LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

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\SOMUTR102418WMA.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	1.286	27	35	64	rBV	66451	208969	17.55%	1.250%
2	1.398	66	70	84	rVB	24322	31565	2.65%	0.189%
3	2.276	334	343	352	rBV	34238	55860	4.69%	0.334%
4	2.707	466	477	494	rVB2	25675	52111	4.38%	0.312%
5	2.996	556	567	583	rVB3	10794	24603	2.07%	0.147%
6	3.993	858	877	895	rBV3	11647	31466	2.64%	0.188%
7	4.202	927	942	971	rBV	30524	89461	7.51%	0.535%
8	4.652	1067	1082	1095	rBV	26165	59634	5.01%	0.357%
9	4.733	1095	1107	1123	rVB3	9695	24394	2.05%	0.146%
10	5.080	1199	1215	1237	rVB2	34962	84801	7.12%	0.507%
11	5.340	1278	1296	1324	rVB2	52087	148400	12.47%	0.888%
12	5.482	1327	1340	1352	rBV3	23310	53399	4.49%	0.319%
13	5.553	1352	1362	1378	rVB4	15003	31856	2.68%	0.191%
14	5.890	1454	1467	1489	rBV	48290	91748	7.71%	0.549%
15	6.334	1593	1605	1614	rBV	35330	69661	5.85%	0.417%
16	6.395	1614	1624	1639	rVB3	35481	73758	6.20%	0.441%
17	6.739	1715	1731	1749	rBV5	40312	85072	7.15%	0.509%
18	6.906	1771	1783	1799	rBV4	9855	23067	1.94%	0.138%
19	7.231	1874	1884	1900	rBV4	20749	60162	5.05%	0.360%
20	7.530	1965	1977	1980	rBV4	19503	31131	2.62%	0.186%
21	7.565	1981	1988	2002	rVB	68774	120052	10.08%	0.718%
22	7.710	2020	2033	2047	rBV	80741	154883	13.01%	0.926%
23	7.855	2067	2078	2086	rBV3	18017	31171	2.62%	0.186%
24	7.919	2086	2098	2117	rVB	209935	380937	32.00%	2.279%
25	8.048	2121	2138	2149	rBV	45461	85015	7.14%	0.509%
26	8.180	2169	2179	2188	rBV	21959	40980	3.44%	0.245%
27	8.315	2209	2221	2237	rBV	123516	239478	20.12%	1.432%
28	8.488	2266	2275	2294	rVB4	58115	122834	10.32%	0.735%
29	8.607	2301	2312	2319	rBV2	32857	59256	4.98%	0.354%
30	8.652	2319	2326	2344	rVB4	32217	75783	6.37%	0.453%
31	8.848	2375	2387	2398	rBV2	50980	87404	7.34%	0.523%
32	9.089	2451	2462	2474	rBV	75127	121471	10.20%	0.727%
33	9.189	2479	2493	2502	rBV	41710	73486	6.17%	0.440%
34	9.250	2502	2512	2524	rVB2	65967	116956	9.82%	0.700%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

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\SOMUTR102418WMA.M
Title : TRACE VOA SOM01.0

35	9.363	2536	2547	2567	rVB4	78059	197748	16.61%	1.183%
36	9.485	2579	2585	2597	rVB8	11381	21076	1.77%	0.126%
37	9.569	2599	2611	2626	rBV3	49981	88728	7.45%	0.531%
38	9.729	2643	2661	2662	rBV4	78191	152316	12.79%	0.911%
39	9.806	2678	2685	2700	rVB4	23152	39800	3.34%	0.238%
40	9.922	2708	2721	2726	rBV3	57035	110803	9.31%	0.663%
41	9.951	2727	2730	2740	rVB2	52250	68587	5.76%	0.410%
42	10.048	2751	2760	2767	rBV5	45737	88733	7.45%	0.531%
43	10.167	2786	2797	2807	rBV	441531	675266	56.72%	4.039%
44	10.224	2807	2815	2830	rVB5	42048	84637	7.11%	0.506%
45	10.305	2832	2840	2850	rVB8	11217	24208	2.03%	0.145%
46	10.376	2852	2862	2871	rBV2	58514	99850	8.39%	0.597%
47	10.437	2871	2881	2888	rBV3	33082	72655	6.10%	0.435%
48	10.491	2890	2898	2909	rVB4	124136	203407	17.09%	1.217%
49	10.588	2919	2928	2935	rBV	117523	184084	15.46%	1.101%
50	10.636	2937	2943	2954	rVV5	55218	124958	10.50%	0.747%
51	10.697	2955	2962	2973	rVB4	62034	117178	9.84%	0.701%
52	10.813	2991	2998	3006	rBV4	38396	55728	4.68%	0.333%
53	10.864	3006	3014	3034	rVB7	41036	88419	7.43%	0.529%
54	10.970	3035	3047	3067	rBV	403598	724265	60.84%	4.332%
55	11.102	3081	3088	3095	rBV2	39085	62624	5.26%	0.375%
56	11.147	3096	3102	3115	rVB2	61433	94345	7.93%	0.564%
57	11.289	3128	3146	3151	rBV	203713	385482	32.38%	2.306%
58	11.324	3152	3157	3174	rVB	243853	407162	34.20%	2.435%
59	11.430	3182	3190	3199	rVB6	55109	89117	7.49%	0.533%
60	11.482	3199	3206	3217	rVB2	82662	121494	10.21%	0.727%
61	11.572	3223	3234	3246	rBV	513777	784267	65.88%	4.691%
62	11.687	3258	3270	3288	rVB	144743	288795	24.26%	1.727%
63	11.781	3289	3299	3309	rVV	281193	425302	35.73%	2.544%
64	11.861	3313	3324	3344	rVB3	349625	664557	55.82%	3.975%
65	11.980	3351	3361	3371	rVB	204664	303712	25.51%	1.817%
66	12.054	3373	3384	3397	rVV	345289	545406	45.81%	3.262%
67	12.147	3406	3413	3418	rBV	30955	44385	3.73%	0.265%
68	12.228	3432	3438	3451	rVB6	42594	89478	7.52%	0.535%
69	12.295	3452	3459	3467	rBV8	23072	38521	3.24%	0.230%
70	12.356	3468	3478	3498	rVV3	411400	1046703	87.92%	6.261%
71	12.433	3499	3502	3510	rVV	57104	77291	6.49%	0.462%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

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\SOMUTR102418WMA.M
Title : TRACE VOA SOM01.0

72	12.494	3511	3521	3524	rVV4	74966	127537	10.71%	0.763%
73	12.546	3528	3537	3549	rVB5	365193	717012	60.23%	4.289%
74	12.649	3549	3569	3577	rBV	613851	1090010	91.56%	6.520%
75	12.703	3577	3586	3602	rVB	729876	1190463	100.00%	7.121%
76	12.787	3602	3612	3631	rVB3	111337	195182	16.40%	1.167%
77	12.880	3631	3641	3647	rBV	77492	129466	10.88%	0.774%
78	12.925	3647	3655	3665	rVB3	107887	181440	15.24%	1.085%
79	12.996	3671	3677	3685	rVB	40644	56324	4.73%	0.337%
80	13.080	3694	3703	3708	rBV2	64572	94301	7.92%	0.564%
81	13.118	3708	3715	3729	rVB	82081	133856	11.24%	0.801%
82	13.189	3729	3737	3746	rBV6	39112	66753	5.61%	0.399%
83	13.237	3746	3752	3760	rBV	33696	45508	3.82%	0.272%
84	13.408	3796	3805	3813	rBV5	24443	49594	4.17%	0.297%
85	13.456	3813	3820	3827	rVB2	30571	43478	3.65%	0.260%
86	13.507	3827	3836	3842	rBV4	68337	114841	9.65%	0.687%
87	13.543	3843	3847	3854	rVB3	20518	29814	2.50%	0.178%
88	13.636	3872	3876	3885	rVB	24945	32544	2.73%	0.195%
89	13.729	3895	3905	3915	rVB4	31363	59114	4.97%	0.354%
90	13.787	3916	3923	3934	rVB6	15337	24952	2.10%	0.149%
91	13.855	3935	3944	3958	rBV3	32391	59673	5.01%	0.357%
92	13.951	3967	3974	3989	rVB5	22472	40644	3.41%	0.243%
93	14.147	4025	4035	4039	rBV5	12985	21718	1.82%	0.130%
94	14.176	4041	4044	4054	rVB4	18602	23940	2.01%	0.143%
95	14.279	4058	4076	4085	rBV	68395	120322	10.11%	0.720%
96	14.334	4085	4093	4121	rVB5	22897	54303	4.56%	0.325%
97	14.494	4121	4143	4152	rBV2	40896	90876	7.63%	0.544%
98	14.687	4191	4203	4214	rBV6	10733	23878	2.01%	0.143%
99	15.063	4309	4320	4334	rBV2	44495	78271	6.57%	0.468%
100	15.880	4565	4574	4590	rVB	55463	90922	7.64%	0.544%

Sum of corrected areas: 16718647

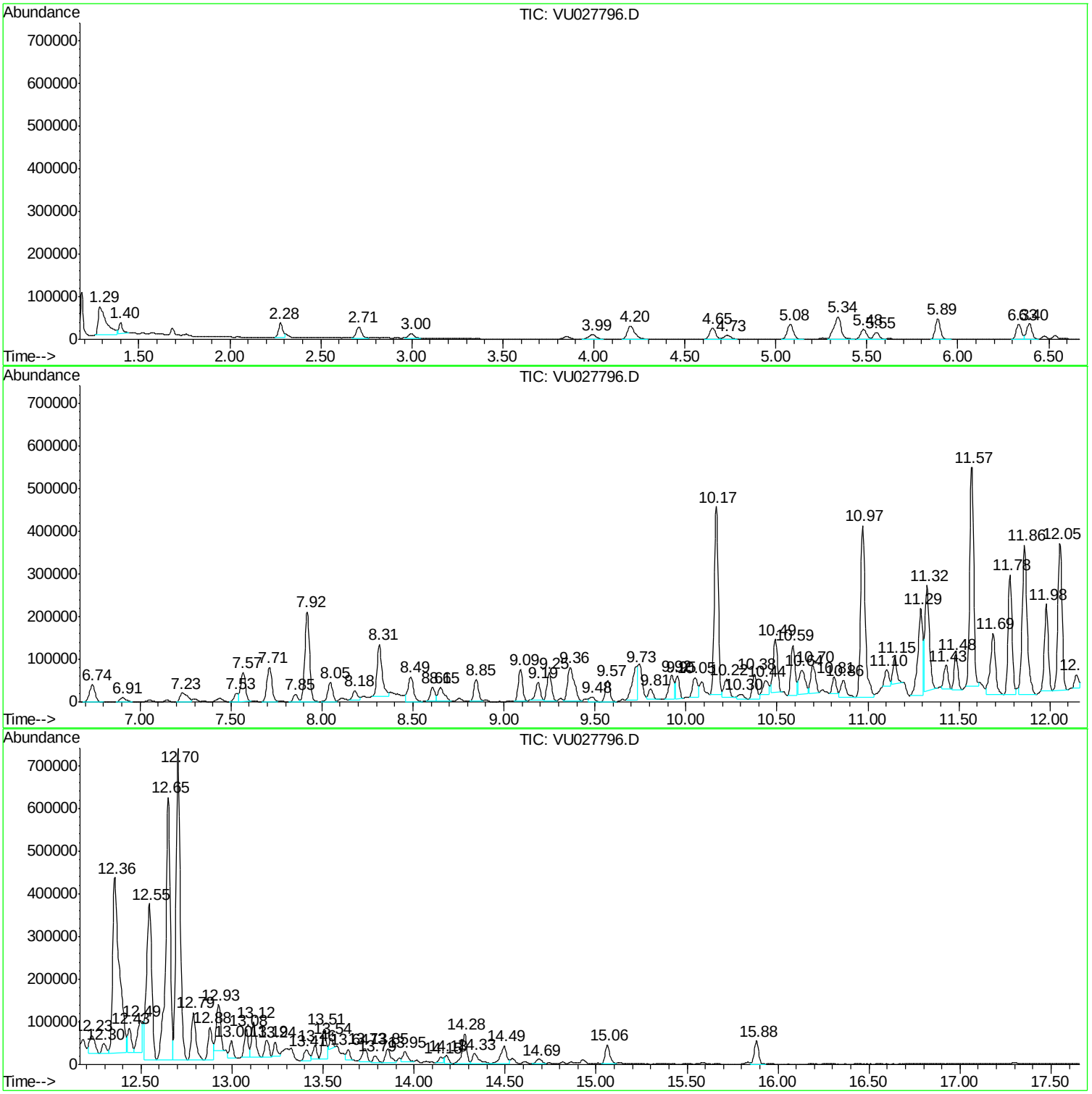
LSC Report - Integrated Chromatogram

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

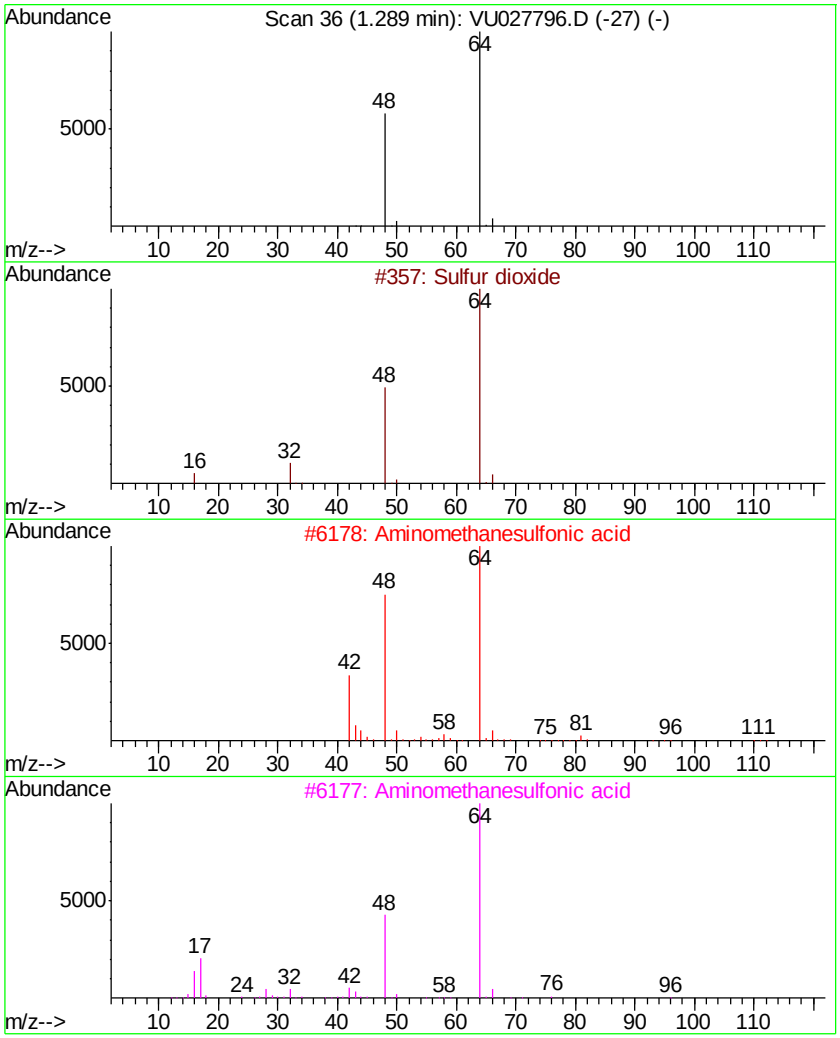
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

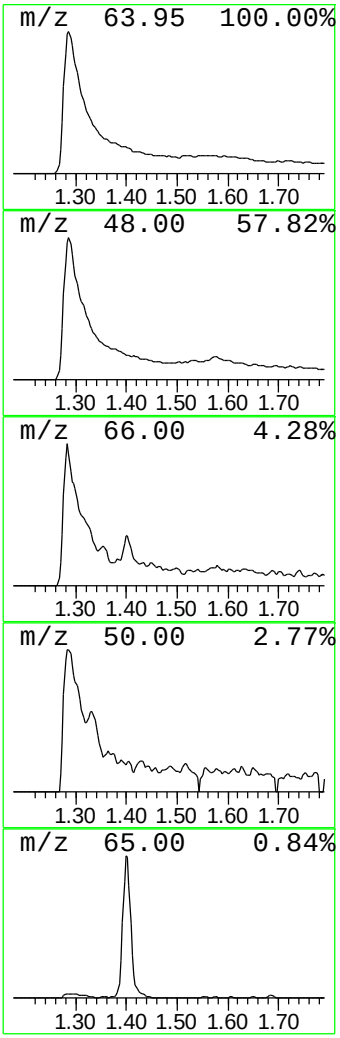
****

Peak Number 1 Sulfur dioxide Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.29	11.39 ug/L	208969	1,4-Difluorobenzene	5.89

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	9
3	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9
4	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9
5	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

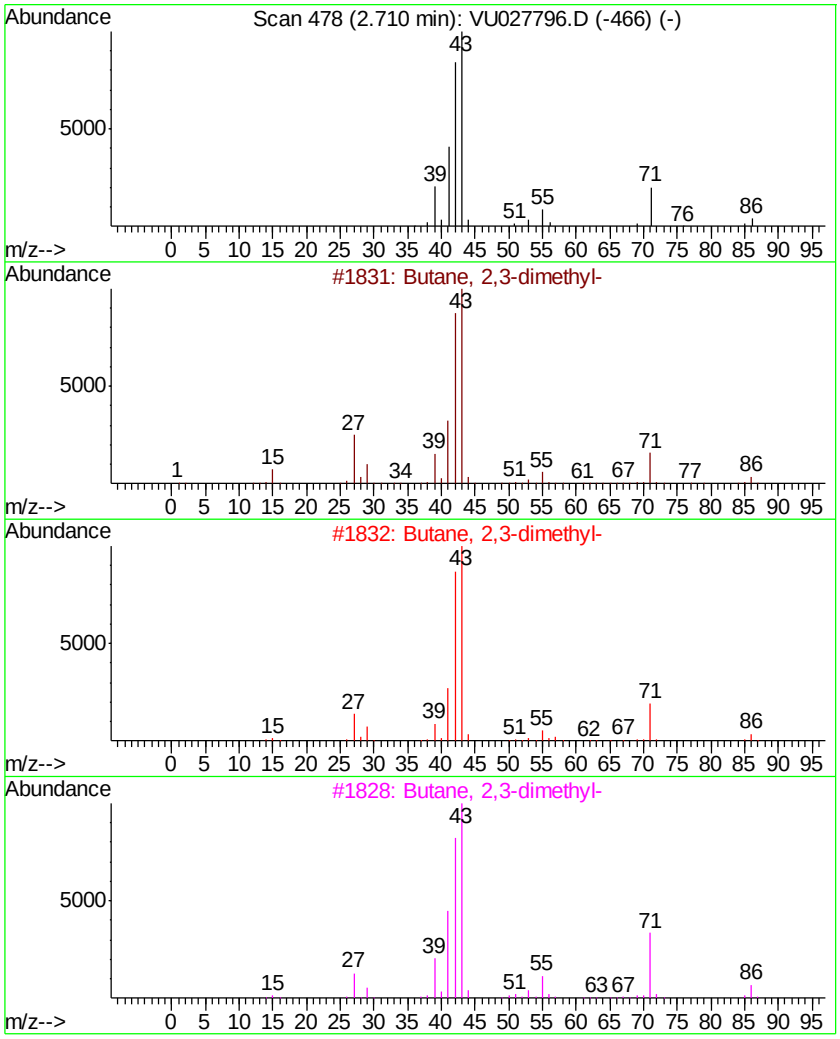
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

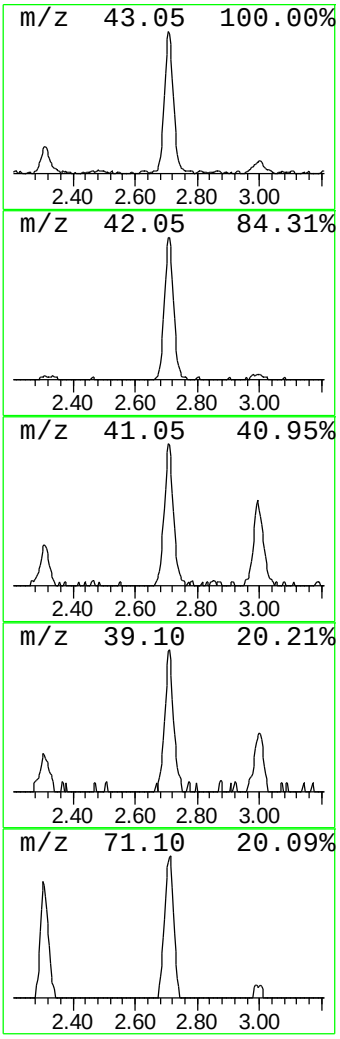
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.71	2.84 ug/L	52111	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	56
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	56
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

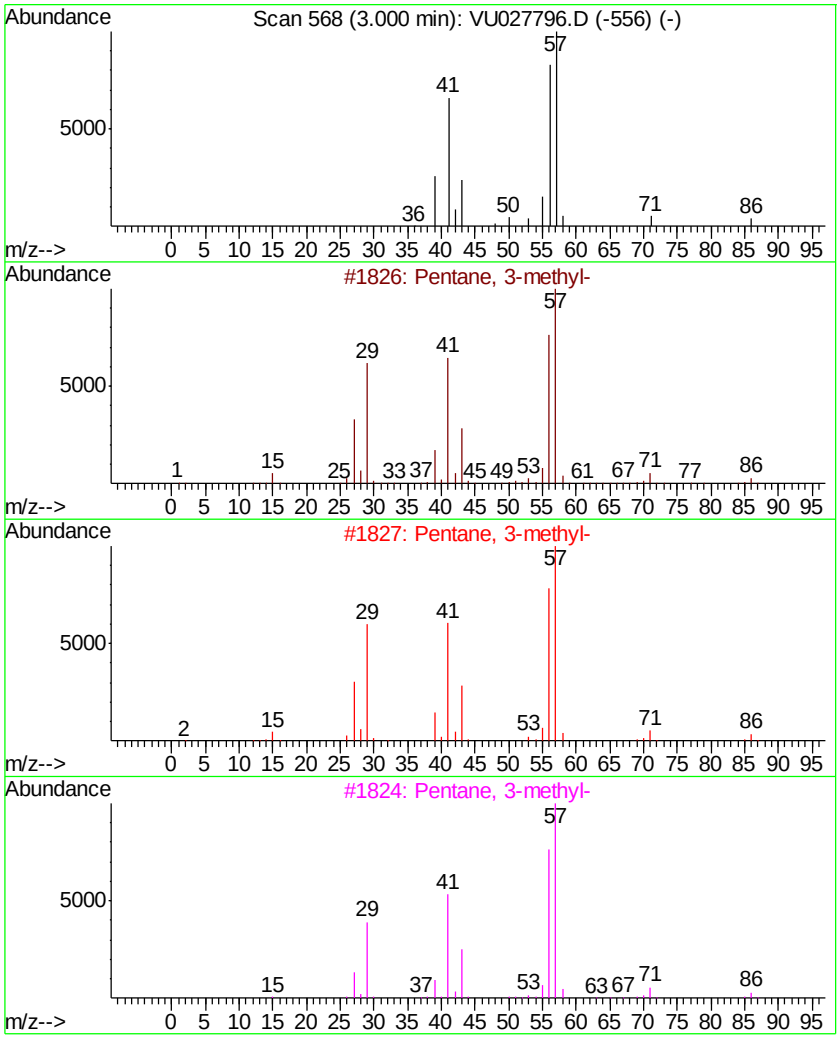
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

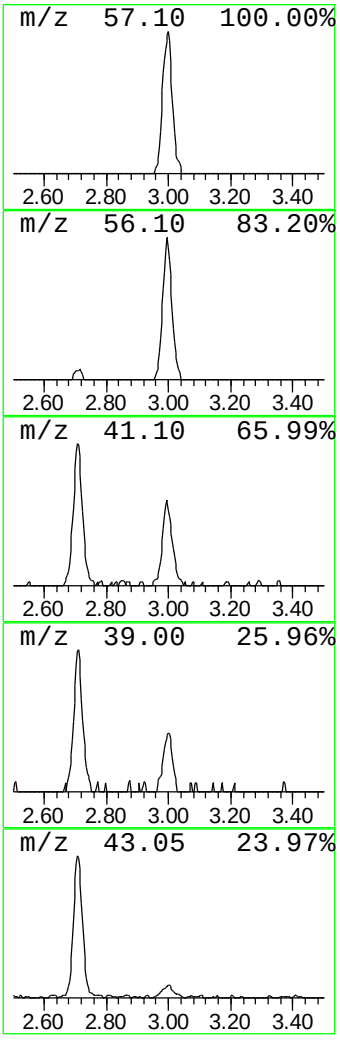
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.00	1.34 ug/L	24603	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	72
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	64
4	Sulphuric acid dibutyl ester	210	C8H18O4S	000625-22-9	40
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	39





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

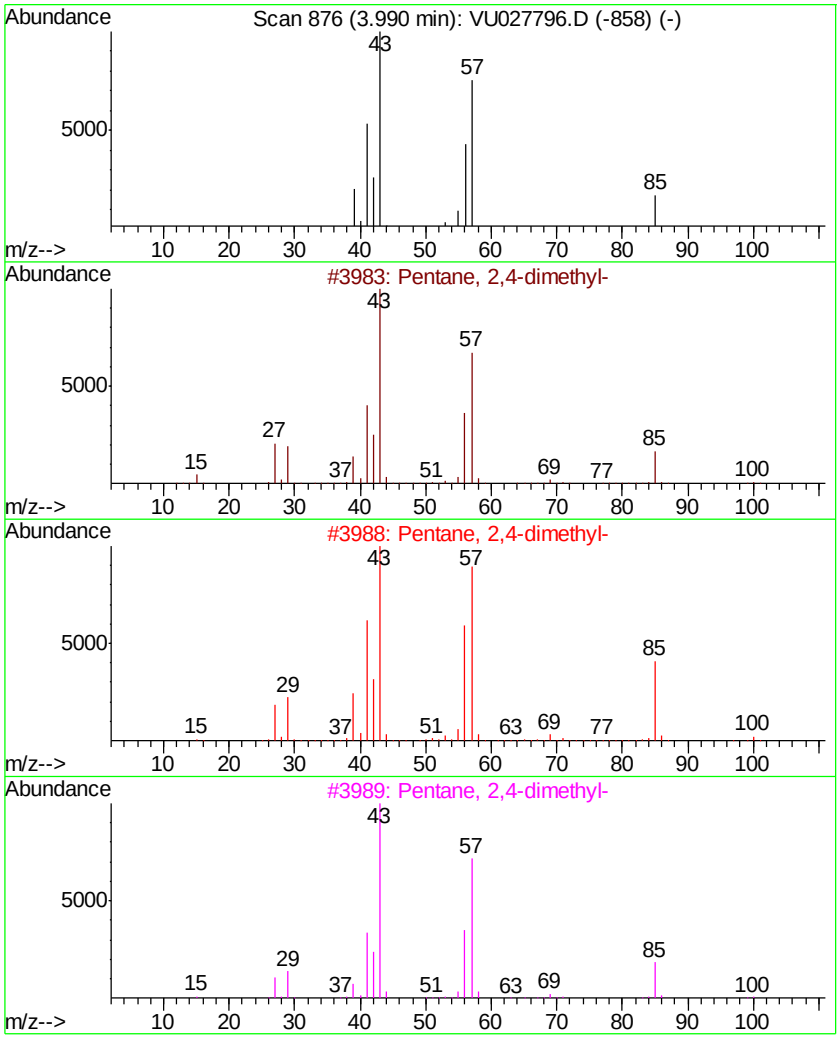
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

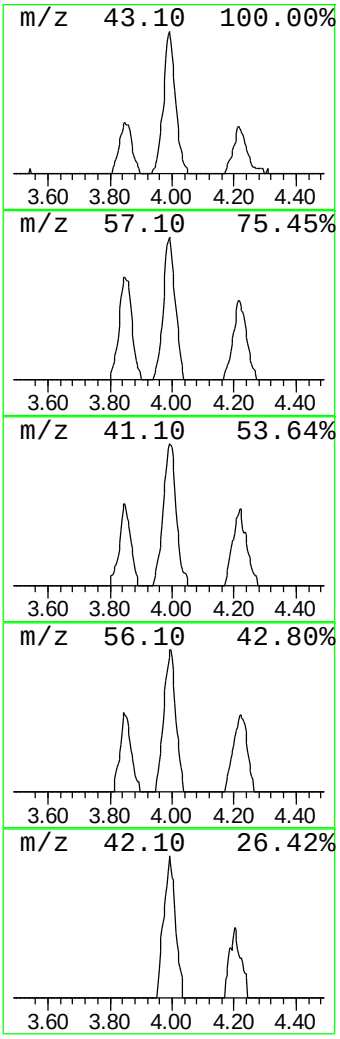
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.99	1.71 ug/L	31466	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	83
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	83
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	59
5	.alpha.-Amino-.gamma.-butyrolactone	101	C4H7NO2	001192-20-7	39





