LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.180	23	28	35	rBV	11085	9941	0.48%	0.062%
2	1.395	86	95	105	rBV	86205	95550	4.60%	0.593%
3	1.469	113	118	125	rVB	14343	14564	0.70%	0.090%
4	1.675	174	182	195	rBV	68676	86361	4.15%	0.536%
5	2.267	351	366	377	rVB2	147630	252156	12.13%	1.564%
6	2.402	402	408	413	rVB2	401	457	0.02%	0.003%
7	2.447	416	422	427	rVV3	775	1116	0.05%	0.007%
8	2.772	517	523	524	rBV2	564	499	0.02%	0.003%
9	2.823	524	539	554	rVV2	13367	29615	1.42%	0.184%
10	2.981	580	588	597	rBV3	3411	5991	0.29%	0.037%
11	3.180	636	650	670	rBV2	21232	48666	2.34%	0.302%
12	3.437	722	730	745	rVV2	2434	5009	0.24%	0.031%
13	3.566	758	770	782	rBV5	1563	3761	0.18%	0.023%
14	3.636	789	792	796	rBV3	407	447	0.02%	0.003%
15	3.977	884	898	938	rBV	169777	442759	21.30%	2.746%
16	4.170	946	958	989	rVB	79563	206481	9.93%	1.281%
17	4.640	1089	1104	1129	rVV	119742	281663	13.55%	1.747%
18	4.878	1174	1178	1182	rBV2	480	524	0.03%	0.003%
19	4.993	1213	1214	1219	rVB2	725	480	0.02%	0.003%
20	5.334	1297	1320	1353	rBV2	246787	795529	38.27%	4.935%
21	5.881	1477	1490	1523	rBV	259916	511619	24.61%	3.174%
22	6.167	1574	1579	1580	rBV3	1460	989	0.05%	0.006%
23	6.238	1590	1601	1613	rBV5	2070	5217	0.25%	0.032%
24	6.324	1614	1628	1646	rBV	162347	323903	15.58%	2.009%
25	6.620	1712	1720	1721	rBV2	858	849	0.04%	0.005%
26	6.923	1810	1814	1822	rVB3	405	499	0.02%	0.003%
27	7.222	1893	1907	1927	rBV	95677	175714	8.45%	1.090%
28	7.366	1944	1952	1967	rVB5	3024	6846	0.33%	0.042%
29	7.466	1976	1983	1990	rBV2	1557	2118	0.10%	0.013%
30	7.559	1995	2012	2032	rBV	352115	611253	29.40%	3.792%
31	7.800	2081	2087	2091	rBV4	767	1071	0.05%	0.007%
32	7.845	2091	2101	2123	rVV	66092	116936	5.63%	0.725%
33	8.029	2155	2158	2163	rVB4	562	482	0.02%	0.003%
34	8.093	2172	2178	2179	rBV	891	663	0.03%	0.004%

LSC Area Percent Report

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Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Title : VOC Analysis

35	8.170	2192	2202	2214	rVB4	940	1923	0.09%	0.012%
36	8.305	2233	2244	2286	rVV	264272	481269	23.15%	2.985%
37	8.501	2298	2305	2308	rBV6	1358	1790	0.09%	0.011%
38	8.575	2318	2328	2337	rVV2	5810	8970	0.43%	0.056%
39	8.672	2353	2358	2365	rVB6	895	1269	0.06%	0.008%
40	8.778	2382	2391	2403	rVV6	2176	3756	0.18%	0.023%
41	8.951	2435	2445	2452	rBV5	1714	2986	0.14%	0.019%
42	9.083	2474	2486	2505	rBV	370724	639919	30.78%	3.969%
43	9.292	2538	2551	2559	rVV2	7485	13563	0.65%	0.084%
44	9.373	2561	2576	2607	rVV4	310152	651134	31.32%	4.039%
45	9.559	2626	2634	2644	rVB4	4482	7784	0.37%	0.048%
46	9.633	2648	2657	2667	rVB4	7409	12444	0.60%	0.077%
47	9.797	2701	2708	2720	rVB4	2389	4549	0.22%	0.028%
48	9.955	2750	2757	2764	rBV6	1606	2318	0.11%	0.014%
49	10.035	2776	2782	2791	rBV5	2188	3836	0.18%	0.024%
50	10.160	2809	2821	2833	rBV3	7641	14345	0.69%	0.089%
51	10.308	2857	2867	2879	rBV7	6228	11721	0.56%	0.073%
52	10.392	2880	2893	2898	rBV	229308	353263	16.99%	2.191%
53	10.556	2936	2944	2945	rBV6	2115	2687	0.13%	0.017%
54	10.643	2963	2971	2984	rVB	15977	27131	1.31%	0.168%
55	10.736	2993	3000	3006	rBV2	9654	13995	0.67%	0.087%
56	10.781	3007	3014	3023	rVV	28037	42443	2.04%	0.263%
57	10.829	3024	3029	3040	rVB4	10109	15501	0.75%	0.096%
58	10.916	3047	3056	3061	rBV6	2939	5255	0.25%	0.033%
59	10.971	3068	3073	3083	rVB4	2303	3626	0.17%	0.022%
60	11.096	3108	3112	3118	rVB4	2235	2437	0.12%	0.015%
61	11.212	3138	3148	3151	rBV5	6945	10257	0.49%	0.064%
62	11.401	3197	3207	3220	rBV2	76943	130266	6.27%	0.808%
63	11.479	3221	3231	3238	rVV	424888	673988	32.42%	4.181%
64	11.530	3238	3247	3268	rVB	1351745	2078782	100.00%	12.895%
65	11.630	3268	3278	3285	rBV3	30286	53522	2.57%	0.332%
66	11.723	3297	3307	3314	rBV	174121	271765	13.07%	1.686%
67	11.855	3337	3348	3358	rBV	373560	620748	29.86%	3.851%
68	11.916	3358	3367	3381	rVB	455803	726954	34.97%	4.509%
69	12.125	3423	3432	3446	rVB6	17653	38201	1.84%	0.237%
70	12.254	3463	3472	3483	rVB3	55766	89353	4.30%	0.554%
71	12.315	3485	3491	3496	rBV3	12140	16804	0.81%	0.104%

LSC Area Percent Report

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Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Title : VOC Analysis

72	12.405	3511	3519	3537	rVB3	58815	147133	7.08%	0.913%
73	12.508	3538	3551	3561	rBV4	85099	191370	9.21%	1.187%
74	12.620	3575	3586	3592	rBV4	38583	69746	3.36%	0.433%
75	12.691	3600	3608	3621	rVB	316213	494200	23.77%	3.066%
76	12.781	3622	3636	3653	rBV	301501	486983	23.43%	3.021%
77	12.999	3696	3704	3713	rBV2	47899	82054	3.95%	0.509%
78	13.118	3733	3741	3749	rBV	121549	179412	8.63%	1.113%
79	13.167	3750	3756	3764	rVB	60021	80670	3.88%	0.500%
80	13.343	3800	3811	3820	rBV3	60885	106716	5.13%	0.662%
81	13.414	3823	3833	3845	rVV5	122745	259431	12.48%	1.609%
82	13.498	3847	3859	3868	rVV5	54372	126853	6.10%	0.787%
83	13.546	3869	3874	3885	rVB3	18721	26312	1.27%	0.163%
84	13.646	3892	3905	3926	rBV	491080	832805	40.06%	5.166%
85	13.974	3997	4007	4017	rBV	190843	311097	14.97%	1.930%
86	14.032	4017	4025	4043	rVV2	155352	345708	16.63%	2.144%
87	14.112	4045	4050	4066	rVB	25235	38027	1.83%	0.236%
88	14.253	4086	4094	4103	rBV	73184	109288	5.26%	0.678%
89	14.433	4139	4150	4165	rBV7	108665	240756	11.58%	1.493%
90	14.835	4266	4275	4286	rVB	259149	398480	19.17%	2.472%
91	14.903	4289	4296	4314	rVB5	48497	106414	5.12%	0.660%
92	15.022	4323	4333	4339	rBV5	59624	120375	5.79%	0.747%
93	15.192	4380	4386	4389	rBV4	7474	10070	0.48%	0.062%
94	15.305	4416	4421	4429	rBV2	22794	30186	1.45%	0.187%
95	15.401	4445	4451	4459	rBV2	9086	13066	0.63%	0.081%
96	15.716	4542	4549	4554	rBV5	11108	17348	0.83%	0.108%
97	15.851	4583	4591	4612	rVB9	26753	69161	3.33%	0.429%
98	16.038	4639	4649	4663	rBV5	32141	65674	3.16%	0.407%
99	16.488	4777	4789	4800	rVB10	13844	27099	1.30%	0.168%
100	16.671	4838	4846	4864	rBV3	31721	54434	2.62%	0.338%

Sum of corrected areas: 16121150

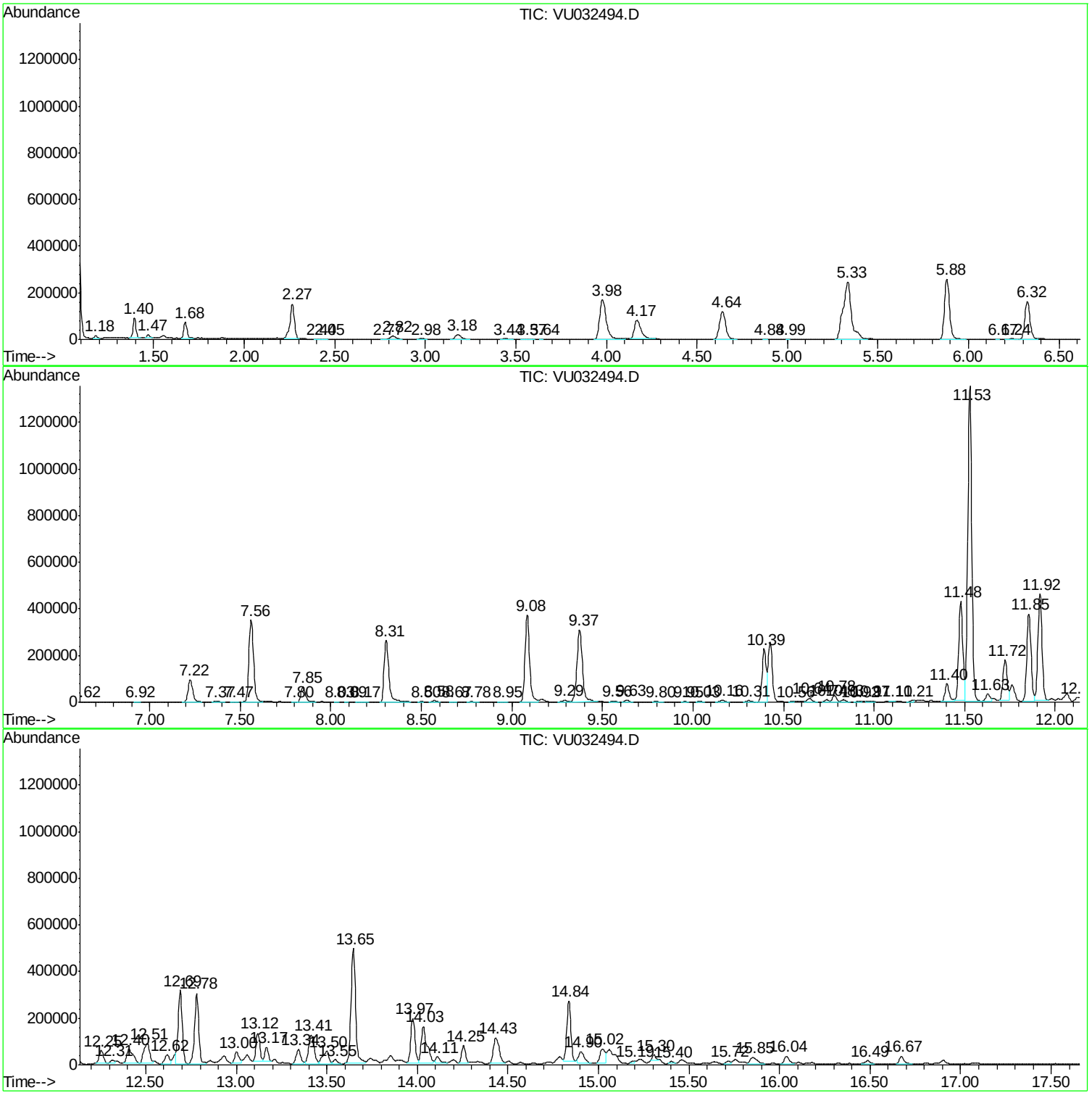
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

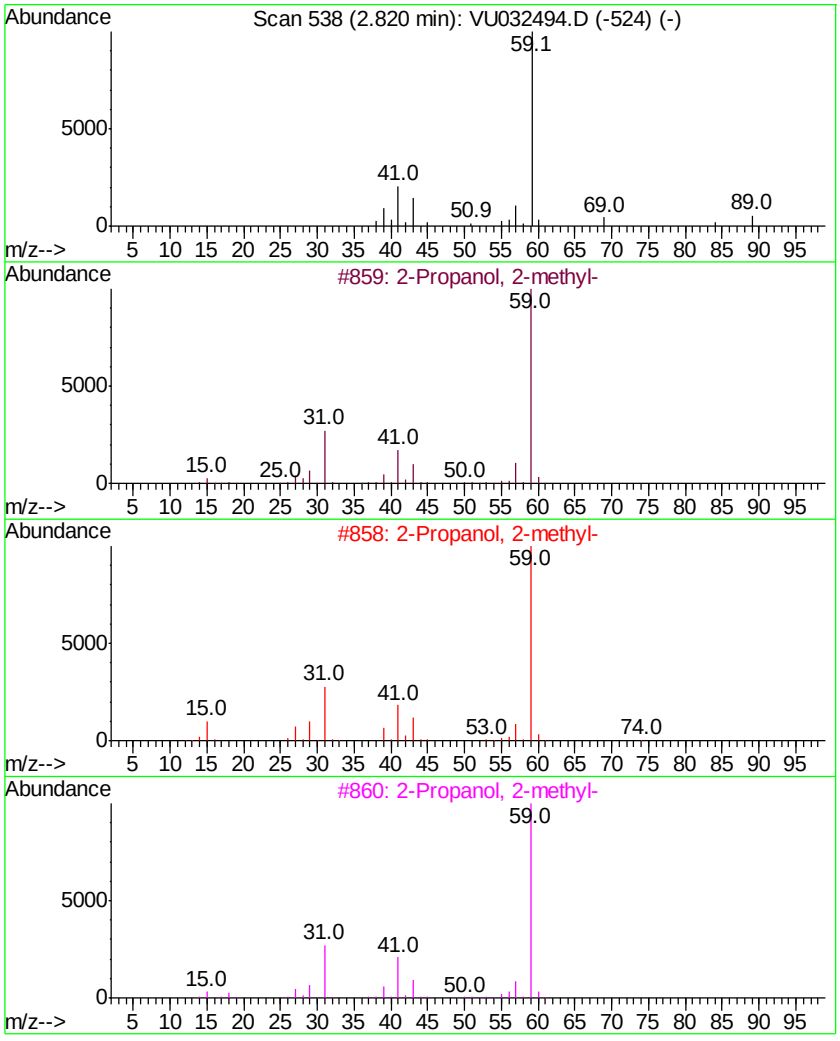
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

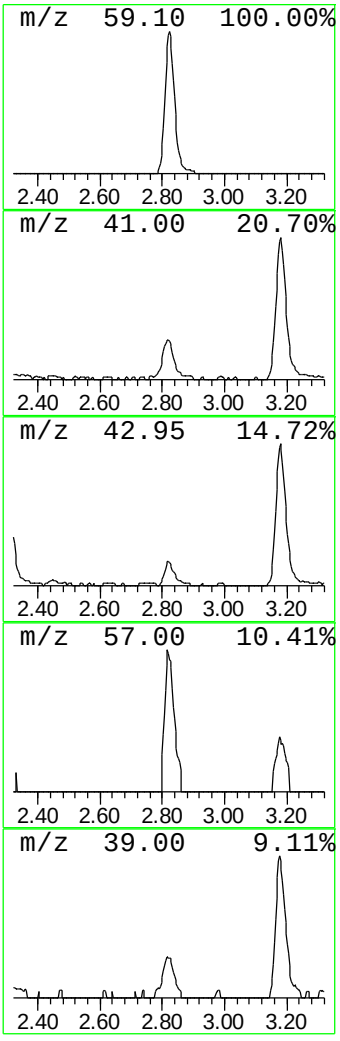
****

Peak Number 1 2-Propanol, 2-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.82	2.89 ug/L	29615	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	56
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	56
3	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	56
4	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	50
5	Propanoic acid, 2-methoxy-, meth...	118	C5H10O3	017639-76-8	40





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

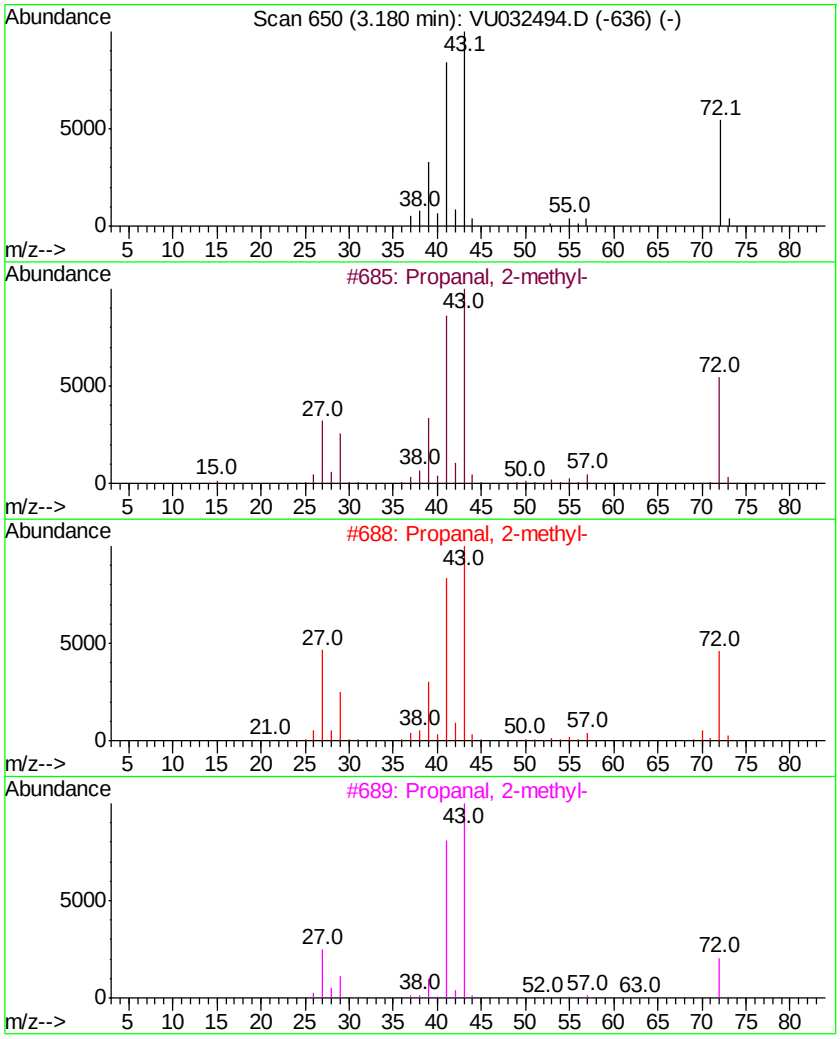
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

