LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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	rVB	11390	10690	0.15%	0.037%
2	1.392	86	94	105	rVB	85246	104242	1.50%	0.360%
3	1.469	112	118	125	rBV	21152	22096	0.32%	0.076%
4	1.675	175	182	197	rVB	70685	87237	1.25%	0.301%
5	2.267	349	366	377	rVB2	158230	307506	4.42%	1.062%
6	2.399	404	407	412	rBV4	459	492	0.01%	0.002%
7	2.450	415	423	427	rBV4	1898	2884	0.04%	0.010%
8	2.823	518	539	558	rBV3	22336	53029	0.76%	0.183%
9	2.977	578	587	600	rVV	5113	9343	0.13%	0.032%
10	3.177	634	649	671	rBV	54790	118851	1.71%	0.410%
11	3.440	721	731	740	rVV3	1959	4132	0.06%	0.014%
12	3.566	759	770	785	rVV4	2945	7859	0.11%	0.027%
13	3.624	785	788	794	rVV4	365	358	0.01%	0.001%
14	3.656	794	798	801	rVB2	698	610	0.01%	0.002%
15	3.977	883	898	939	rBV	408214	1044119	15.00%	3.605%
16	4.170	947	958	985	rVB	83716	212991	3.06%	0.735%
17	4.640	1088	1104	1126	rBV	120674	284359	4.08%	0.982%
18	4.987	1199	1212	1214	rBV3	797	1241	0.02%	0.004%
19	5.334	1297	1320	1332	rBV2	251546	748122	10.75%	2.583%
20	5.614	1402	1407	1411	rVB4	544	523	0.01%	0.002%
21	5.881	1477	1490	1512	rBV	247695	483936	6.95%	1.671%
22	6.173	1573	1581	1584	rBV4	1949	2581	0.04%	0.009%
23	6.325	1614	1628	1643	rBV	166254	328475	4.72%	1.134%
24	6.495	1678	1681	1685	rVB4	490	336	0.00%	0.001%
25	6.543	1690	1696	1698	rBV3	331	369	0.01%	0.001%
26	6.579	1699	1707	1714	rVV5	1227	2429	0.03%	0.008%
27	6.624	1717	1721	1736	rVB5	2200	4105	0.06%	0.014%
28	6.874	1796	1799	1807	rVB3	381	452	0.01%	0.002%
29	7.222	1895	1907	1925	rBV	99400	177238	2.55%	0.612%
30	7.366	1941	1952	1966	rBV3	8158	15181	0.22%	0.052%
31	7.463	1980	1982	1989	rVB4	1122	938	0.01%	0.003%
32	7.559	1991	2012	2035	rBV	351759	629753	9.05%	2.174%
33	7.714	2050	2060	2074	rBV9	2999	7762	0.11%	0.027%
34	7.845	2091	2101	2125	rVB	67570	117034	1.68%	0.404%

LSC Area Percent Report

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Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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	8.096	2172	2179	2181	rBV3	1330	1592	0.02%	0.005%
36	8.160	2188	2199	2202	rBV5	1454	2419	0.03%	0.008%
37	8.231	2213	2221	2231	rBV5	856	1460	0.02%	0.005%
38	8.305	2231	2244	2280	rBV	450365	784333	11.27%	2.708%
39	8.572	2319	2327	2339	rVB	12982	20955	0.30%	0.072%
40	8.668	2353	2357	2368	rVB6	2279	3278	0.05%	0.011%
41	8.778	2382	2391	2404	rVV4	4146	7481	0.11%	0.026%
42	8.948	2436	2444	2456	rVB5	2233	3729	0.05%	0.013%
43	9.083	2456	2486	2506	rBV	366409	685654	9.85%	2.367%
44	9.292	2537	2551	2559	rBV	20801	36167	0.52%	0.125%
45	9.373	2561	2576	2590	rBV2	468824	913378	13.12%	3.154%
46	9.562	2625	2635	2645	rBV3	9188	14675	0.21%	0.051%
47	9.636	2647	2658	2668	rVB5	10917	18024	0.26%	0.062%
48	9.710	2677	2681	2684	rBV2	511	481	0.01%	0.002%
49	9.797	2698	2708	2725	rVB2	8834	16744	0.24%	0.058%
50	9.893	2731	2738	2745	rBV6	1757	2776	0.04%	0.010%
51	9.958	2751	2758	2771	rVB8	1942	3677	0.05%	0.013%
52	10.035	2772	2782	2789	rBV7	6294	11760	0.17%	0.041%
53	10.160	2807	2821	2835	rBV5	13660	26815	0.39%	0.093%
54	10.308	2855	2867	2879	rBV5	15663	30165	0.43%	0.104%
55	10.392	2880	2893	2900	rBV	824643	1326789	19.06%	4.581%
56	10.540	2932	2939	2945	rBV3	10665	18351	0.26%	0.063%
57	10.643	2961	2971	2984	rVB2	33364	55631	0.80%	0.192%
58	10.736	2992	3000	3006	rBV2	27299	42080	0.60%	0.145%
59	10.781	3006	3014	3024	rVV	119538	190524	2.74%	0.658%
60	10.832	3024	3030	3040	rVB2	20986	31793	0.46%	0.110%
61	10.900	3047	3051	3054	rBV4	1091	1018	0.01%	0.004%
62	11.093	3108	3111	3118	rVB2	5862	6408	0.09%	0.022%
63	11.209	3138	3147	3155	rBV4	16994	30084	0.43%	0.104%
64	11.401	3197	3207	3221	rBV2	164982	288575	4.15%	0.996%
65	11.479	3222	3231	3237	rVV	440138	682628	9.81%	2.357%
66	11.530	3238	3247	3268	rVB	4608224	6961249	100.00%	24.035%
67	11.630	3269	3278	3297	rBV3	66120	130111	1.87%	0.449%
68	11.723	3298	3307	3315	rBV	320915	495739	7.12%	1.712%
69	11.855	3337	3348	3357	rBV	393945	639591	9.19%	2.208%
70	11.916	3358	3367	3380	rVB	791117	1231498	17.69%	4.252%
71	12.125	3423	3432	3447	rVB7	36092	78063	1.12%	0.270%