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

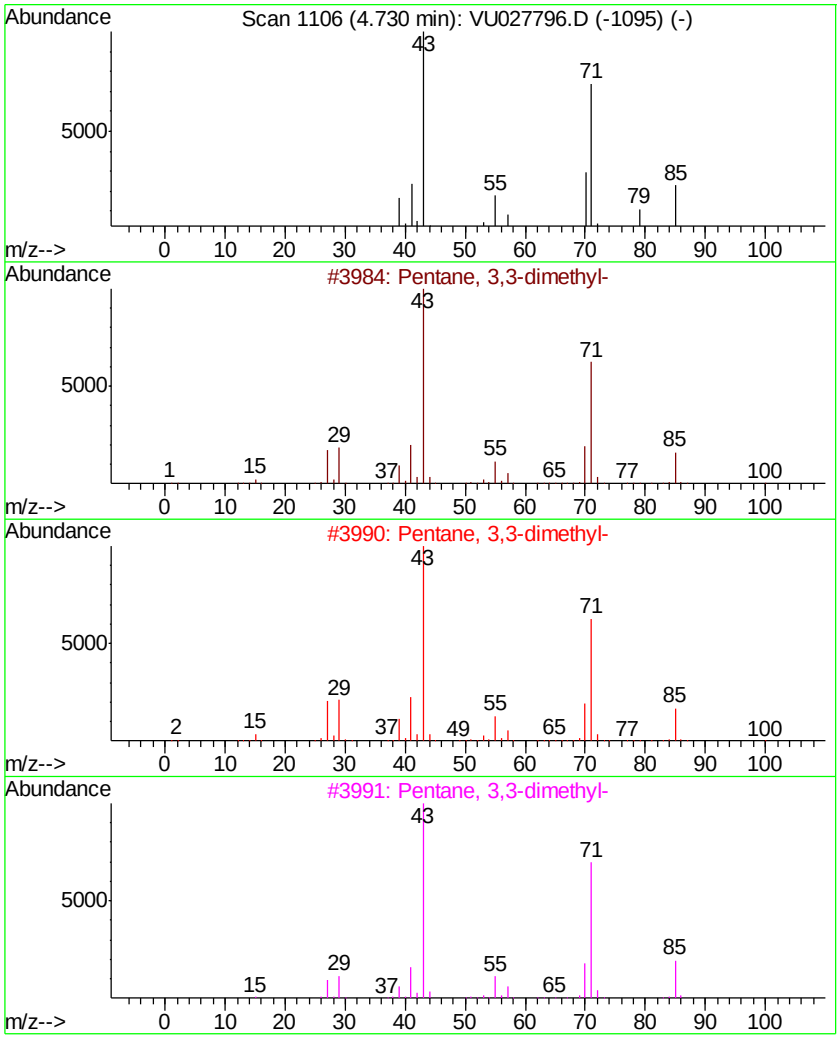
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

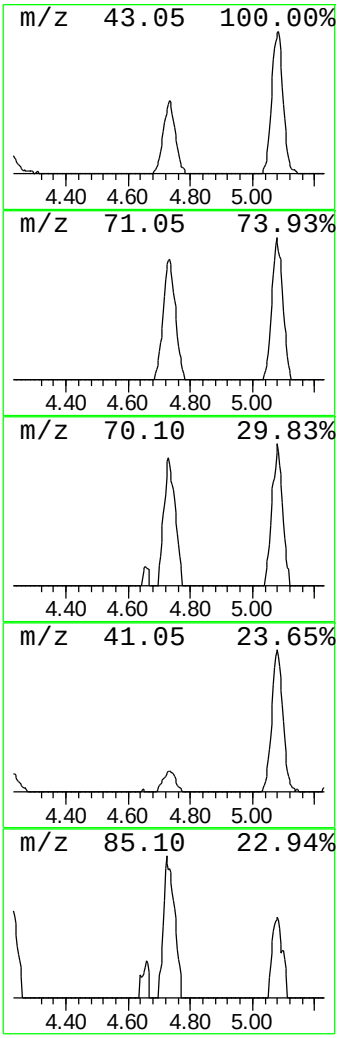
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.73	1.33 ug/L	24394	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	72
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	72
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	64
4	Borinic acid, diethyl-, methyl e...	100	C5H13BO	007397-46-8	33
5	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	33





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

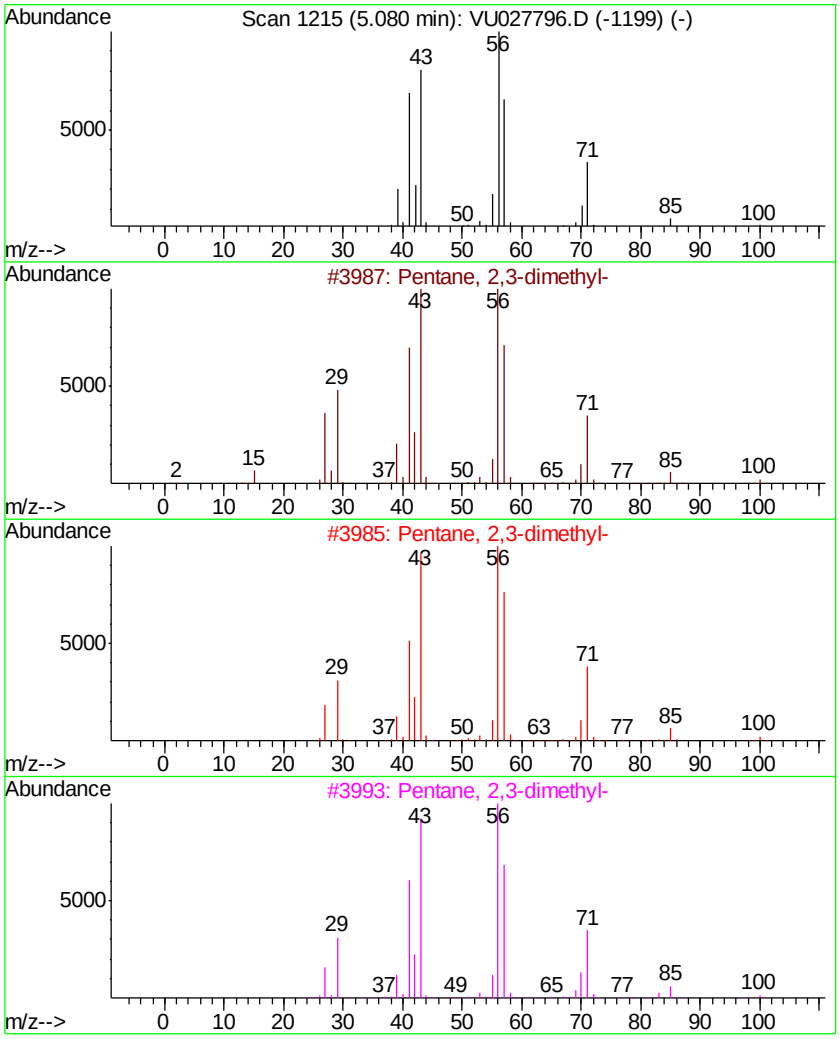
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

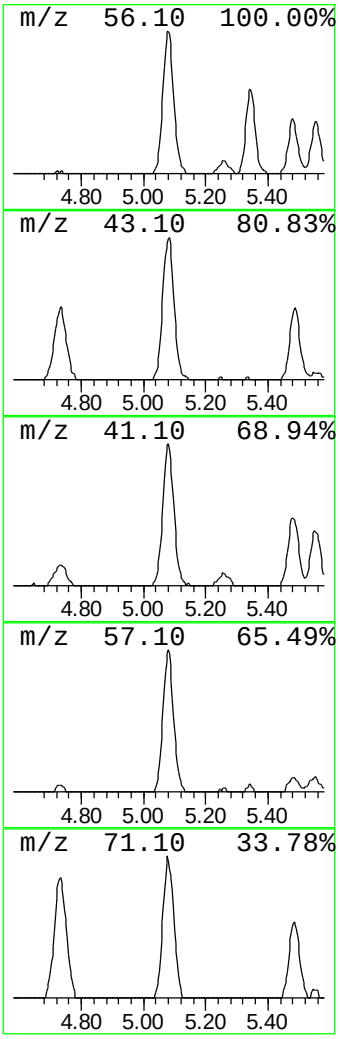
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	4.62 ug/L	84801	1,4-Difluorobenzene	5.89

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	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	68
5	Aziridine, 2-methyl-	57	C3H7N	000075-55-8	47





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

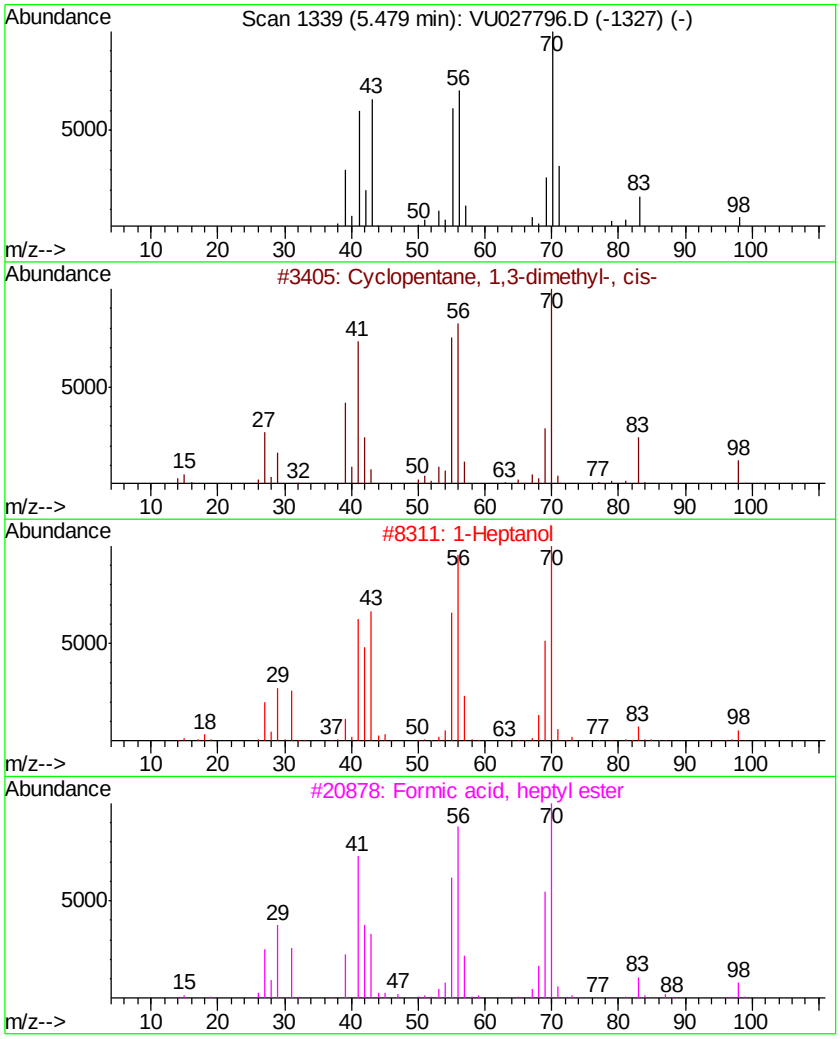
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

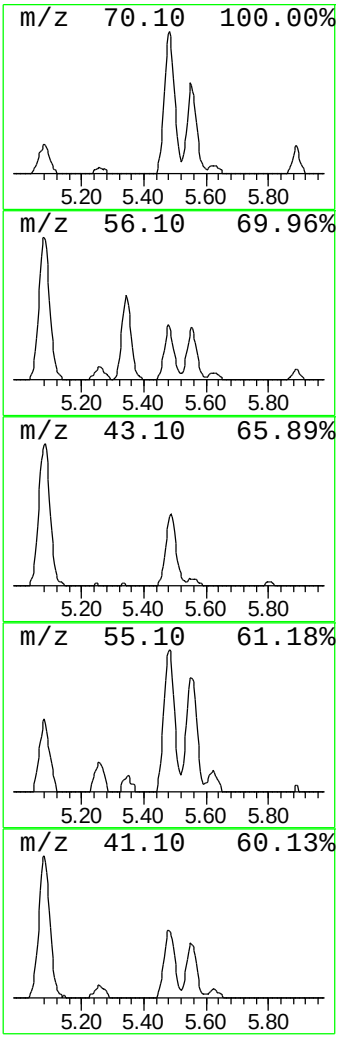
****

Peak Number 7 (DEL) Alkane: Cyclic5.48 Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.48	2.91 ug/L	53399	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	80
2	1-Heptanol	116	C7H16O	000111-70-6	64
3	Formic acid, heptyl ester	144	C8H16O2	000112-23-2	64
4	Cyclobutanone, 2,2-dimethyl-	98	C6H10O	001192-14-9	64
5	Isopropylcyclobutane	98	C7H14	000872-56-0	53





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Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

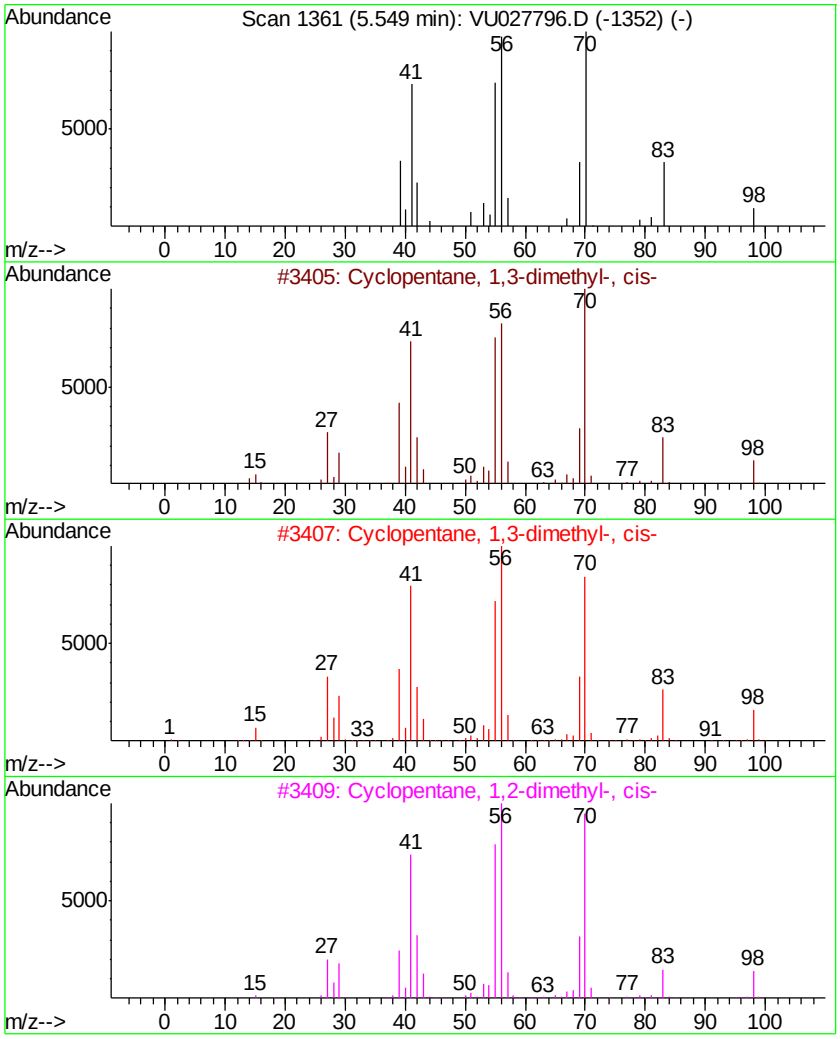
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

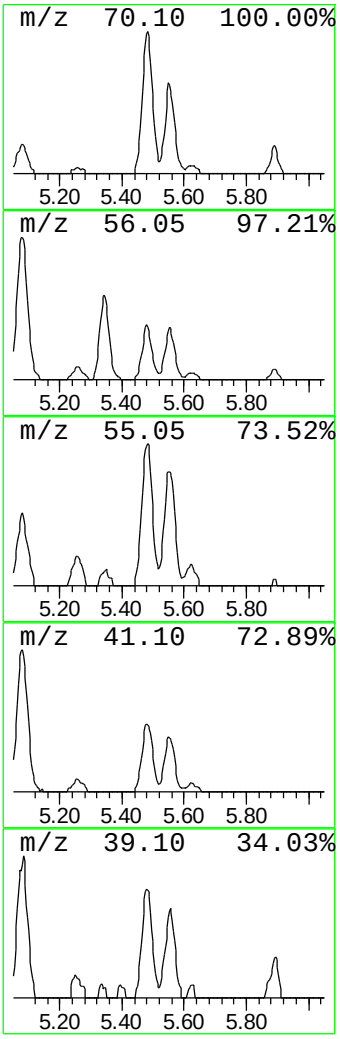
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 (DEL) Alkane: Cyclic5.55 Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	1.74 ug/L	31856	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	91
2	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
3	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	87
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	87
5	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

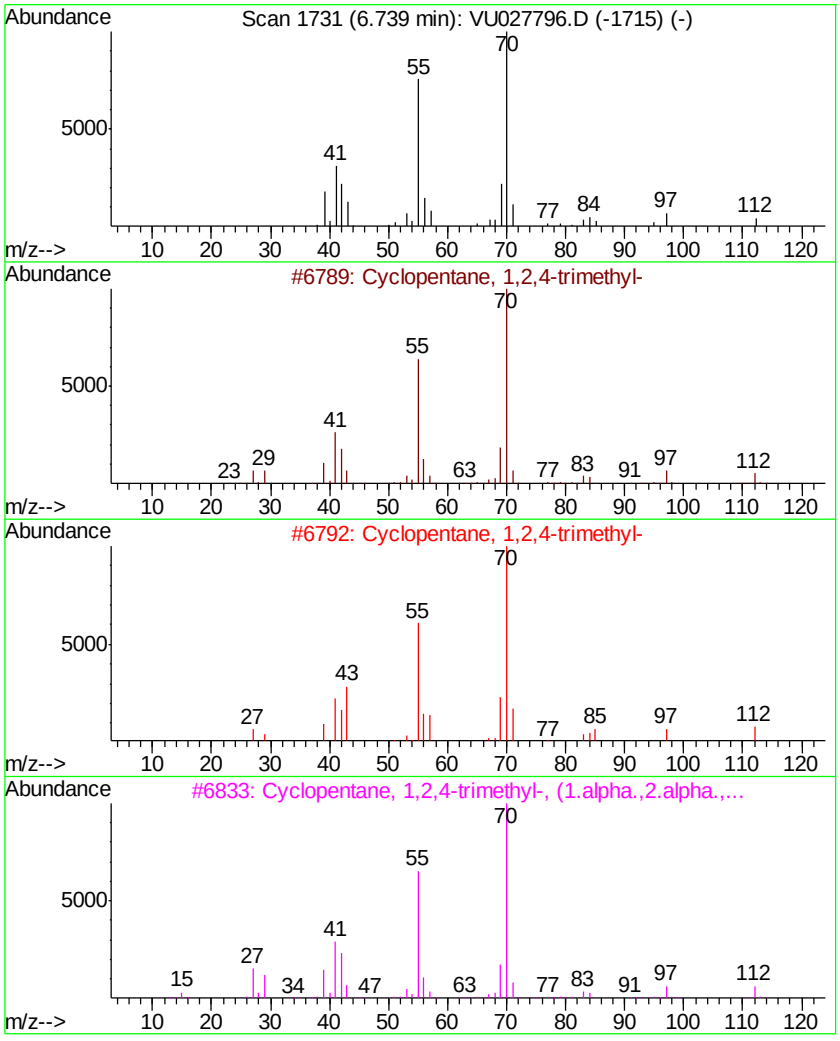
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

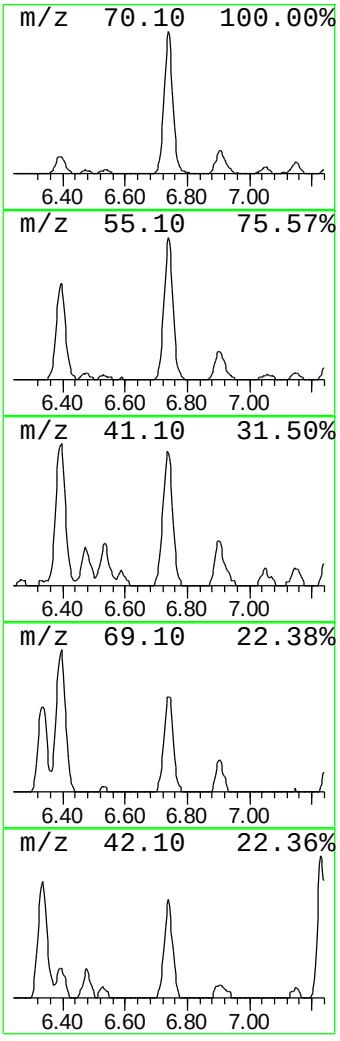
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 (DEL) Alkane: Cyclic6.74 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	4.64 ug/L	85072	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	86
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	86
4	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	80
5	Heptane, 3-methylene-	112	C8H16	001632-16-2	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

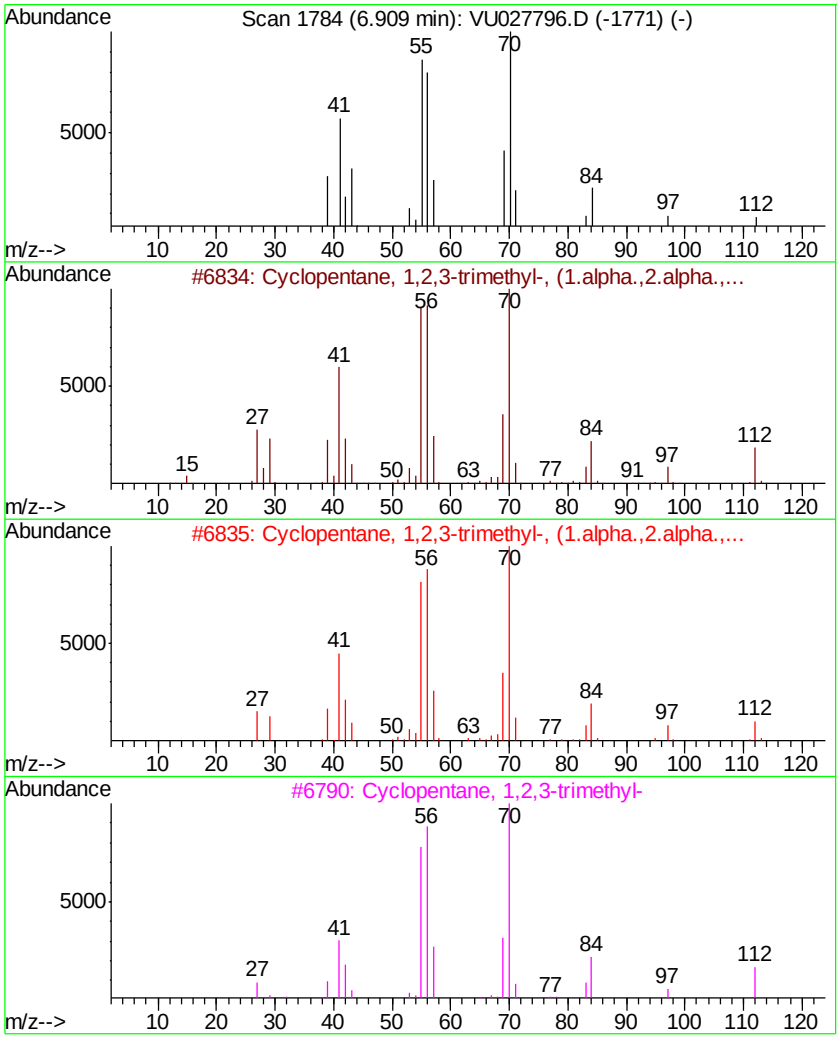
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

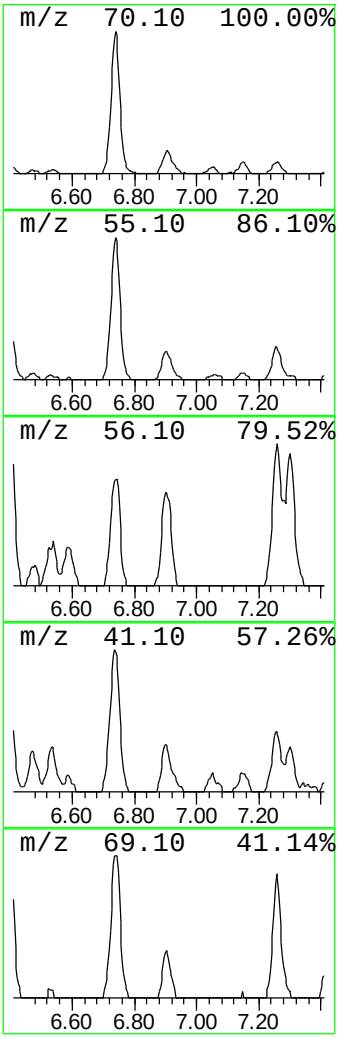
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 (DEL) Alkane: Cyclic6.91 Concentration Rank 75

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.91	1.26 ug/L	23067	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
2	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	90
3	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	87
4	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	58
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	47





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

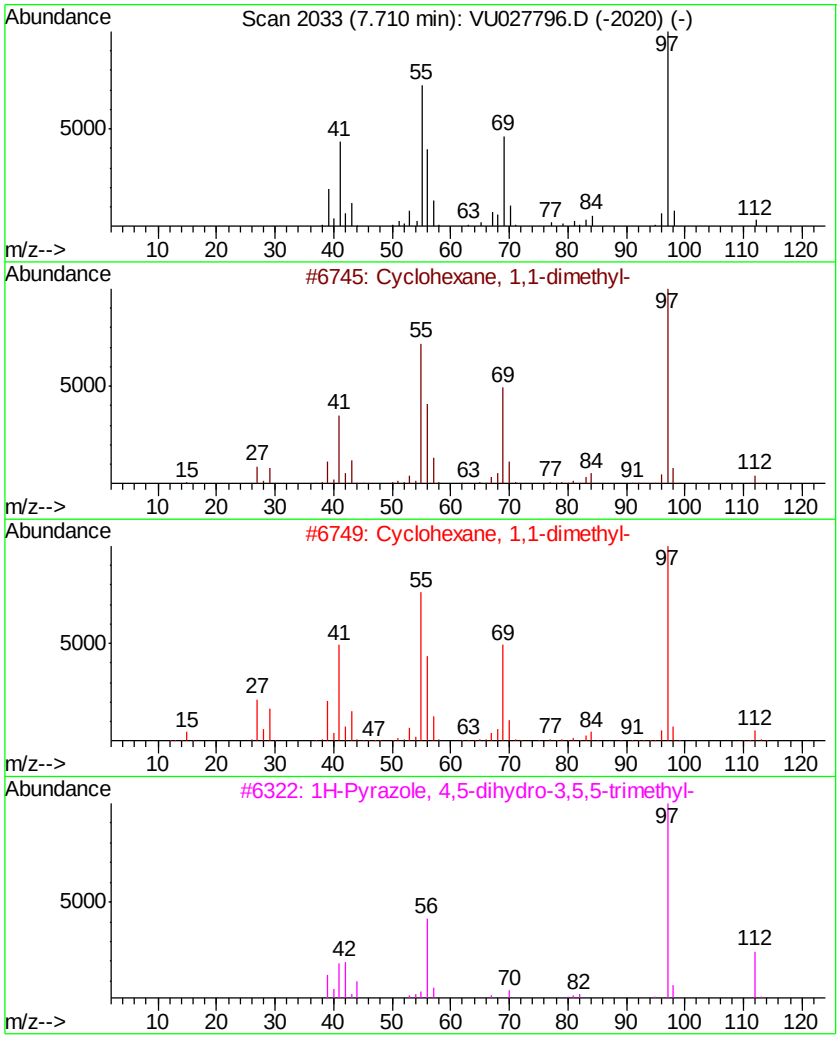
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

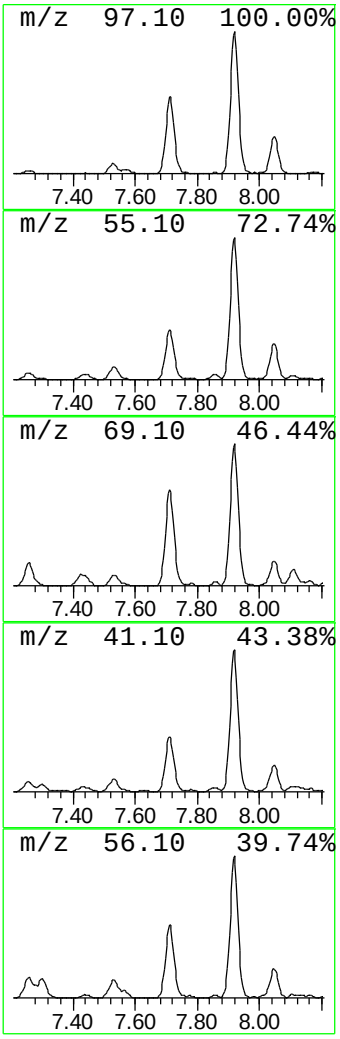
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 (DEL) Alkane: Cyclic7.71 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.71	6.38 ug/L	154883	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	94
3	1H-Pyrazole, 4,5-dihydro-3,5,5-t...	112	C6H12N2	003975-85-7	72
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	56
5	Sulfurous acid, cyclohexylmethyl...	262	C13H26O3S	1000309-21-5	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

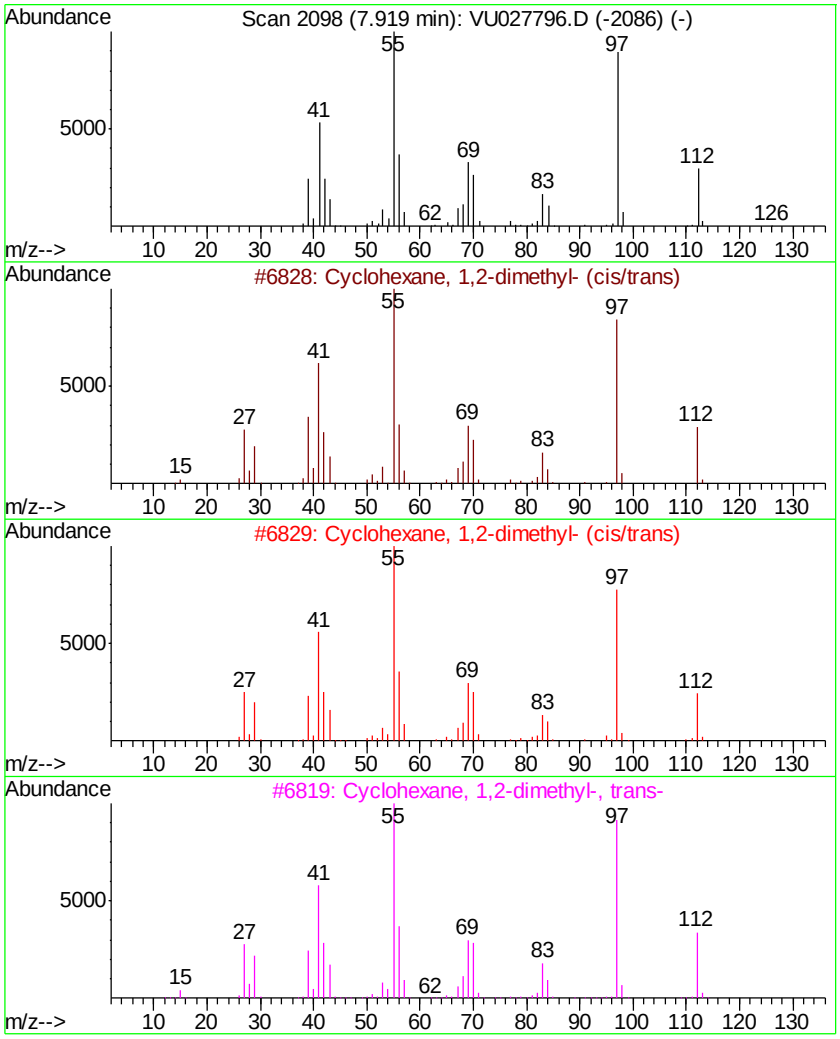
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