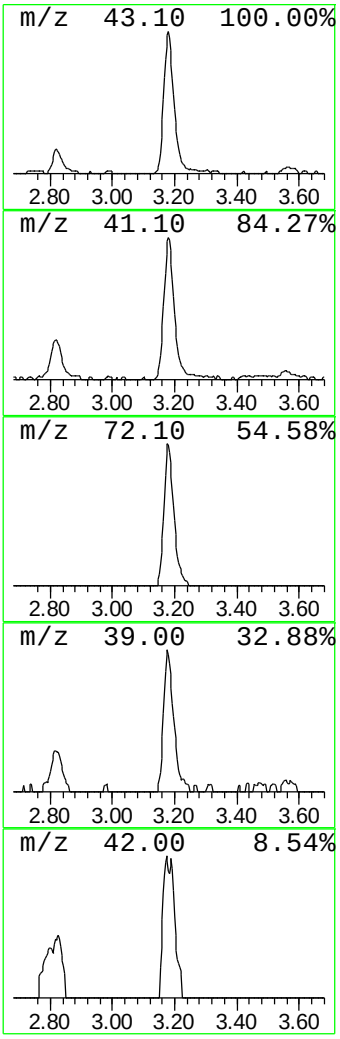
****

Peak Number 2 Propanal, 2-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.18	4.76 ug/L	48666	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 2-methyl-	72	C4H8O	000078-84-2	91
2	Propanal, 2-methyl-	72	C4H8O	000078-84-2	91
3	Propanal, 2-methyl-	72	C4H8O	000078-84-2	80
4	Propanal, 2-methyl-	72	C4H8O	000078-84-2	78
5	1-Propene, 3-methoxy-	72	C4H8O	000627-40-7	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032494.D
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ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

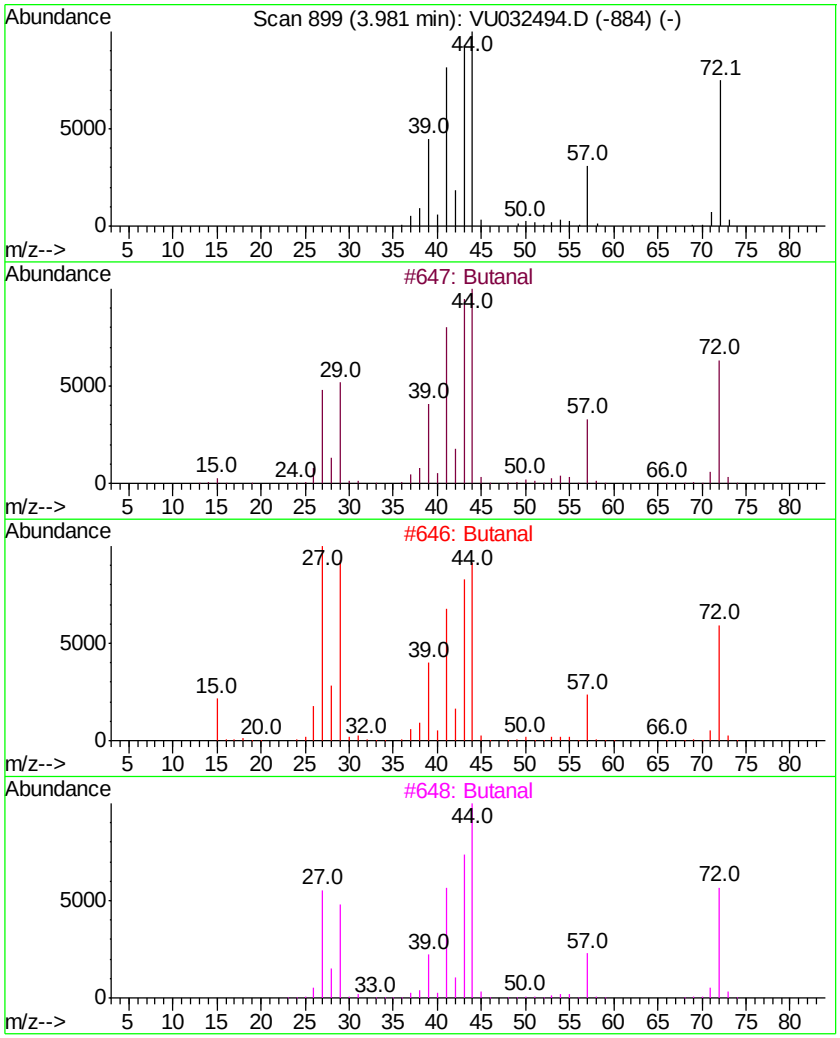
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

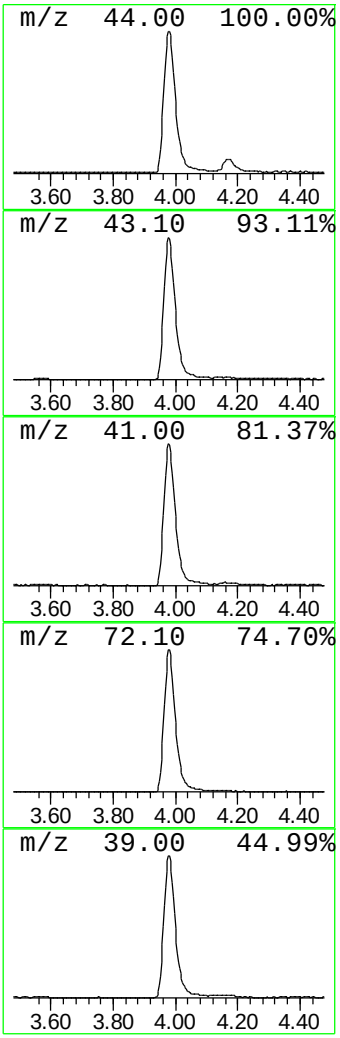
****

Peak Number 3 Butanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	43.27 ug/L	442759	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	94
2	Butanal	72	C4H8O	000123-72-8	91
3	Butanal	72	C4H8O	000123-72-8	74
4	Butanal	72	C4H8O	000123-72-8	72
5	Propanal, 2-methyl-	72	C4H8O	000078-84-2	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
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Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

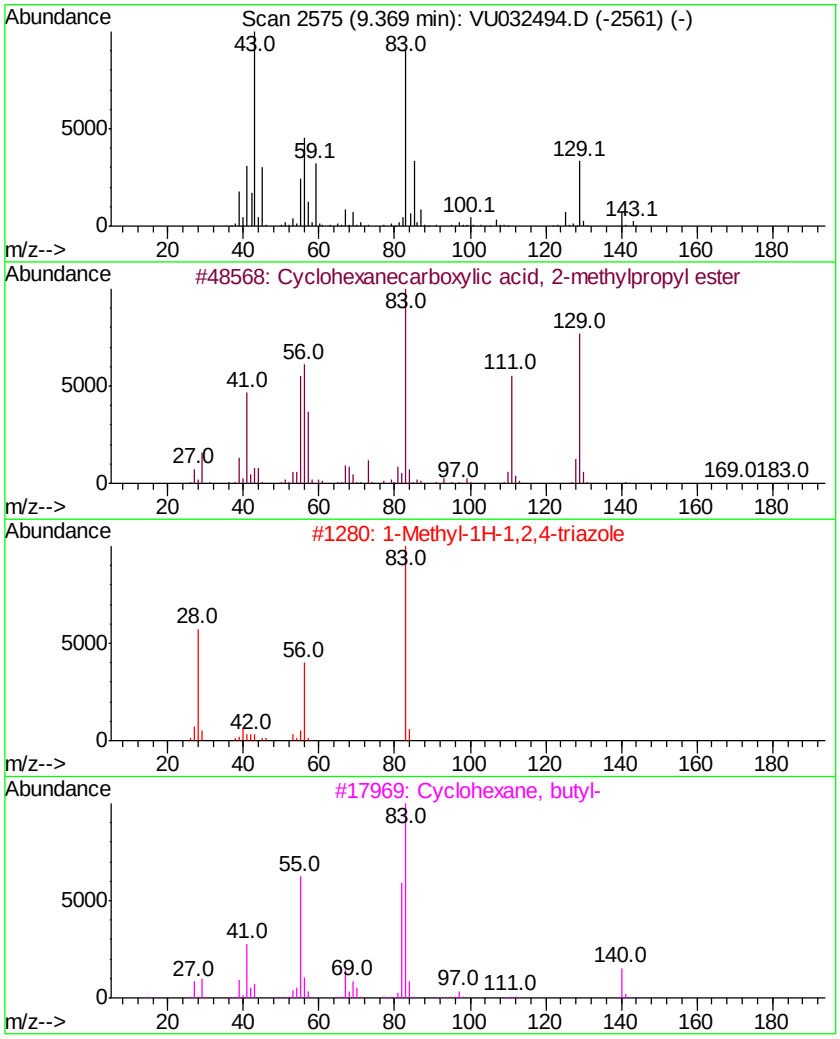
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

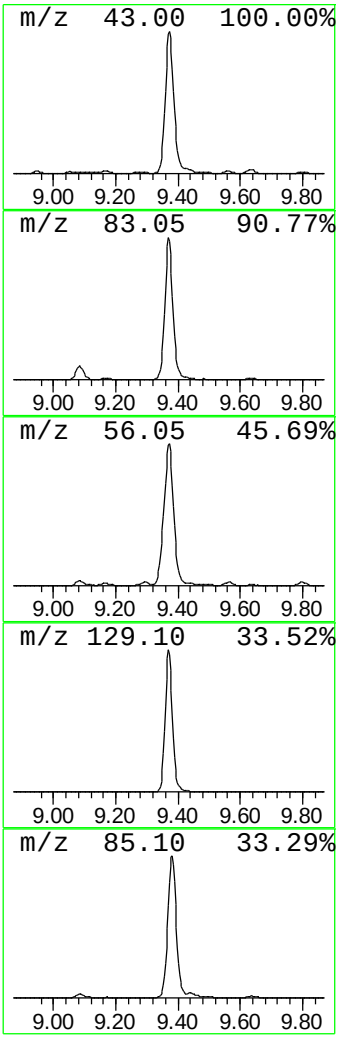
****

Peak Number 5 unknown-01 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	50.88 ug/L	651134	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanecarboxylic acid, 2-me...	184	C11H20O2	037139-85-8	43
2	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	35
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	25
4	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	14
5	1,5-Dicyano-2,4-dimethyl-2,4-dia...	152	C7H12N4	1000289-23-5	14





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

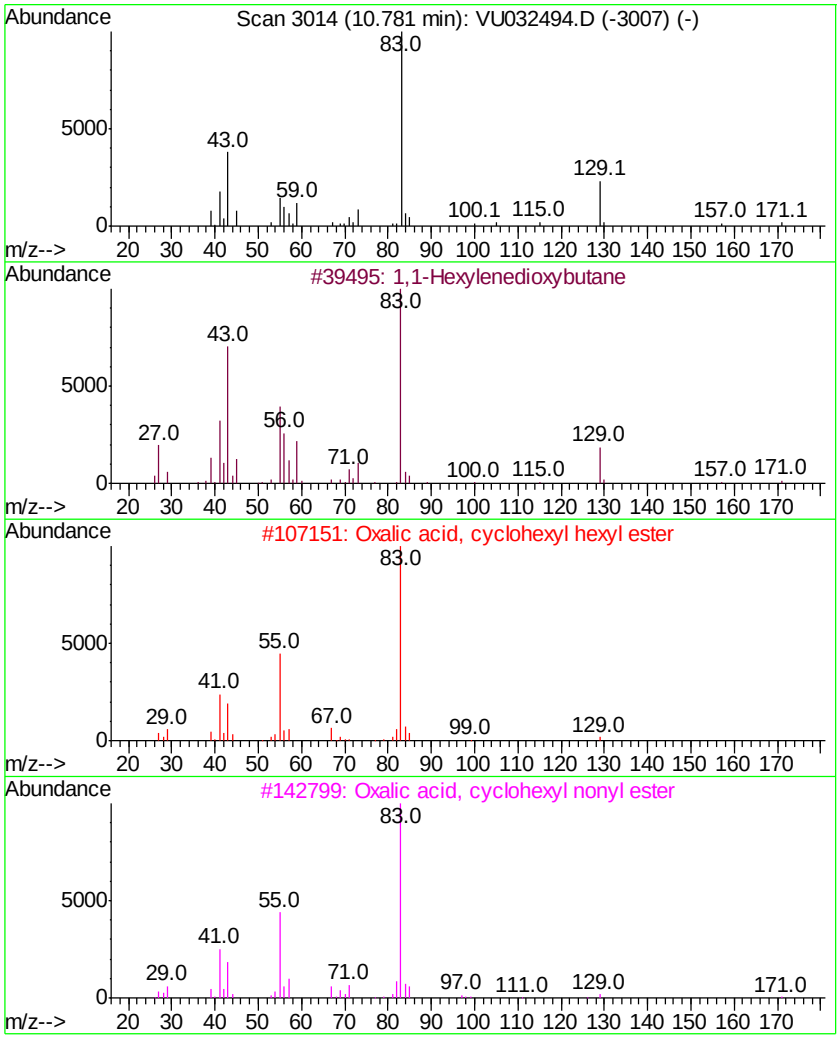
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

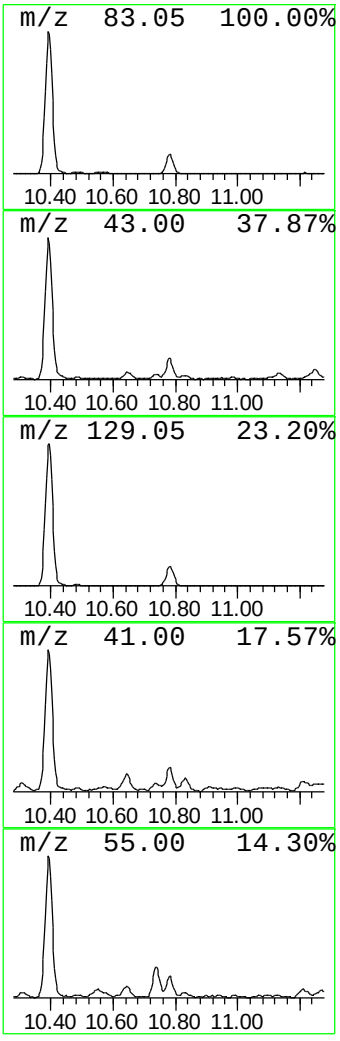
****

Peak Number 6 1,1-Hexylenedioxybutane Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	3.15 ug/L	42443	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	53
2	Oxalic acid, cyclohexyl hexyl ester	256	C14H24O4	1000309-30-8	53
3	Oxalic acid, cyclohexyl nonyl ester	298	C17H30O4	1000309-31-1	50
4	Oxalic acid, cyclohexyl decyl ester	312	C18H32O4	1000309-31-2	50
5	Bis(2-ethylhexyl) hydrogen phosp...	306	C16H35O3P	003658-48-8	40





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

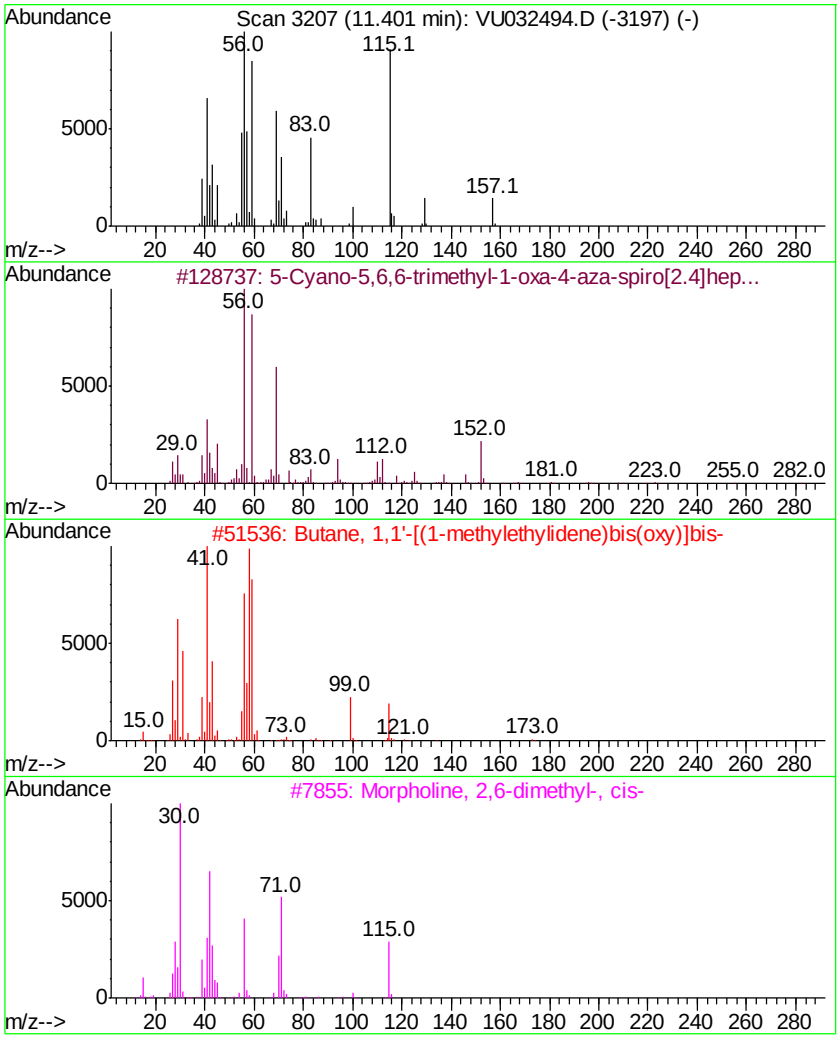
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

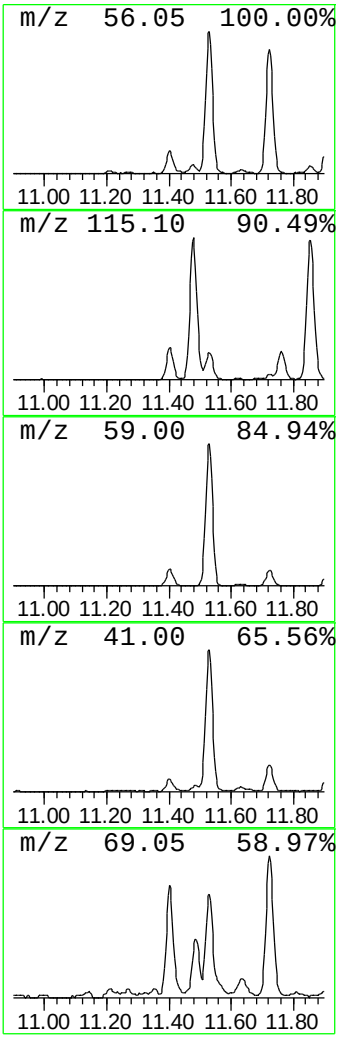
****

Peak Number 7 unknown-02 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	9.66 ug/L	130266	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Cyano-5,6,6-trimethyl-1-oxa-4-...	282	C13H18N2O5	1000193-01-2	43
2	Butane, 1,1'-[(1-methylethyliden...	188	C11H24O2	000141-72-0	40
3	Morpholine, 2,6-dimethyl-, cis-	115	C6H13NO	006485-55-8	38
4	1H-1,2,4-Triazole, 3-thiol-5-met...	115	C3H5N3S	007271-44-5	27
5	Thiazole, 5-methoxy-	115	C4H5NOS	014542-14-4	14





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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