LSC Area Percent Report

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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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	12.218	3454	3461	3463	rBV4	9733	12643	0.18%	0.044%
73	12.257	3465	3473	3482	rVB2	81513	125413	1.80%	0.433%
74	12.315	3484	3491	3497	rBV	35972	54415	0.78%	0.188%
75	12.408	3512	3520	3537	rVB2	118522	304886	4.38%	1.053%
76	12.508	3538	3551	3573	rVB2	192942	488403	7.02%	1.686%
77	12.620	3574	3586	3593	rBV4	82543	151887	2.18%	0.524%
78	12.691	3600	3608	3620	rVB	592008	910449	13.08%	3.144%
79	12.781	3622	3636	3652	rBV	569578	929490	13.35%	3.209%
80	12.999	3696	3704	3713	rBV2	109344	169819	2.44%	0.586%
81	13.118	3734	3741	3749	rBV2	112320	156525	2.25%	0.540%
82	13.167	3749	3756	3764	rVV	123755	168344	2.42%	0.581%
83	13.344	3800	3811	3820	rBV3	154357	263658	3.79%	0.910%
84	13.414	3823	3833	3845	rVB2	238914	457093	6.57%	1.578%
85	13.543	3868	3873	3886	rVB	34741	51113	0.73%	0.176%
86	13.646	3893	3905	3925	rBV	1039256	1756837	25.24%	6.066%
87	13.974	3998	4007	4017	rBV	265499	413869	5.95%	1.429%
88	14.032	4017	4025	4031	rBV	215432	357023	5.13%	1.233%
89	14.112	4044	4050	4068	rVB	59813	101795	1.46%	0.351%
90	14.253	4086	4094	4104	rBV	208754	300879	4.32%	1.039%
91	14.427	4139	4148	4165	rVB3	246921	440164	6.32%	1.520%
92	14.835	4266	4275	4286	rVB	459785	699157	10.04%	2.414%
93	15.019	4322	4332	4339	rBV5	155753	303505	4.36%	1.048%
94	15.305	4416	4421	4441	rVB2	94107	189287	2.72%	0.654%
95	15.716	4544	4549	4554	rBV	16365	19262	0.28%	0.067%
96	15.848	4583	4590	4612	rVB6	57450	139544	2.00%	0.482%
97	16.038	4639	4649	4661	rBV4	65131	124320	1.79%	0.429%
98	16.488	4783	4789	4806	rVB3	42875	73811	1.06%	0.255%
99	16.671	4836	4846	4864	rBV2	88718	149504	2.15%	0.516%
100	16.903	4912	4918	4934	rVB	38109	62790	0.90%	0.217%