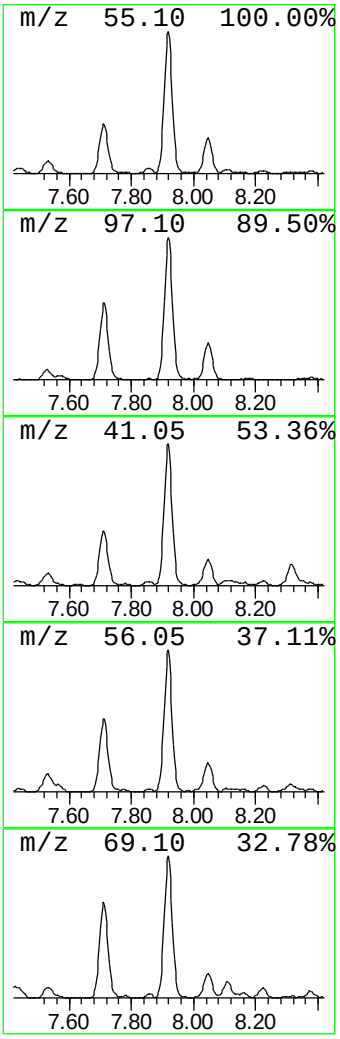
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 (DEL) Alkane: Cyclic7.92 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	15.68 ug/L	380937	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	97
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	97
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

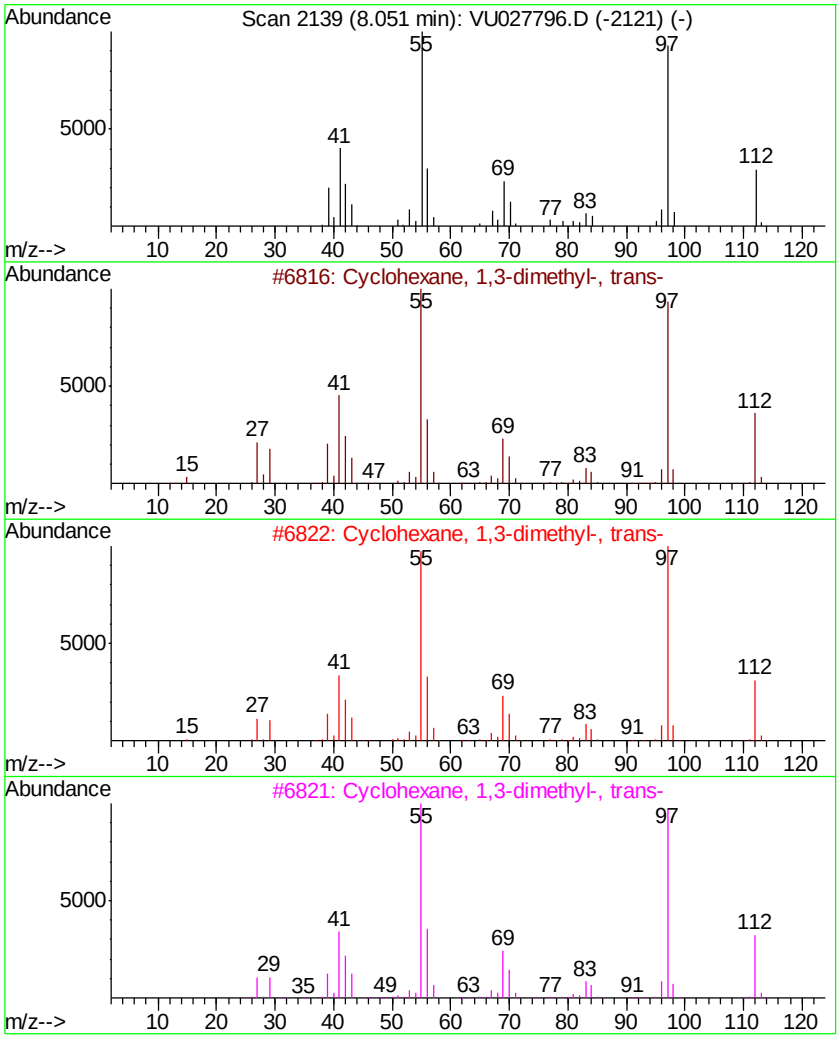
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

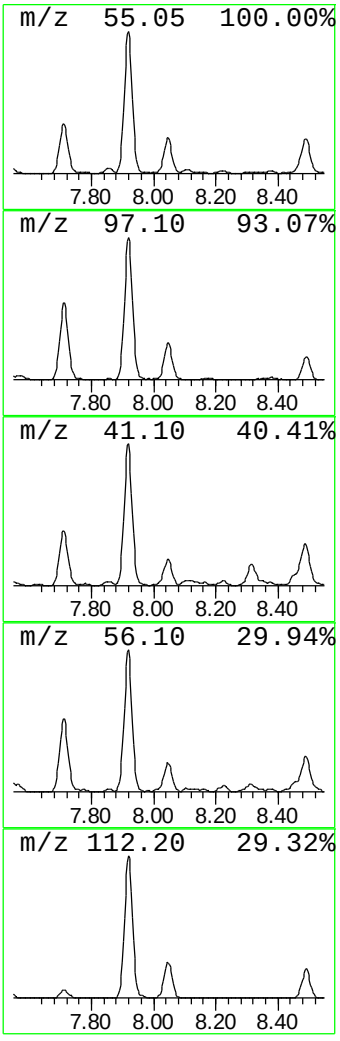
****

Peak Number 14 (DEL) Alkane: Cyclic8.05 Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.05	3.50 ug/L	85015	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	95
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	95
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	95
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	94
5	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

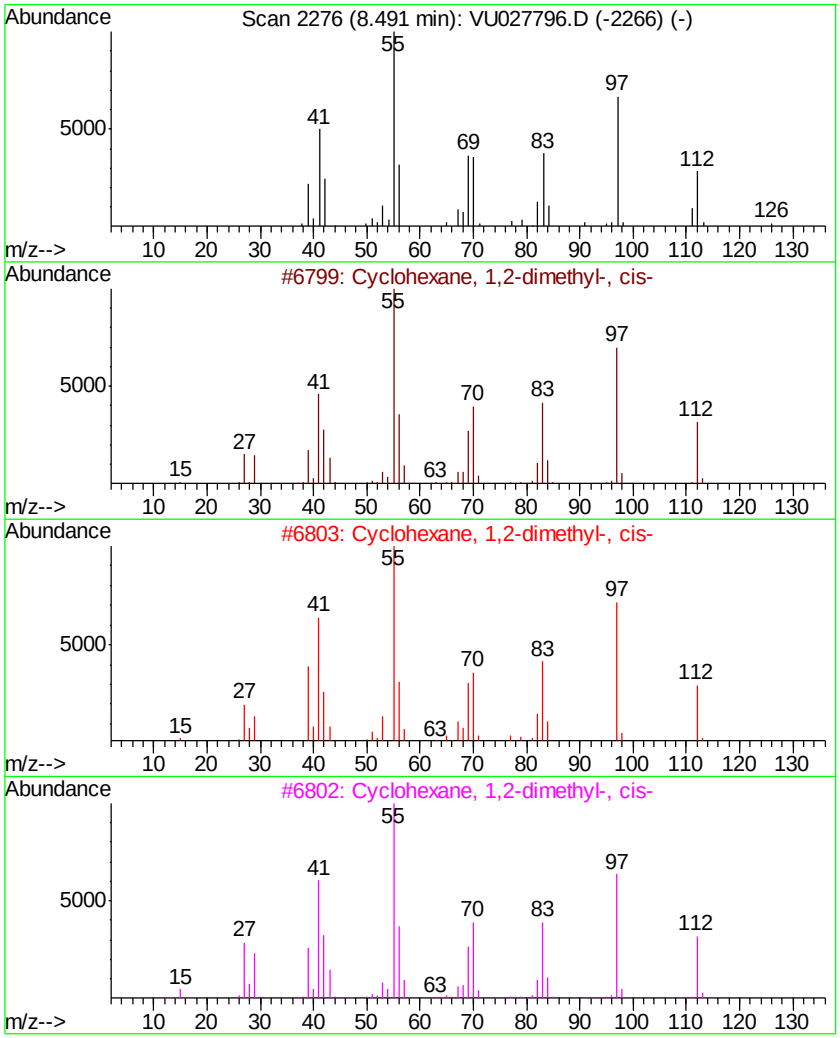
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

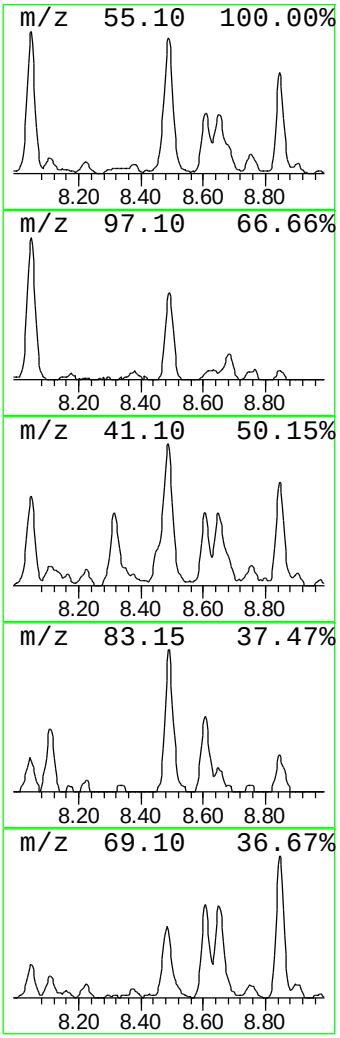
****

Peak Number 16 (DEL) Alkane: Cyclic8.49 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.49	5.06 ug/L	122834	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	94
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	94
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	94
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

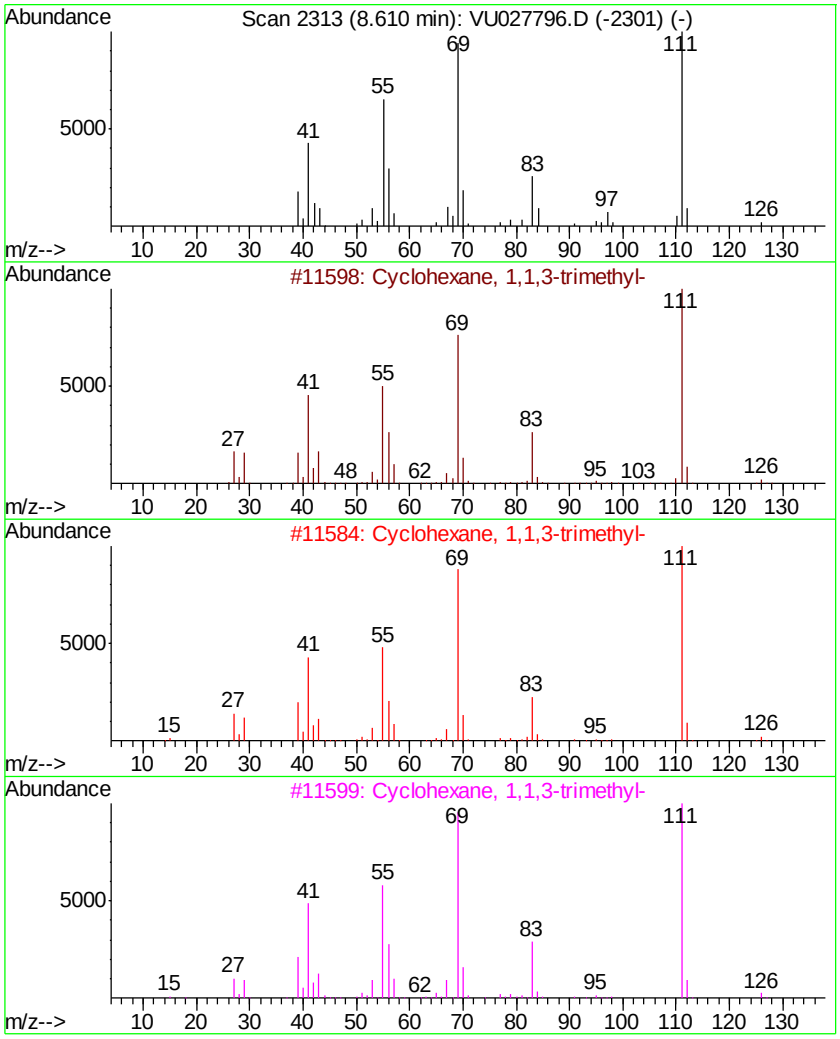
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

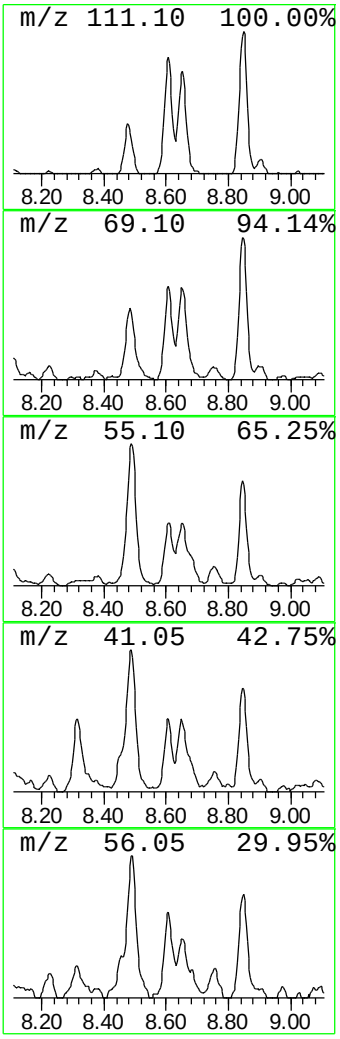
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 (DEL) Alkane: Cyclic8.61 Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.61	2.44 ug/L	59256	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	94
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	86
5	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	78





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

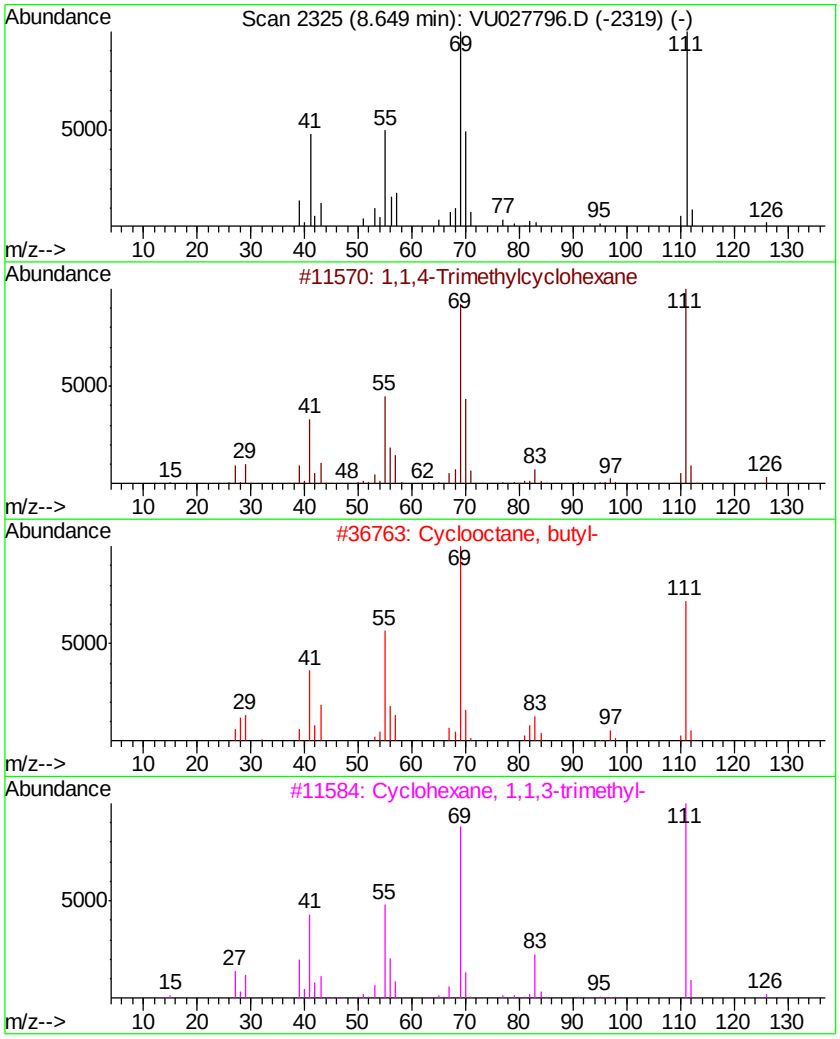
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

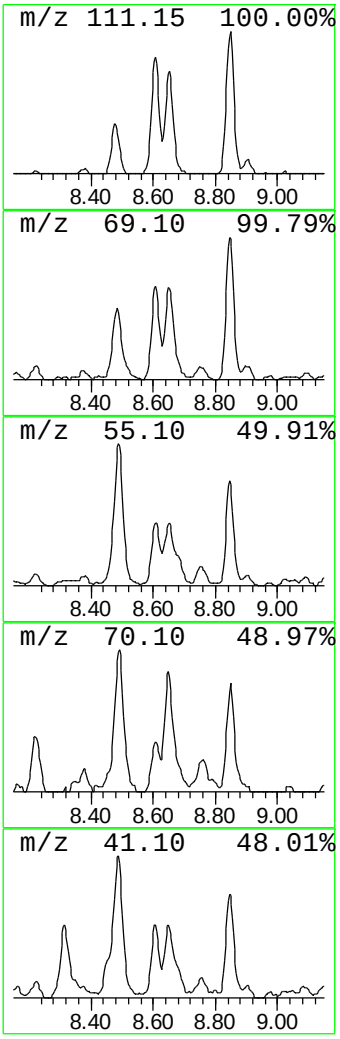
****

Peak Number 18 (DEL) Alkane: Cyclic8.65 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.65	3.12 ug/L	75783	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	91
2	Cyclooctane, butyl-	168	C12H24	016538-93-5	72
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	68
4	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	64
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

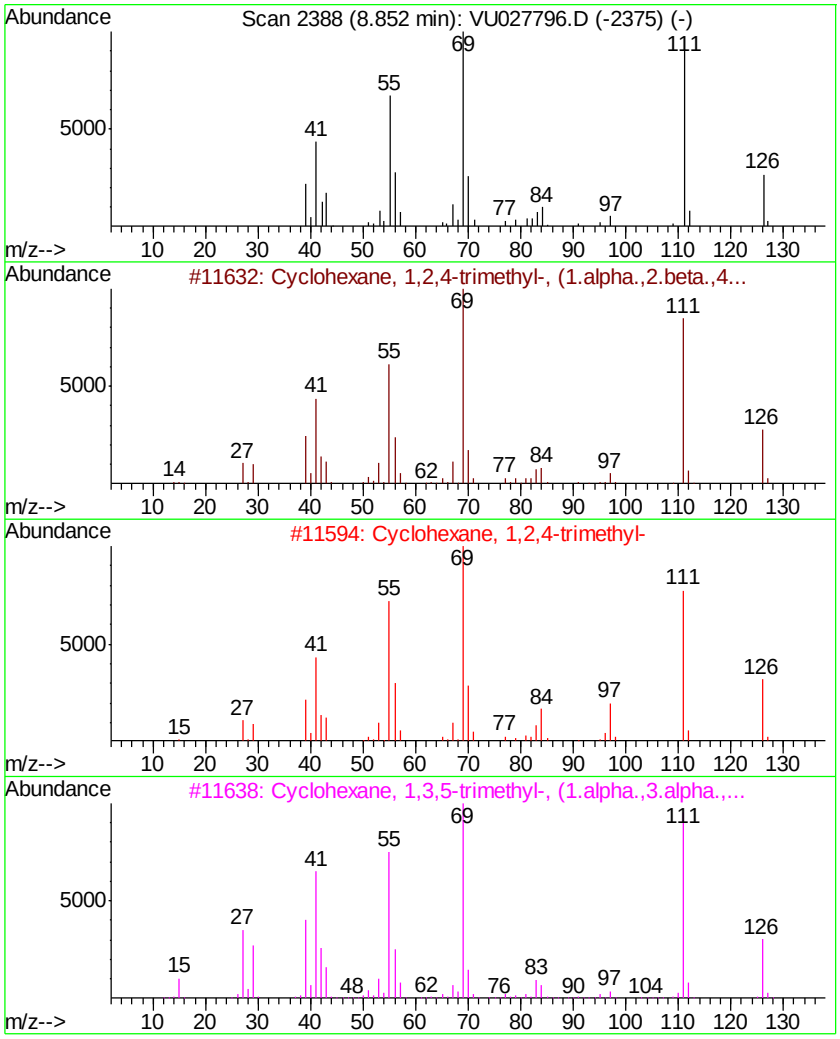
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

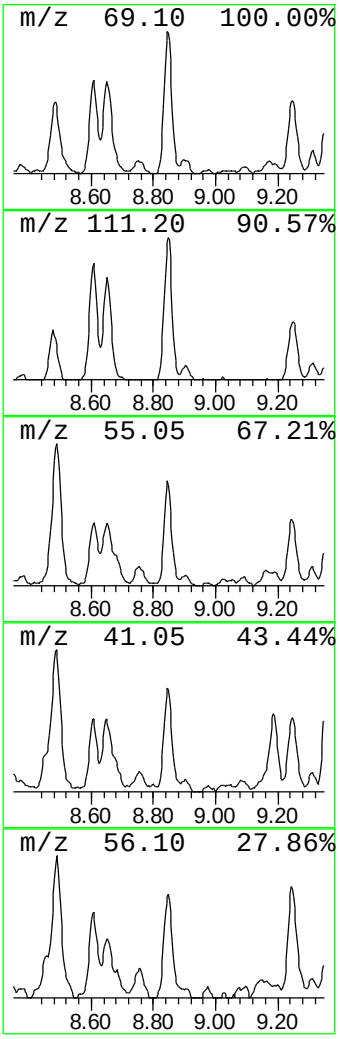
****

Peak Number 19 (DEL) Alkane: Cyclic8.85 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.85	3.60 ug/L	87404	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	95
2	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	94
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	90
4	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	90
5	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	87





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Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

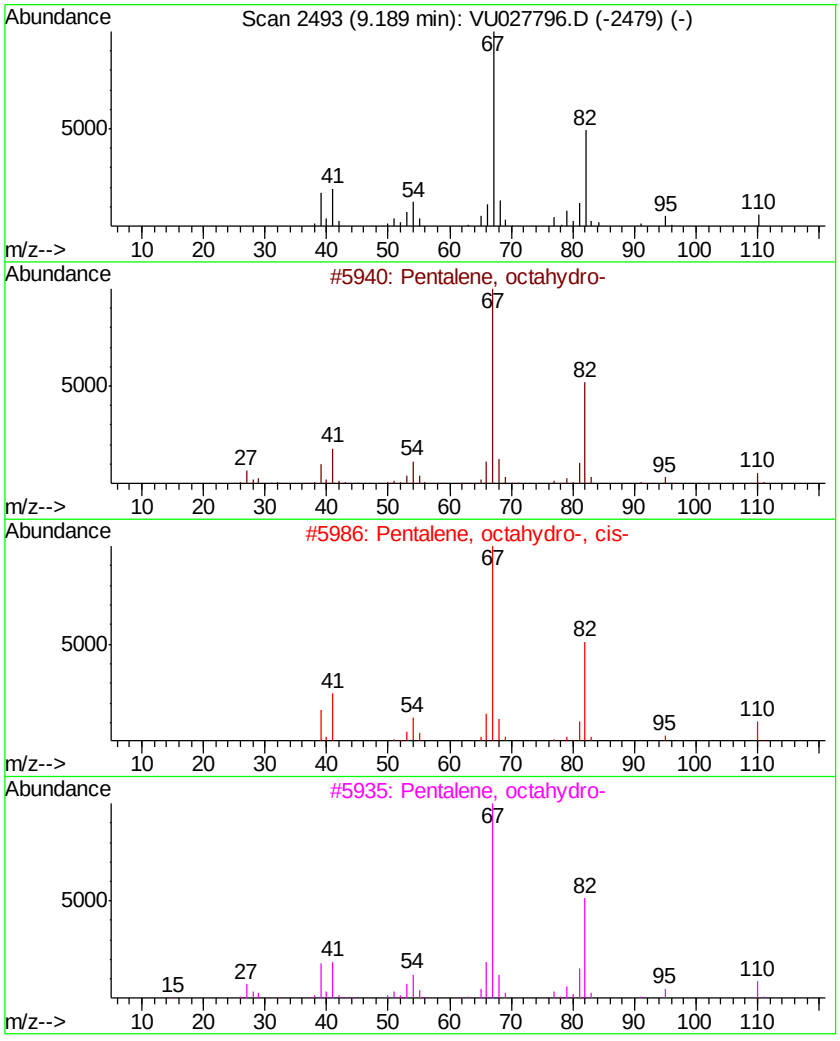
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

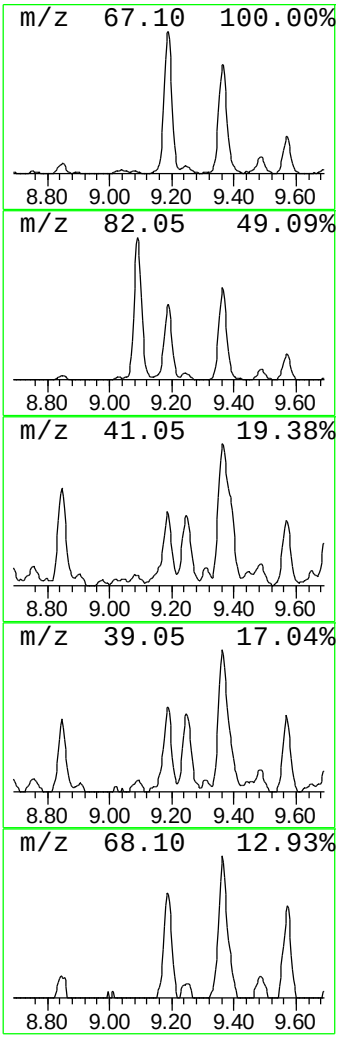
****

Peak Number 20 Pentalene, octahydro- Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.19	3.02 ug/L	73486	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-	110	C8H14	000694-72-4	87
4	2,4-Hexadiene, (E,E)-	82	C6H10	005194-51-4	72
5	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

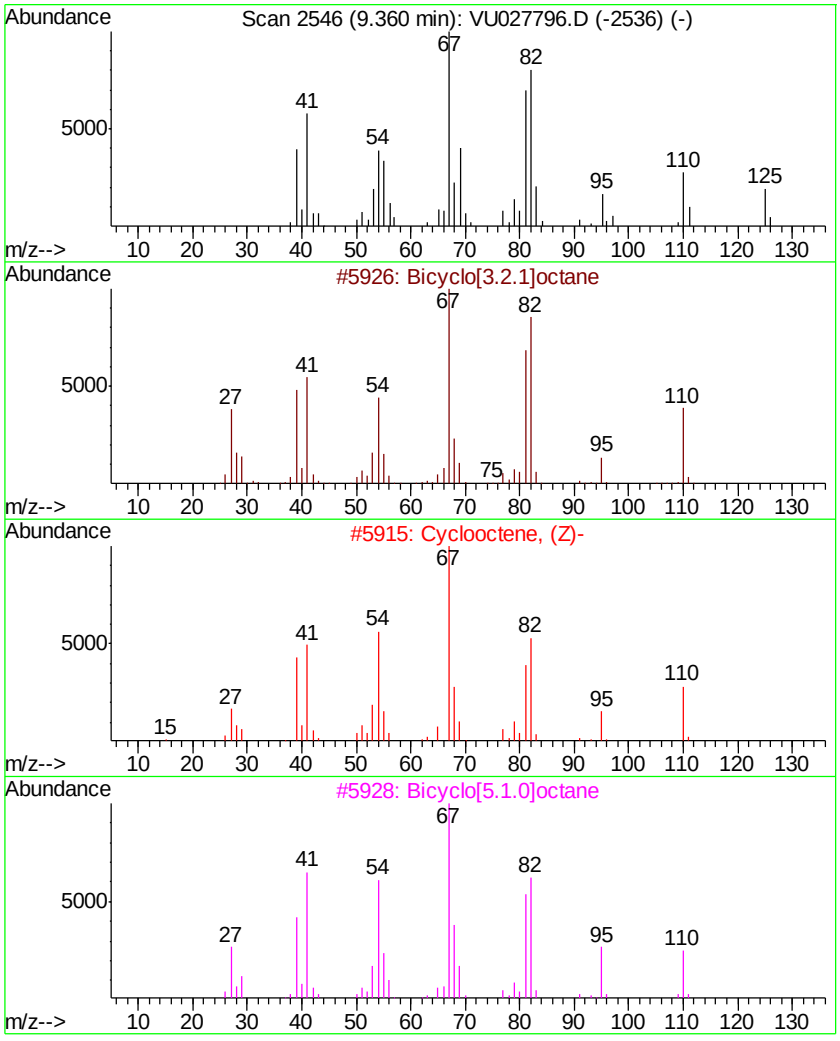
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