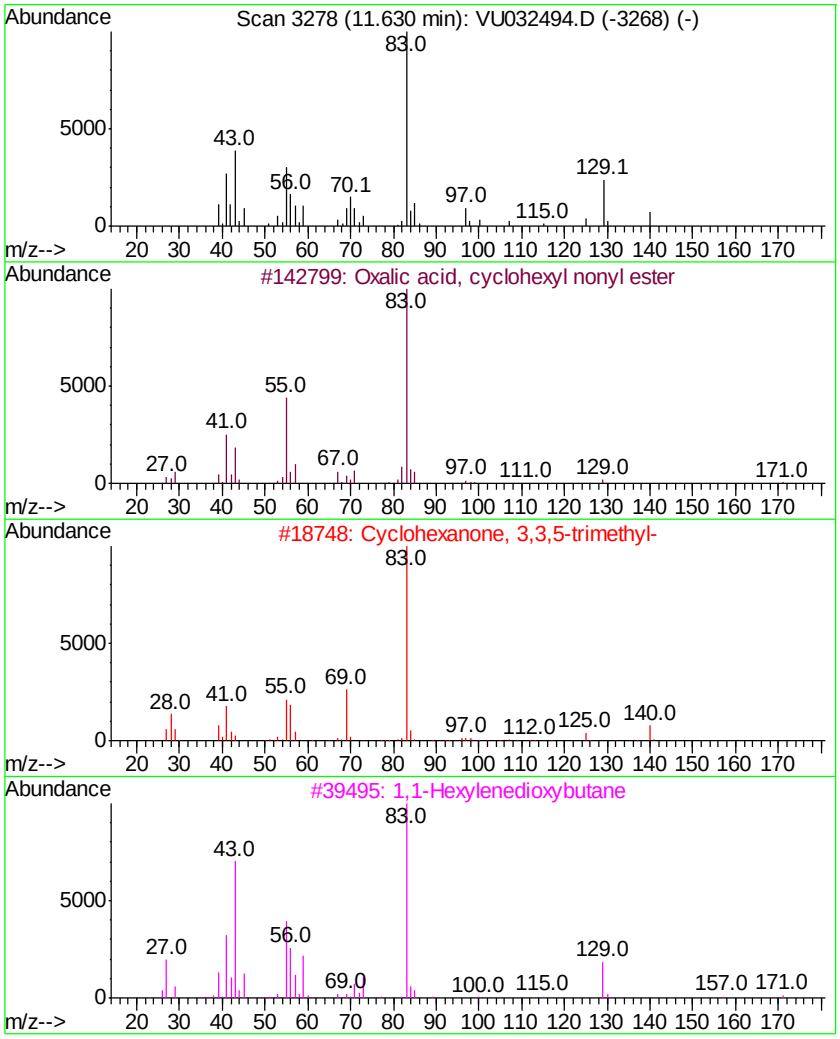
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

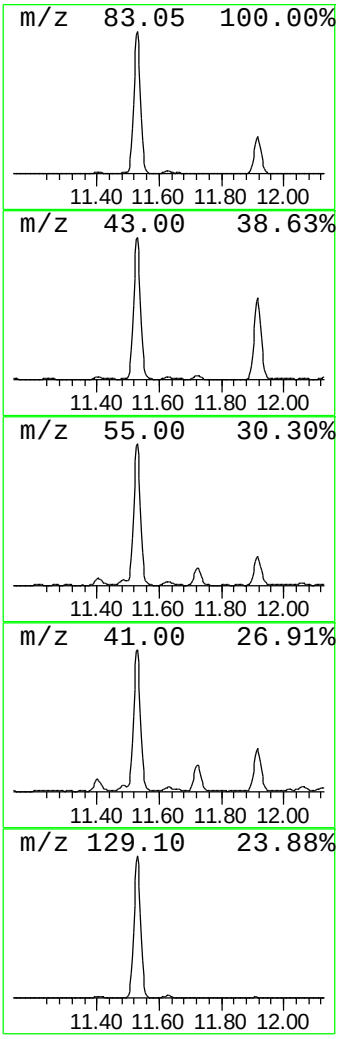
****

Peak Number 9 Oxalic acid, cyclohexyl non... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.63	3.97 ug/L	53522	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexyl nonyl ester	298	C17H30O4	1000309-31-1	53
2	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	47
3	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	45
4	1H-Imidazol-2-amine	83	C3H5N3	007720-39-0	38
5	1,3-Cyclohexanedione, 5,5-dimethyl-	140	C8H12O2	000126-81-8	38





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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

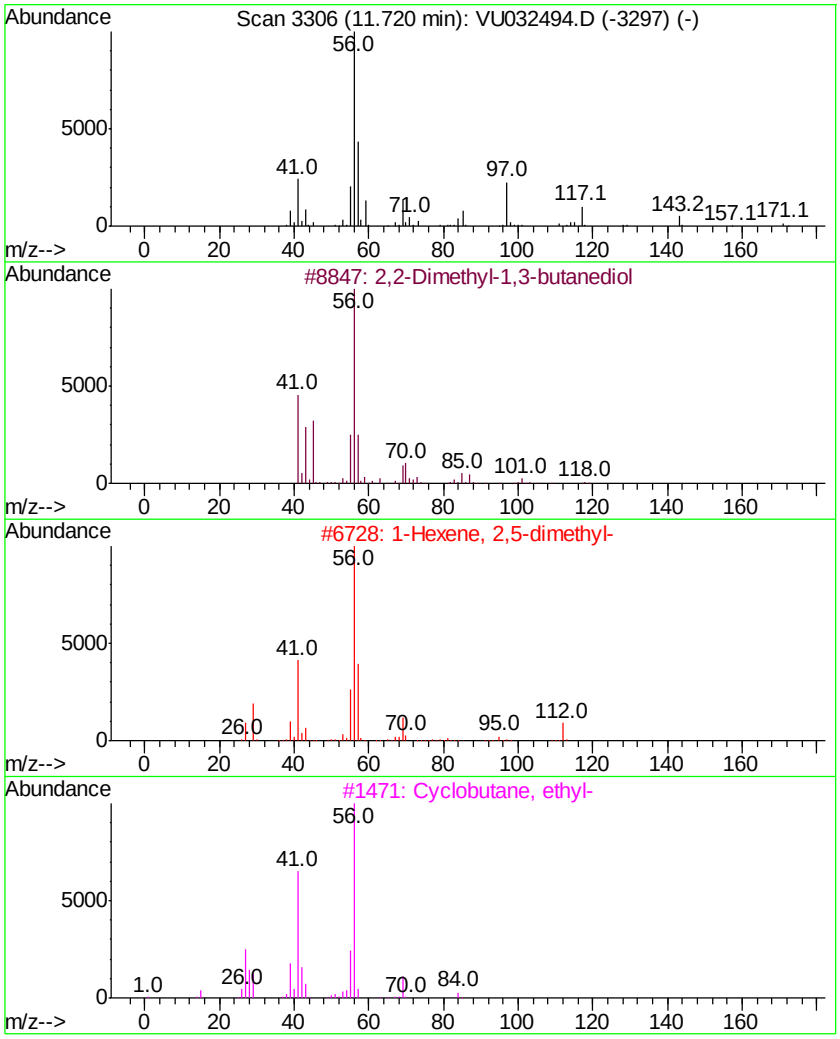
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

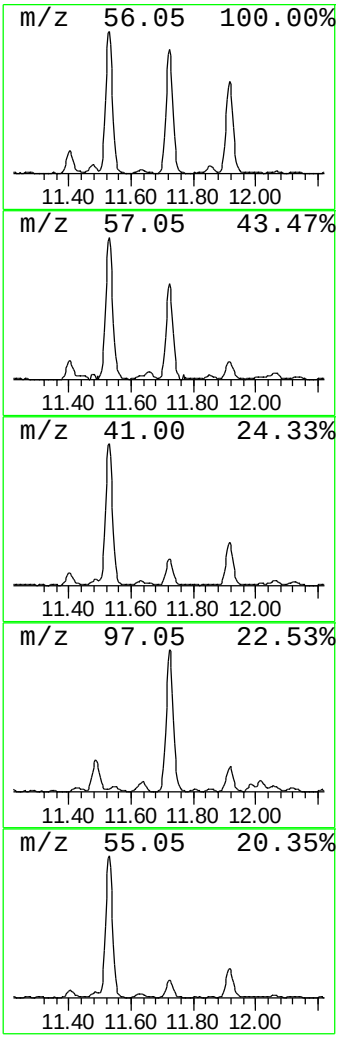
****

Peak Number 10 2,2-Dimethyl-1,3-butanediol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	20.16 ug/L	271765	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	50
2	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	47
3	Cyclobutane, ethyl-	84	C6H12	004806-61-5	47
4	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	40
5	Cyclopentanamine	85	C5H11N	001003-03-8	38





Library Search Compound Report

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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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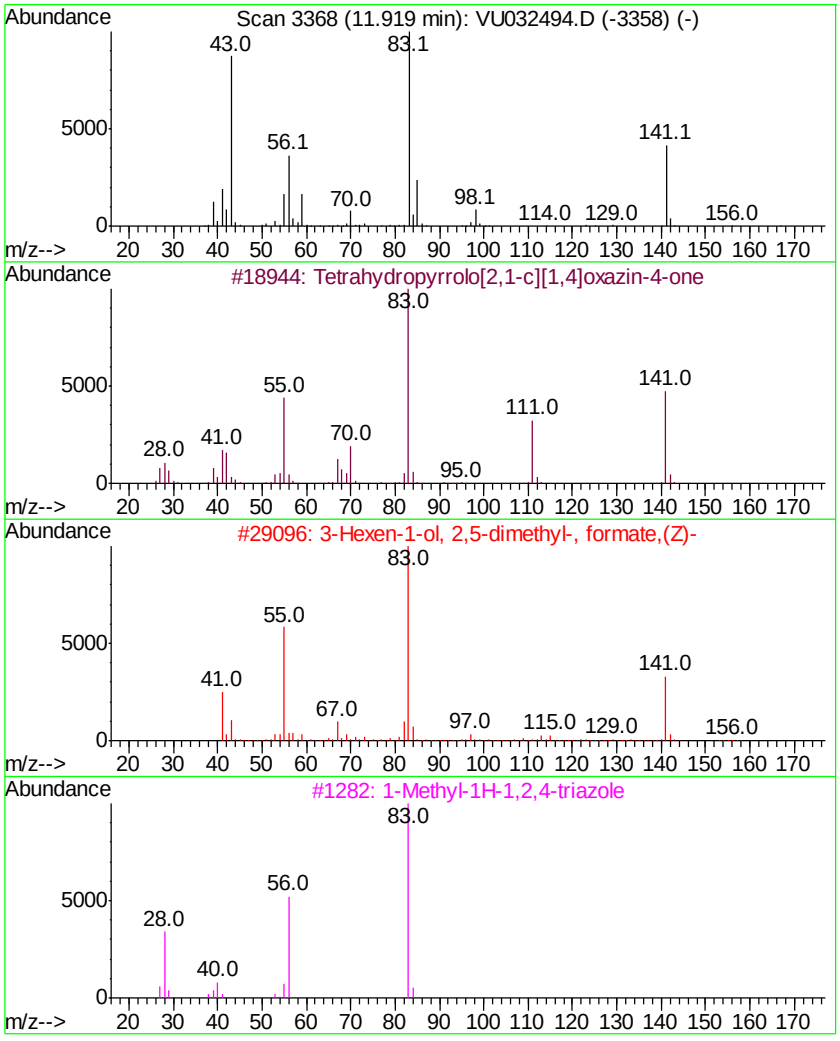
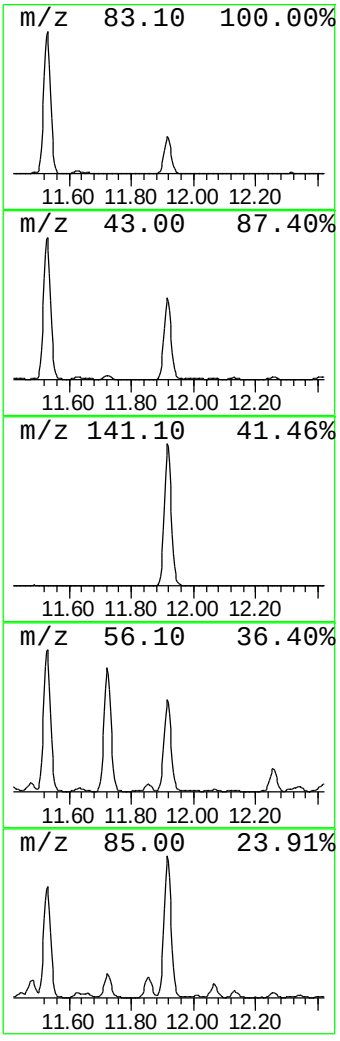
Peak Number 11 unknown-03 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	53.93 ug/L	726954	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetrahydropyrrolo[2,1-c][1,4]oxa...	141	C7H11NO2	101250-37-7	47
2	3-Hexen-1-ol, 2,5-dimethyl-, for...	156	C9H16O2	1000132-12-3	38
3	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	32
4	2,4-Dimethylpentan-3-yl (E)-2-me...	198	C12H22O2	1000373-75-5	17
5	3-Methyl-2-butenoic acid, pent-2...	164	C10H12O2	1000299-31-0	12





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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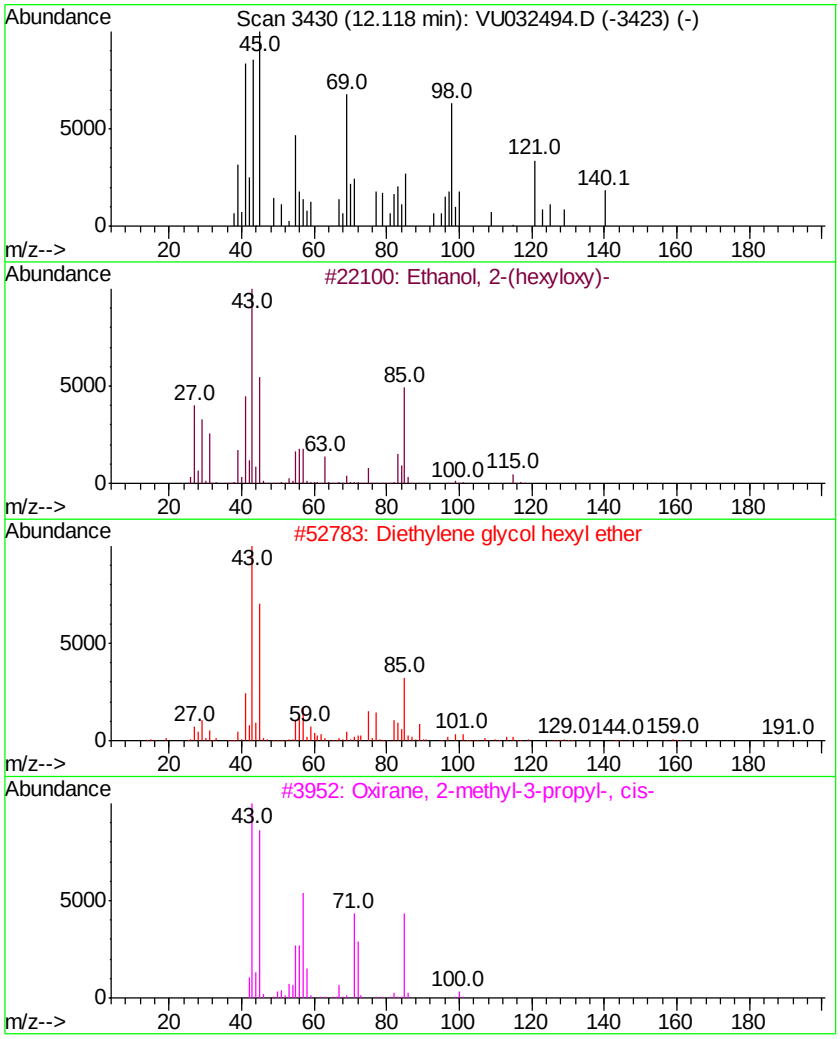
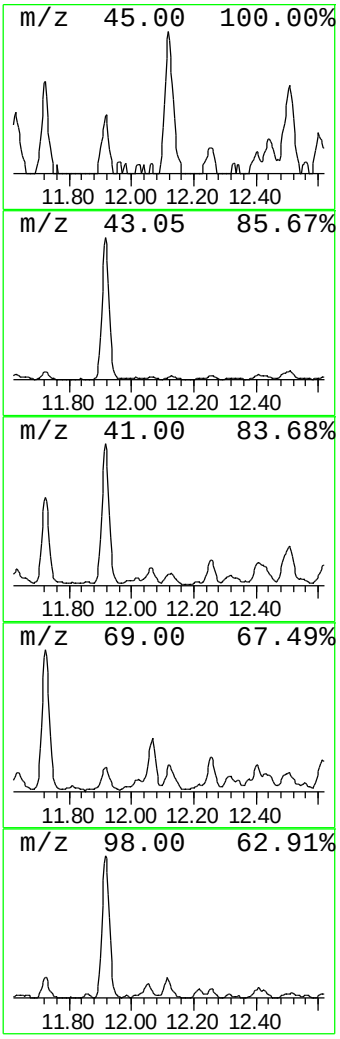
Peak Number 12 unknown-04 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	2.83 ug/L	38201	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(hexyloxy)-	146	C8H18O2	000112-25-4	35
2	Diethylene glycol hexyl ether	190	C10H22O3	000112-59-4	35
3	Oxirane, 2-methyl-3-propyl-, cis-	100	C6H12O	006124-90-9	32
4	Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	27
5	Sulfurous acid, decyl 2-propyl e...	264	C13H28O3S	1000309-12-1	27