Sum of corrected areas: 28962853

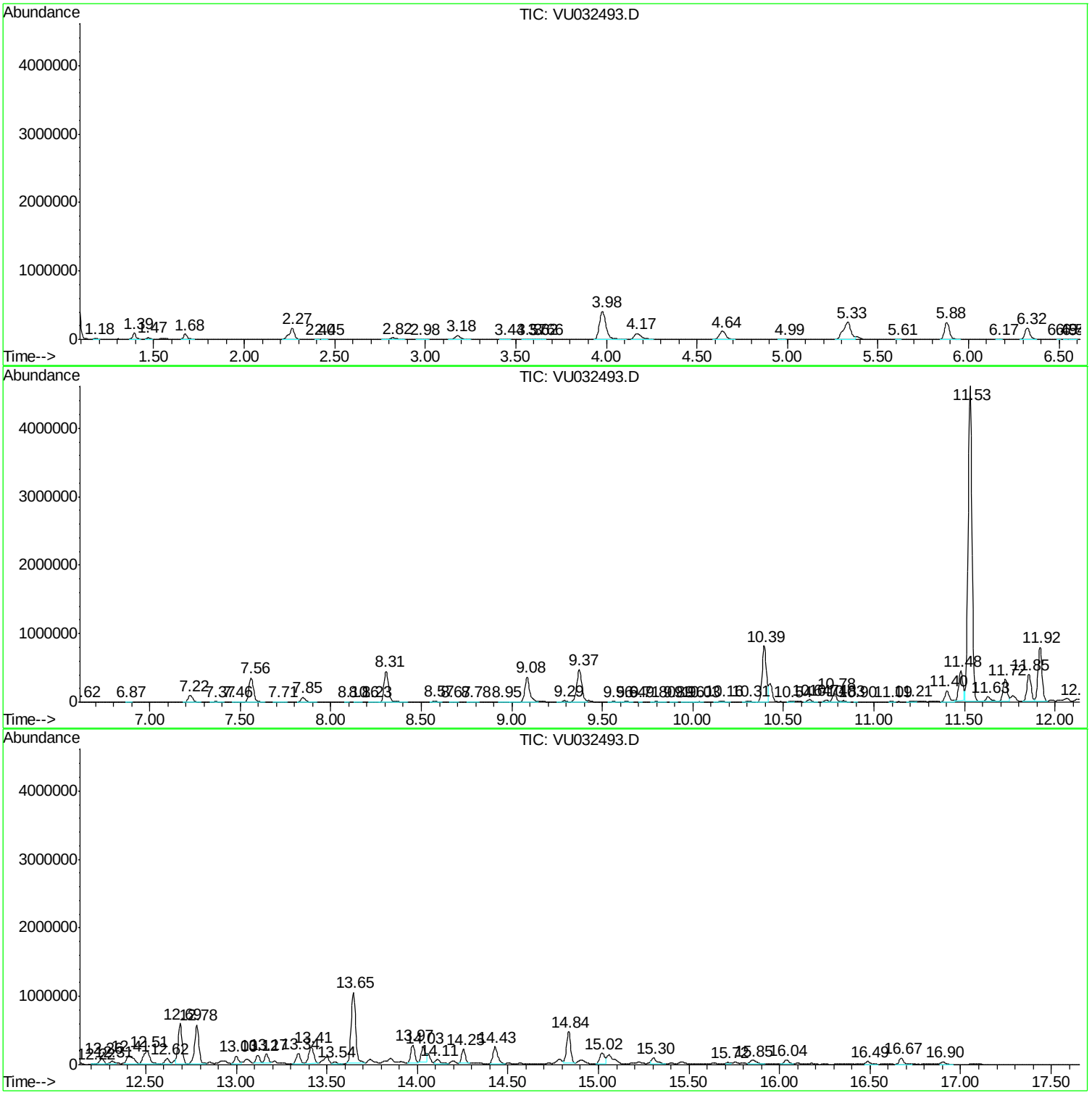
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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 : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