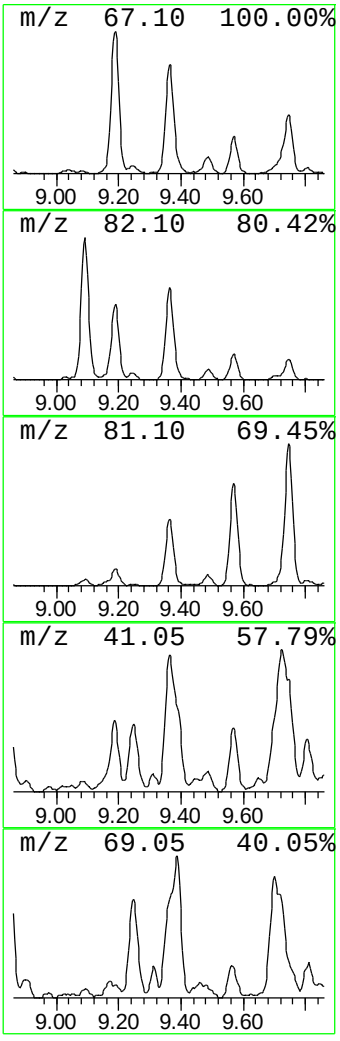
****

Peak Number 21 Bicyclo[3.2.1]octane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	8.14 ug/L	197748	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	Cyclooctene, (Z)-	110	C8H14	000931-87-3	58
3	Bicyclo[5.1.0]octane	110	C8H14	000286-43-1	58
4	Bicyclo[2.2.1]heptane, 2-methyl-	110	C8H14	015185-11-2	52
5	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

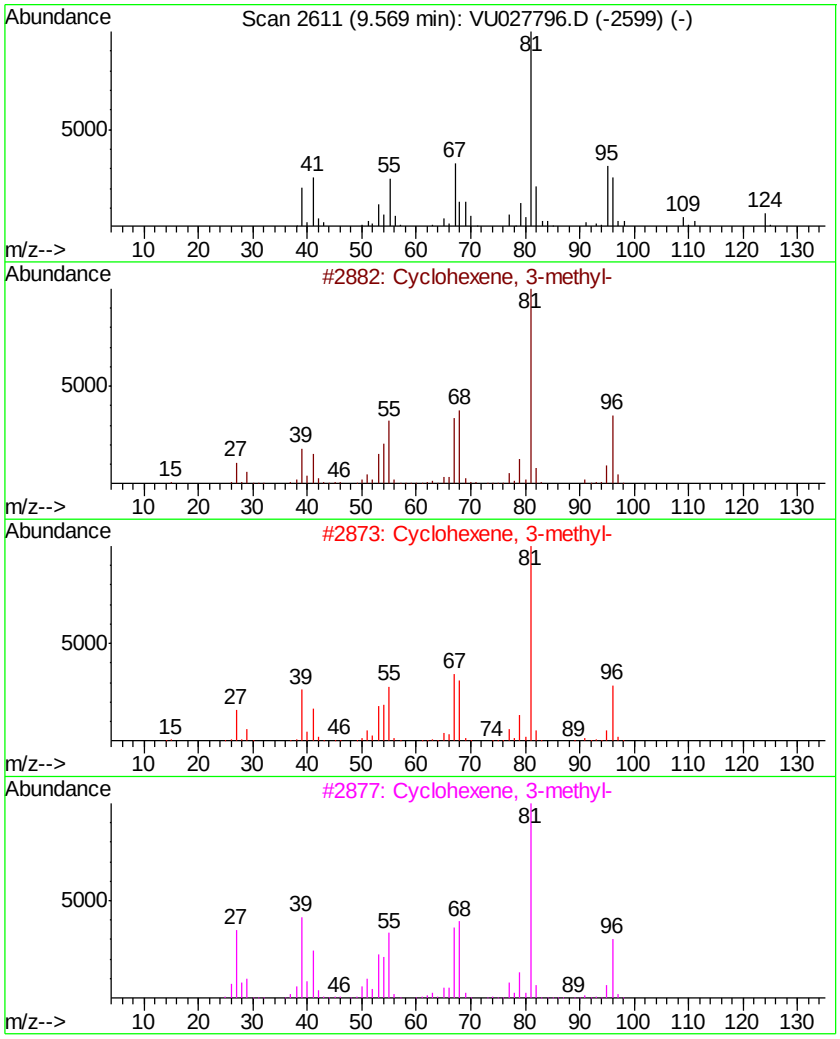
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

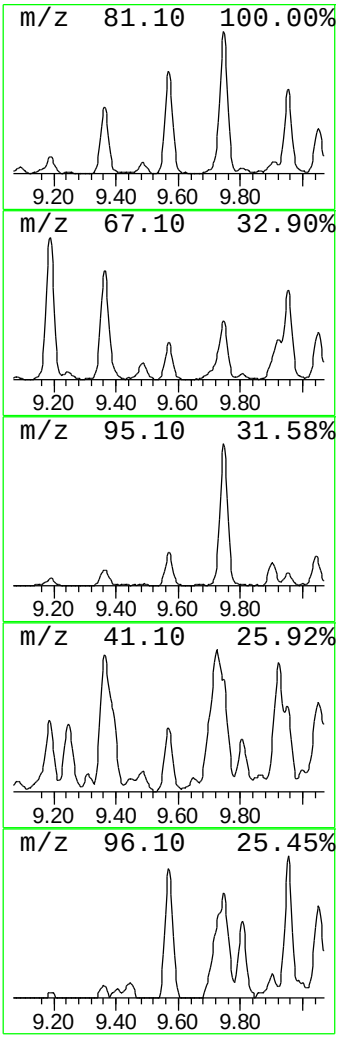
****

Peak Number 22 Cyclohexene, 3-methyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	3.65 ug/L	88728	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	62
2	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	58
3	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	53
4	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	53
5	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

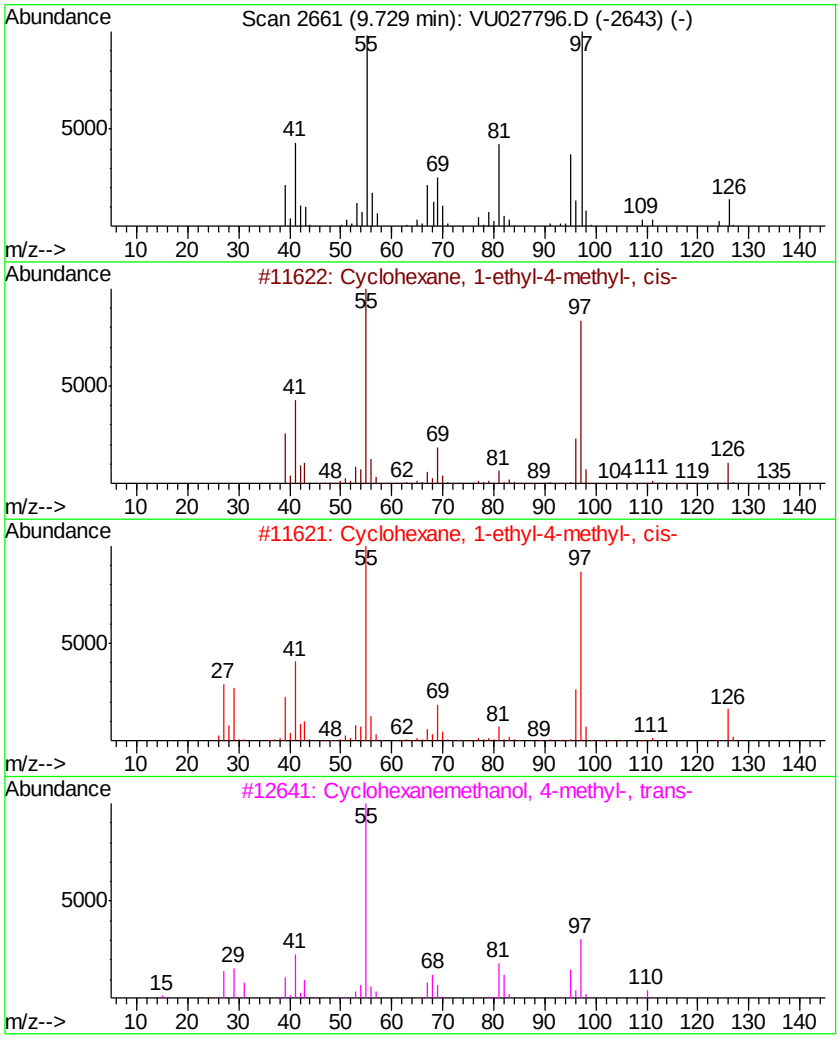
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

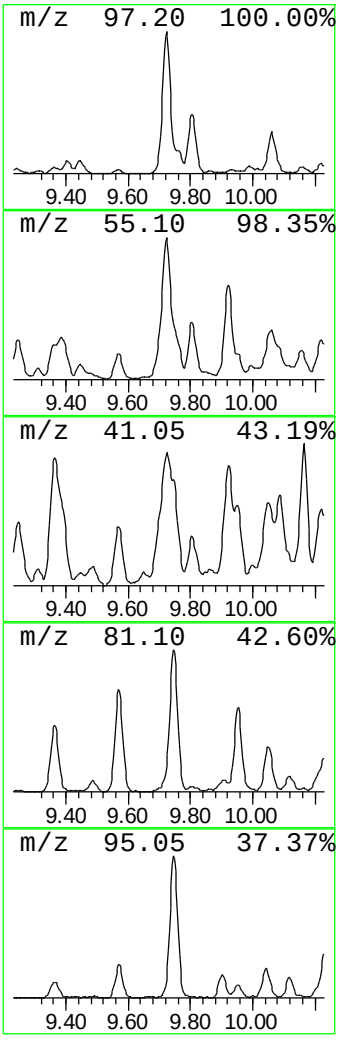
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Cyclic9.73 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.73	6.27 ug/L	152316	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	64
2	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	62
3	Cyclohexanemethanol, 4-methyl-, ...	128	C8H16O	003937-49-3	59
4	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	53
5	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

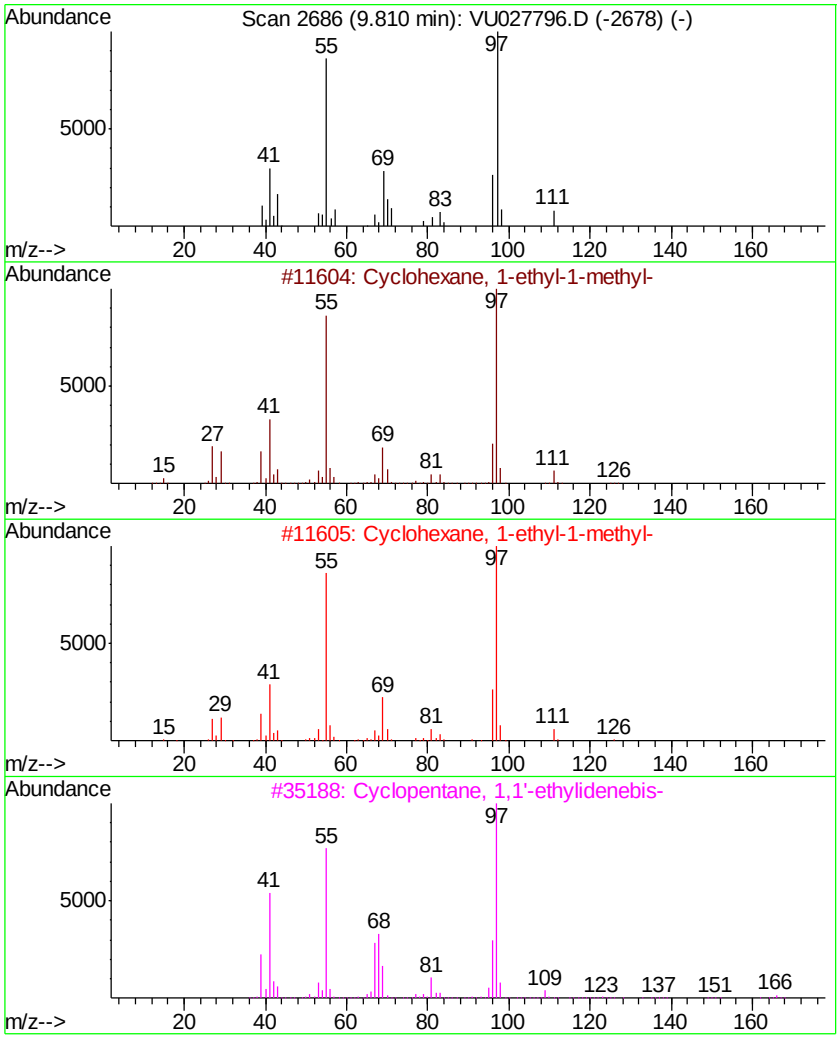
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

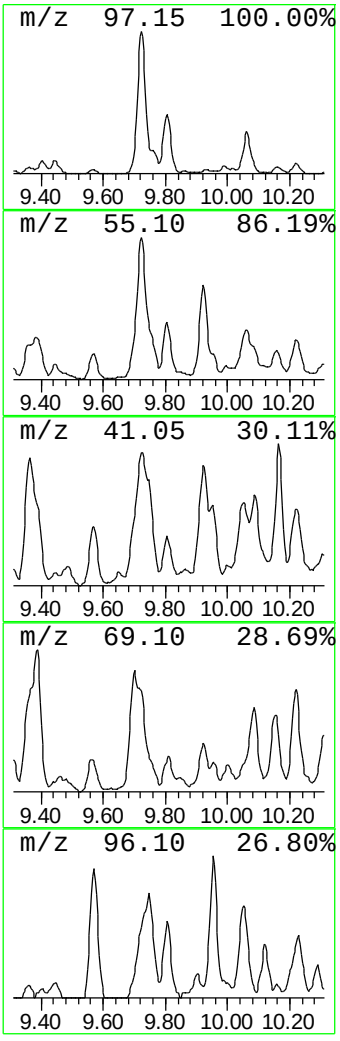
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 (DEL) Alkane: Cyclic9.81 Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.81	1.64 ug/L	39800	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	90
2	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	72
3	Cyclopentane, 1,1'-ethylidenebis-	166	C12H22	004413-21-2	64
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	64
5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

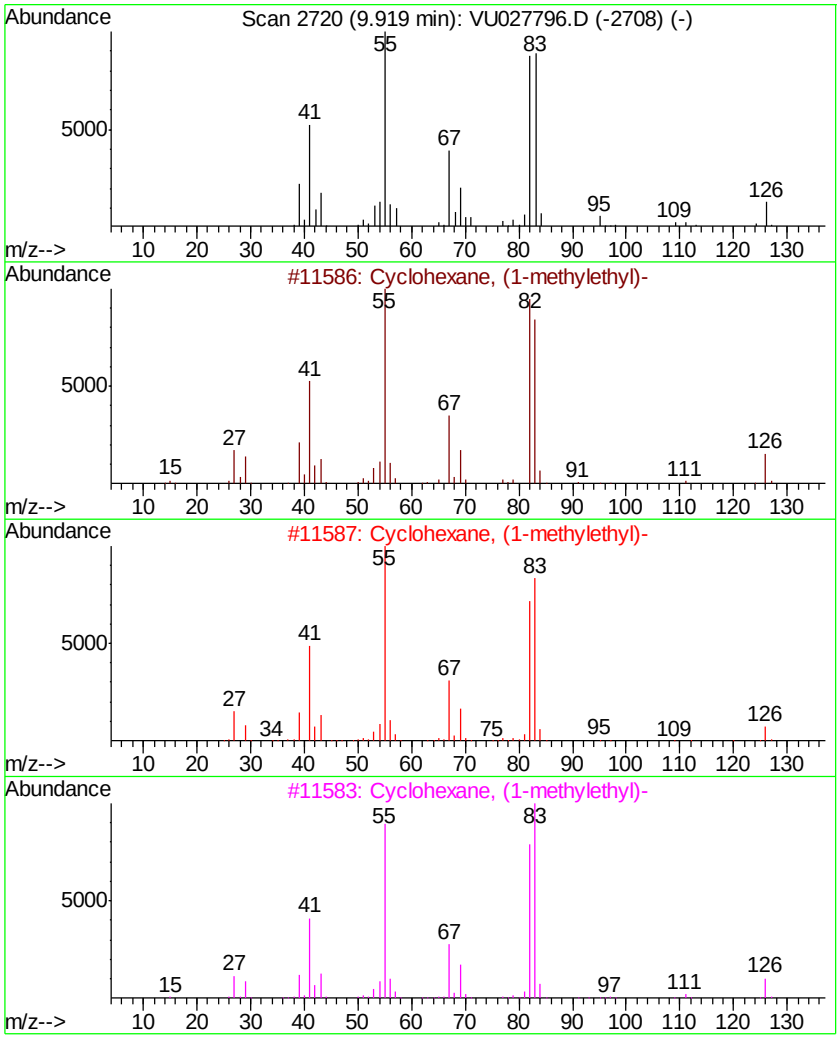
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

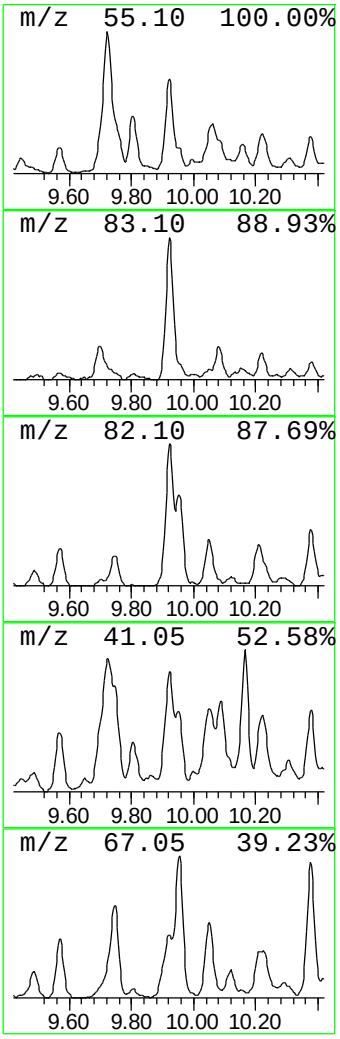
****

Peak Number 25 (DEL) Alkane: Cyclic9.92 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.92	4.56 ug/L	110803	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	94
2	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	94
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	94
4	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	91
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	87





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

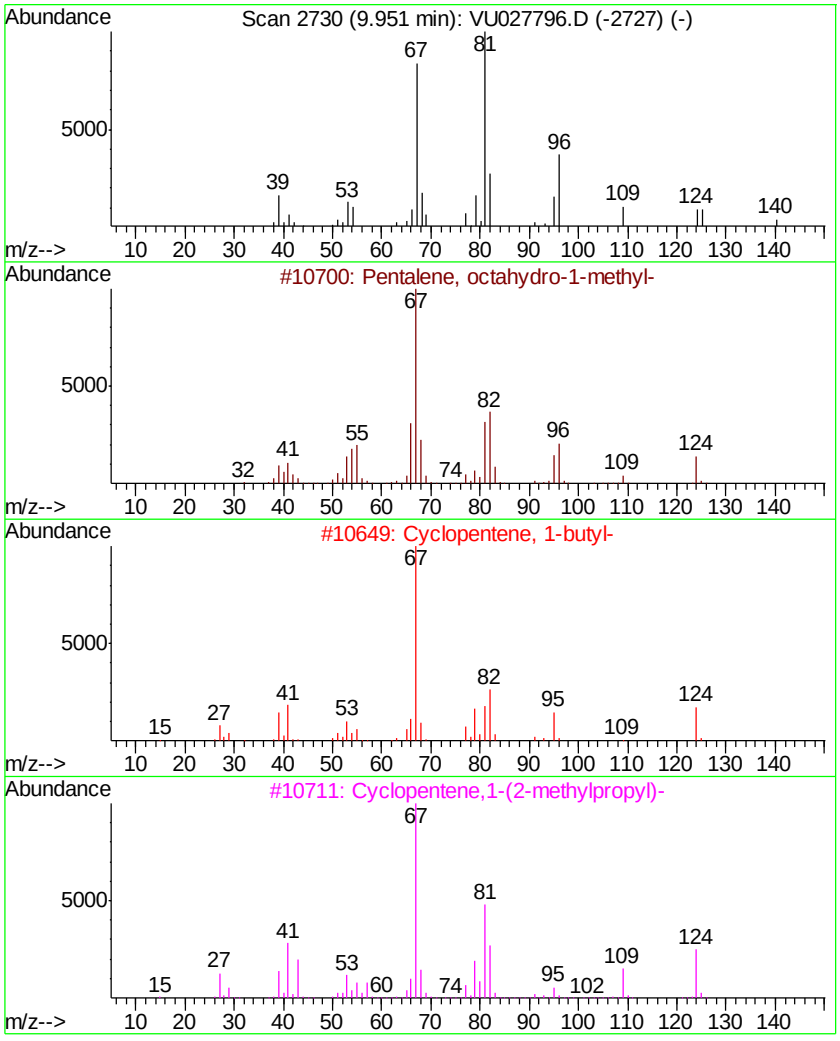
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

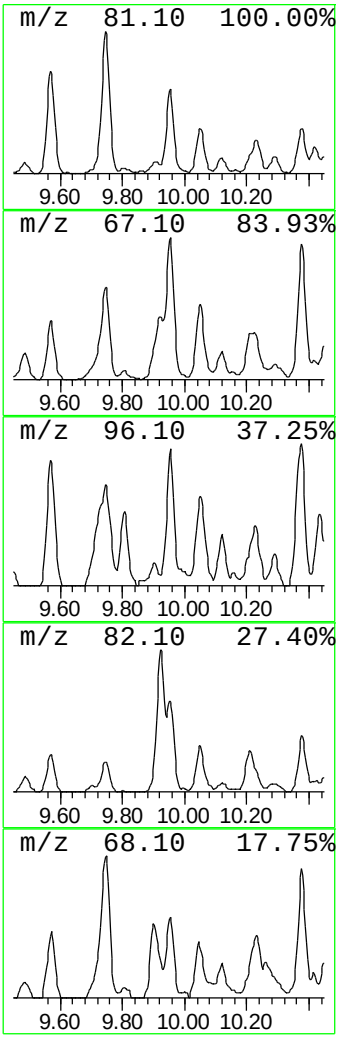
****

Peak Number 26 unknown-01 Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	2.82 ug/L	68587	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-1-methyl-	124	C9H16	032273-77-1	46
2	Cyclopentene, 1-butyl-	124	C9H16	002423-01-0	46
3	Cyclopentene,1-(2-methylpropyl)-	124	C9H16	053098-47-8	43
4	3-Octyne, 2-methyl-	124	C9H16	055402-15-8	38
5	2,4-Octadienal, (E,E)-	124	C8H12O	030361-28-5	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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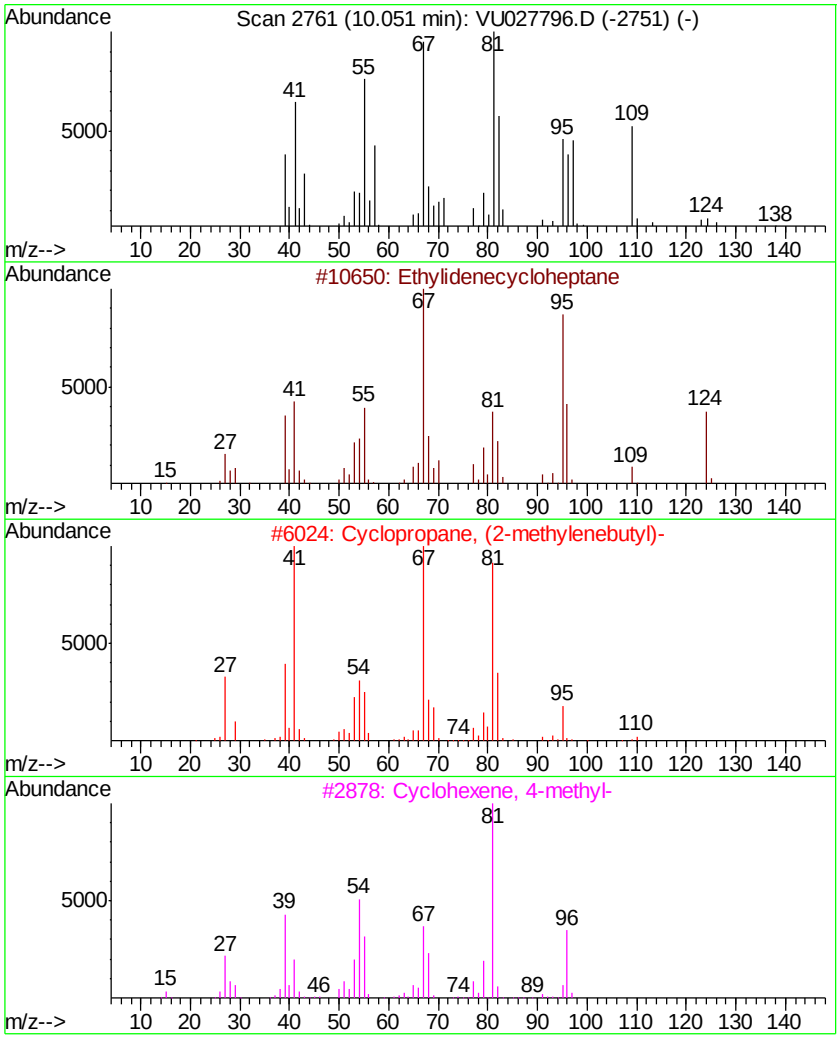
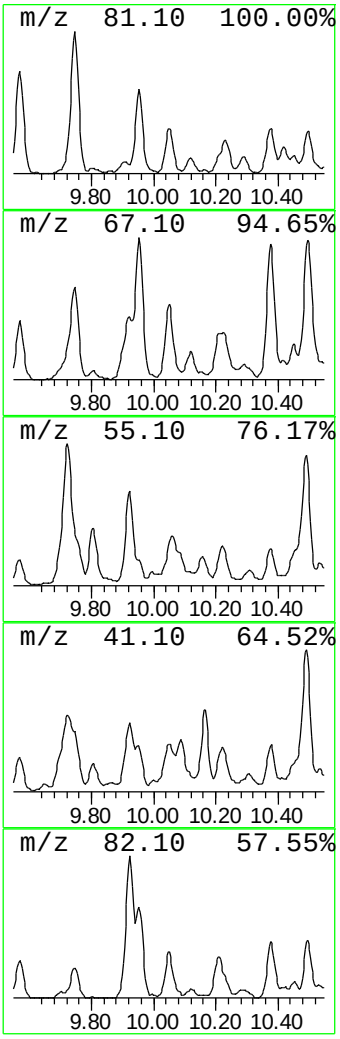
Peak Number 27 Ethylidenecycloheptane Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.05	3.65 ug/L	88733	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylidenecycloheptane	124	C9H16	010494-87-8	50
2	Cyclopropane, (2-methylenebutyl)-	110	C8H14	074685-56-6	49
3	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	46
4	Bicyclo[4.1.0]heptane	96	C7H12	000286-08-8	43
5	3-Oxatricyclo[4.2.0.0(2,4)]octan...	124	C7H8O2	1000211-18-1	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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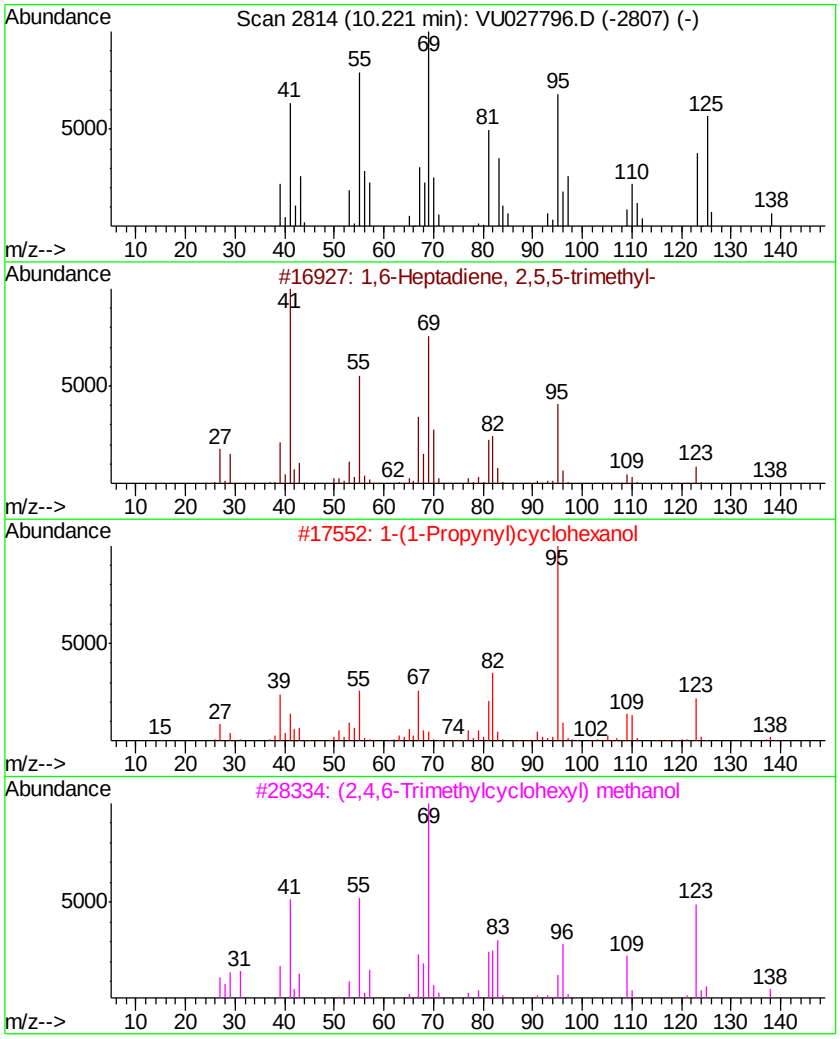
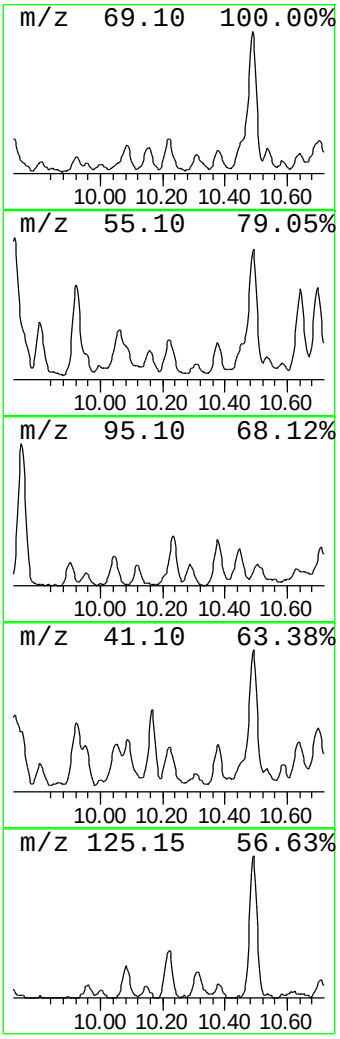
Peak Number 28 unknown-02 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	3.48 ug/L	84637	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,6-Heptadiene, 2,5,5-trimethyl-	138	C10H18	062238-28-2	38
2	1-(1-Propynyl)cyclohexanol	138	C9H14O	000697-37-0	35
3	(2,4,6-Trimethylcyclohexyl) meth...	156	C10H20O	013702-56-2	32
4	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	000473-55-2	30
5	Furan, 2-ethyl-5-methyl-	110	C7H10O	001703-52-2	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

