046470	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	7.91	12.5	ug/L	3279040	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	8.04	8.4	ug/L	2211420	2	9.09	1307770	5.0
Cyclopentene, 1,2...	8.09	9.6	ug/L	2499940	2	9.09	1307770	5.0
Bicyclo[3.1.0]hex...	8.39	2.1	ug/L	541019	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	8.48	5.6	ug/L	1470830	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	8.54	5.1	ug/L	1326340	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	8.60	3.3	ug/L	861590	2	9.09	1307770	5.0
Cyclohexene, 1,6-...	8.76	3.6	ug/L	939103	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	8.85	2.3	ug/L	593862	2	9.09	1307770	5.0
cis-Bicyclo[3.3.0...	9.00	2.8	ug/L	729735	2	9.09	1307770	5.0
Pentalene, octahy...	9.18	11.3	ug/L	2947960	2	9.09	1307770	5.0
Bicyclo[3.2.1]octane	9.36	10.6	ug/L	2780430	2	9.09	1307770	5.0
Methyl ethyl cycl...	9.57	3.5	ug/L	916942	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	9.72	4.2	ug/L	1099760	2	9.09	1307770	5.0
unknown-01	9.81	1.7	ug/L	452015	2	9.09	1307770	5.0
(DEL) Alkane: Cyc...	9.92	1.9	ug/L	500227	2	9.09	1307770	5.0
Pentalene, octahy...	9.95	4.3	ug/L	1128650	2	9.09	1307770	5.0
unknown-02	10.04	3.5	ug/L	915055	2	9.09	1307770	5.0
3,4-Octadiene, 7-...	10.37	2.5	ug/L	823048	3	11.48	1651650	5.0
unknown-03	10.49	1.6	ug/L	521060	3	11.48	1651650	5.0
Benzene, propyl-	10.58	47.1	ug/L	15566000	3	11.48	1651650	5.0
unknown-04	10.69	1.2	ug/L	398751	3	11.48	1651650	5.0
Benzene, 1-ethyl-...	10.97	5.1	ug/L	1694360	3	11.48	1651650	5.0
Benzene, tert-butyl-	11.10	2.0	ug/L	662703	3	11.48	1651650	5.0
Benzene, (2-methy...	11.29	6.7	ug/L	2199760	3	11.48	1651650	5.0
Benzene, 1,2,3-tr...	11.57	1.3	ug/L	416673	3	11.48	1651650	5.0
o-Cymene	11.68	6.7	ug/L	2218080	3	11.48	1651650	5.0
Benzene, 1-propenyl-	11.77	66.1	ug/L	21840000	3	11.48	1651650	5.0
Benzene, 1,2-diet...	11.98	8.5	ug/L	2800040	3	11.48	1651650	5.0
Benzene, 1-methyl...	12.05	1.1	ug/L	374176	3	11.48	1651650	5.0
Benzene, 2-ethyl-...	12.14	3.4	ug/L	1110200	3	11.48	1651650	5.0

Benzene, (2-methy...	12.28	16.7	ug/L	5522390	3	11.48	1651650	5.0
Phenol, 2-methyl-...	12.49	1.0	ug/L	333544	3	11.48	1651650	5.0

Instrument :
MSVOA_U
ClientSampleId :
DB886