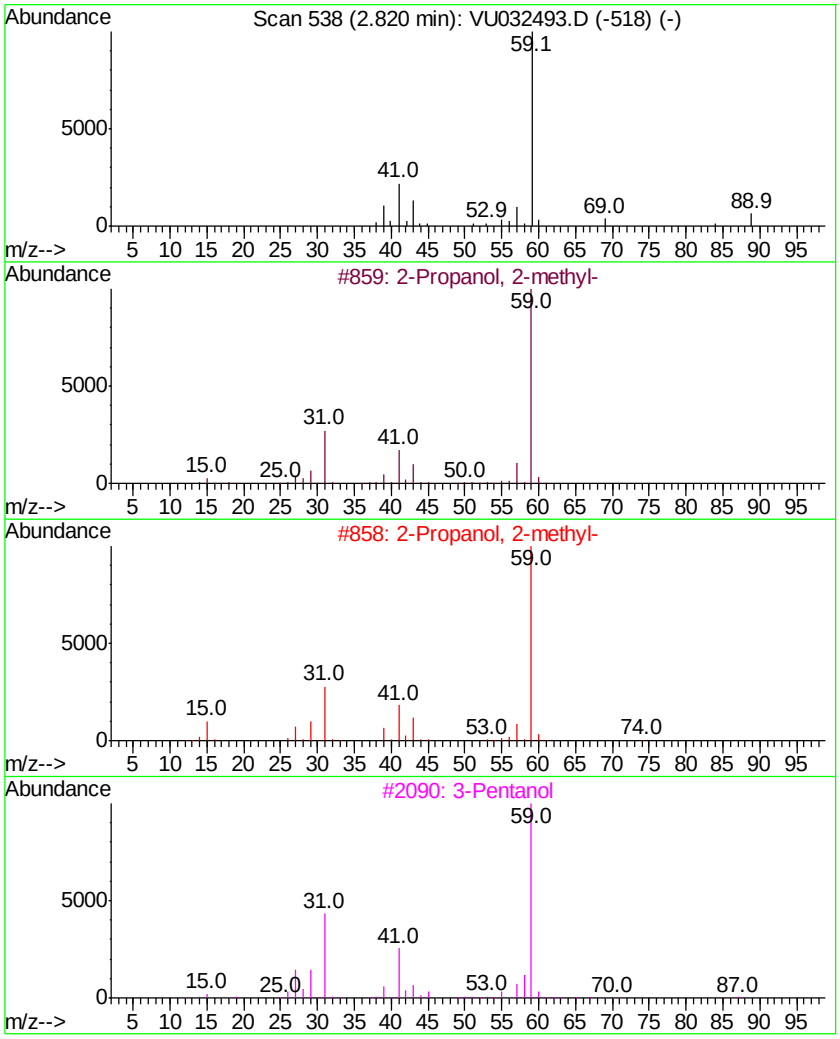
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

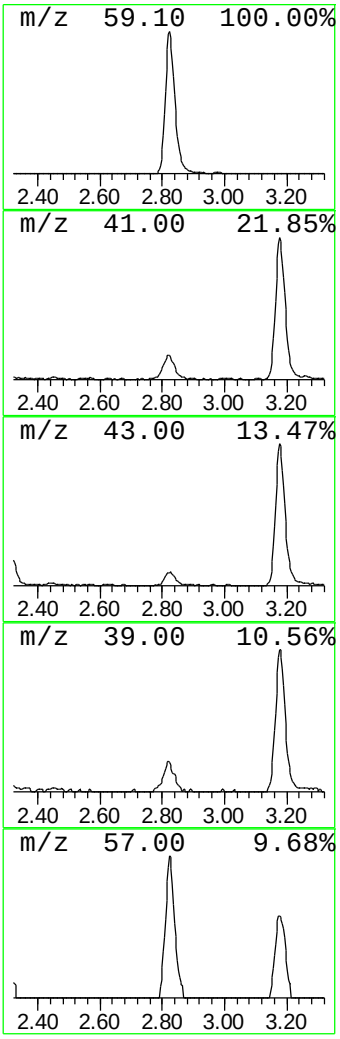
****

Peak Number 1 2-Propanol, 2-methyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.82	5.48 ug/L	53029	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	64
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	64
3	3-Pentanol	88	C5H12O	000584-02-1	56
4	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	56
5	1,2-Butanediol	90	C4H10O2	000584-03-2	39





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

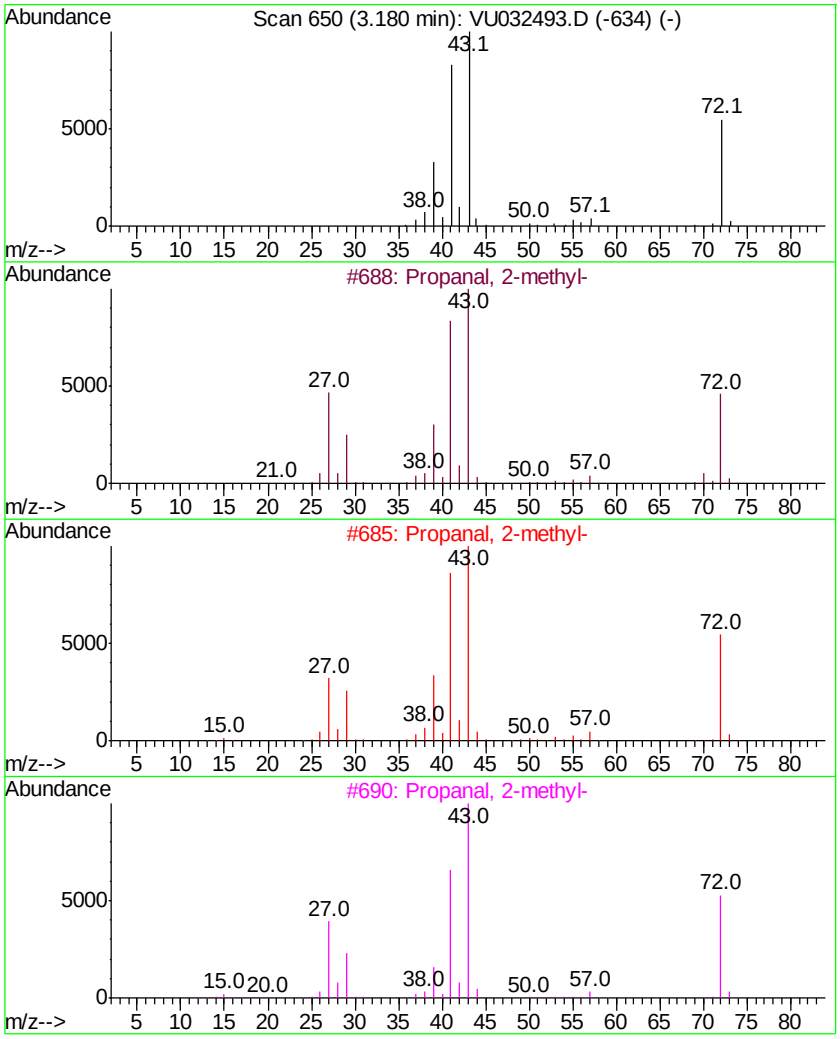
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