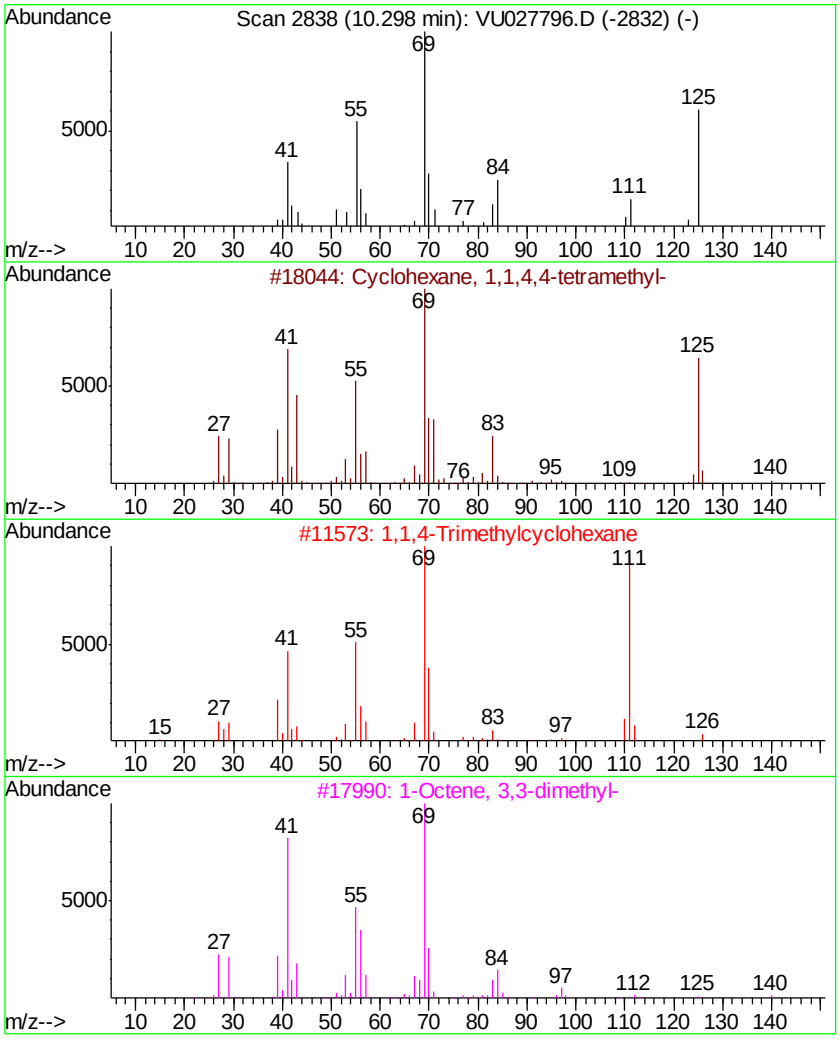
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

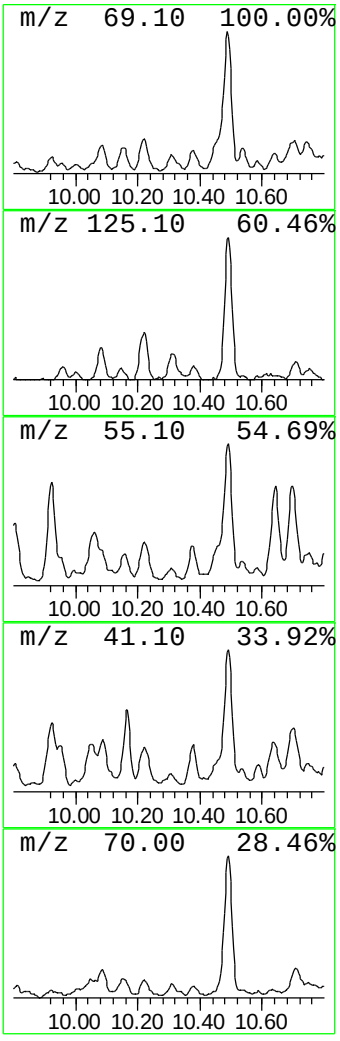
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 29 (DEL) Alkane: Cyclic10.30 Concentration Rank 78

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.30	1.00 ug/L	24208	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,4,4-tetramethyl-	140	C10H20	002223-52-1	45
2	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	43
3	1-Octene, 3,3-dimethyl-	140	C10H20	074511-51-6	43
4	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	40
5	2-Octene, 4-ethyl-	140	C10H20	053966-52-2	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

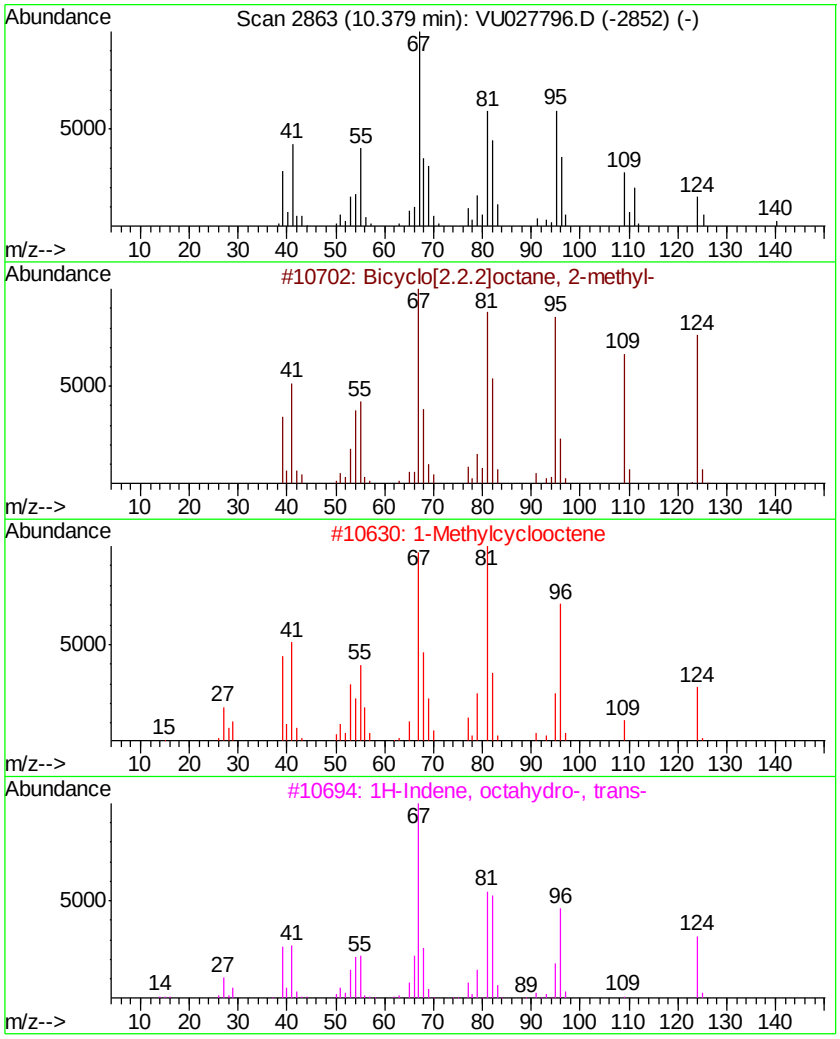
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

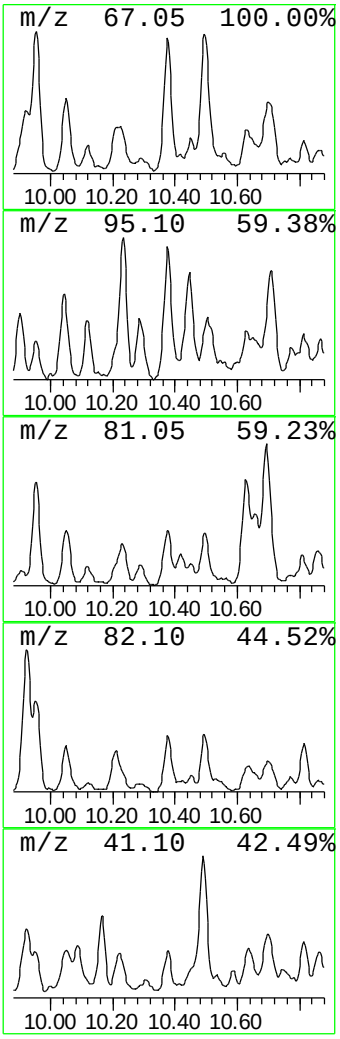
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 30 Bicyclo[2.2.2]octane, 2-met... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.38	4.11 ug/L	99850	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.2]octane, 2-methyl-	124	C9H16	000766-53-0	87
2	1-Methylcyclooctene	124	C9H16	000933-11-9	86
3	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	58
4	Cyclooctene, 3-methyl-	124	C9H16	013152-05-1	53
5	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

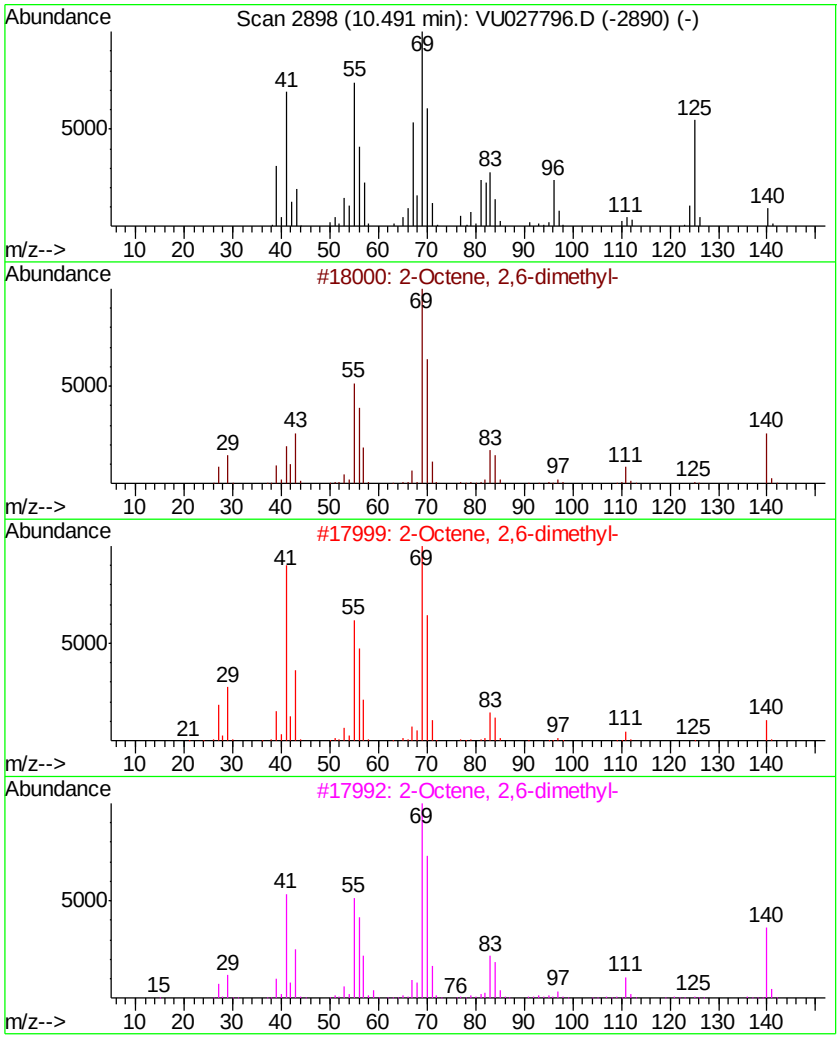
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

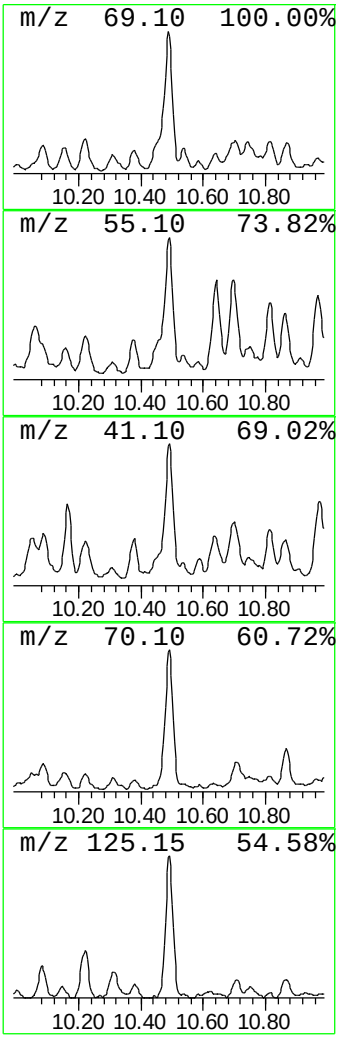
****

Peak Number 31 (DEL) Alkane: Cyclic10.49 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	8.37 ug/L	203407	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	60
2	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	53
3	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	53
4	4-Nonene, 3-methyl-, (Z)-	140	C10H20	063830-69-3	52
5	4-Octene, 2,6-dimethyl-, [S-(Z)]-	140	C10H20	062960-77-4	49





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

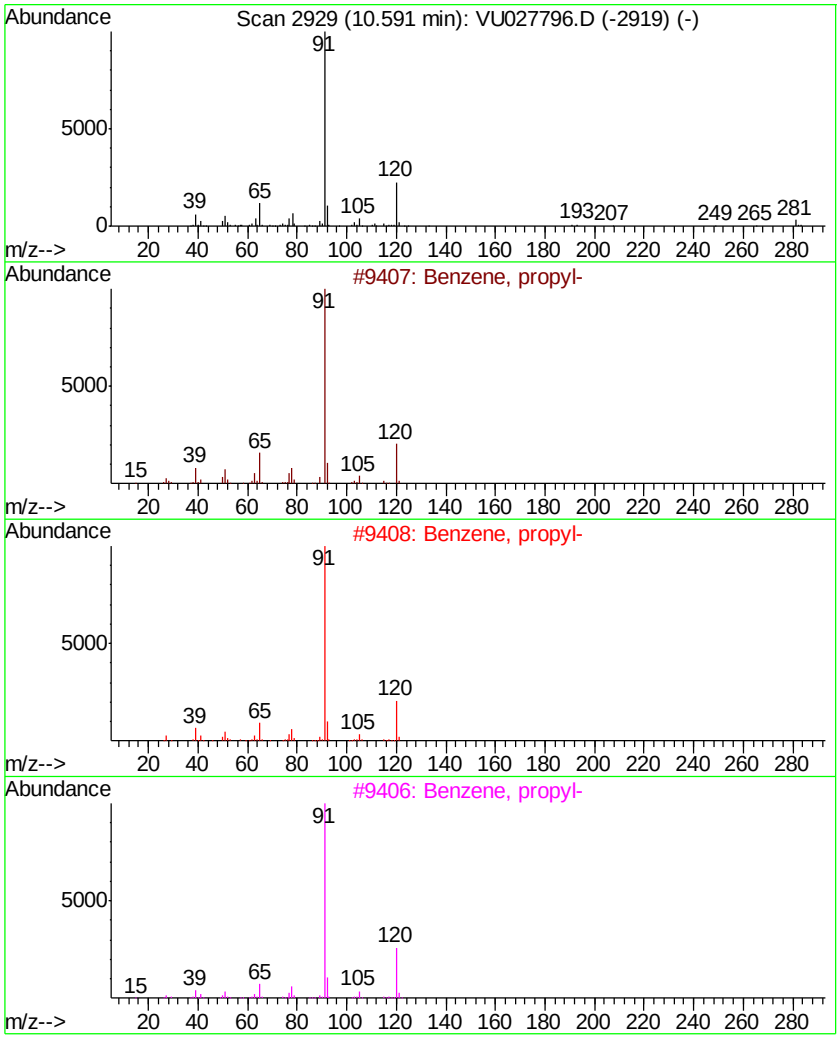
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

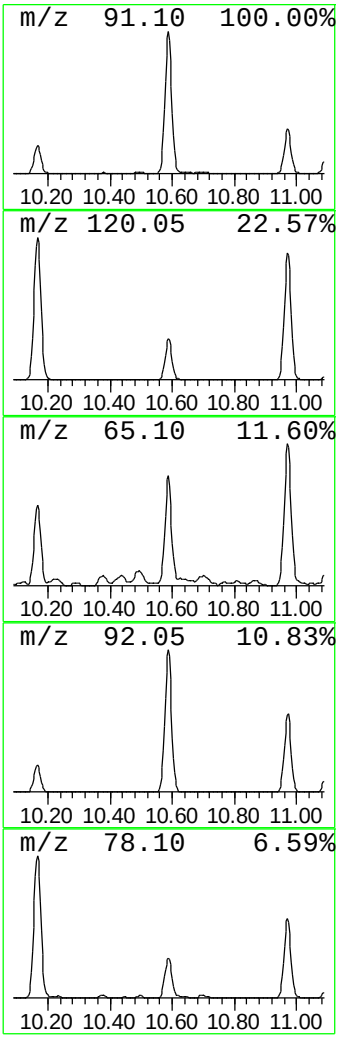
****

Peak Number 32 Benzene, propyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.59	7.58 ug/L	184084	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	87
3	Benzene, propyl-	120	C9H12	000103-65-1	80
4	1-Benzylamino-2-benzyloxyethane	241	C16H19NO	038336-06-0	64
5	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

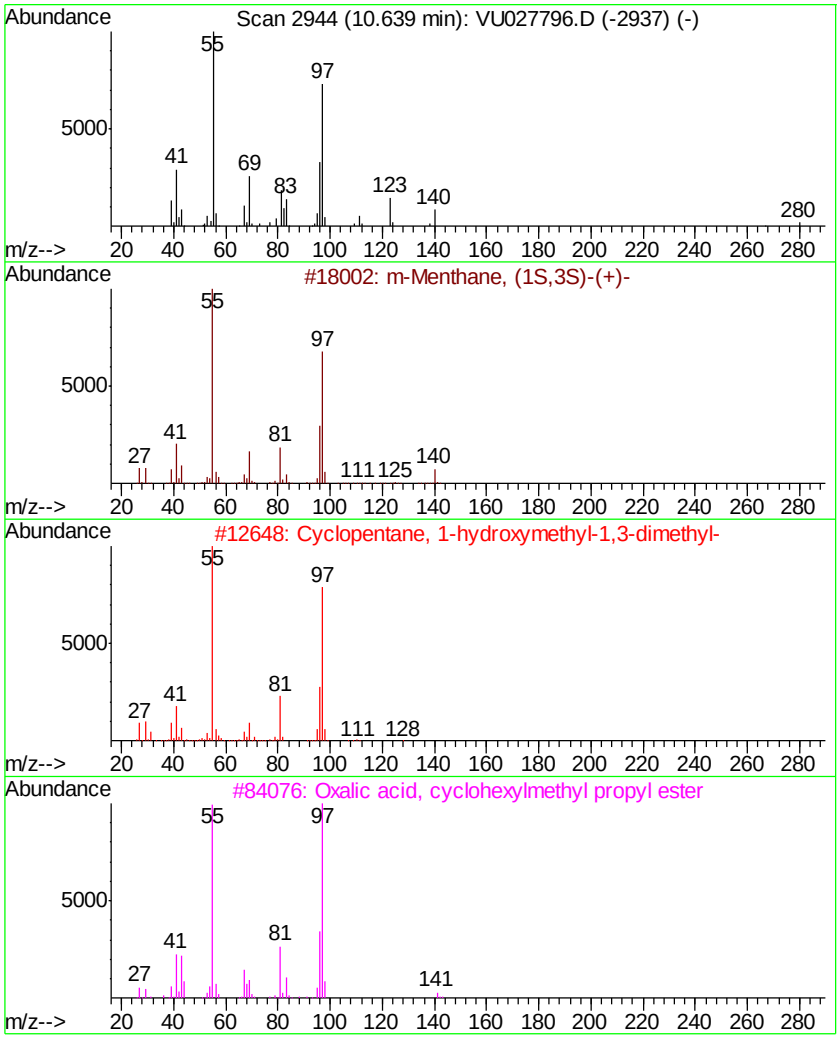
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

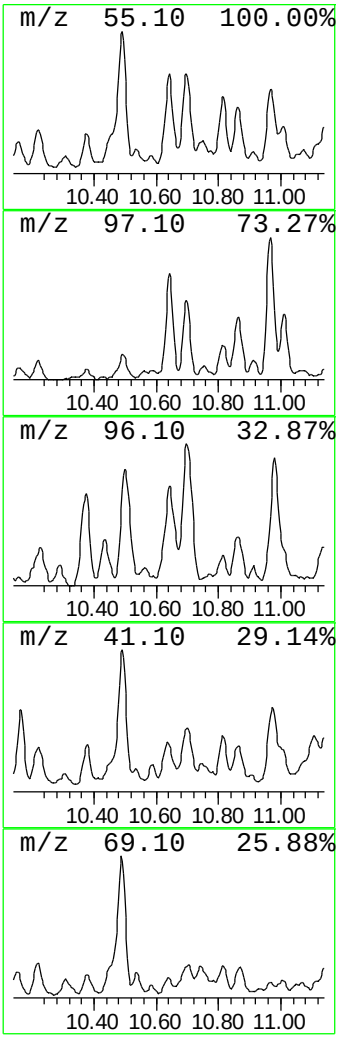
****

Peak Number 33 (DEL) Alkane: Cyclic10.64 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.64	5.14 ug/L	124958	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	m-Menthane, (1S,3S)-(+)-	140	C10H20	013837-67-7	64
2	Cyclopentane, 1-hydroxymethyl-1,...	128	C8H16O	1000156-73-8	59
3	Oxalic acid, cyclohexylmethyl pr...	228	C12H20O4	1000309-68-1	59
4	Cyclohexane, 1-(cyclohexylmethyl...	194	C14H26	054823-96-0	59
5	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

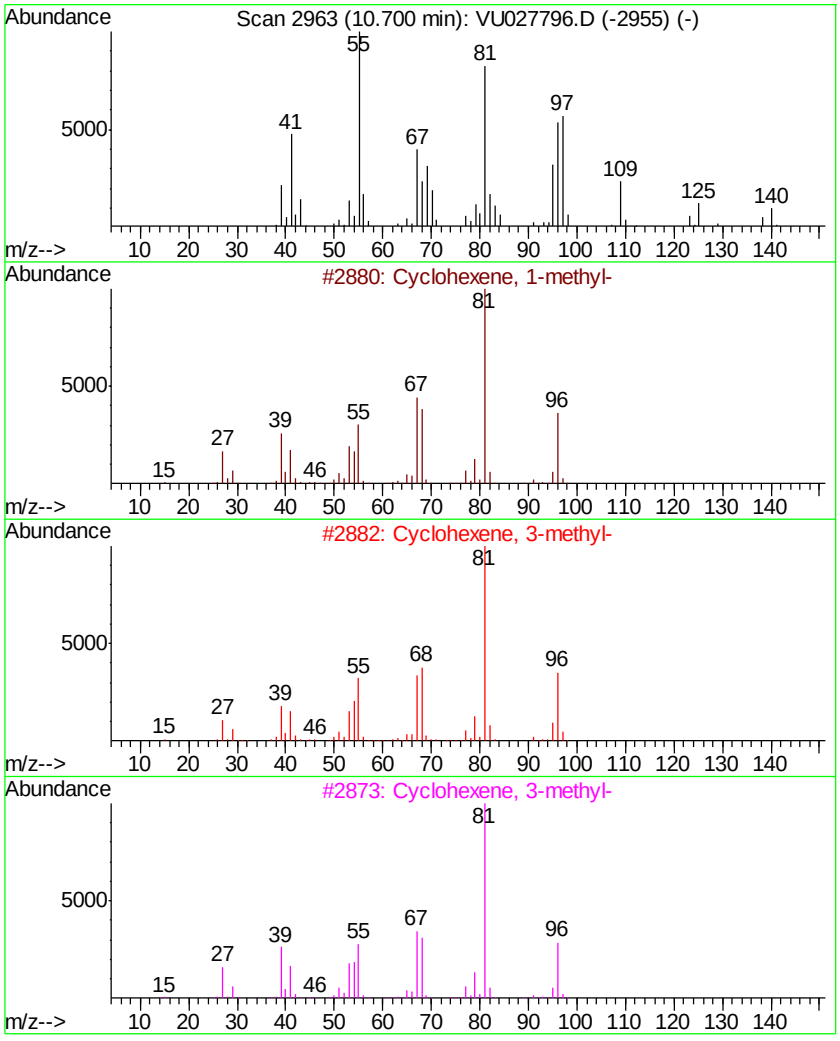
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

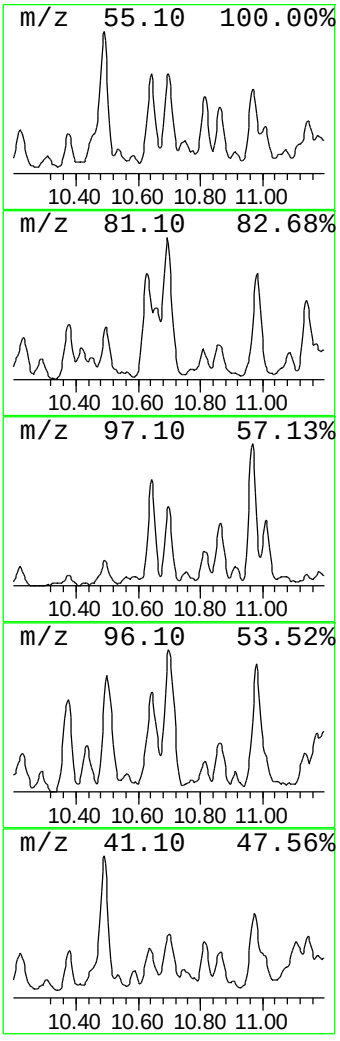
****

Peak Number 34 unknown-03 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.70	4.82 ug/L	117178	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	47
2	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	47
3	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	43
4	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	43
5	2-Butenenitrile, 2-amino-3-methyl-	96	C5H8N2	1000196-28-0	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

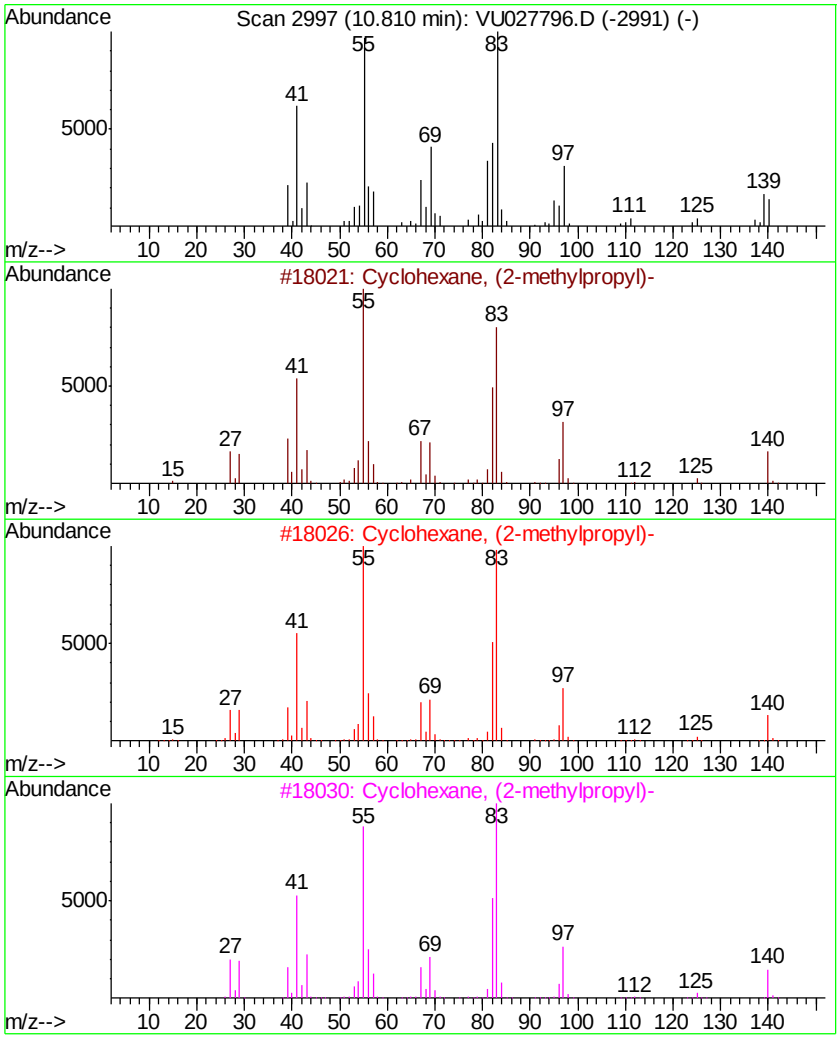
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