Library Search Compound Report

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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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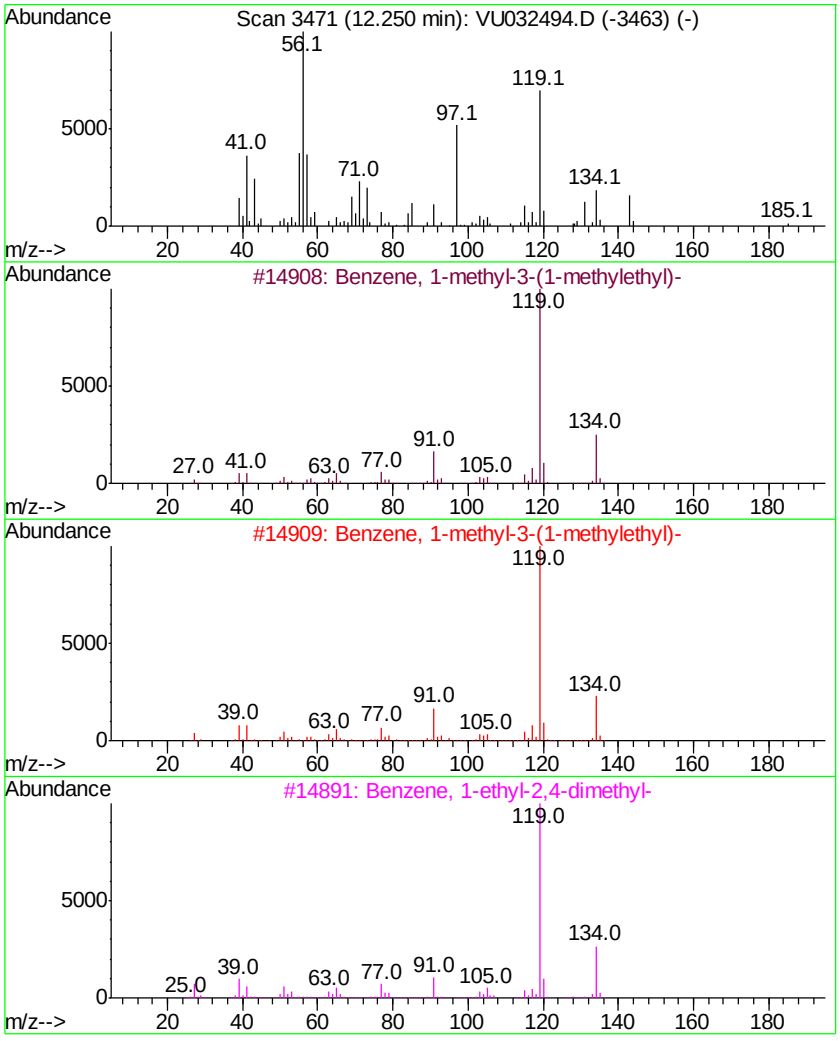
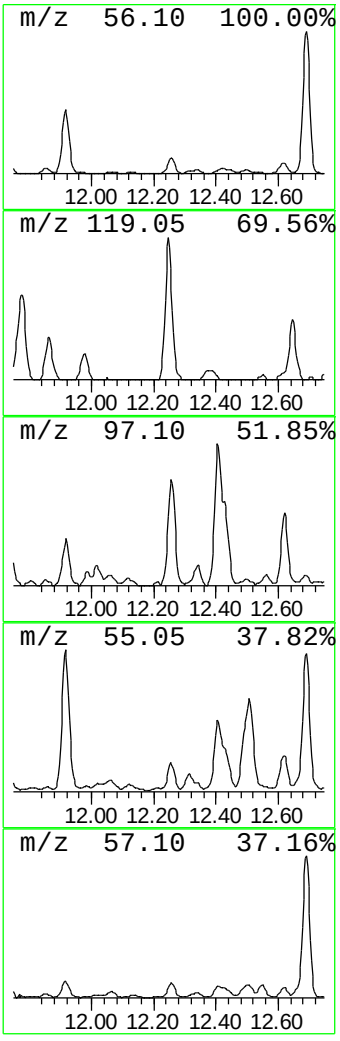
Peak Number 13 unknown-05 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	6.63 ug/L	89353	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	25
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	25
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	25
4	o-Cymene	134	C10H14	000527-84-4	25
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	25





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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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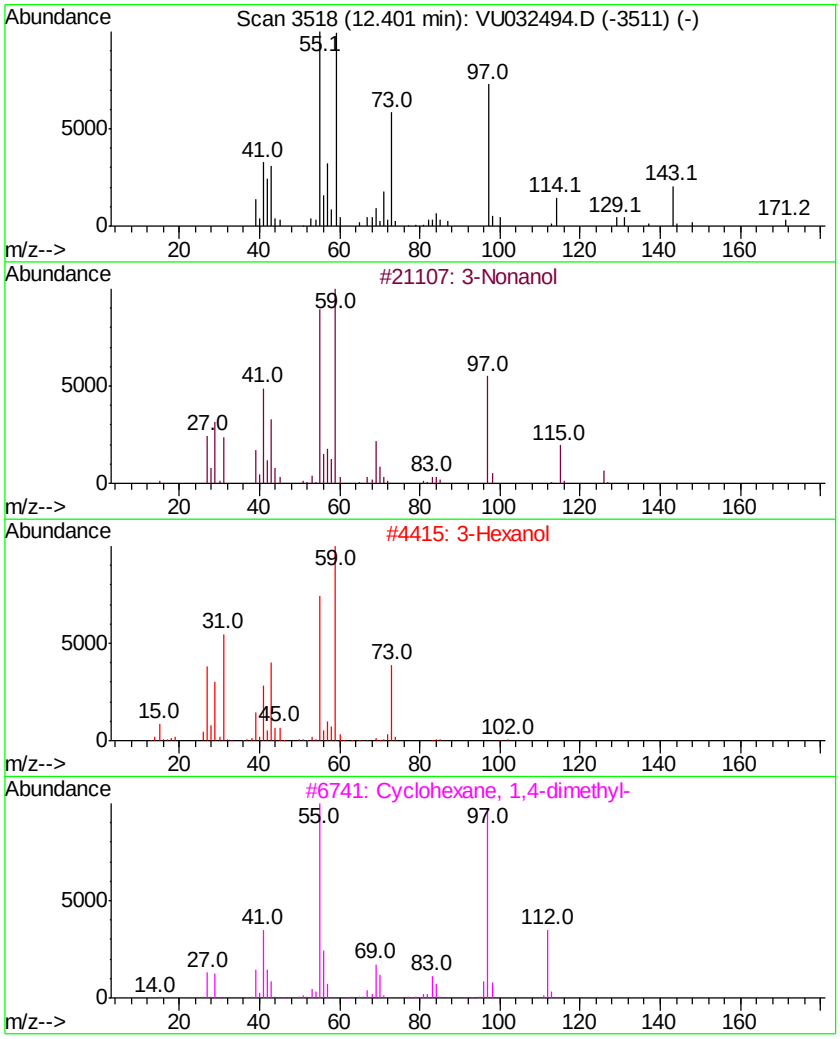
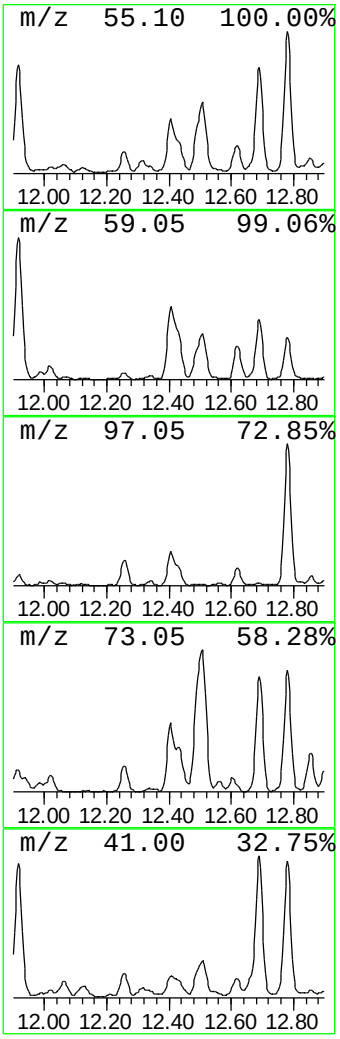
Peak Number 14 unknown-06 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	10.92 ug/L	147133	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Nonanol	144	C9H20O	000624-51-1	45
2	3-Hexanol	102	C6H14O	000623-37-0	27
3	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	25
4	Sulfurous acid, cyclohexylmethyl...	430	C25H50O3S	1000309-22-6	25
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	25





Library Search Compound Report

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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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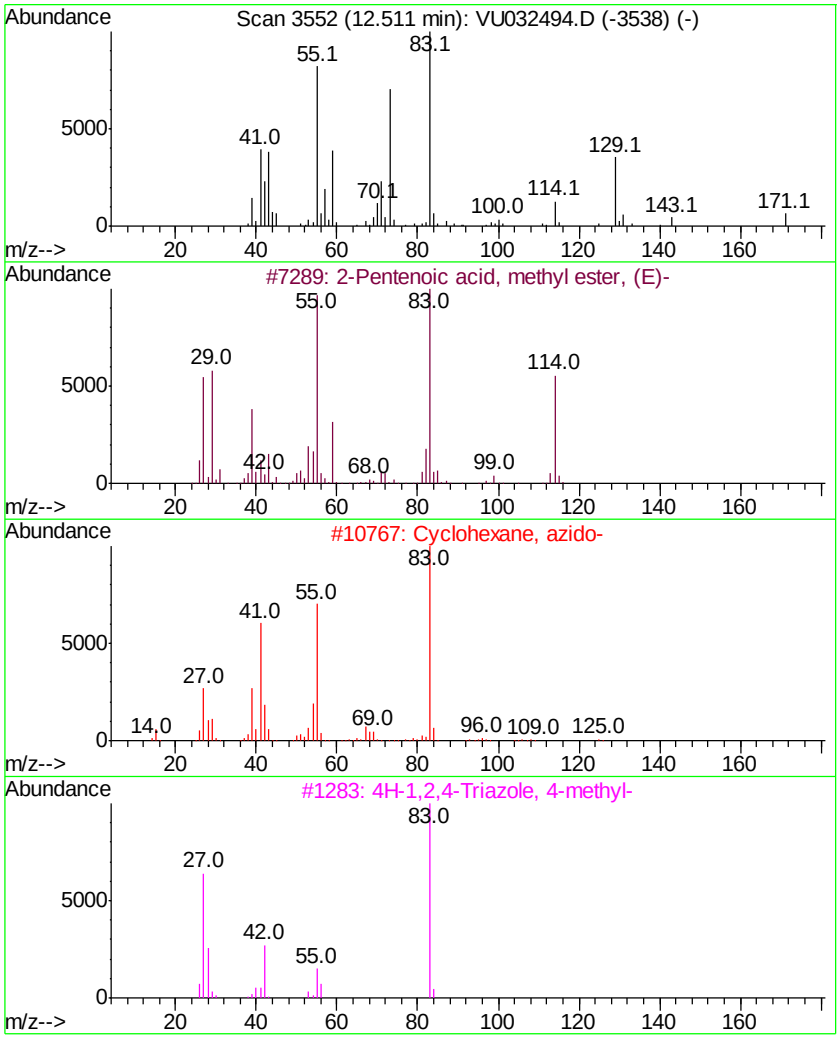
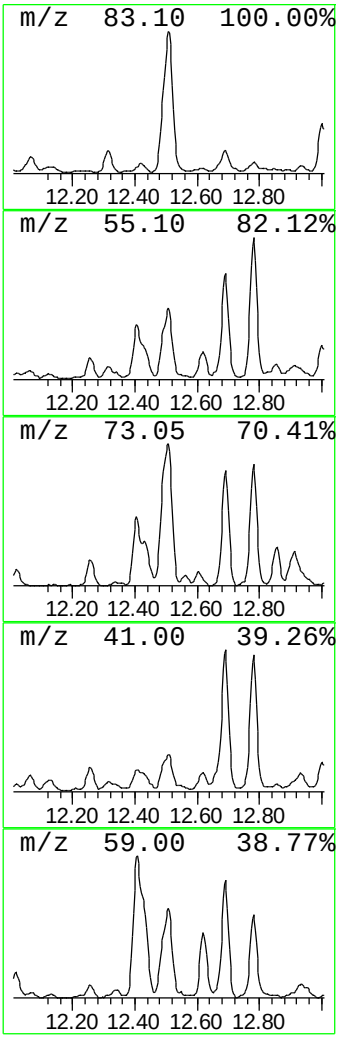
Peak Number 15 unknown-07 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	14.20 ug/L	191370	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentenoic acid, methyl ester, ...	114	C6H10O2	015790-88-2	47
2	Cyclohexane, azido-	125	C6H11N3	019573-22-9	38
3	4H-1,2,4-Triazole, 4-methyl-	83	C3H5N3	010570-40-8	27
4	Oxalic acid, cyclohexyl butyl ester	228	C12H20O4	1000309-30-5	27
5	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	16





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Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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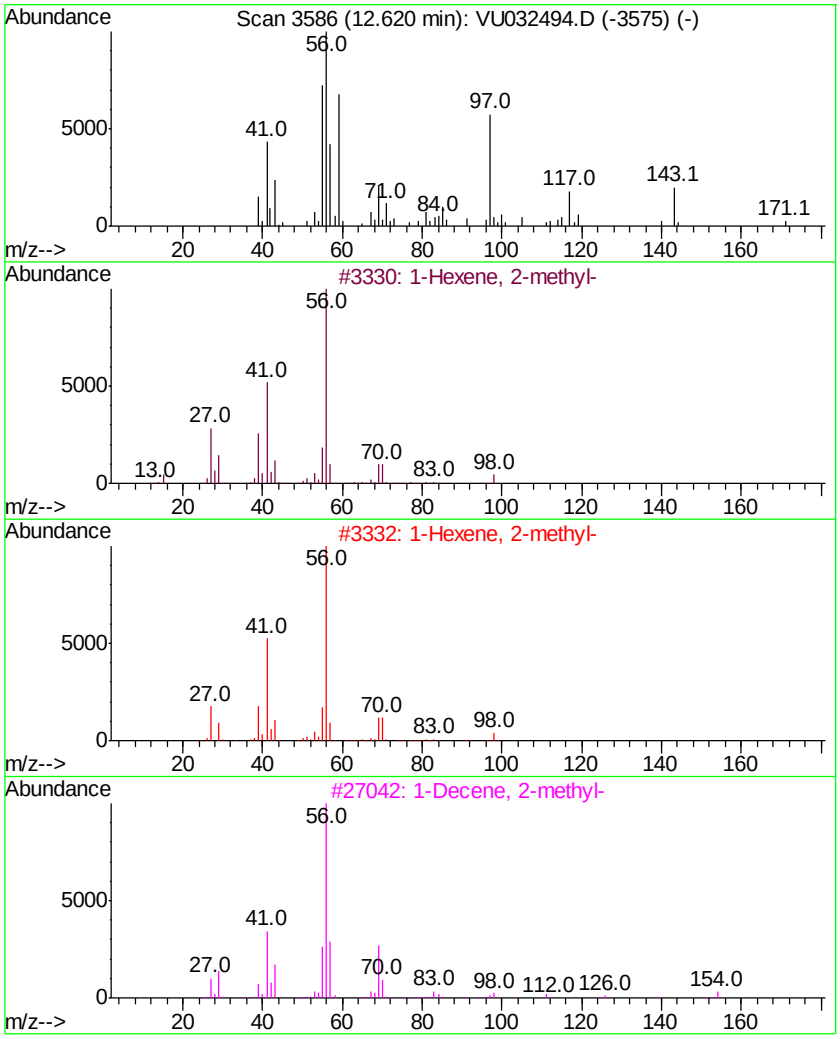
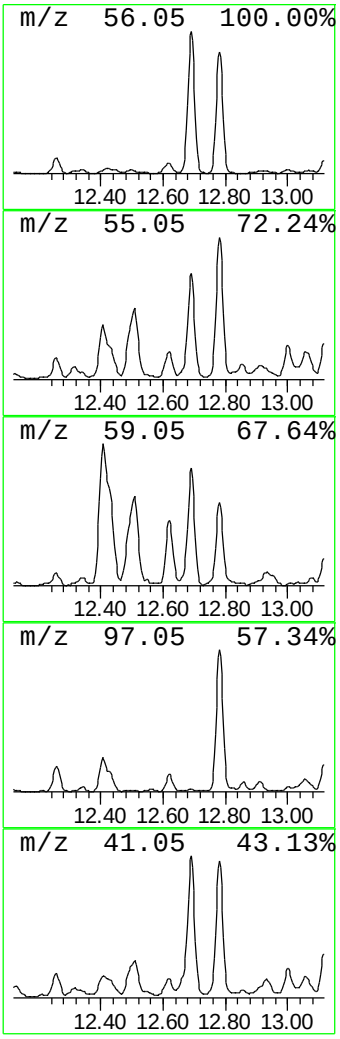
Peak Number 16 (DEL) Alkane: Cyclic12.62 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	5.17 ug/L	69746	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
2	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
3	1-Decene, 2-methyl-	154	C11H22	013151-27-4	27
4	Propane, 2-cyclopropyl-	84	C6H12	003638-35-5	25
5	2-Methyl-1-nonene	140	C10H20	002980-71-4	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

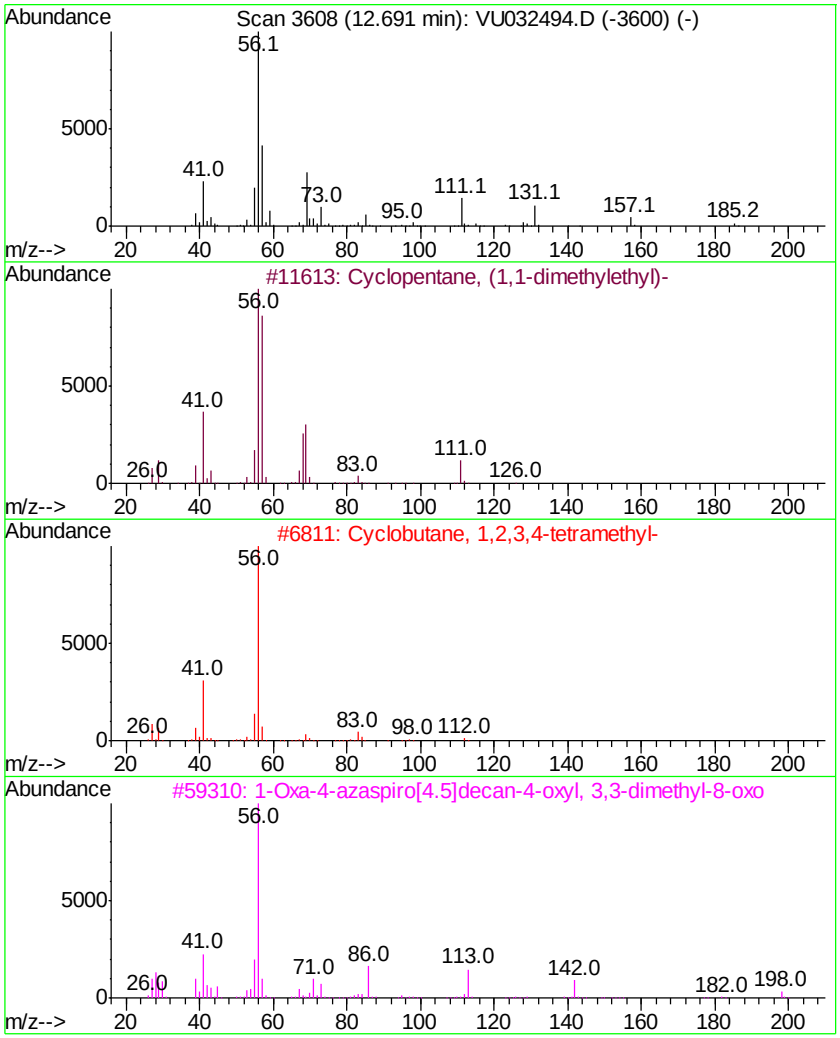
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