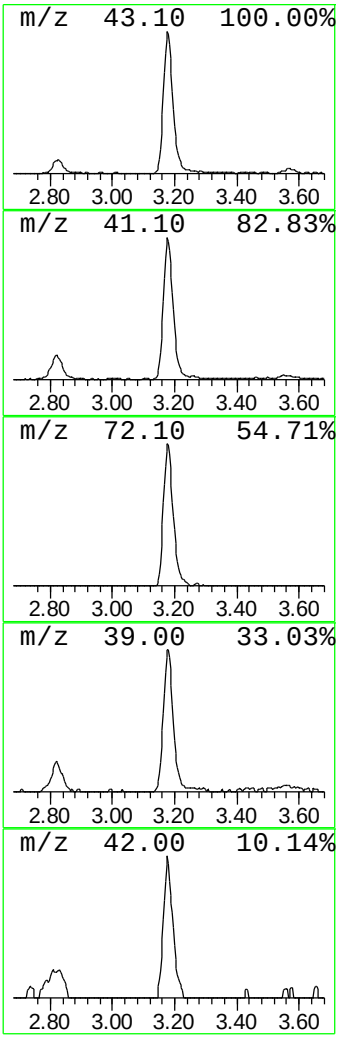
****

Peak Number 2 Propanal, 2-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.18	12.28 ug/L	118851	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	90
3	Propanal, 2-methyl-	72	C4H8O	000078-84-2	72
4	Propanal, 2-methyl-	72	C4H8O	000078-84-2	56
5	Isobutylene epoxide	72	C4H8O	000558-30-5	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
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Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

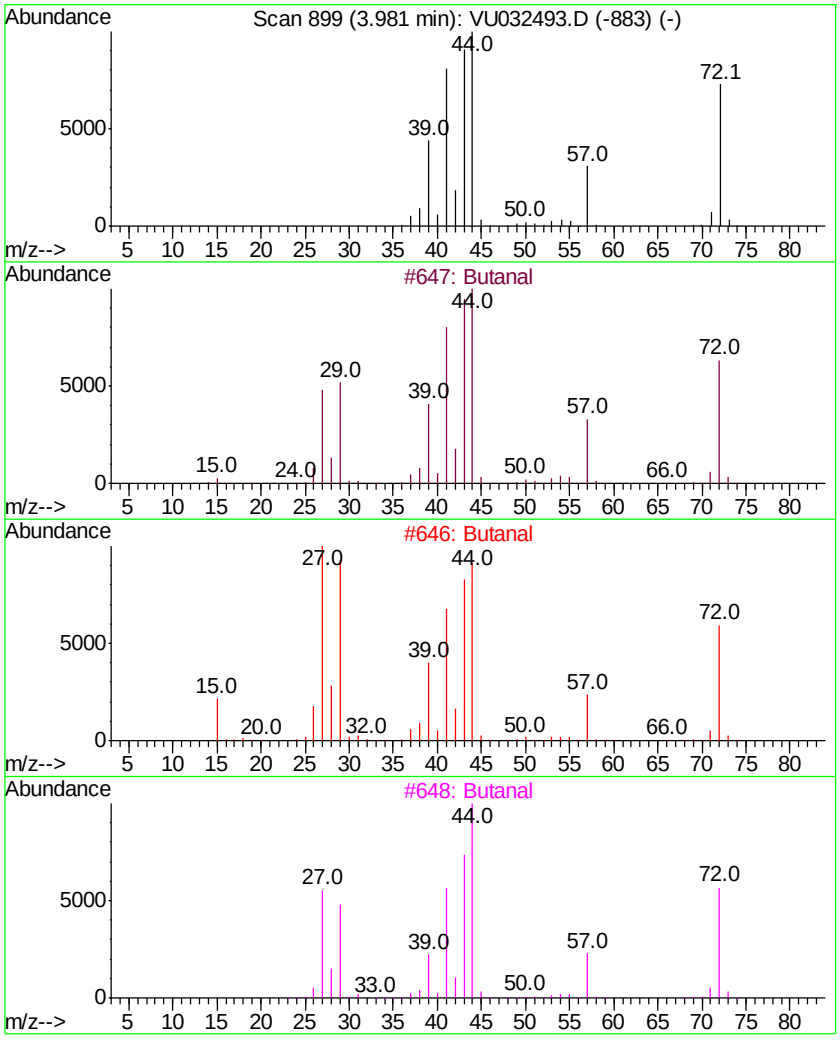
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