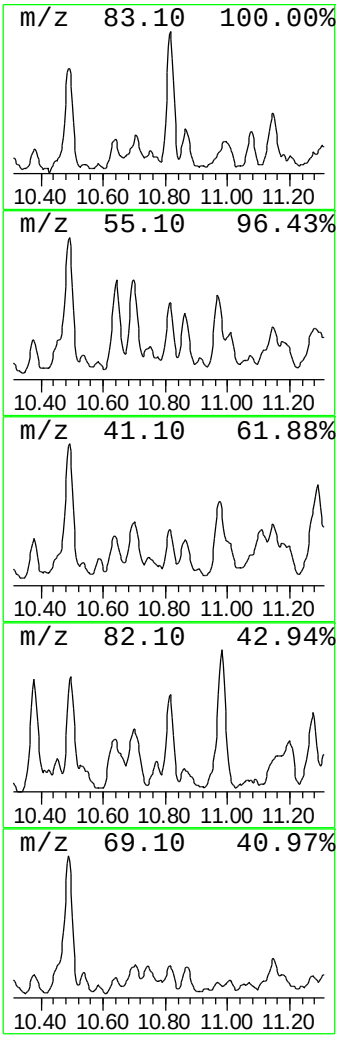
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 35 (DEL) Alkane: Cyclic10.81 Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.81	2.29 ug/L	55728	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	94
2	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	90
3	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	87
4	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	62
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

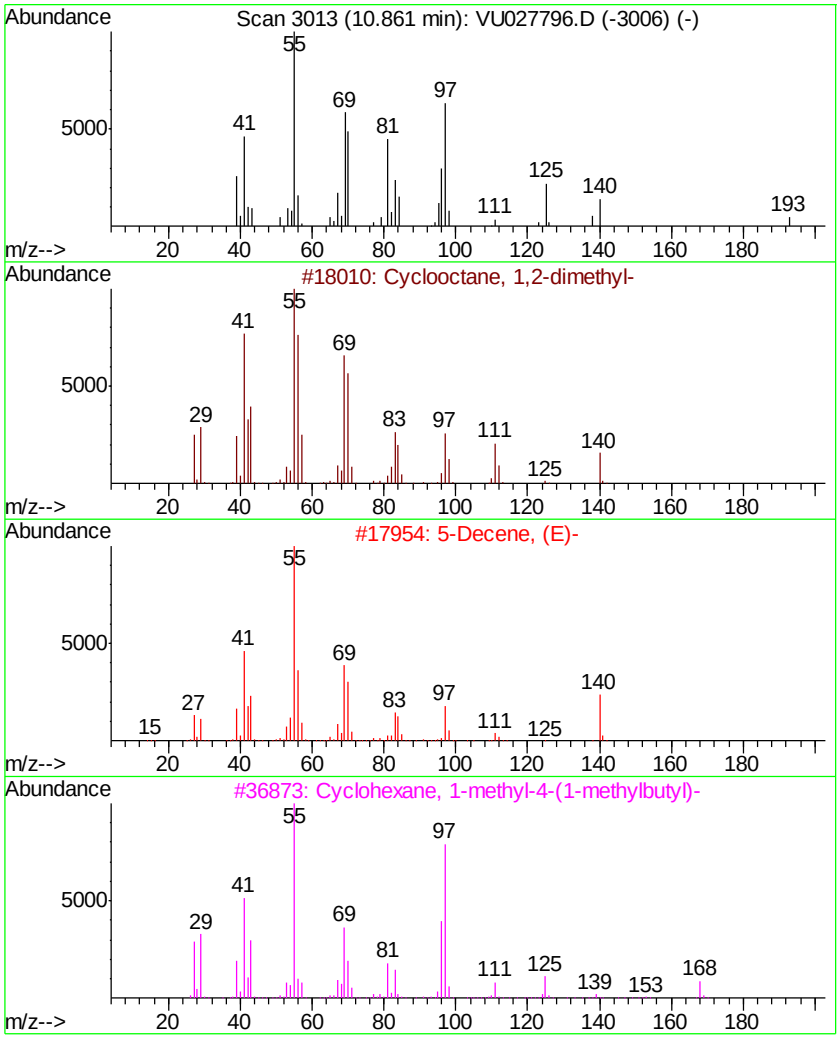
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

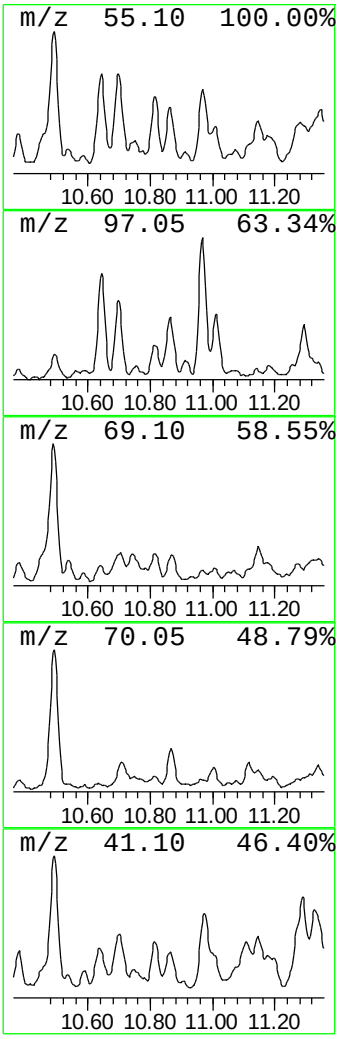
****

Peak Number 36 (DEL) Alkane: Cyclic10.86 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	3.64 ug/L	88419	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctane, 1,2-dimethyl-	140	C10H20	013151-94-5	50
2	5-Decene, (E)-	140	C10H20	007433-56-9	49
3	Cyclohexane, 1-methyl-4-(1-methy...	168	C12H24	054411-00-6	43
4	Cyclopropane, 1-butyl-2-pentyl-,...	168	C12H24	074663-88-0	38
5	3-Dodecene, (Z)-	168	C12H24	007239-23-8	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

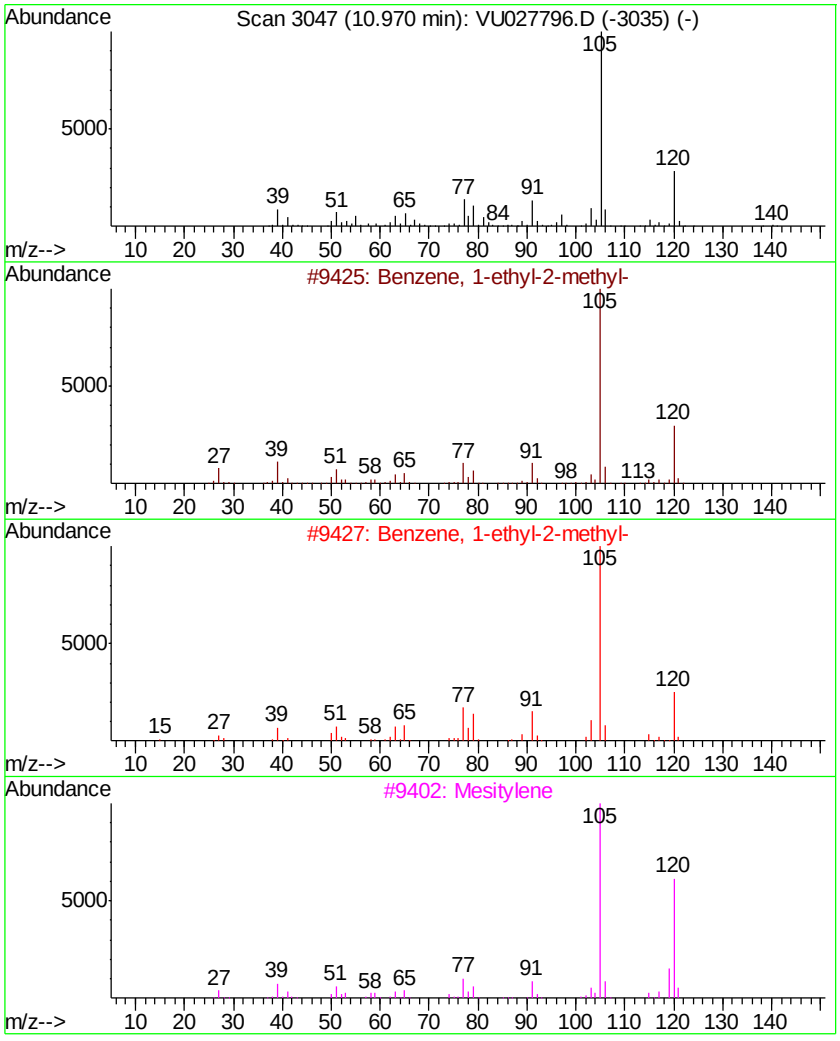
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

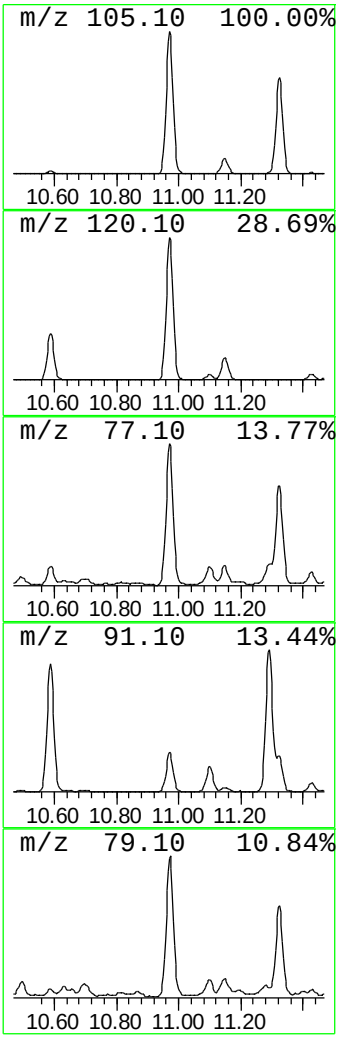
****

Peak Number 37 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	29.81 ug/L	724265	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	Mesitylene	120	C9H12	000108-67-8	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5	Mesitylene	120	C9H12	000108-67-8	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

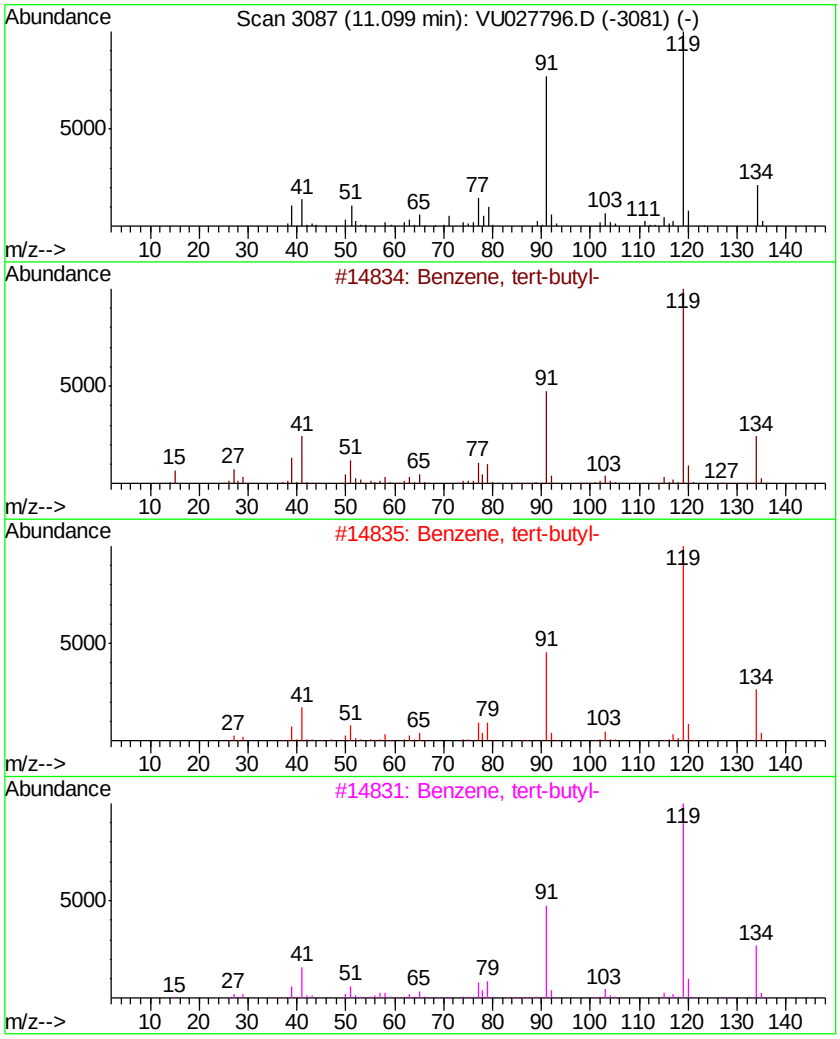
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

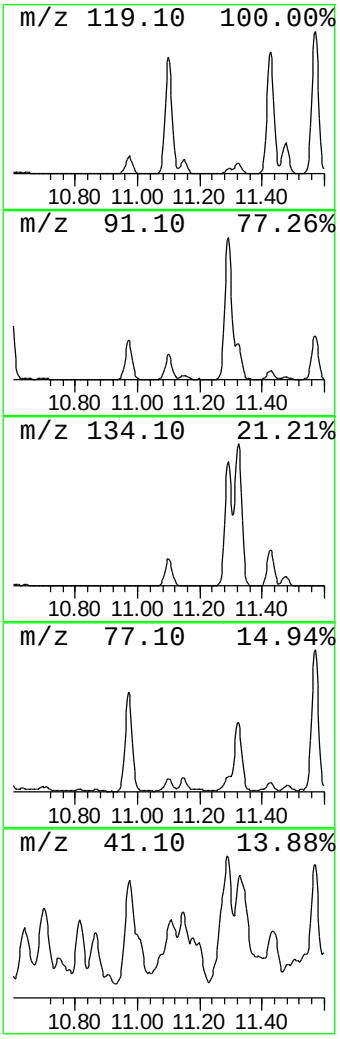
****

Peak Number 38 Benzene, tert-butyl- Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	2.58 ug/L	62624	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, tert-butyl-	134	C10H14	000098-06-6	81
2	Benzene, tert-butyl-	134	C10H14	000098-06-6	74
3	Benzene, tert-butyl-	134	C10H14	000098-06-6	72
4	Ethanone, 1-(4-methylphenyl)-	134	C9H10O	000122-00-9	64
5	Ethanone, 1-(4-methylphenyl)-	134	C9H10O	000122-00-9	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

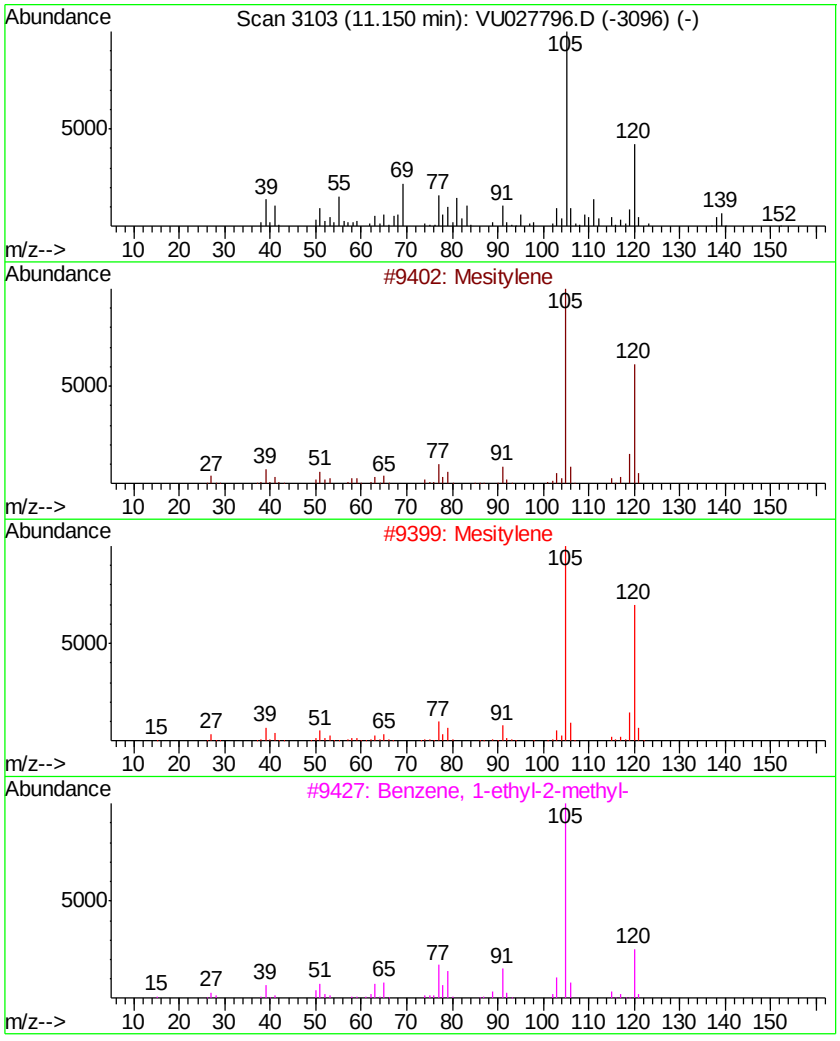
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

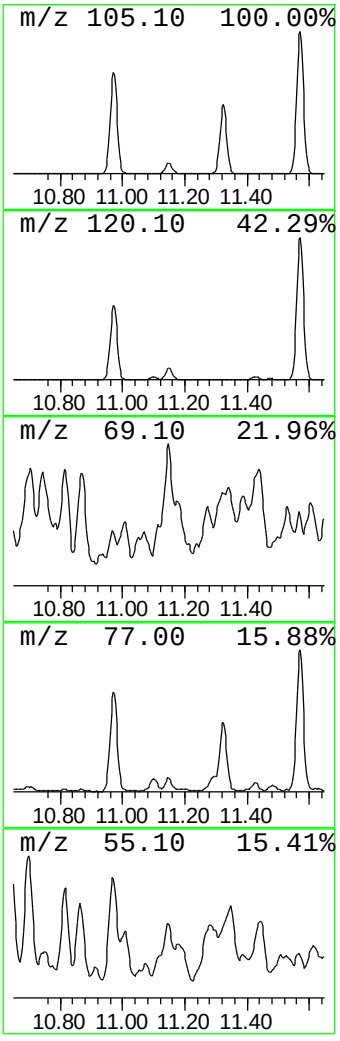
****

Peak Number 39 Mesitylene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	3.88 ug/L	94345	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Mesitylene	120	C9H12	000108-67-8	94
2	Mesitylene	120	C9H12	000108-67-8	93
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	89
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	89





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

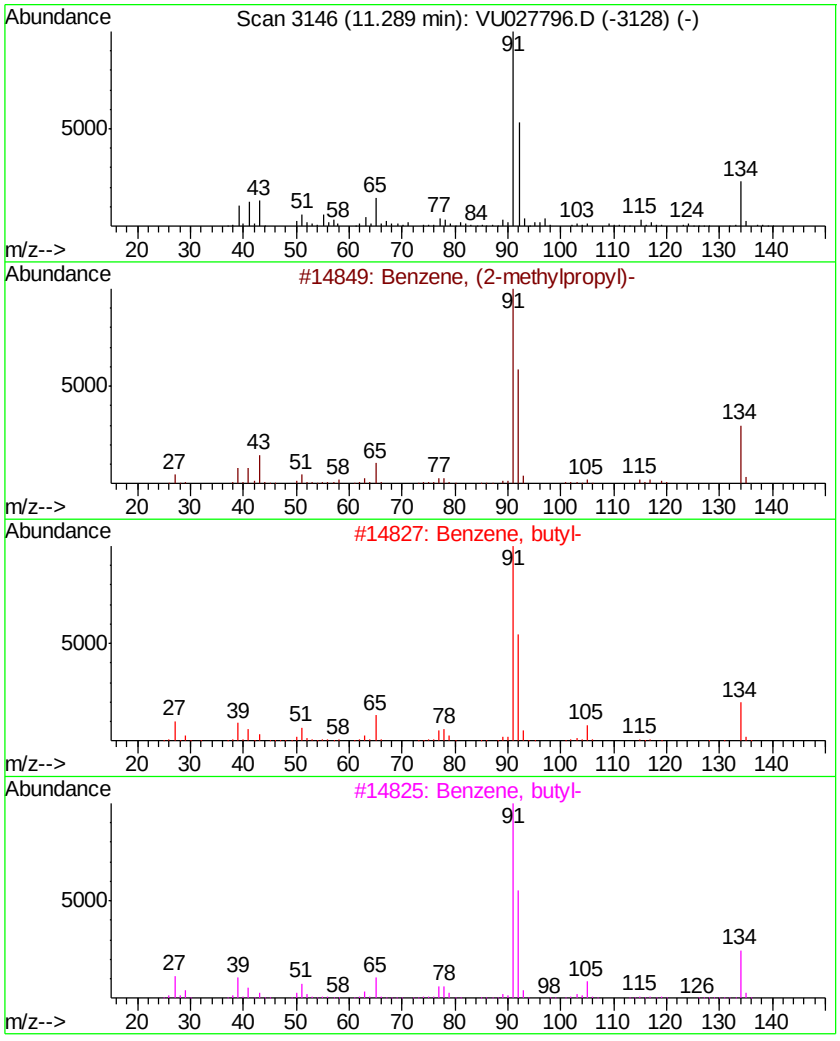
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

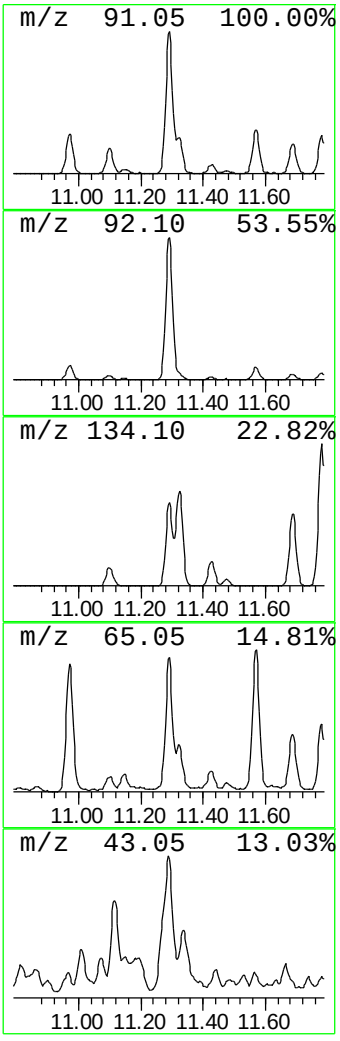
****

Peak Number 40 Benzene, (2-methylpropyl)- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	15.86 ug/L	385482	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	87
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	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

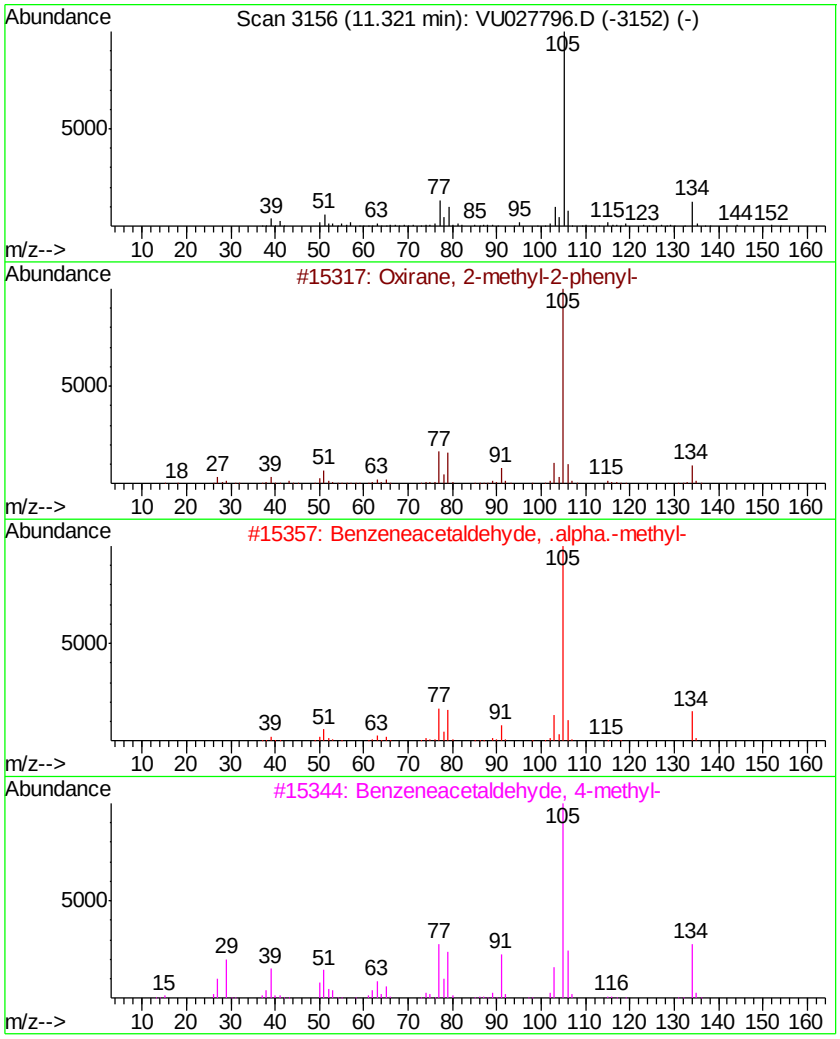
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

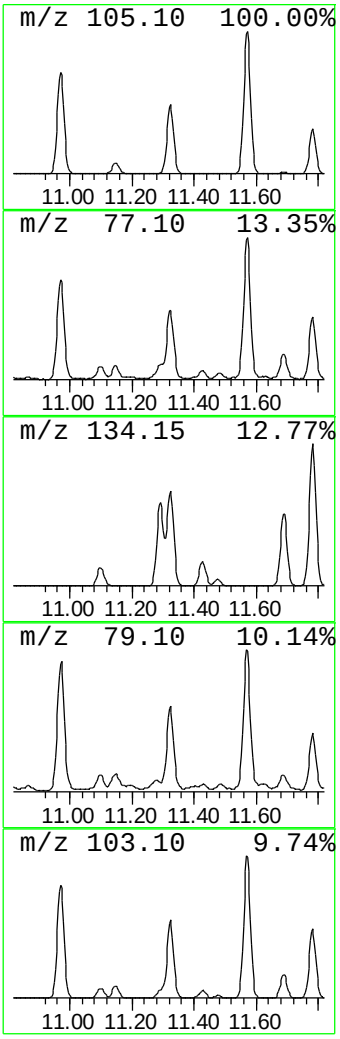
****

Peak Number 41 Oxirane, 2-methyl-2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	16.76 ug/L	407162	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	87
2	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	81
3	Benzeneacetaldehyde, 4-methyl-	134	C9H10O	000104-09-6	80
4	2-Tolyloxirane	134	C9H10O	002783-26-8	78
5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

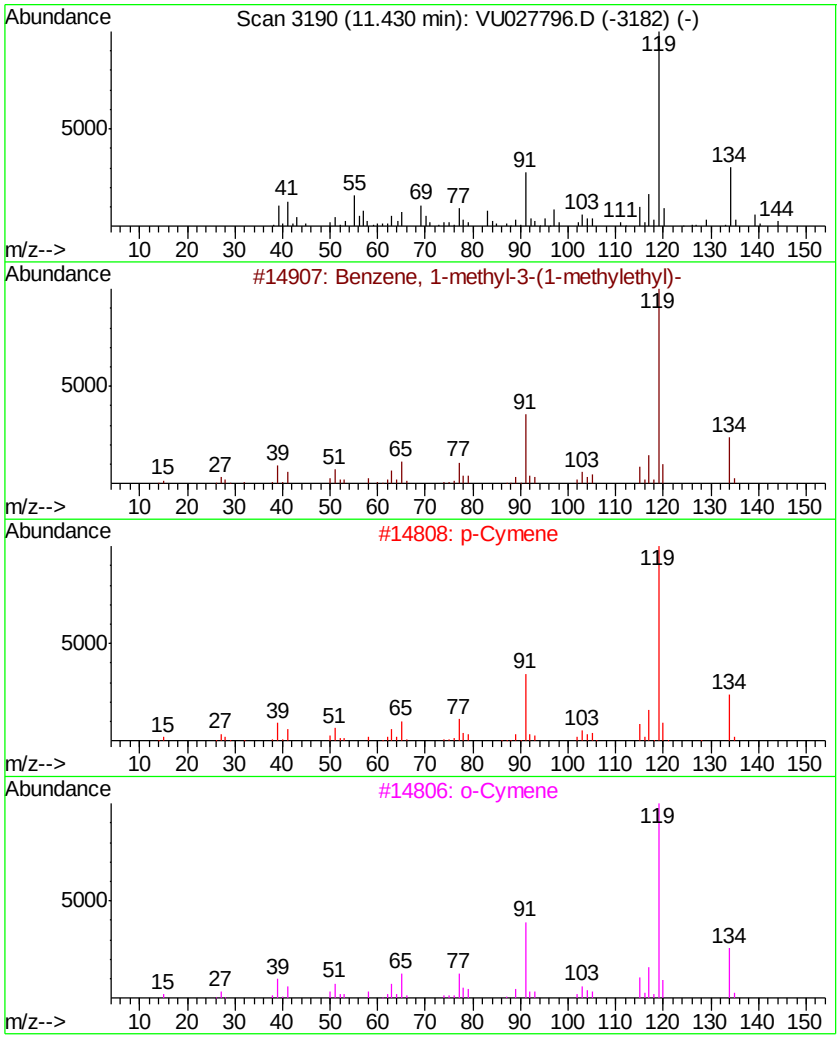
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