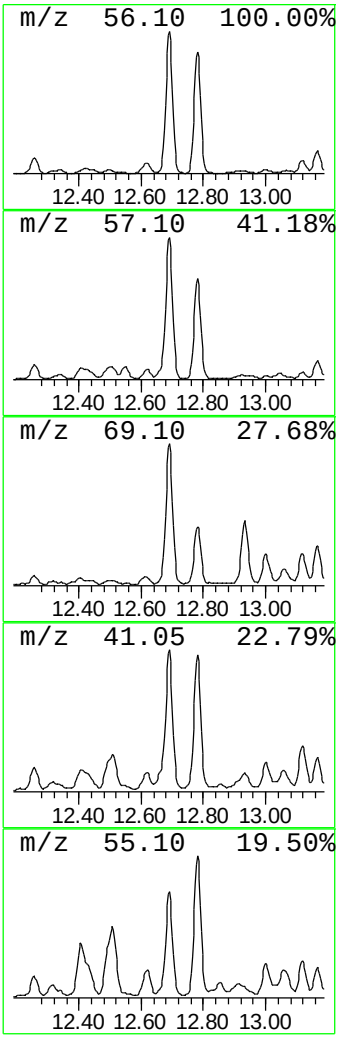
****

Peak Number 17 (DEL) Alkane: Cyclic12.69 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	36.66 ug/L	494200	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, (1,1-dimethylethyl)-	126	C9H18	003875-52-3	40
2	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	38
3	1-Oxa-4-azaspiro[4.5]decan-4-oxy...	198	C10H16NO3	1000115-84-0	33
4	1-Butanamine, N-ethylidene-	99	C6H13N	006898-74-4	33
5	cis-2,3-Epoxyoctane	128	C8H16O	023024-54-6	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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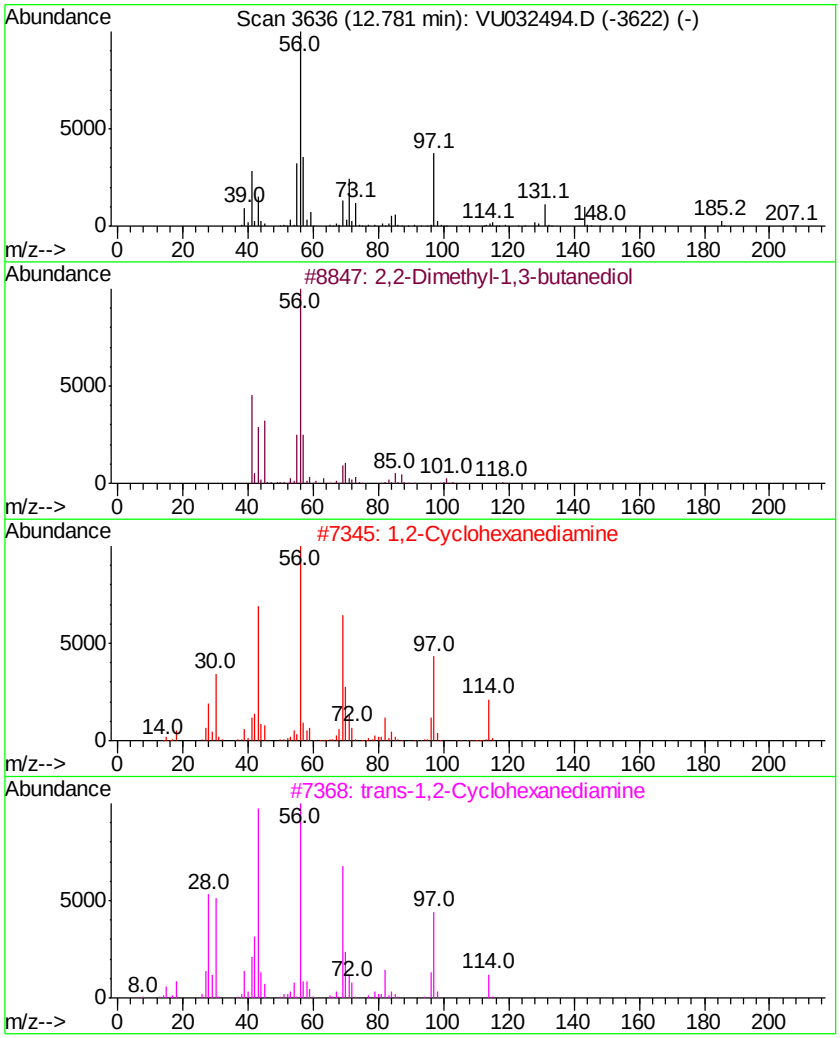
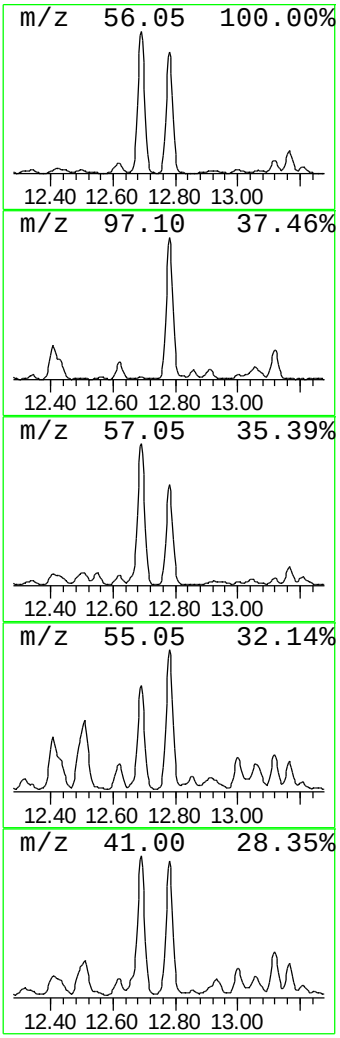
Peak Number 18 unknown-08 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	36.13 ug/L	486983	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	37
2	1,2-Cyclohexanediamine	114	C6H14N2	000694-83-7	33
3	trans-1,2-Cyclohexanediamine	114	C6H14N2	001121-22-8	33
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	32
5	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	23





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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

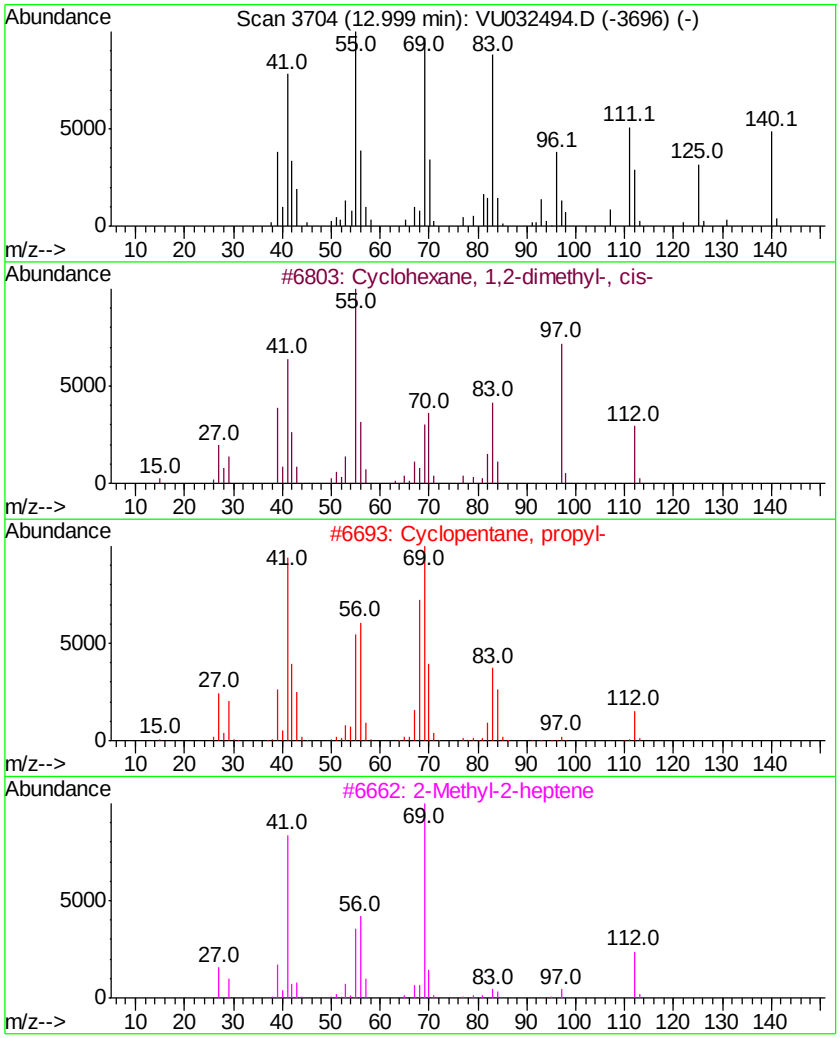
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

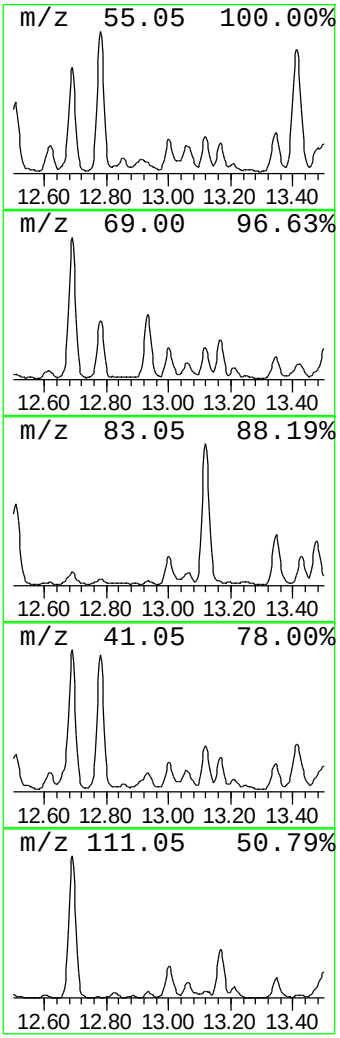
****

Peak Number 19 (DEL) Alkane: Cyclic13.00 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	6.09 ug/L	82054	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	45
2	Cyclopentane, propyl-	112	C8H16	002040-96-2	38
3	2-Methyl-2-heptene	112	C8H16	000627-97-4	38
4	Pentane, 3-methylene-	84	C6H12	000760-21-4	38
5	(Z)-5-Decene	140	C10H20	007433-78-5	35





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

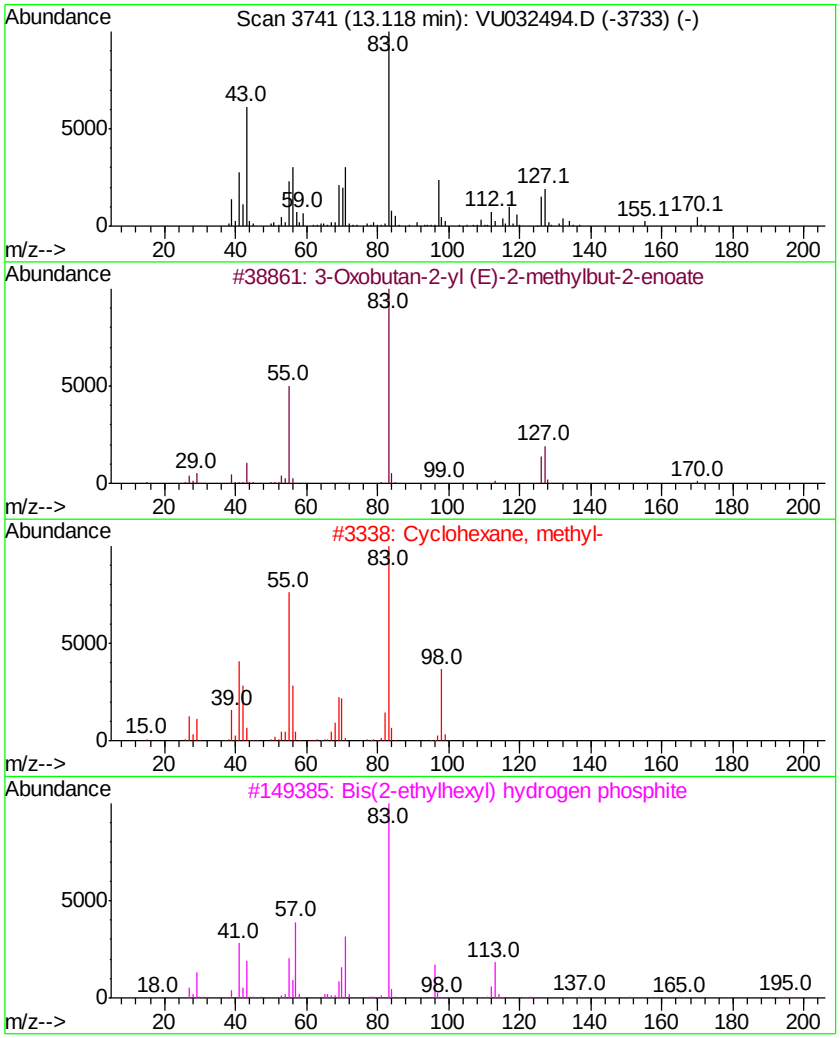
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

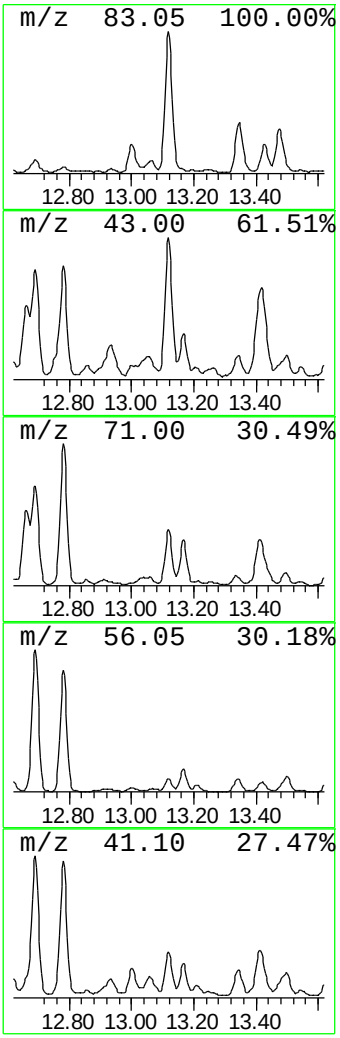
****

Peak Number 20 unknown-09 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	13.31 ug/L	179412	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Oxobutan-2-yl (E)-2-methylbut-...	170	C9H14O3	1000373-71-9	43
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	37
3	Bis(2-ethylhexyl) hydrogen phosp...	306	C16H35O3P	003658-48-8	37
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	37
5	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	35





Library Search Compound Report

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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

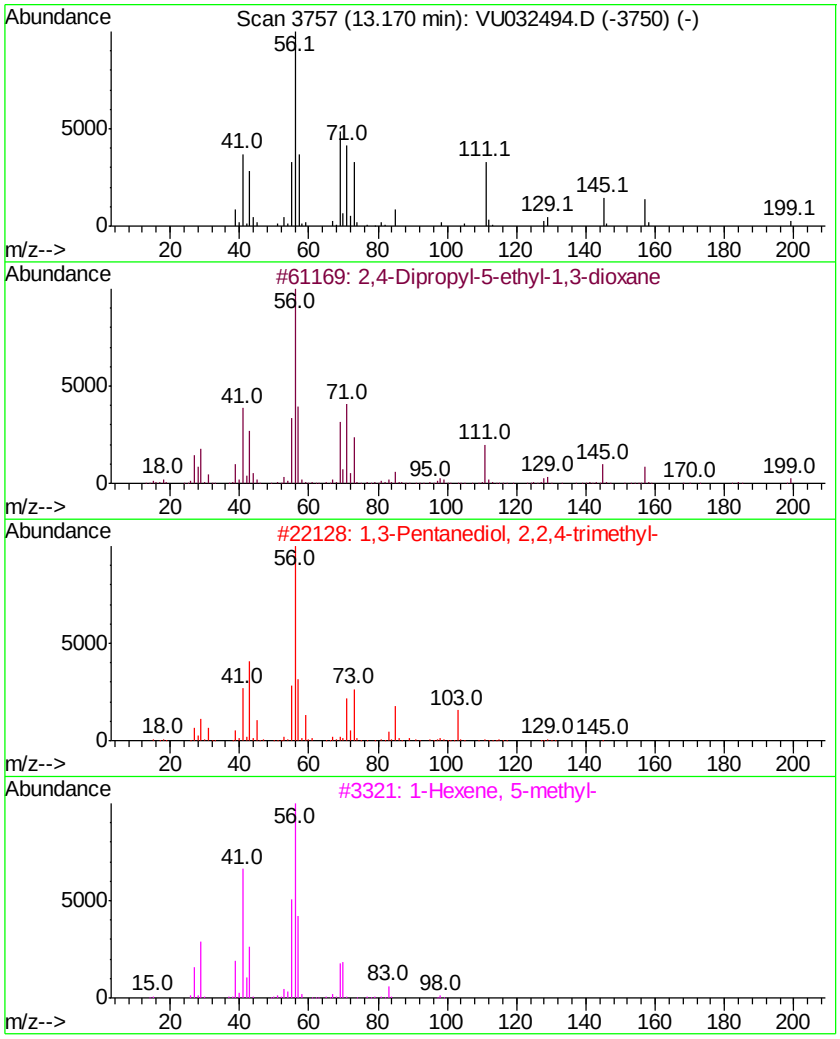
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

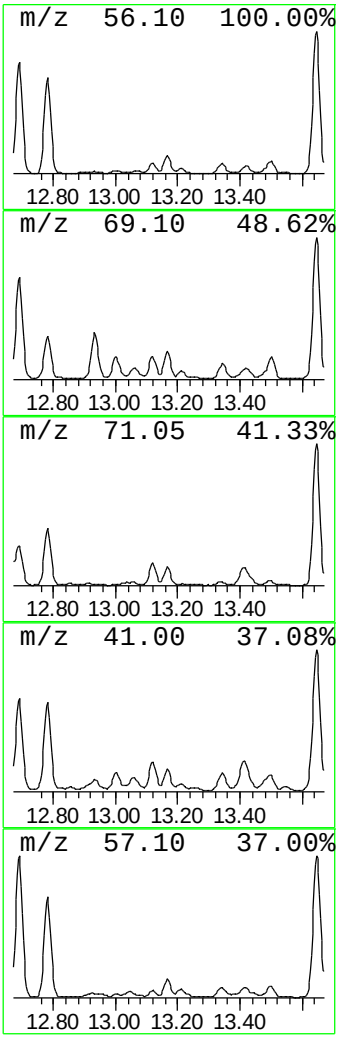
****

Peak Number 21 2,4-Dipropyl-5-ethyl-1,3-di... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	5.98 ug/L	80670	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	86
2	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	28
3	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	27
4	Hexanoic acid, 5-hydroxy-3-methy...	128	C7H12O2	003720-20-5	25
5	2H-Pyran-2-one, tetrahydro-3,5-d...	128	C7H12O2	003290-57-1	17





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

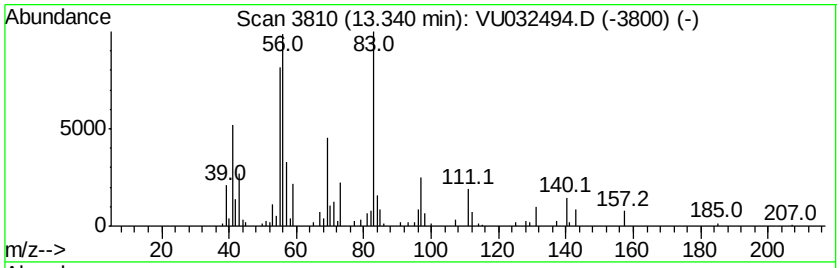
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

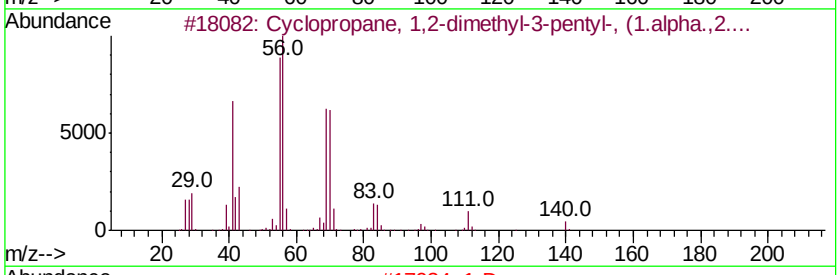
****

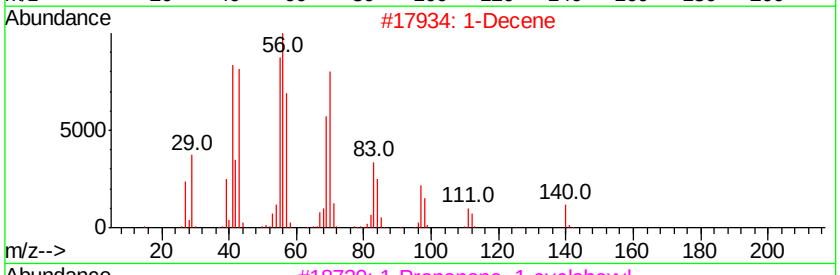
Peak Number 22 (DEL) Alkane: Cyclic13.34 Concentration Rank 22