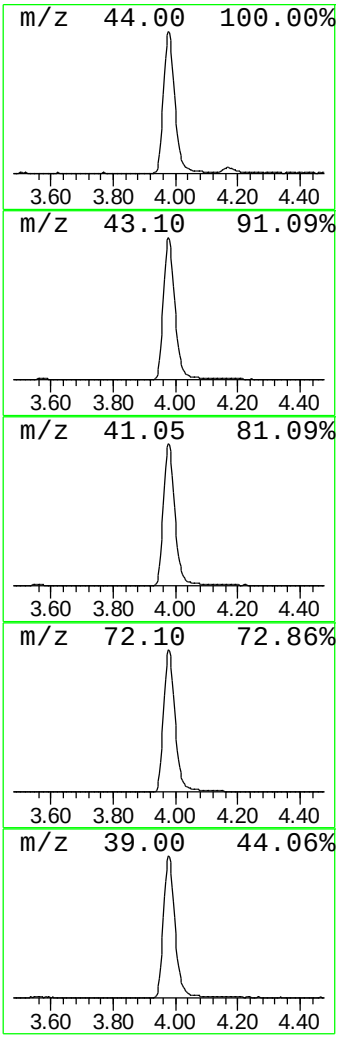
****

Peak Number 3 Butanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	107.88 ug/L	1044120	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	Ethene, ethoxy-	72	C4H8O	000109-92-2	52
5	Butanal	72	C4H8O	000123-72-8	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

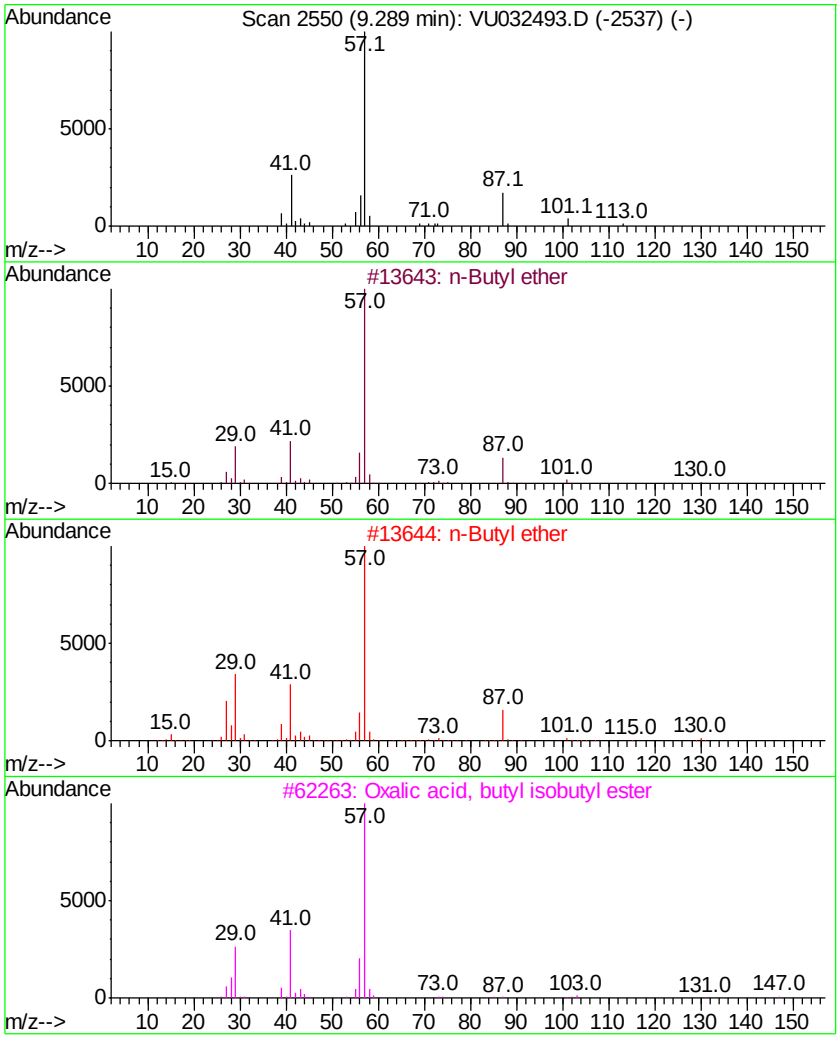
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