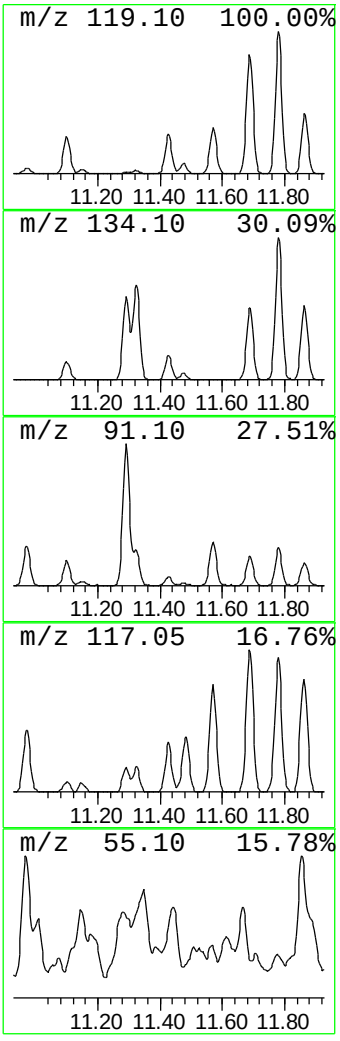
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 42 Benzene, 1-methyl-3-(1-meth... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.43	3.67 ug/L	89117	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93
2	p-Cymene	134	C10H14	000099-87-6	93
3	o-Cymene	134	C10H14	000527-84-4	93
4	o-Cymene	134	C10H14	000527-84-4	93
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	90





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

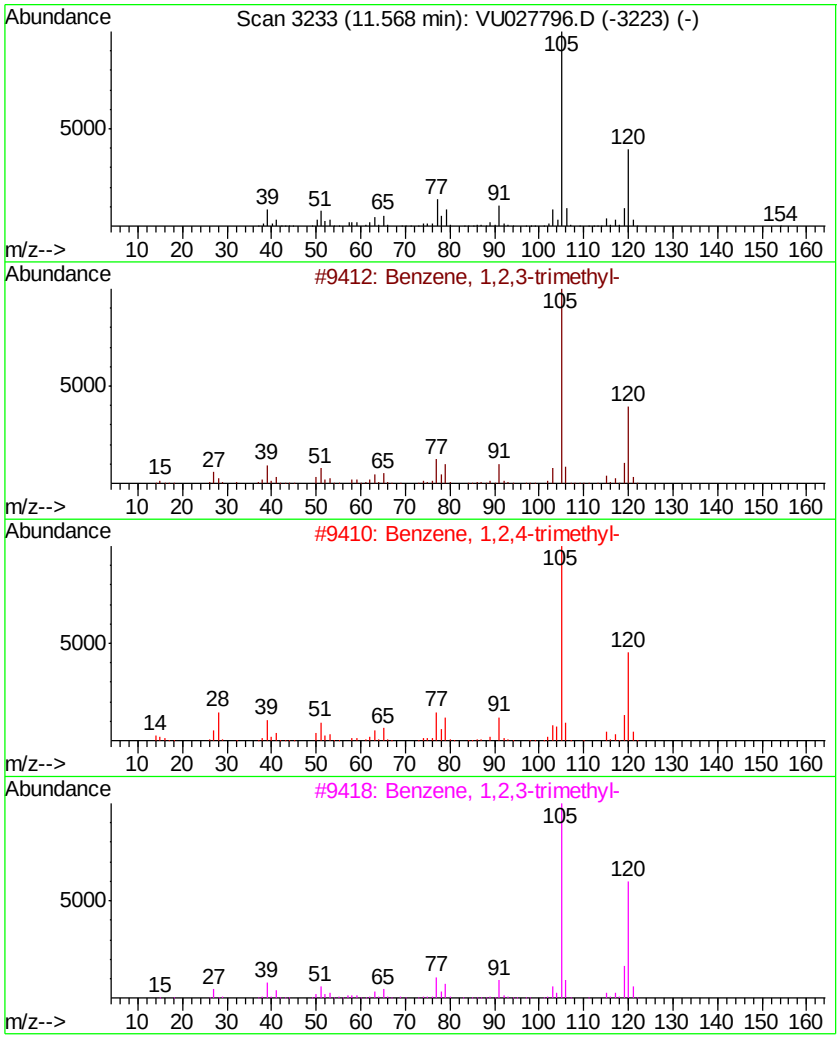
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

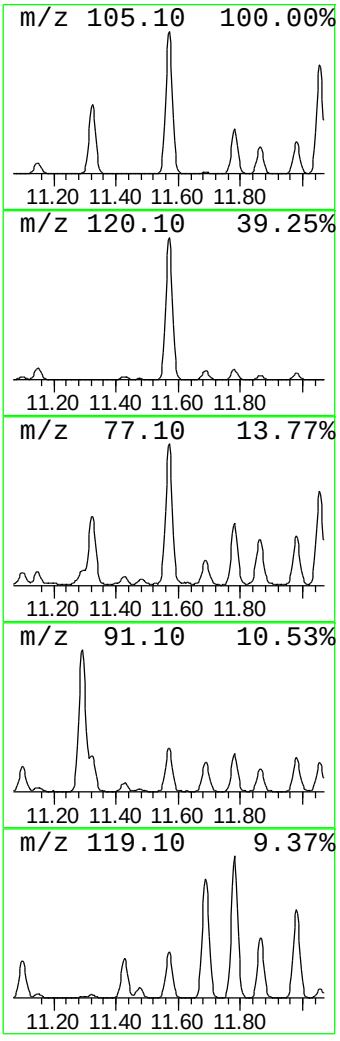
****

Peak Number 43 Benzene, 1,2,3-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.57	32.28 ug/L	784267	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	94
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Mesitylene	120	C9H12	000108-67-8	91
5	Mesitylene	120	C9H12	000108-67-8	91





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Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

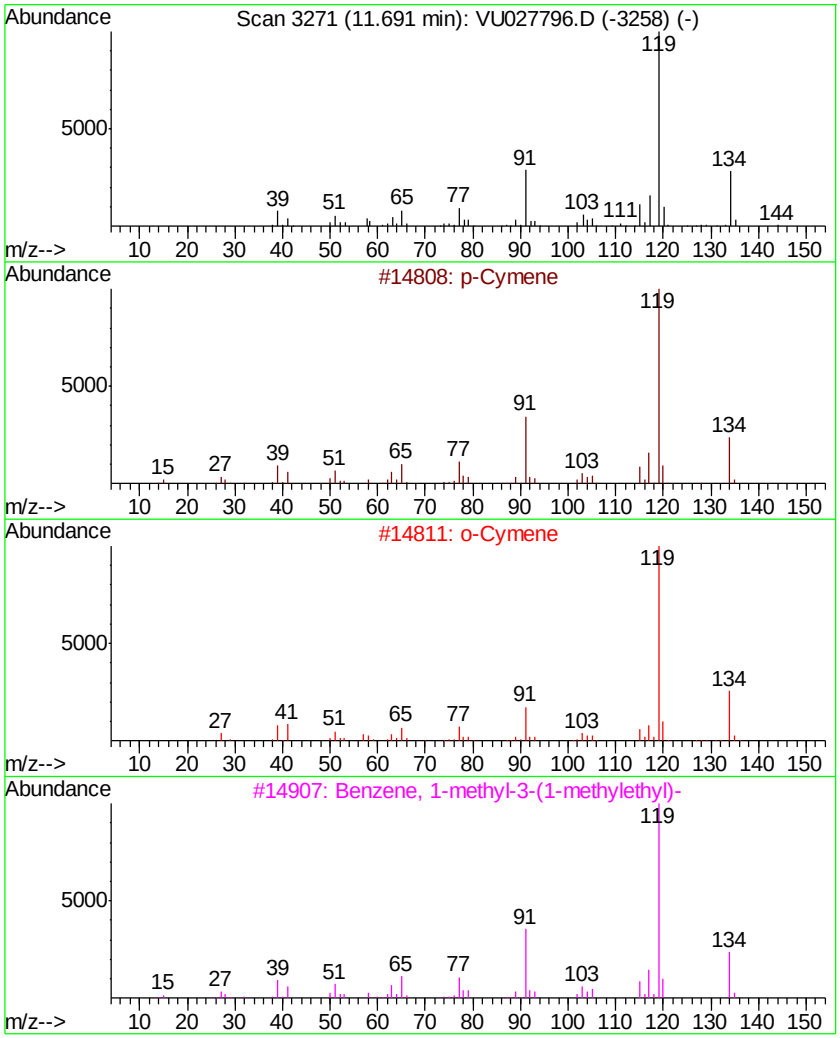
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

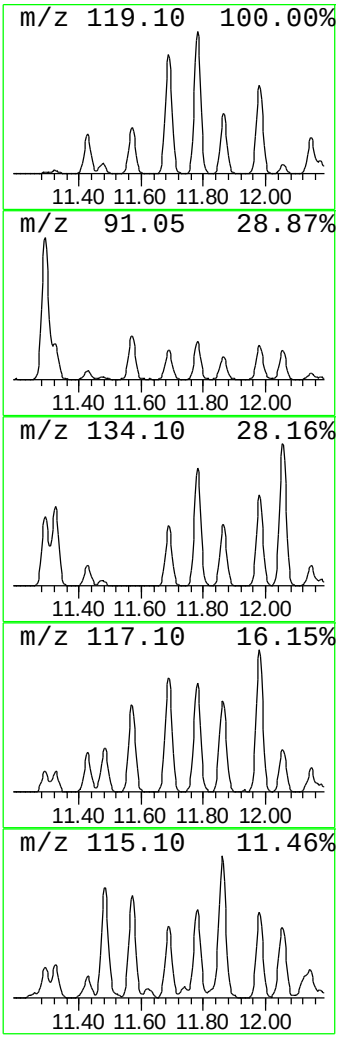
****

Peak Number 44 p-Cymene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	11.89 ug/L	288795	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	95
2	o-Cymene	134	C10H14	000527-84-4	94
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
4	o-Cymene	134	C10H14	000527-84-4	94
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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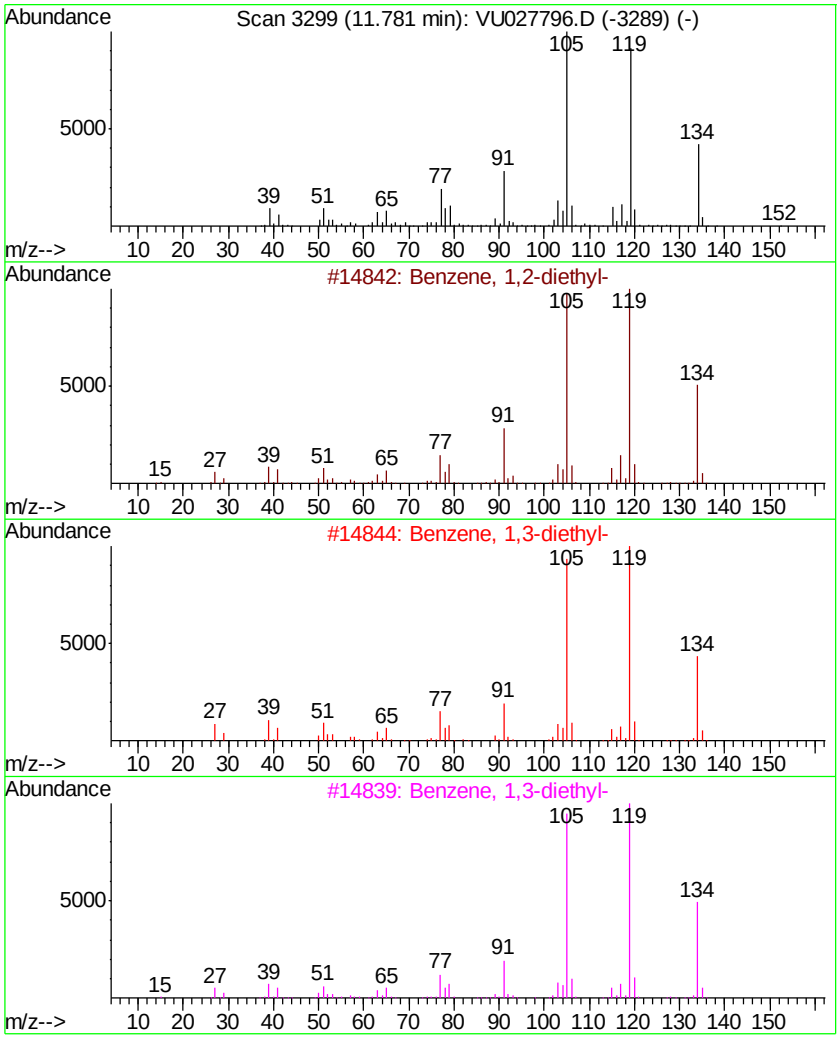
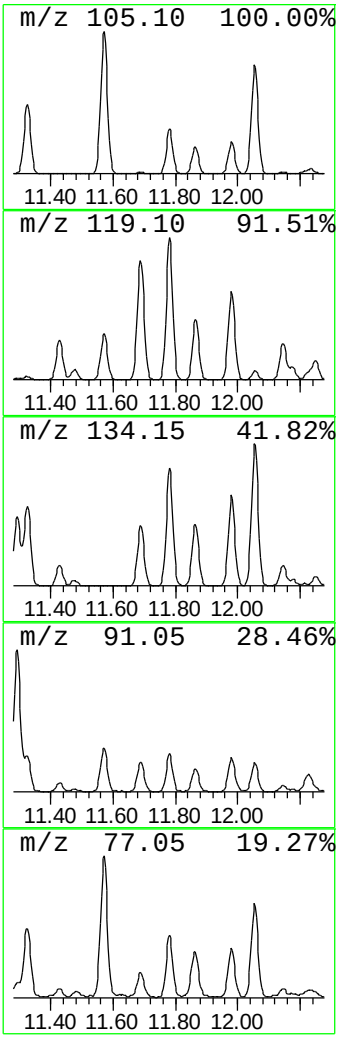
Peak Number 45 Benzene, 1,2-diethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	17.50 ug/L	425302	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	97
2	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	97
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	94
4	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	93
5	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	91





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Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

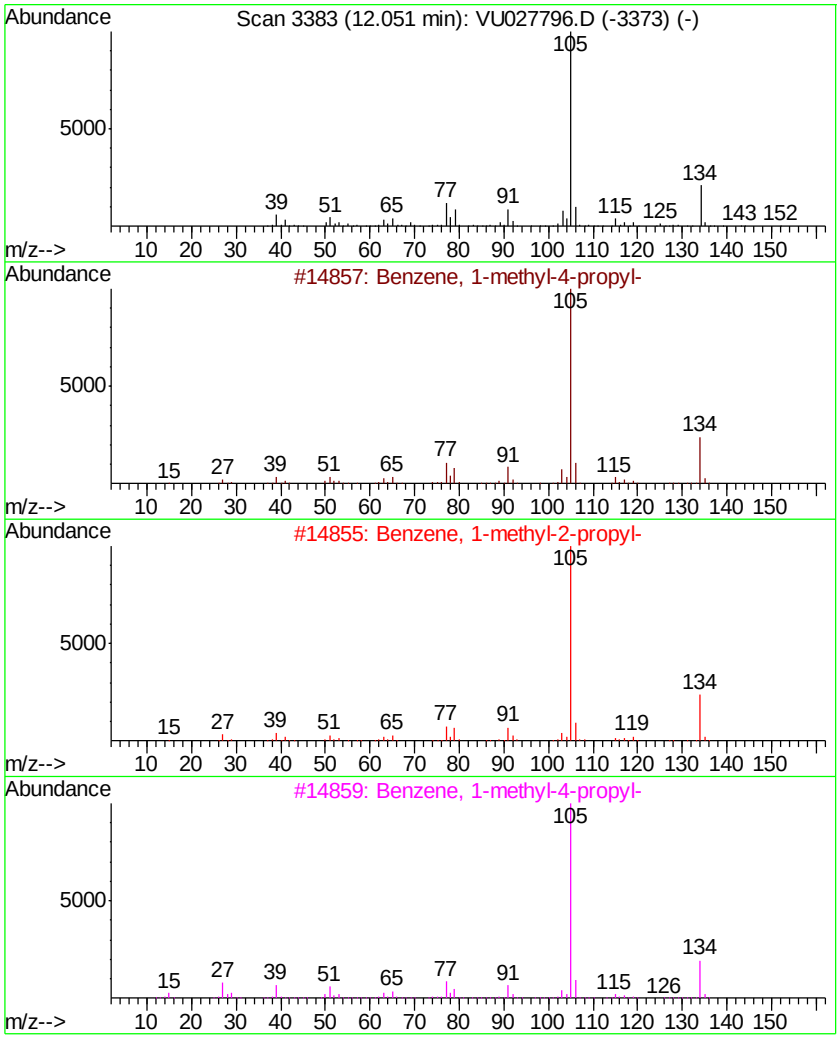
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

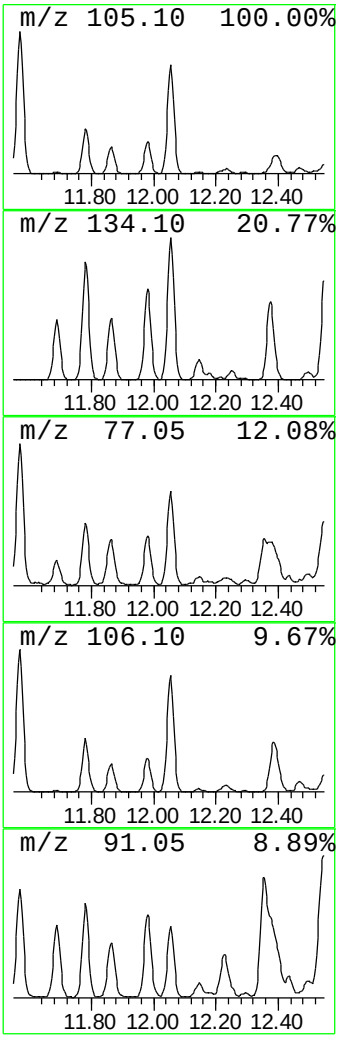
****

Peak Number 47 Benzene, 1-methyl-4-propyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	22.45 ug/L	545406	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	95
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

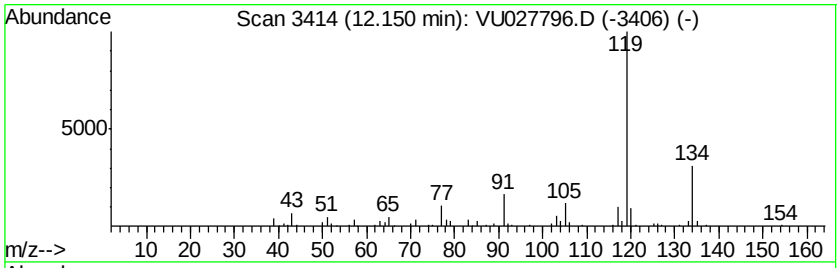
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

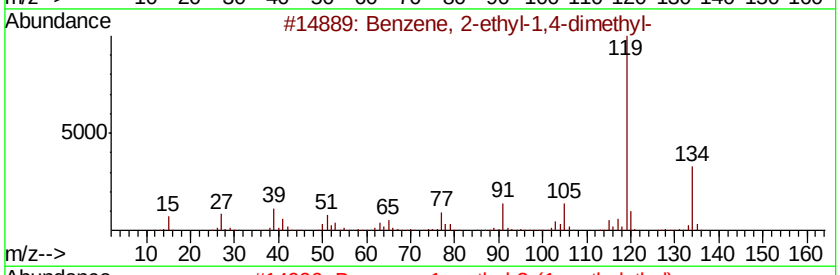
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

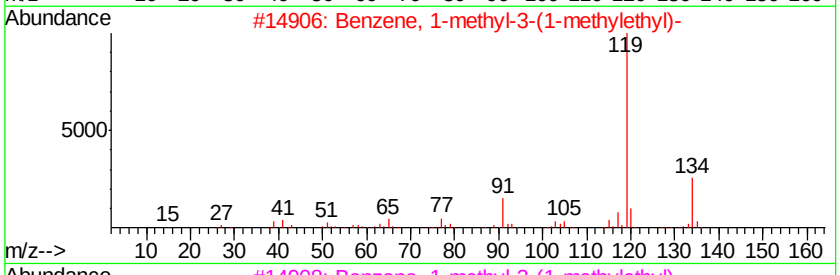
****
Peak Number 48 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 64

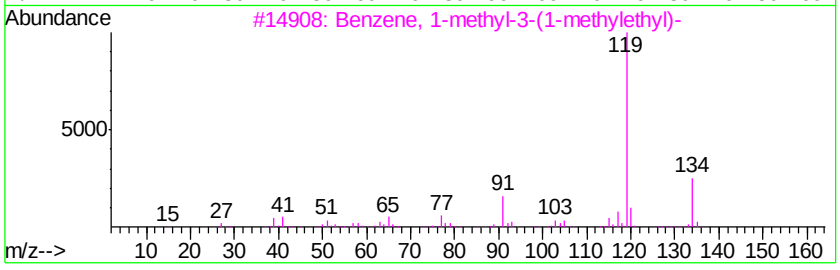
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	1.83 ug/L	44385	1,4-Dichlorobenzene-d4	11.48

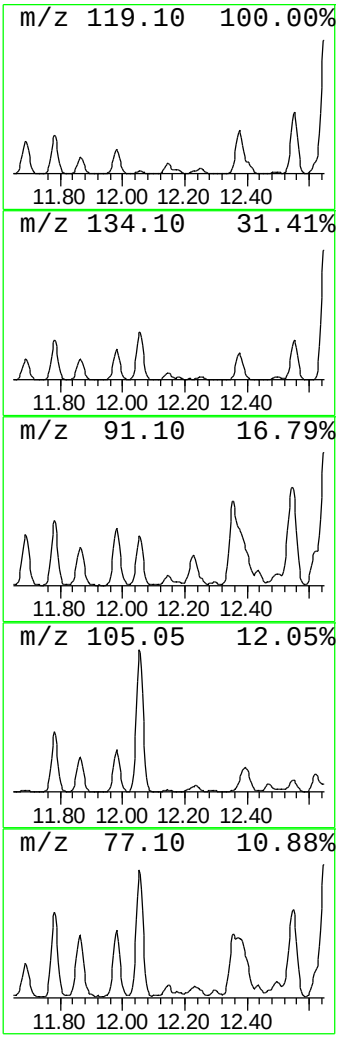
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
4	o-Cymene	134	C10H14	000527-84-4	94
5	o-Cymene	134	C10H14	000527-84-4	94











Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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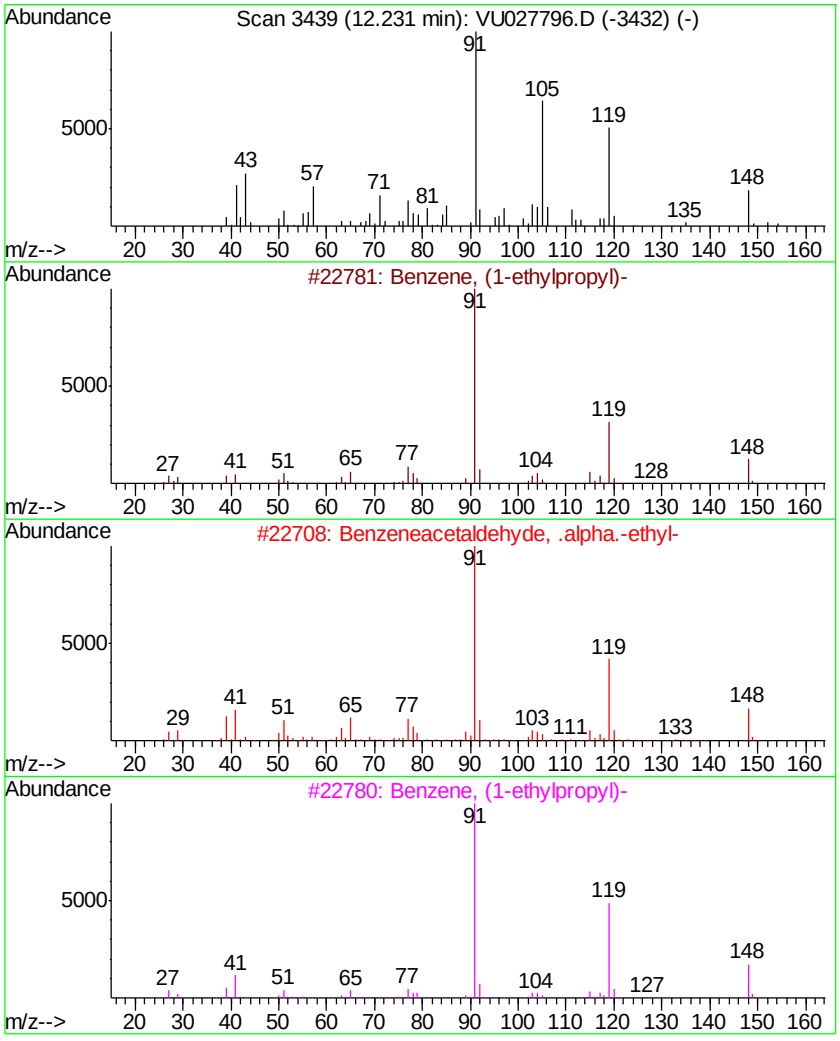
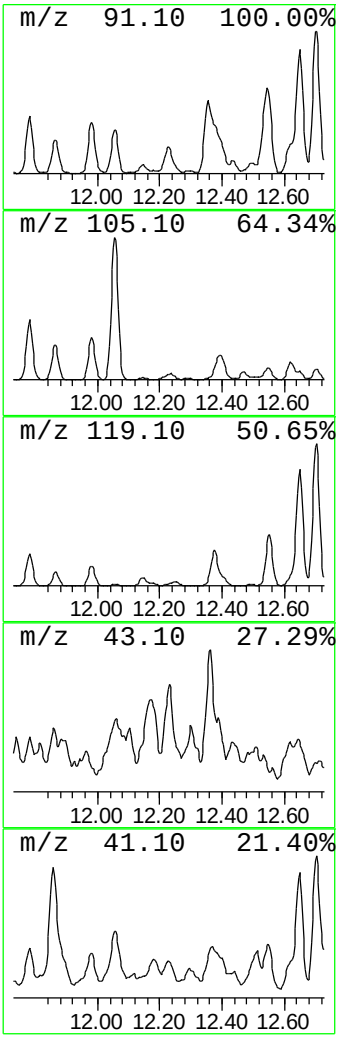
Peak Number 49 Benzene, (1-ethylpropyl)- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	3.68 ug/L	89478	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	87
2	Benzeneacetaldehyde, .alpha.-ethyl-	148	C10H12O	002439-43-2	64
3	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	64
4	Benzene, (1-nitropropyl)-	165	C9H11NO2	005279-14-1	53
5	Aziridine, 1-phenyl-	119	C8H9N	000696-18-4	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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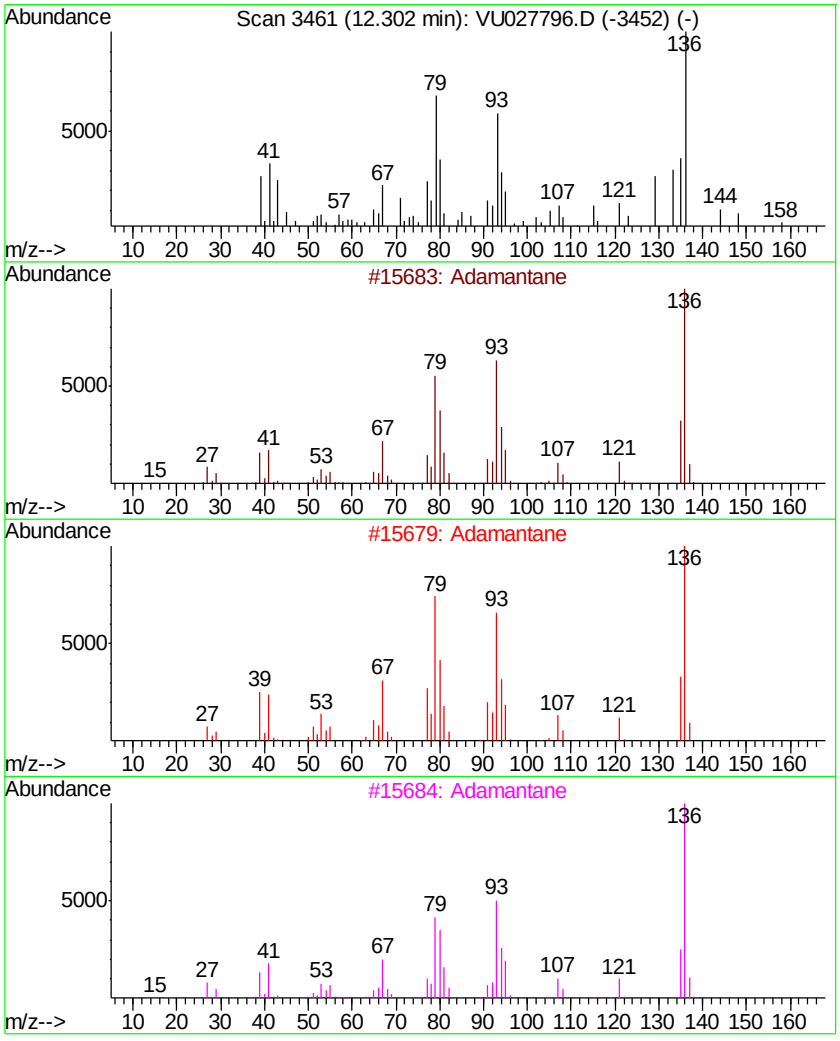
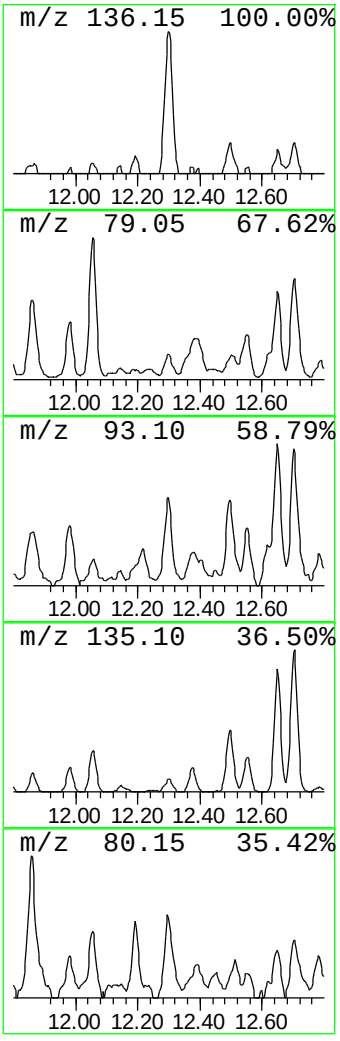
Peak Number 50 Adamantane Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	1.59 ug/L	38521	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Adamantane	136	C10H16	000281-23-2	93
2	Adamantane	136	C10H16	000281-23-2	89
3	Adamantane	136	C10H16	000281-23-2	83
4	Bicyclo[3.3.1]non-6-en-2-one	136	C9H12O	022482-58-2	55
5	Bicyclo[3.3.1]non-2-en-9-one	136	C9H12O	004844-11-5	50