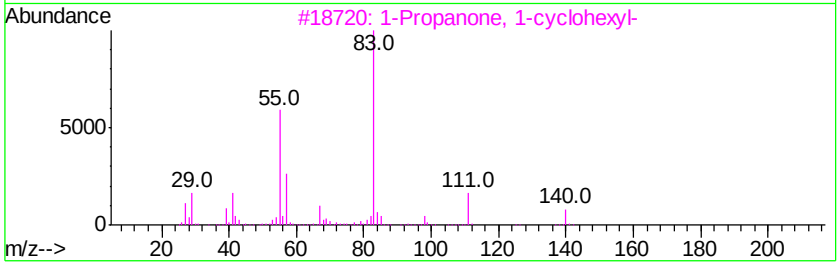
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	7.92 ug/L	106716	1,4-Dichlorobenzene-d4	11.48

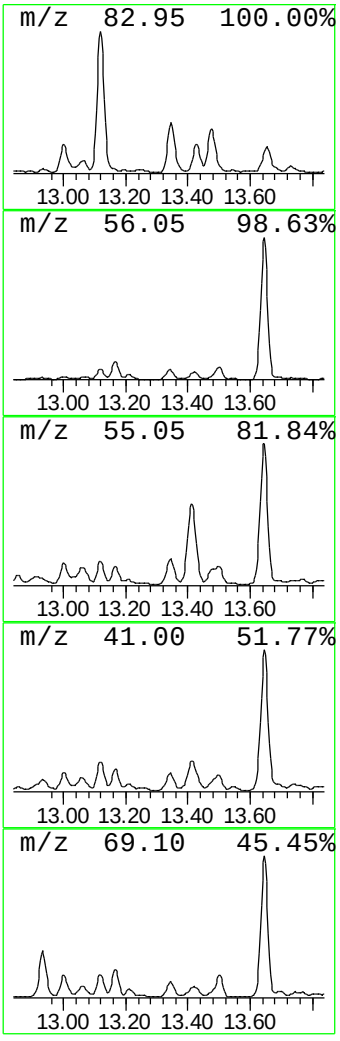
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,2-dimethyl-3-pen...	140	C10H20	062238-10-2	50
2	1-Decene	140	C10H20	000872-05-9	49
3	1-Propanone, 1-cyclohexyl-	140	C9H16O	001123-86-0	45
4	Cyclopropane, 1-ethyl-2-pentyl-	140	C10H20	062238-08-8	45
5	1-Propanone, 1-cyclohexyl-	140	C9H16O	001123-86-0	38











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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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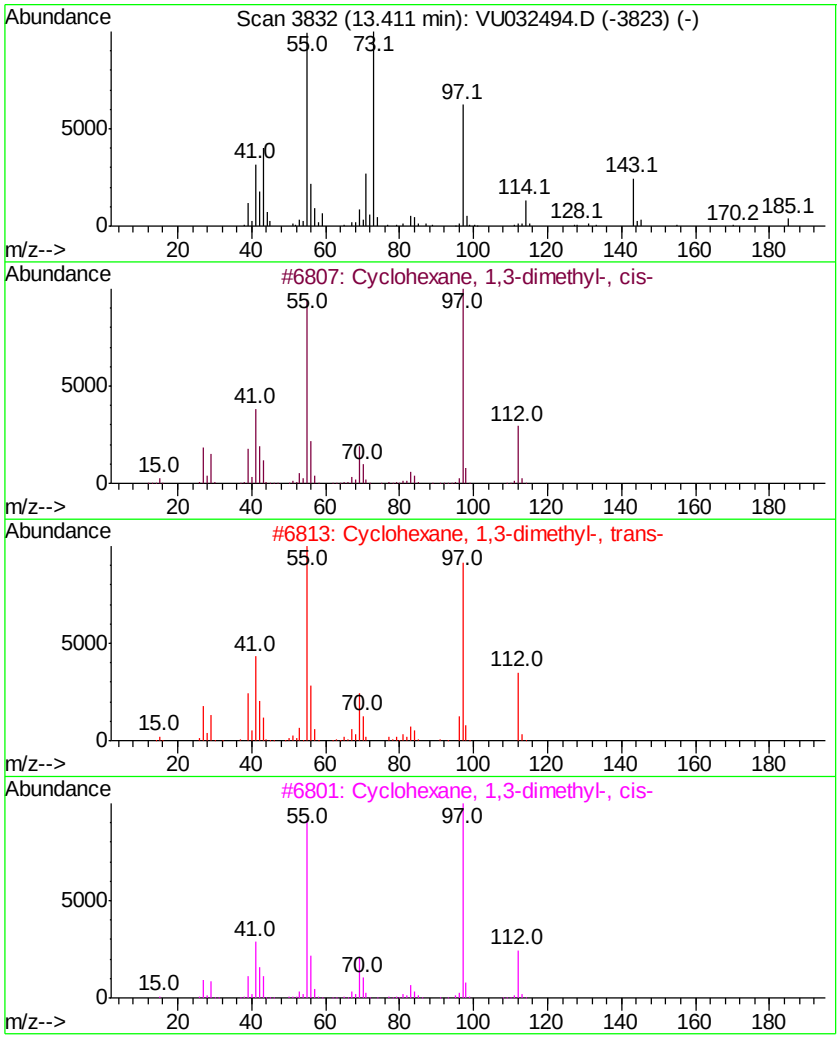
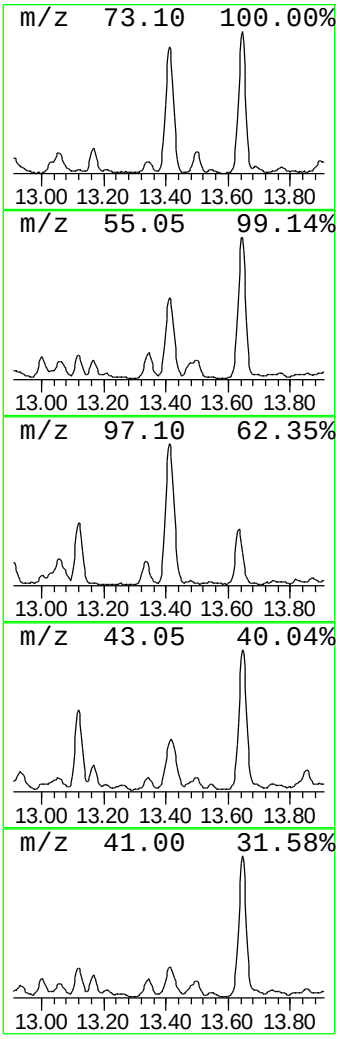
Peak Number 23 (DEL) Alkane: Cyclic13.41 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.41	19.25 ug/L	259431	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	43
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	43
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	43
4	4-Decanol	158	C10H22O	002051-31-2	35
5	trans-1,2-Diethyl cyclopentane	126	C9H18	000932-40-1	32





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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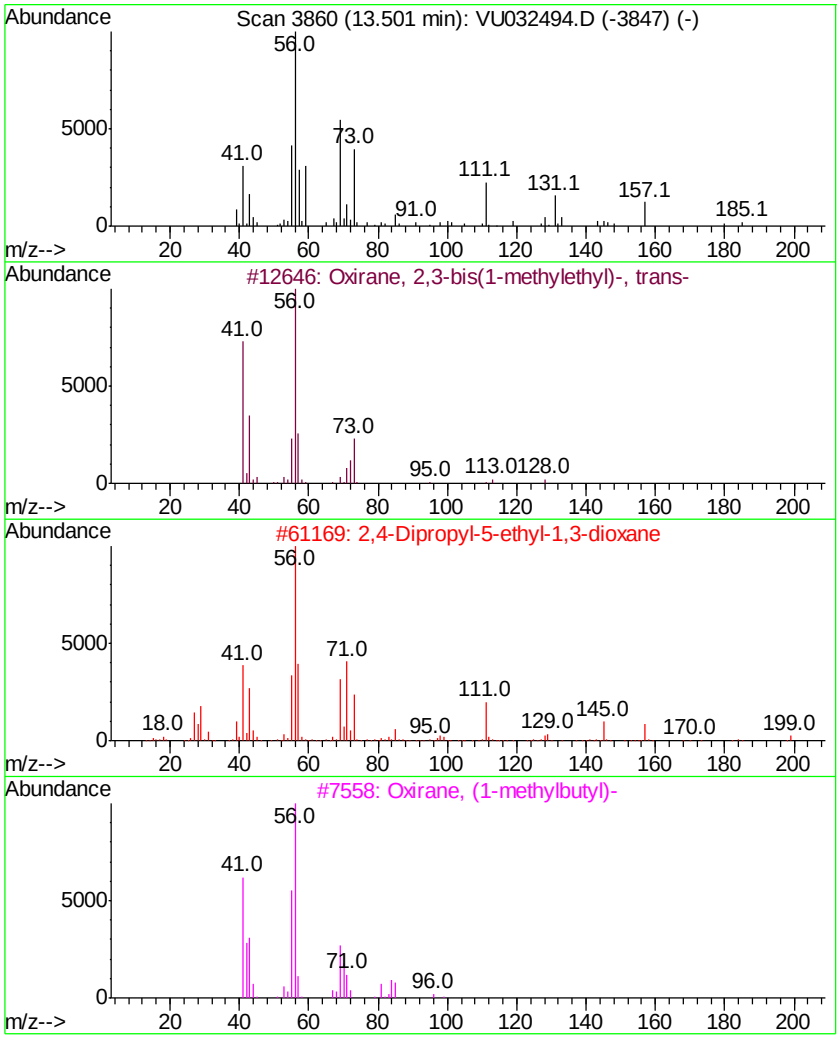
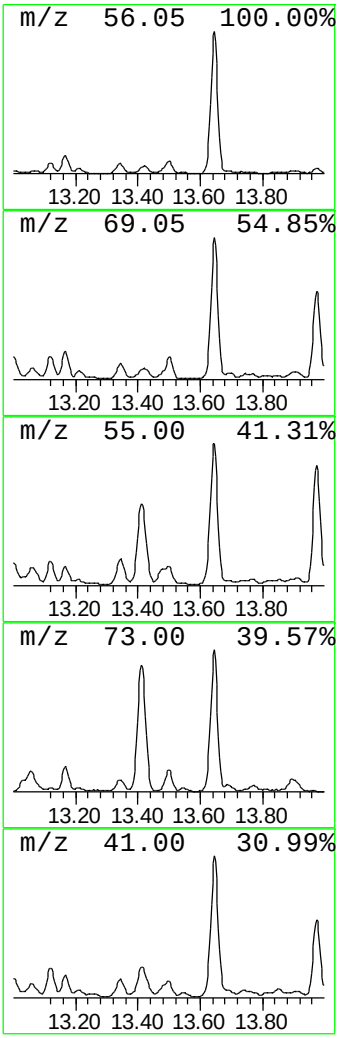
Peak Number 24 unknown-10 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	9.41 ug/L	126853	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	46
2	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	39
3	Oxirane, (1-methylbutyl)-	114	C7H14O	053229-39-3	32
4	Tridecane, 7-methylene-	196	C14H28	019780-80-4	28
5	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	25





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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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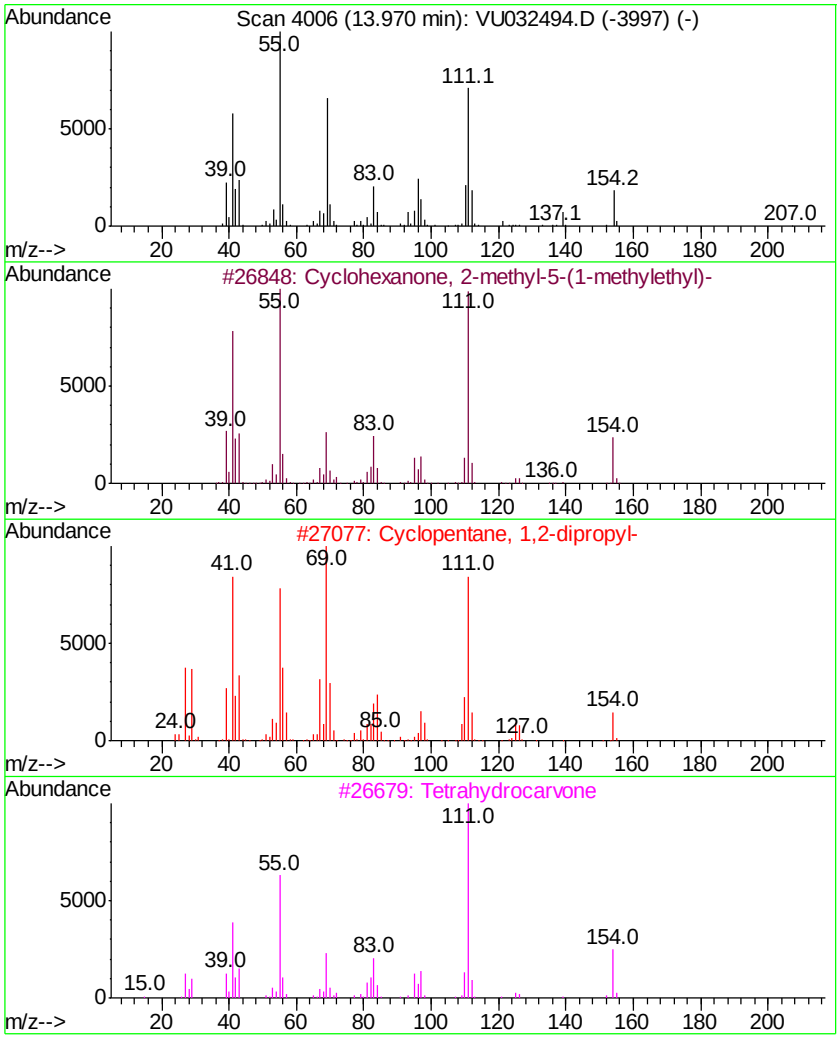
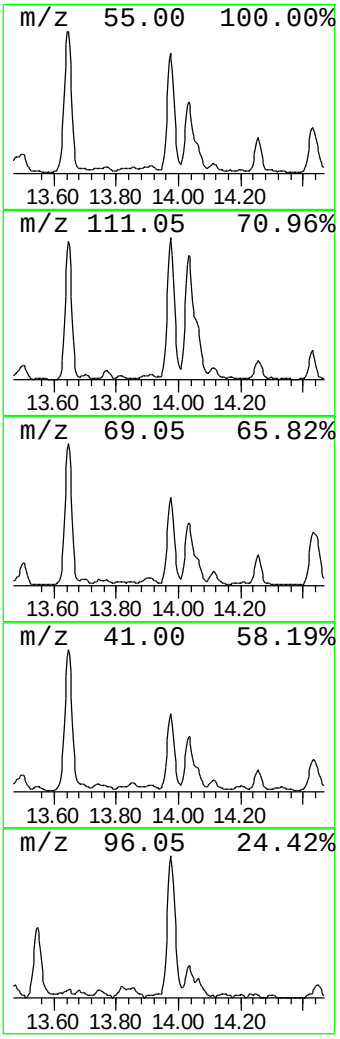
Peak Number 26 Cyclohexanone, 2-methyl-5-(... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	23.08 ug/L	311097	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 2-methyl-5-(1-met...	154	C10H18O	059471-80-6	93
2	Cyclopentane, 1,2-dipropyl-	154	C11H22	091242-57-8	59
3	Tetrahydrocarvone	154	C10H18O	000499-70-7	58
4	Cyclopentane, 1,1,3-trimethyl-3-...	166	C12H22	074421-09-3	50
5	4a(2H)-Naphthalenol, octahydro-,...	154	C10H18O	001654-87-1	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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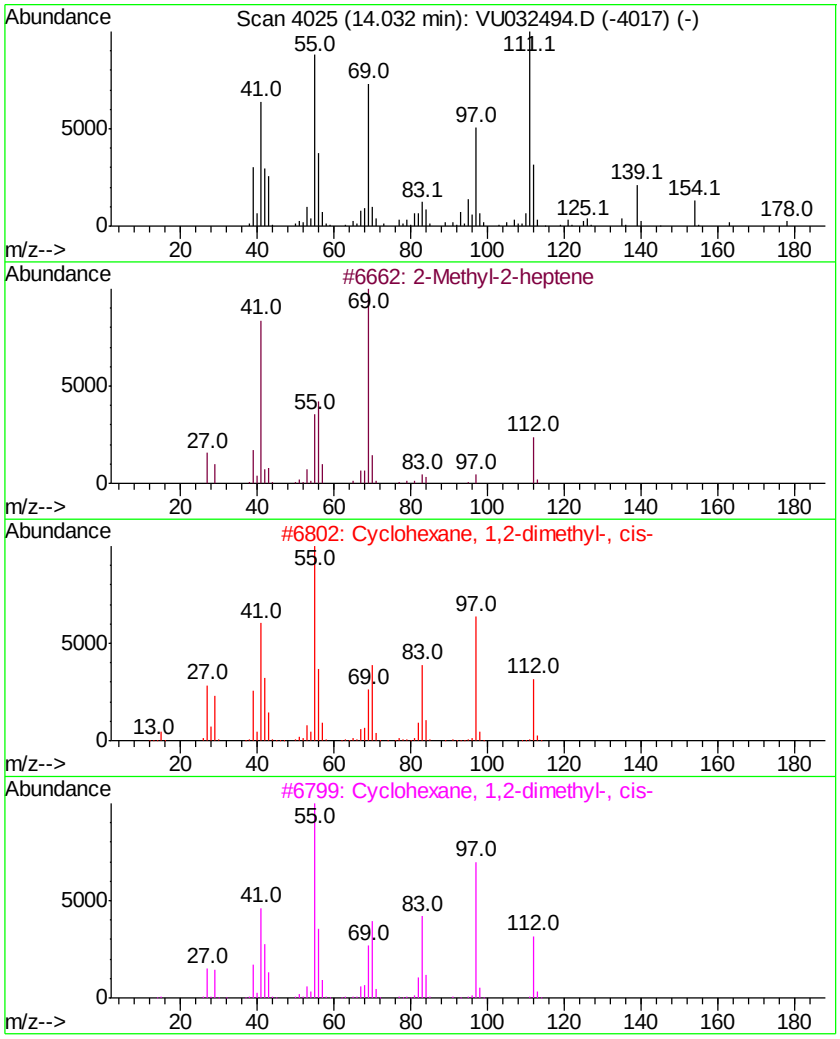
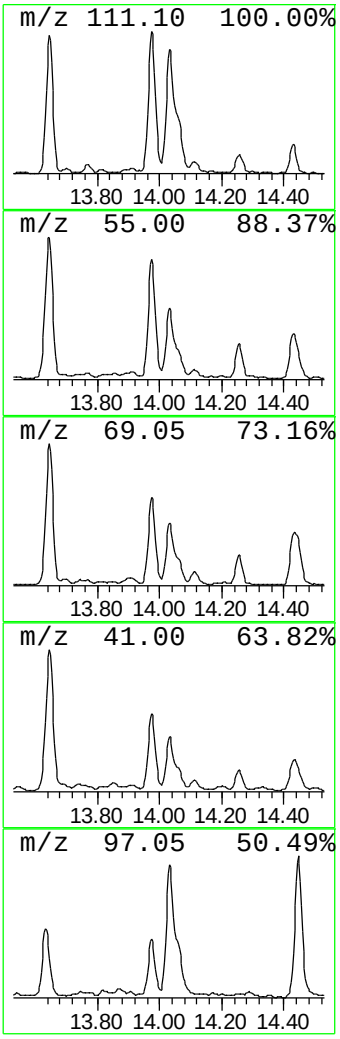
Peak Number 27 (DEL) Alkane: Cyclic14.03 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.03	25.65 ug/L	345708	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-2-heptene	112	C8H16	000627-97-4	38
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	30
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	30
4	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30
5	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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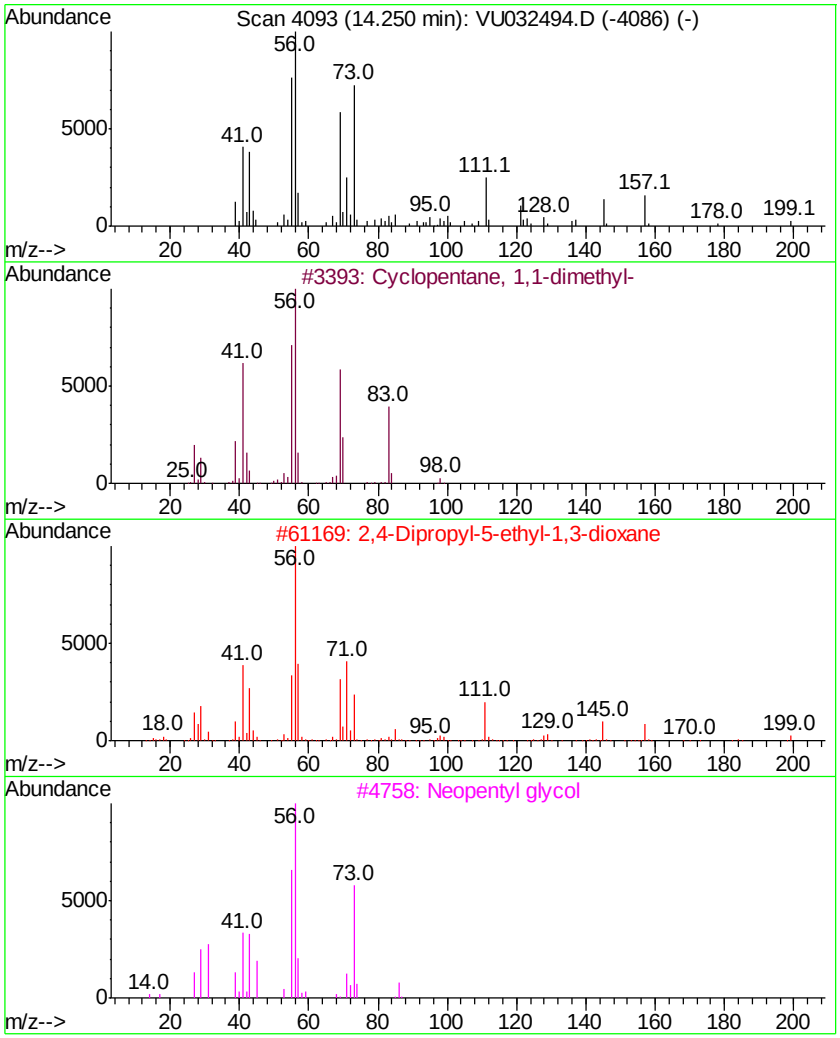
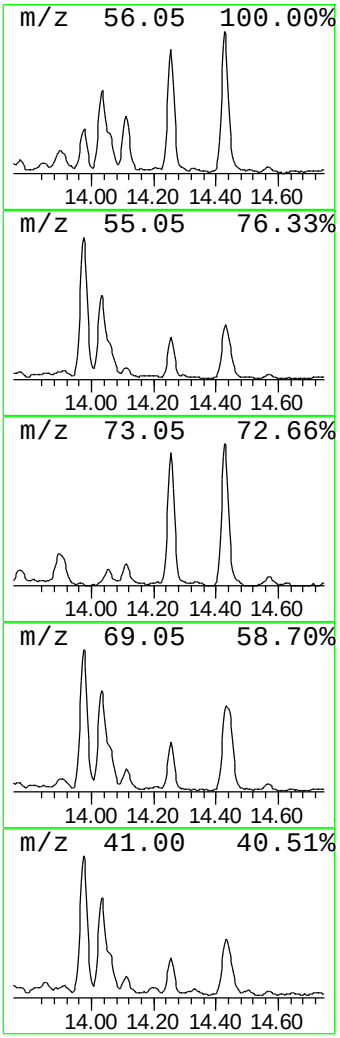
Peak Number 29 (DEL) Alkane: Cyclic14.25 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	8.11 ug/L	109288	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	43
2	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	42
3	Neopentyl glycol	104	C5H12O2	000126-30-7	40
4	Neopentyl glycol	104	C5H12O2	000126-30-7	40
5	Neopentyl glycol	104	C5H12O2	000126-30-7	37