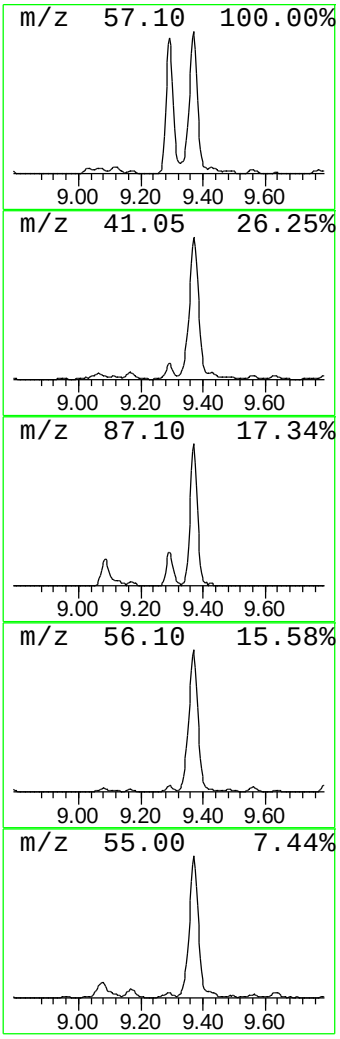
****

Peak Number 5 n-Butyl ether Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.29	2.64 ug/L	36167	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Butyl ether	130	C8H18O	000142-96-1	72
2	n-Butyl ether	130	C8H18O	000142-96-1	72
3	Oxalic acid, butyl isobutyl ester	202	C10H18O4	1000309-36-9	47
4	Sulfurous acid, dibutyl ester	194	C8H18O3S	000626-85-7	42
5	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	42





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

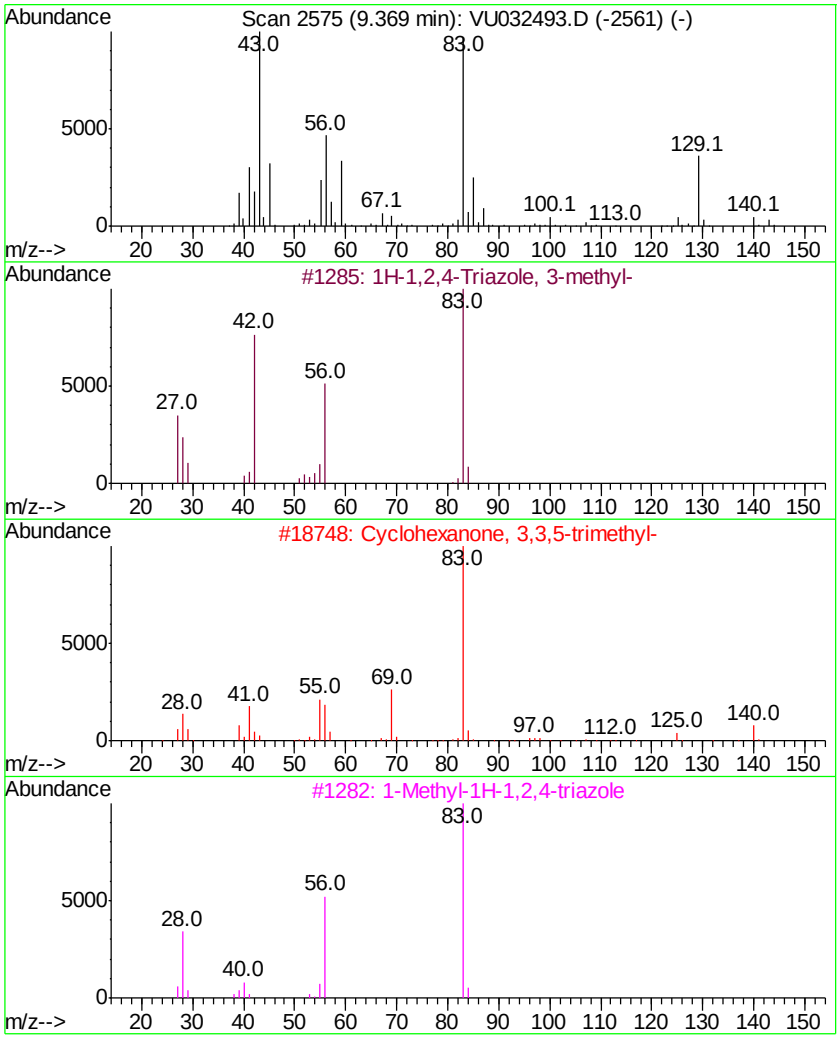
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