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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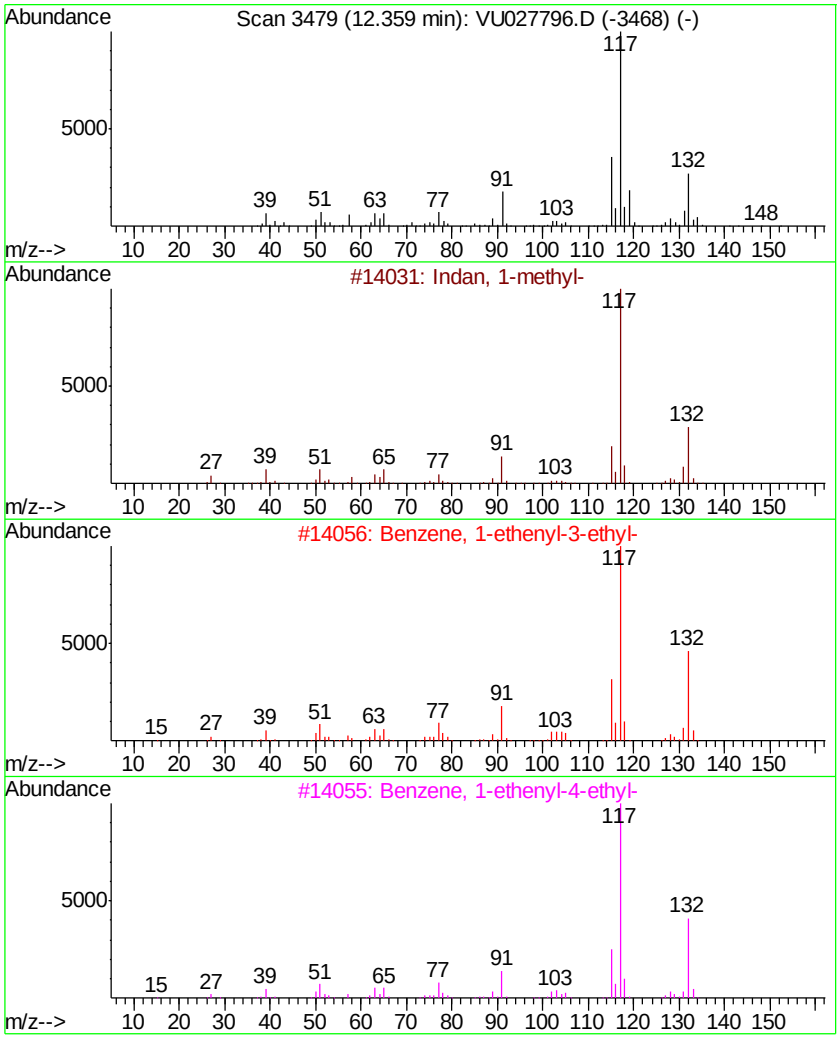
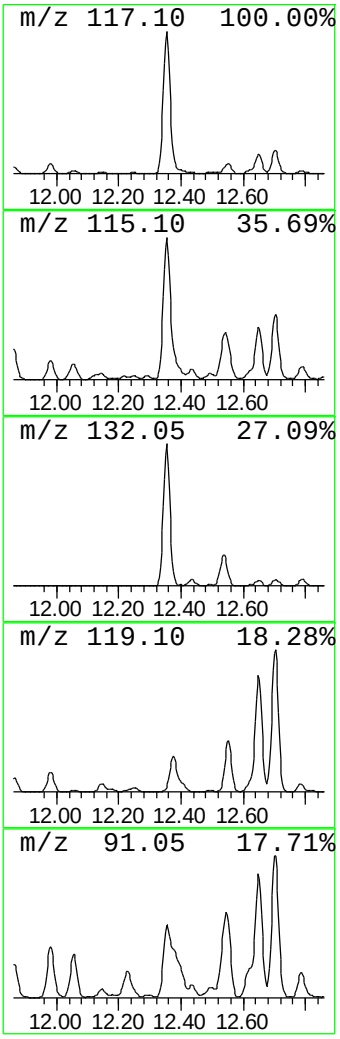
Peak Number 51 Indan, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	43.08 ug/L	1046700	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	81





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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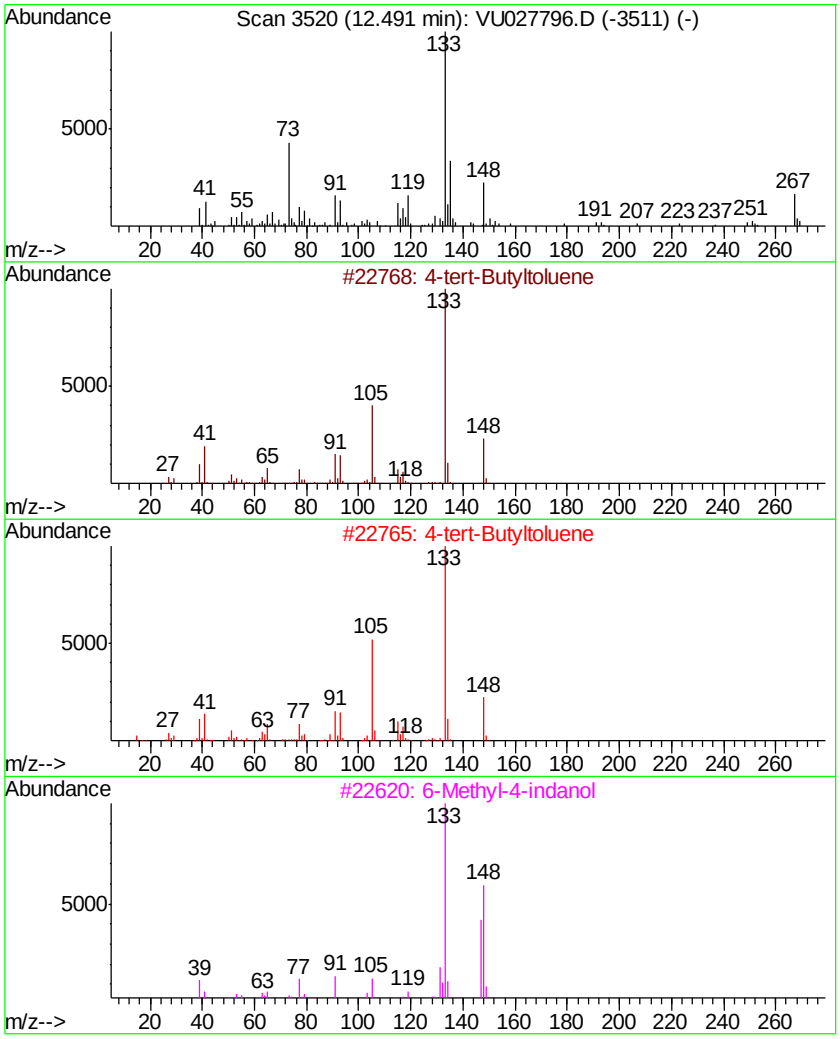
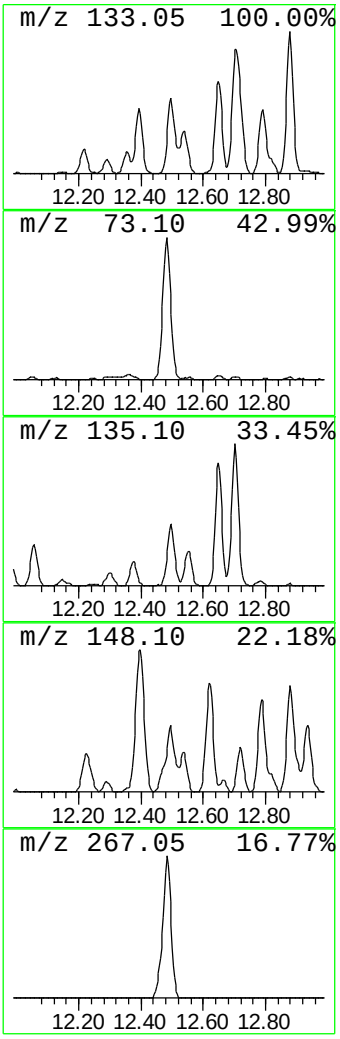
Peak Number 53 4-tert-Butyltoluene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	5.25 ug/L	127537	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-tert-Butyltoluene	148	C11H16	000098-51-1	64
2	4-tert-Butyltoluene	148	C11H16	000098-51-1	64
3	6-Methyl-4-indanol	148	C10H12O	020294-32-0	58
4	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	58
5	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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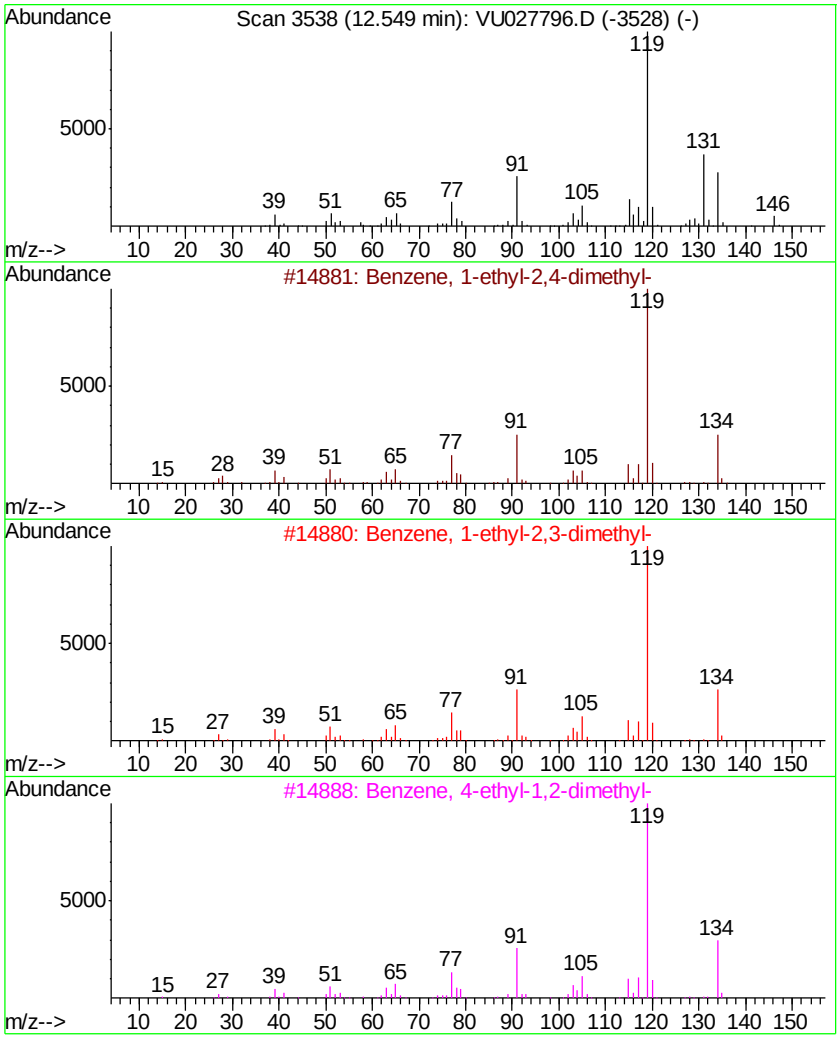
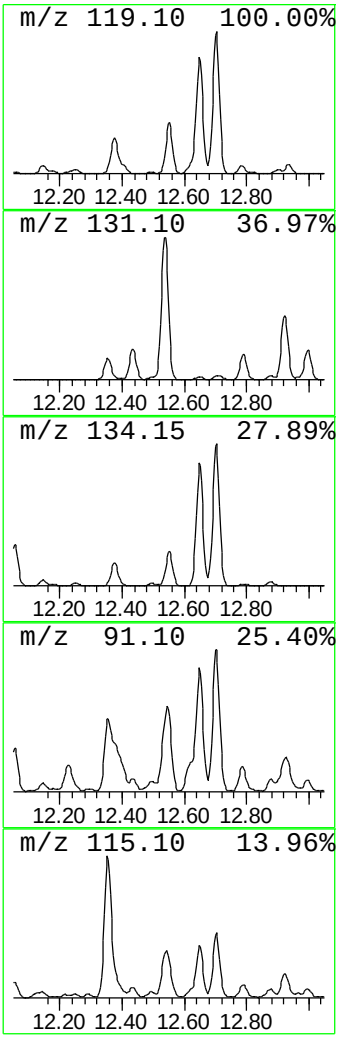
Peak Number 54 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	29.51 ug/L	717012	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	83
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	83
4	o-Cymene	134	C10H14	000527-84-4	64
5	o-Cymene	134	C10H14	000527-84-4	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

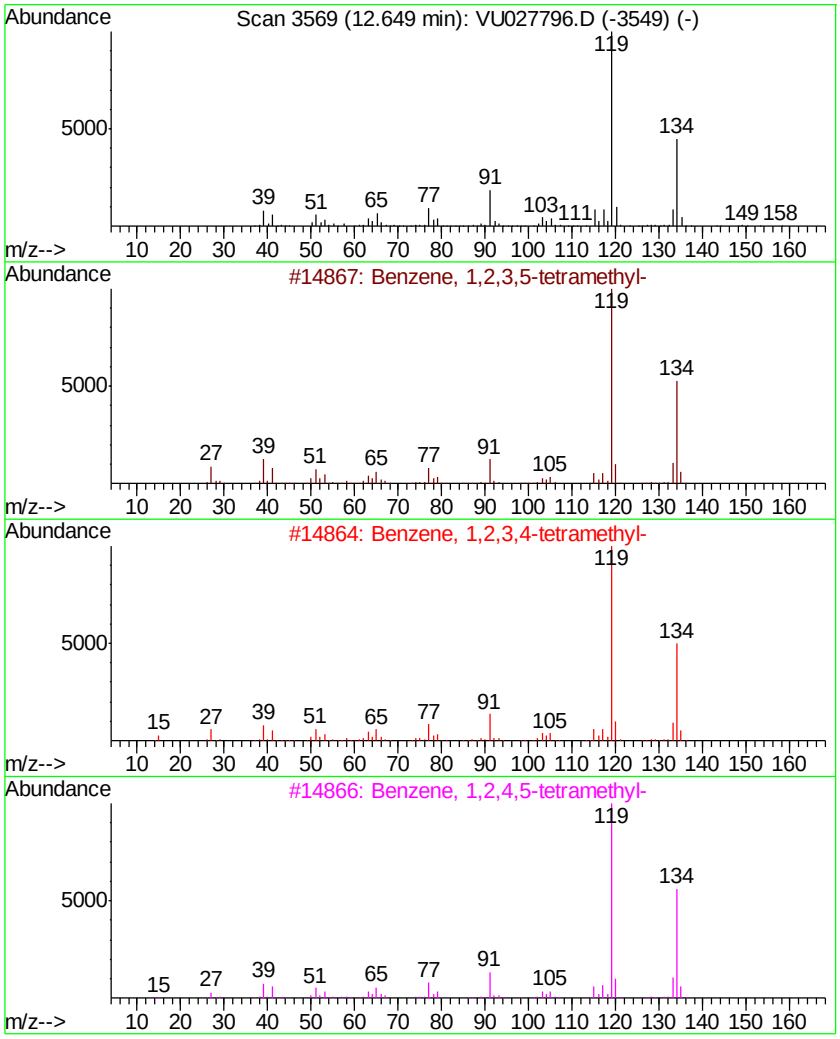
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

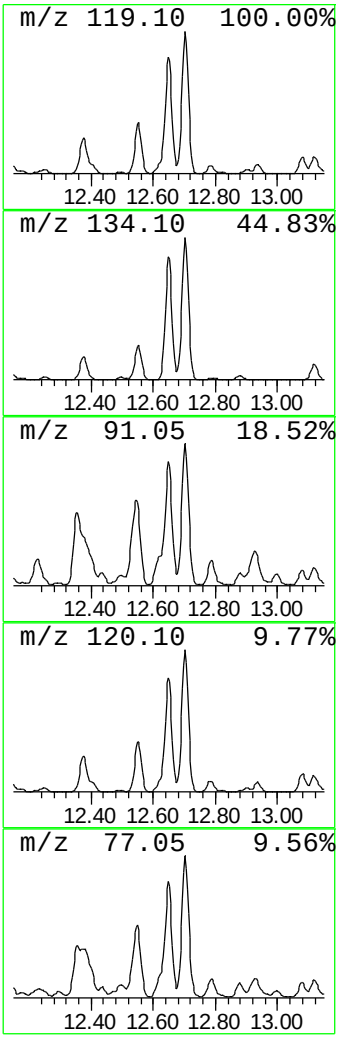
****

Peak Number 55 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	44.86 ug/L	1090010	1,4-Dichlorobenzene-d4	11.48

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

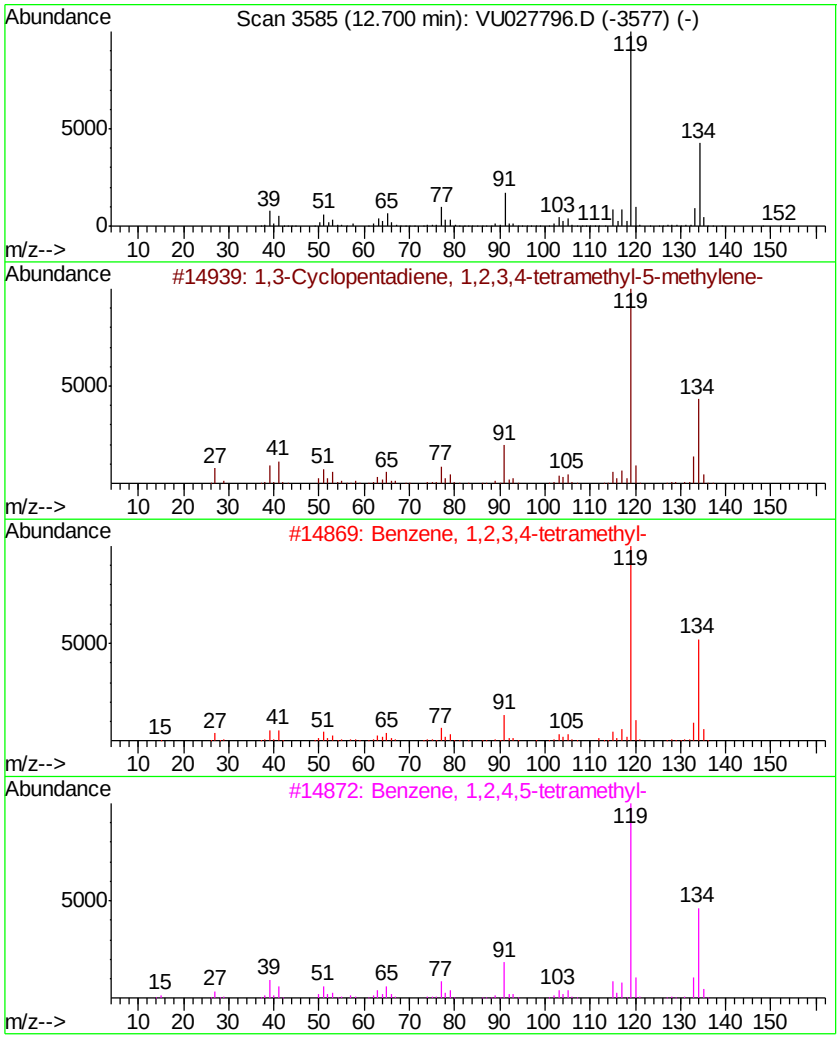
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

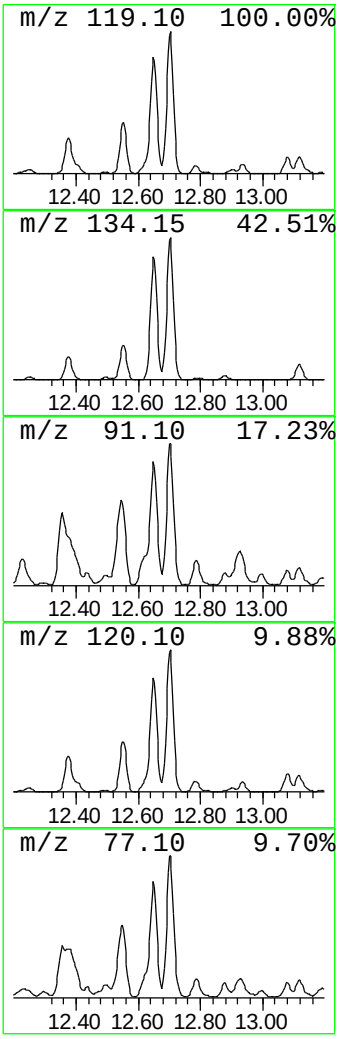
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 56 1,3-Cyclopentadiene, 1,2,3,... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	48.99 ug/L	1190460	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	95
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

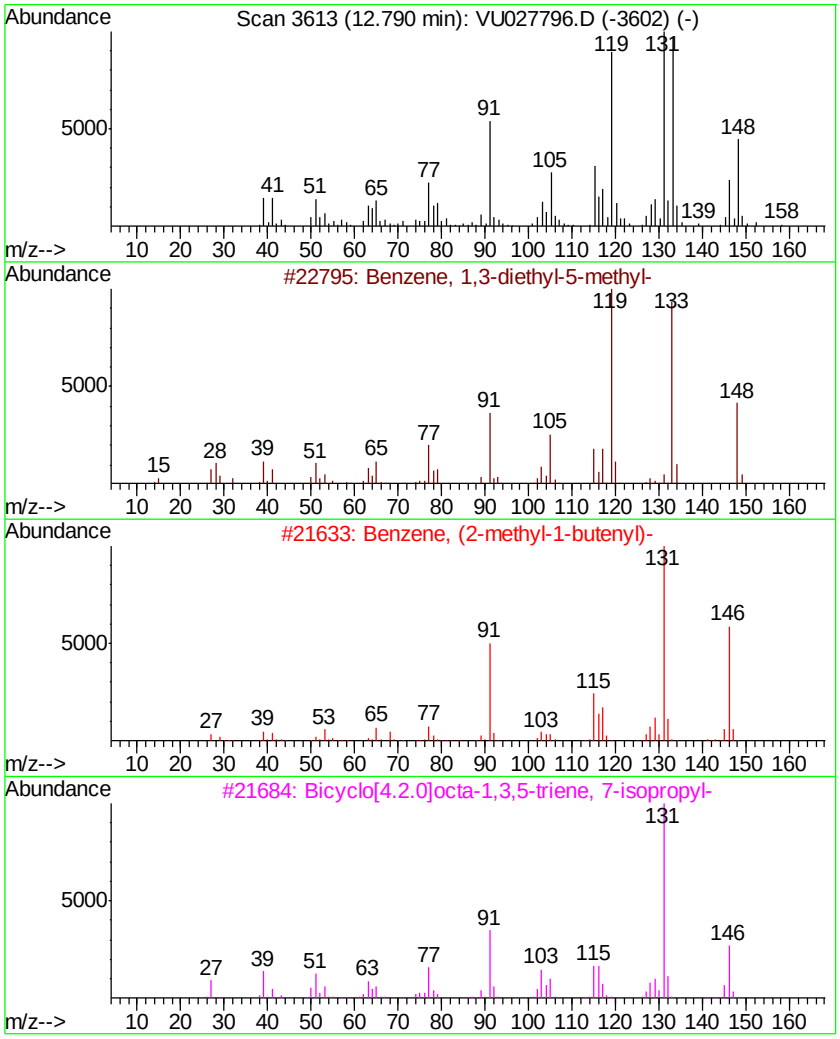
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

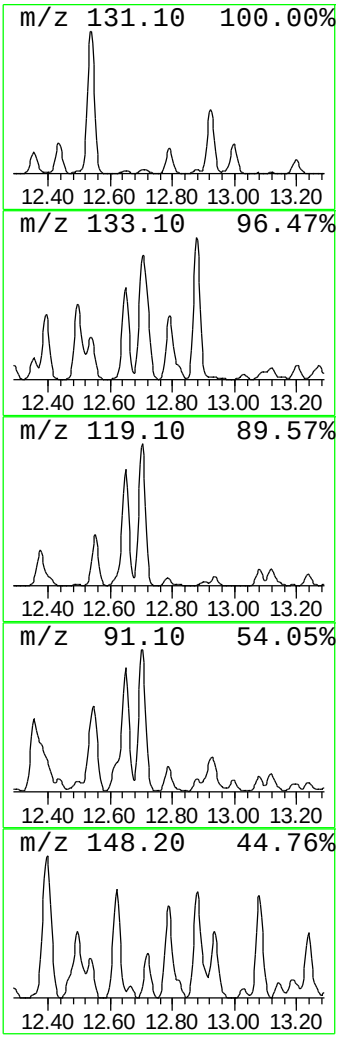
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 57 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	8.03 ug/L	195182	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	96
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	81
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	74
4	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	64
5	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	62





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102418\
Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A04

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.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	1.29	11.4	ug/L	208969	1	5.89	91748	5.0
(DEL) Alkane: Str...	2.71	2.8	ug/L	52111	1	5.89	91748	5.0
(DEL) Alkane: Str...	3.00	1.3	ug/L	24603	1	5.89	91748	5.0
(DEL) Alkane: Str...	3.99	1.7	ug/L	31466	1	5.89	91748	5.0
(DEL) Alkane: Str...	4.73	1.3	ug/L	24394	1	5.89	91748	5.0
(DEL) Alkane: Str...	5.08	4.6	ug/L	84801	1	5.89	91748	5.0
(DEL) Alkane: Cyc...	5.48	2.9	ug/L	53399	1	5.89	91748	5.0
(DEL) Alkane: Cyc...	5.55	1.7	ug/L	31856	1	5.89	91748	5.0
(DEL) Alkane: Cyc...	6.74	4.6	ug/L	85072	1	5.89	91748	5.0
(DEL) Alkane: Cyc...	6.91	1.3	ug/L	23067	1	5.89	91748	5.0
(DEL) Alkane: Cyc...	7.71	6.4	ug/L	154883	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	7.92	15.7	ug/L	380937	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	8.05	3.5	ug/L	85015	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	8.49	5.1	ug/L	122834	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	8.61	2.4	ug/L	59256	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	8.65	3.1	ug/L	75783	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	8.85	3.6	ug/L	87404	2	9.09	121471	5.0
Pentalene, octahy...	9.19	3.0	ug/L	73486	2	9.09	121471	5.0
Bicyclo[3.2.1]octane	9.36	8.1	ug/L	197748	2	9.09	121471	5.0
Cyclohexene, 3-me...	9.57	3.6	ug/L	88728	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	9.73	6.3	ug/L	152316	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	9.81	1.6	ug/L	39800	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	9.92	4.6	ug/L	110803	2	9.09	121471	5.0
unknown-01	9.95	2.8	ug/L	68587	2	9.09	121471	5.0
Ethylidenecyclohe...	10.05	3.6	ug/L	88733	2	9.09	121471	5.0
unknown-02	10.22	3.5	ug/L	84637	2	9.09	121471	5.0
(DEL) Alkane: Cyc...	10.30	1.0	ug/L	24208	3	11.48	121494	5.0
Bicyclo[2.2.2]oct...	10.38	4.1	ug/L	99850	3	11.48	121494	5.0
(DEL) Alkane: Cyc...	10.49	8.4	ug/L	203407	3	11.48	121494	5.0
Benzene, propyl-	10.59	7.6	ug/L	184084	3	11.48	121494	5.0
(DEL) Alkane: Cyc...	10.64	5.1	ug/L	124958	3	11.48	121494	5.0
unknown-03	10.70	4.8	ug/L	117178	3	11.48	121494	5.0
(DEL) Alkane: Cyc...	10.81	2.3	ug/L	55728	3	11.48	121494	5.0
(DEL) Alkane: Cyc...	10.86	3.6	ug/L	88419	3	11.48	121494	5.0
Benzene, 1-ethyl-...	10.97	29.8	ug/L	724265	3	11.48	121494	5.0
Benzene, tert-butyl-	11.10	2.6	ug/L	62624	3	11.48	121494	5.0
Mesitylene	11.15	3.9	ug/L	94345	3	11.48	121494	5.0
Benzene, (2-methy...	11.29	15.9	ug/L	385482	3	11.48	121494	5.0
Oxirane, 2-methyl...	11.32	16.8	ug/L	407162	3	11.48	121494	5.0
Benzene, 1-methyl...	11.43	3.7	ug/L	89117	3	11.48	121494	5.0
Benzene, 1,2,3-tr...	11.57	32.3	ug/L	784267	3	11.48	121494	5.0
p-Cymene	11.69	11.9	ug/L	288795	3	11.48	121494	5.0
Benzene, 1,2-diet...	11.78	17.5	ug/L	425302	3	11.48	121494	5.0
Benzene, 1-methyl...	12.05	22.4	ug/L	545406	3	11.48	121494	5.0
Benzene, 2-ethyl-...	12.15	1.8	ug/L	44385	3	11.48	121494	5.0
Benzene, (1-ethyl...	12.23	3.7	ug/L	89478	3	11.48	121494	5.0
Adamantane	12.30	1.6	ug/L	38521	3	11.48	121494	5.0
Indan, 1-methyl-	12.36	43.1	ug/L	1046700	3	11.48	121494	5.0
4-tert-Butyltoluene	12.49	5.3	ug/L	127537	3	11.48	121494	5.0

Benzene, 1-ethyl-...	12.55	29.5	ug/L	717012	3	11.48	121494	5.0
Benzene, 1,2,3,5-...	12.65	44.9	ug/L	1090010	3	11.48	121494	5.0
1,3-Cyclopentadie...	12.70	49.0	ug/L	1190460	3	11.48	121494	5.0
Benzene, 1,3-diet...	12.79	8.0	ug/L	195182	3	11.48	121494	5.0

Instrument :
MSVOA_U
ClientSampleId :
H1A04