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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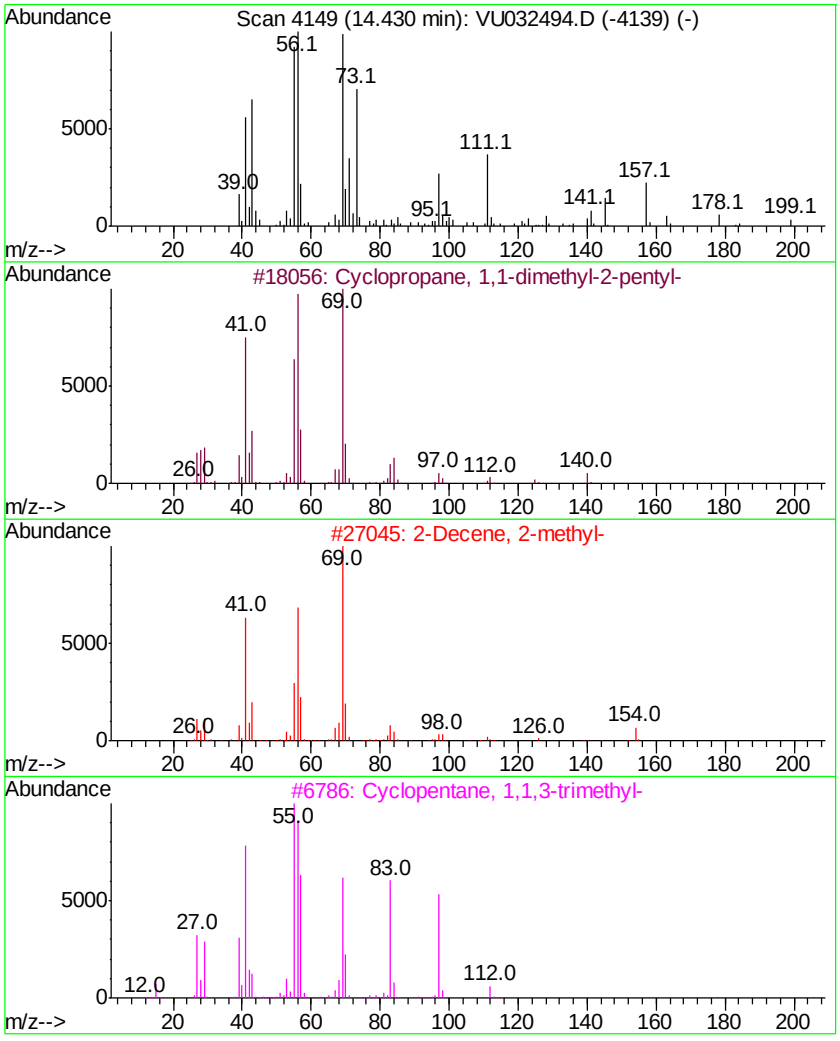
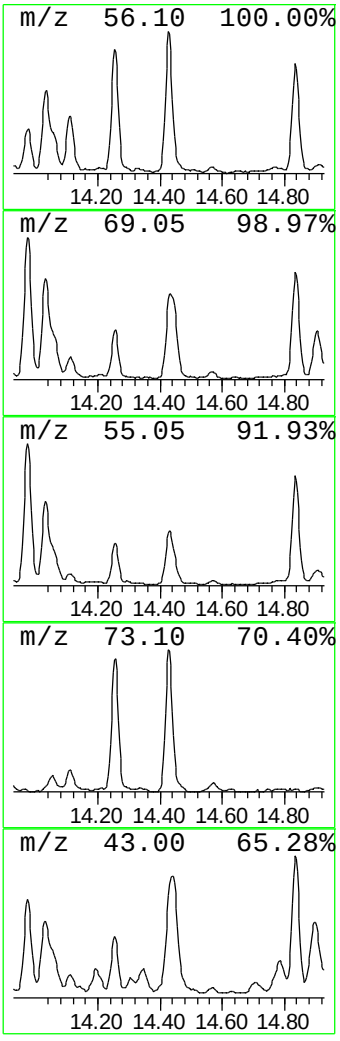
Peak Number 30 (DEL) Alkane: Cyclic14.43 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	17.86 ug/L	240756	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,1-dimethyl-2-pen...	140	C10H20	062167-97-9	47
2	2-Decene, 2-methyl-	154	C11H22	023381-92-2	47
3	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	41
4	1H-Tetrazole, 1,5-dimethyl-	98	C3H6N4	005144-11-6	38
5	Cyclopentane carboxylic acid hyd...	128	C6H12N2O	003400-07-5	27





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Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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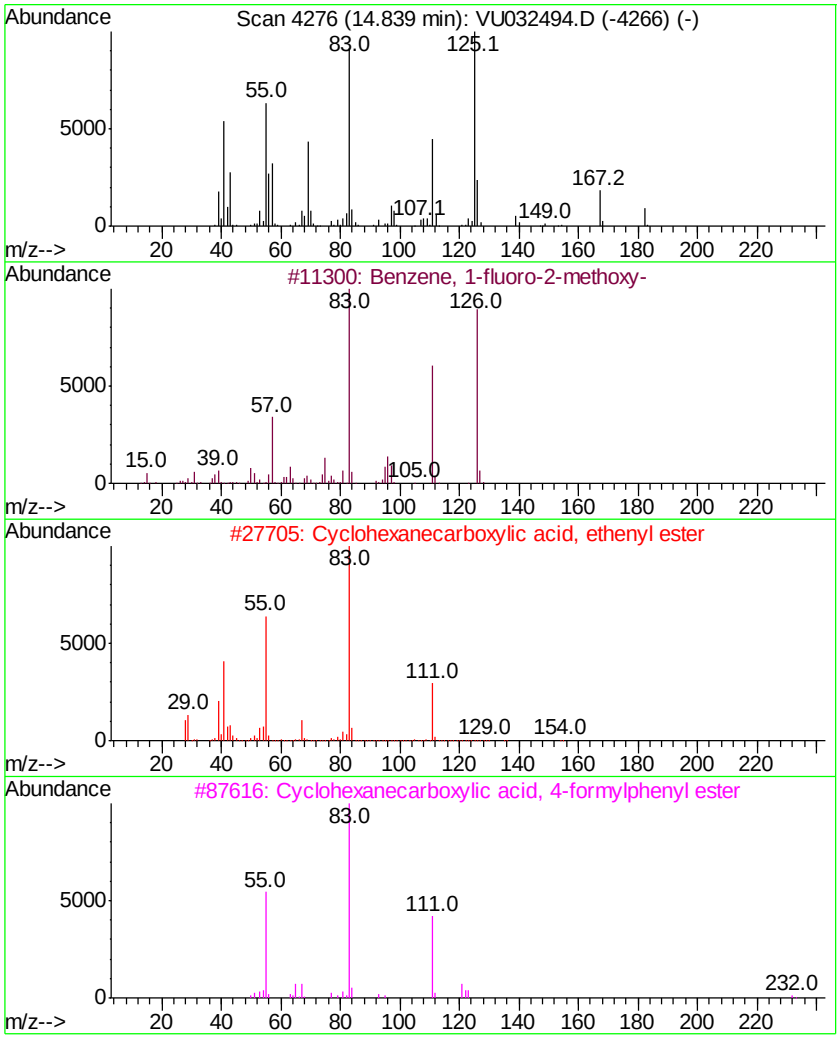
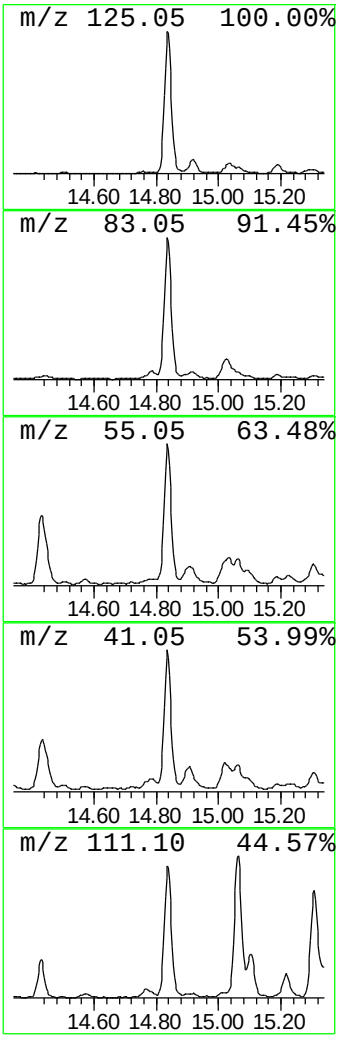
Peak Number 31 unknown-11 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	29.56 ug/L	398480	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-fluoro-2-methoxy-	126	C7H7FO	000321-28-8	43
2	Cyclohexanecarboxylic acid, ethe...	154	C9H14O2	004840-76-0	38
3	Cyclohexanecarboxylic acid, 4-fo...	232	C14H16O3	146606-04-4	35
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	30
5	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	27





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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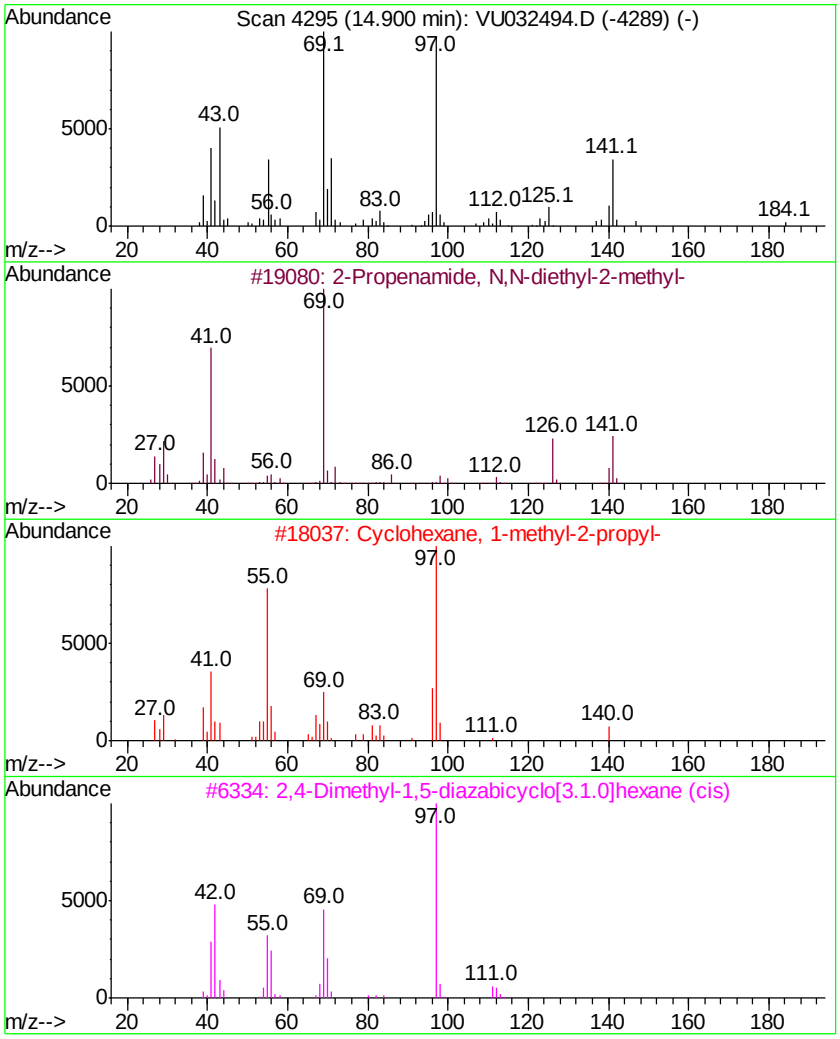
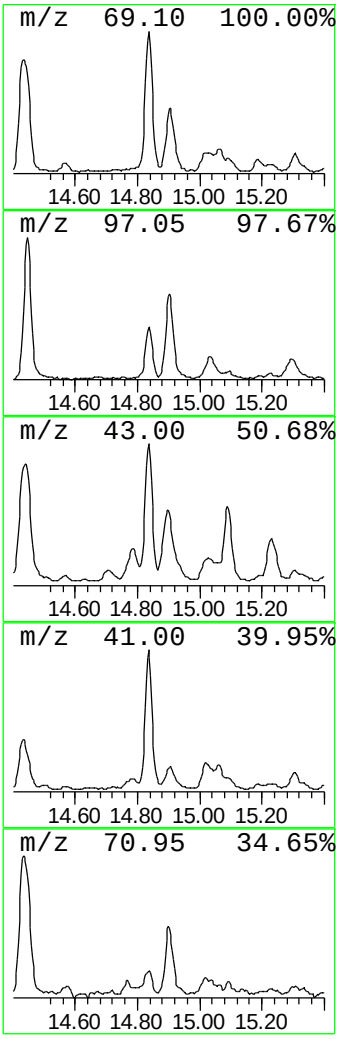
Peak Number 32 unknown-12 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.90	7.89 ug/L	106414	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenamide, N,N-diethyl-2-met...	141	C8H15NO	005441-99-6	38
2	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	30
3	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	30
4	Sulfurous acid, cyclohexylmethyl...	360	C20H40O3S	1000309-22-1	27
5	Sulfurous acid, cyclohexylmethyl...	346	C19H38O3S	1000309-22-0	27





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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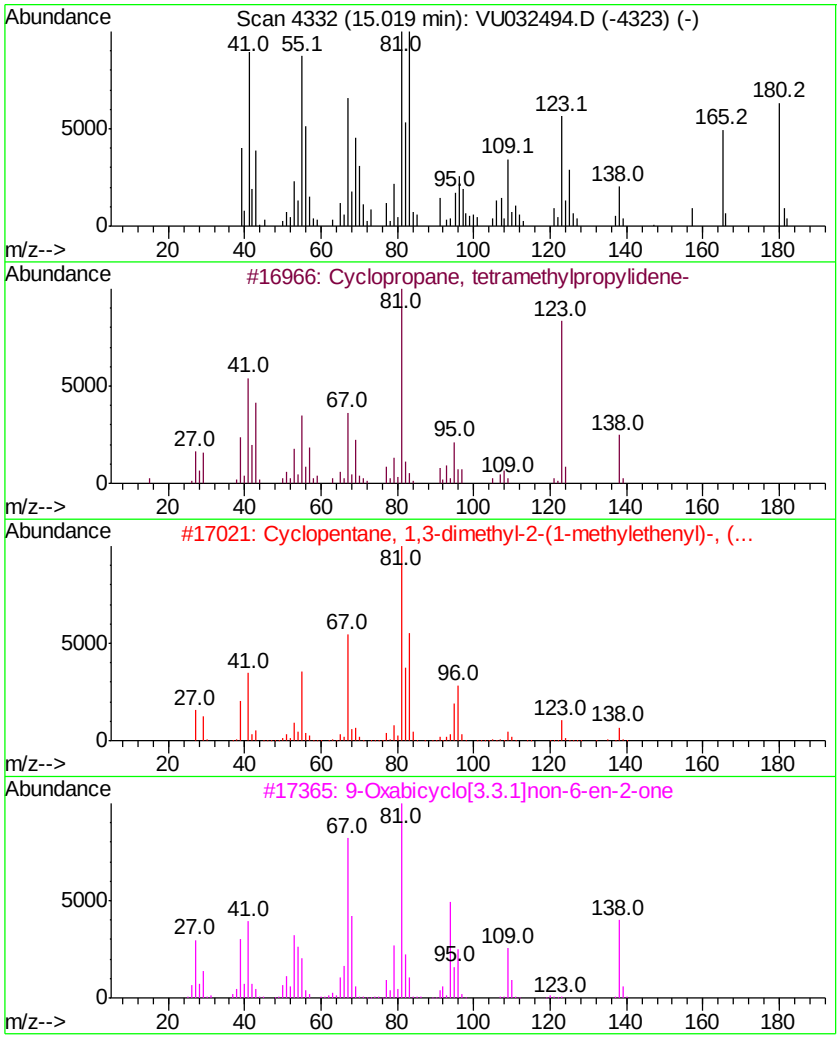
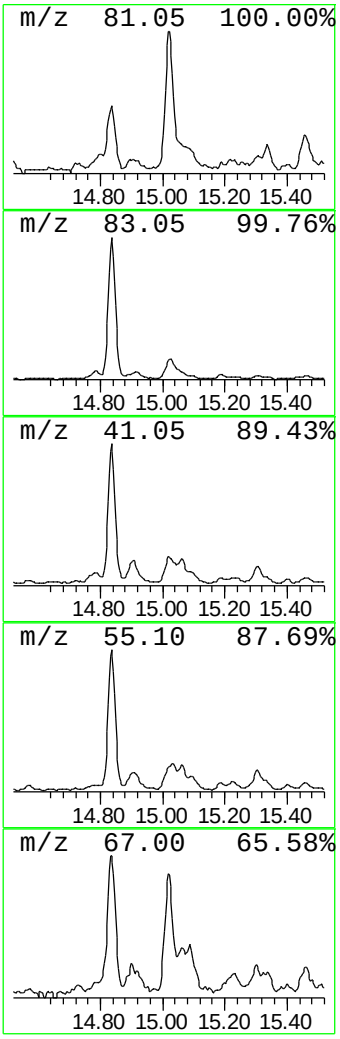
Peak Number 33 unknown-13 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	8.93 ug/L	120375	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, tetramethylpropyli...	138	C10H18	024519-04-8	30
2	Cyclopentane, 1,3-dimethyl-2-(1-...	138	C10H18	061142-31-2	30
3	9-Oxabicyclo[3.3.1]non-6-en-2-one	138	C8H10O2	1000190-61-5	30
4	Cyclopentane, 1-methyl-1-(2-meth...	138	C10H18	074764-47-9	25
5	Hexylidencyclohexane	166	C12H22	010201-62-4	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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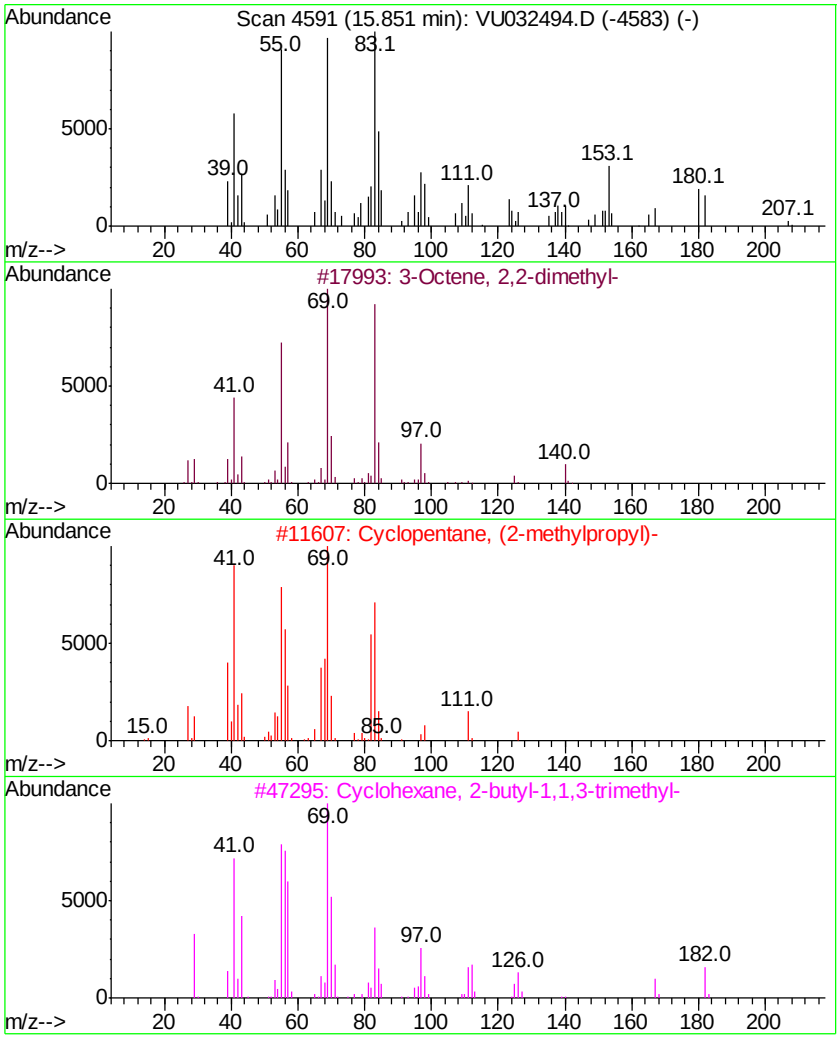
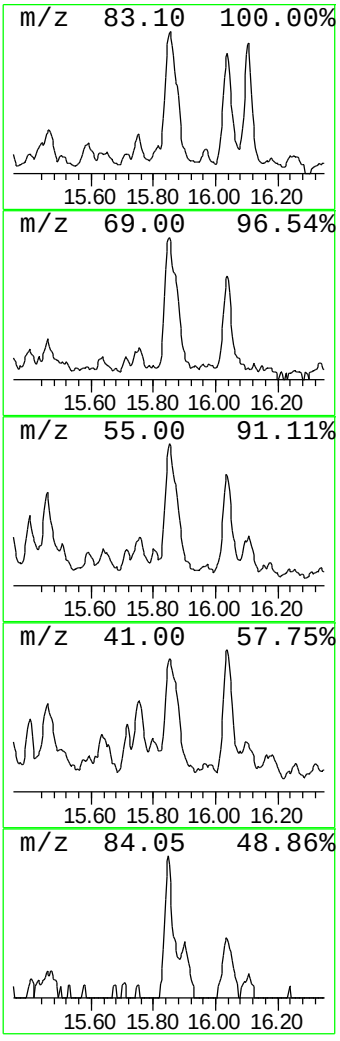
Peak Number 34 (DEL) Alkane: Cyclic15.85 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.85	5.13 ug/L	69161	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	52
2	Cyclopentane, (2-methylpropyl)-	126	C9H18	003788-32-7	49
3	Cyclohexane, 2-butyl-1,1,3-trime...	182	C13H26	054676-39-0	46
4	4-Isopropylcyclohexanone	140	C9H16O	005432-85-9	46
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	30





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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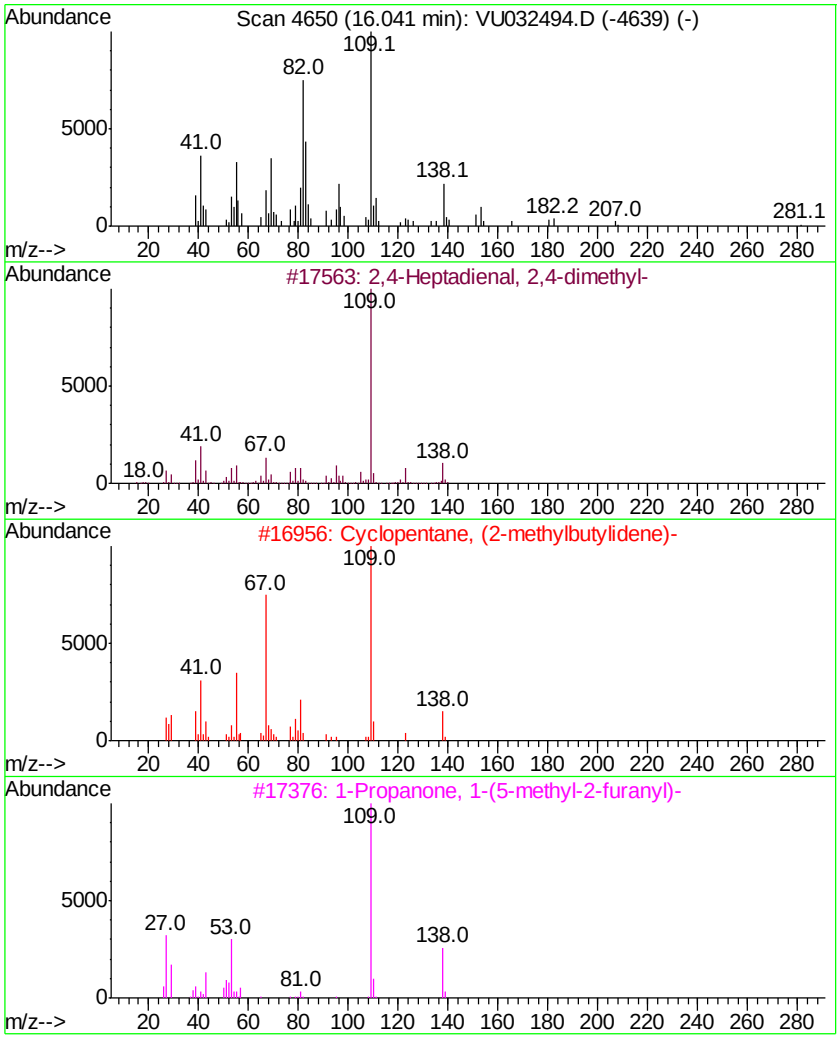
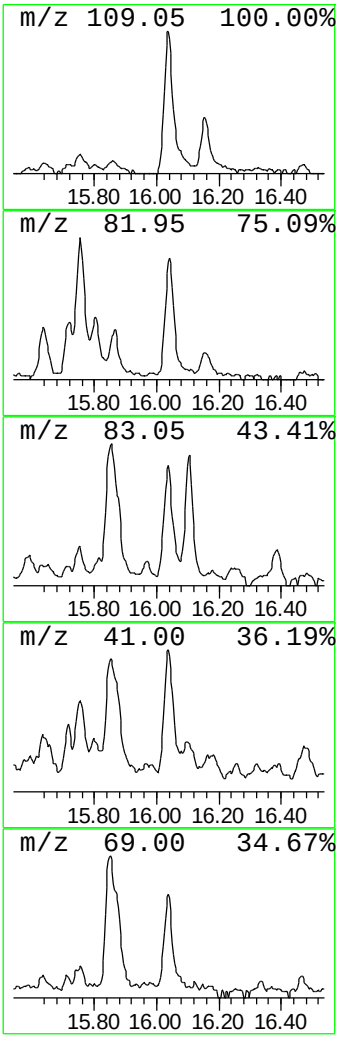
Peak Number 35 unknown-14 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	4.87 ug/L	65674	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Heptadienal, 2,4-dimethyl-	138	C9H14O	042452-48-2	38
2	Cyclopentane, (2-methylbutylidene)-	138	C10H18	053366-54-4	35
3	1-Propanone, 1-(5-methyl-2-furan...	138	C8H10O2	010599-69-6	27
4	1H-1,2,3,4-Tetrazole-1,5-diamine...	208	C8H9FN6	1000351-63-3	27
5	Octane, 2-cyclohexyl-	196	C14H28	002883-05-8	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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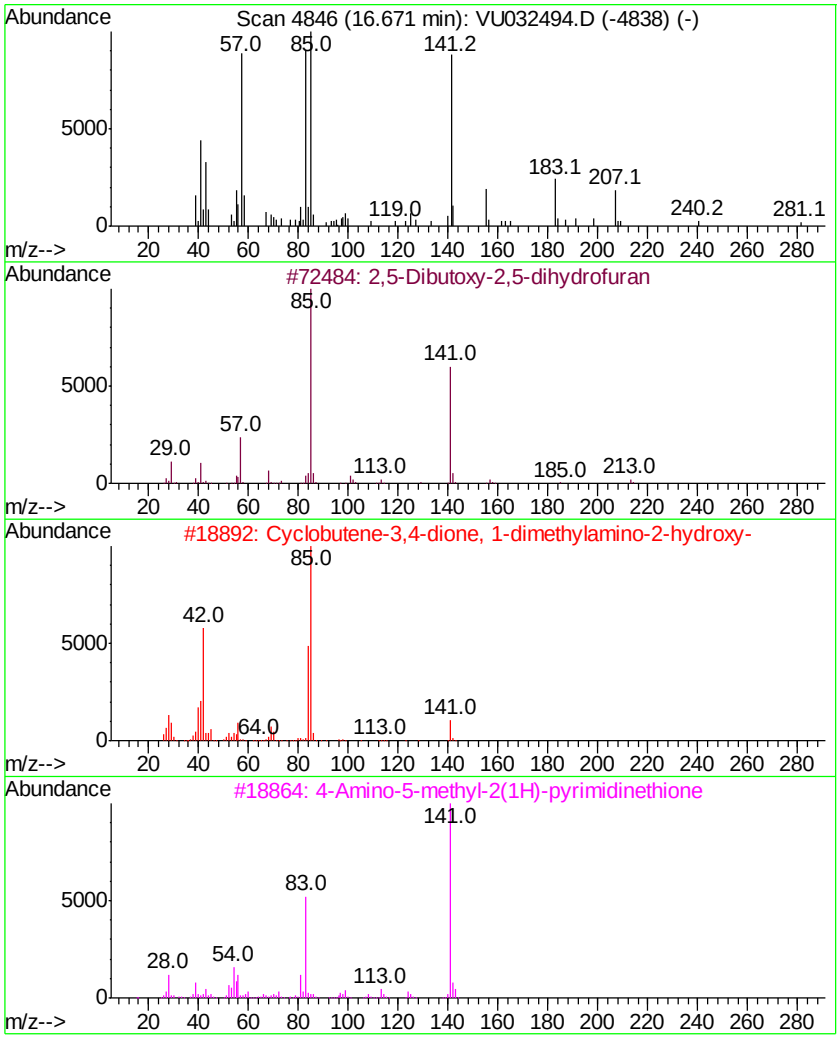
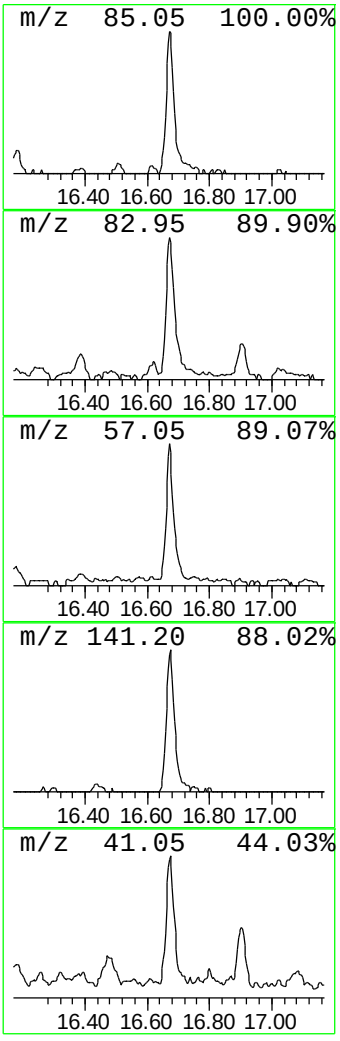
Peak Number 36 unknown-15 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	4.04 ug/L	54434	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Dibutoxy-2,5-dihydrofuran	214	C12H22O3	020295-23-2	47
2	Cyclobutene-3,4-dione, 1-dimethy...	141	C6H7NO3	182881-06-7	43
3	4-Amino-5-methyl-2(1H)-pyrimidin...	141	C5H7N3S	007390-56-9	43
4	2-Propanone, dibutylhydrazone	184	C11H24N2	067660-52-0	35
5	Acetic acid, (2,3-dichlorophenyl...	218	C9H8Cl2O2	010328-87-7	18





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032494.D
Acq On : 06 Jun 2019 14:07
Operator : JC/SP
Sample : K3213-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Propanol, 2-met...	2.82	2.9	ug/L	29615	1	5.88	511619	50.0
Propanal, 2-methyl-	3.18	4.8	ug/L	48666	1	5.88	511619	50.0
Butanal	3.98	43.3	ug/L	442759	1	5.88	511619	50.0
unknown-01	9.37	50.9	ug/L	651134	2	9.08	639919	50.0
1,1-Hexylenedioxy...	10.78	3.1	ug/L	42443	3	11.48	673988	50.0
unknown-02	11.40	9.7	ug/L	130266	3	11.48	673988	50.0
Oxalic acid, cycl...	11.63	4.0	ug/L	53522	3	11.48	673988	50.0
2,2-Dimethyl-1,3-...	11.72	20.2	ug/L	271765	3	11.48	673988	50.0
unknown-03	11.92	53.9	ug/L	726954	3	11.48	673988	50.0
unknown-04	12.12	2.8	ug/L	38201	3	11.48	673988	50.0
unknown-05	12.25	6.6	ug/L	89353	3	11.48	673988	50.0
unknown-06	12.40	10.9	ug/L	147133	3	11.48	673988	50.0
unknown-07	12.51	14.2	ug/L	191370	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	12.62	5.2	ug/L	69746	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	12.69	36.7	ug/L	494200	3	11.48	673988	50.0
unknown-08	12.78	36.1	ug/L	486983	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	13.00	6.1	ug/L	82054	3	11.48	673988	50.0
unknown-09	13.12	13.3	ug/L	179412	3	11.48	673988	50.0
2,4-Dipropyl-5-et...	13.17	6.0	ug/L	80670	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	13.34	7.9	ug/L	106716	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	13.41	19.3	ug/L	259431	3	11.48	673988	50.0
unknown-10	13.50	9.4	ug/L	126853	3	11.48	673988	50.0
Cyclohexanone, 2-...	13.97	23.1	ug/L	311097	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	14.03	25.6	ug/L	345708	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	14.25	8.1	ug/L	109288	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	14.43	17.9	ug/L	240756	3	11.48	673988	50.0
unknown-11	14.84	29.6	ug/L	398480	3	11.48	673988	50.0
unknown-12	14.90	7.9	ug/L	106414	3	11.48	673988	50.0
unknown-13	15.02	8.9	ug/L	120375	3	11.48	673988	50.0
(DEL) Alkane: Cyc...	15.85	5.1	ug/L	69161	3	11.48	673988	50.0
unknown-14	16.04	4.9	ug/L	65674	3	11.48	673988	50.0
unknown-15	16.67	4.0	ug/L	54434	3	11.48	673988	50.0