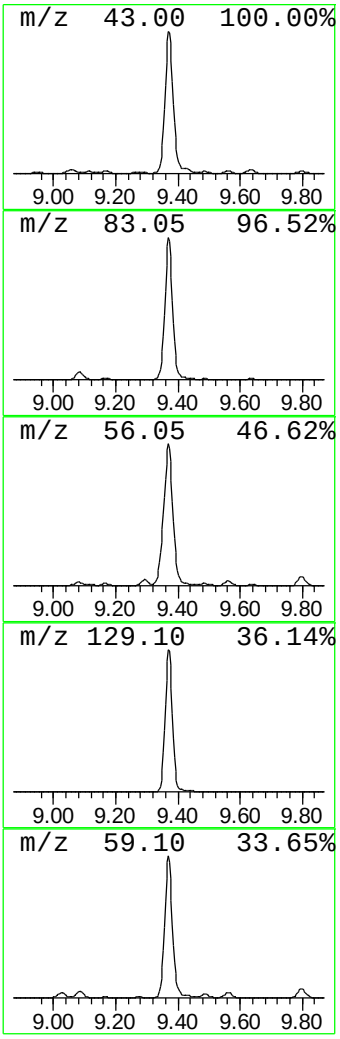
****

Peak Number 6 unknown-01 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	66.61 ug/L	913378	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-1,2,4-Triazole, 3-methyl-	83	C3H5N3	007170-01-6	38
2	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	35
3	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	32
4	1H-1,2,4-Triazole, 3-(2-methylpr...	125	C6H11N3	040515-29-5	22
5	2-Butenoic acid, 2-methoxy-3-met...	144	C7H12O3	056009-32-6	22





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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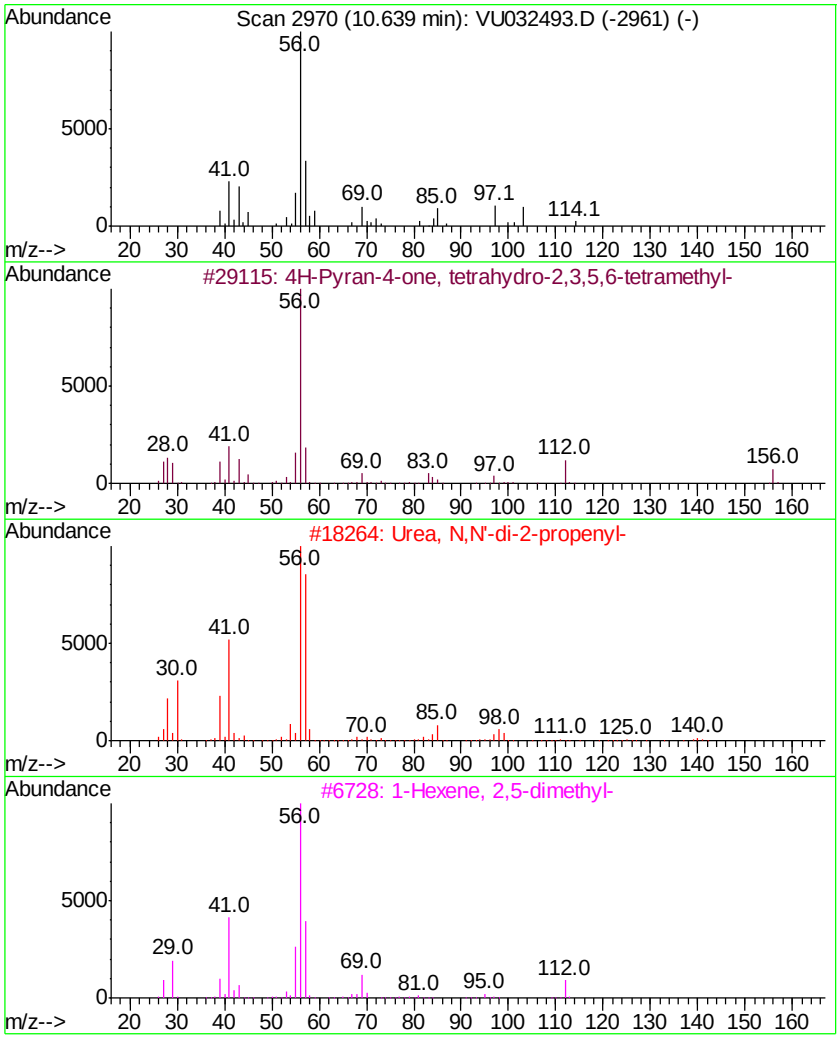
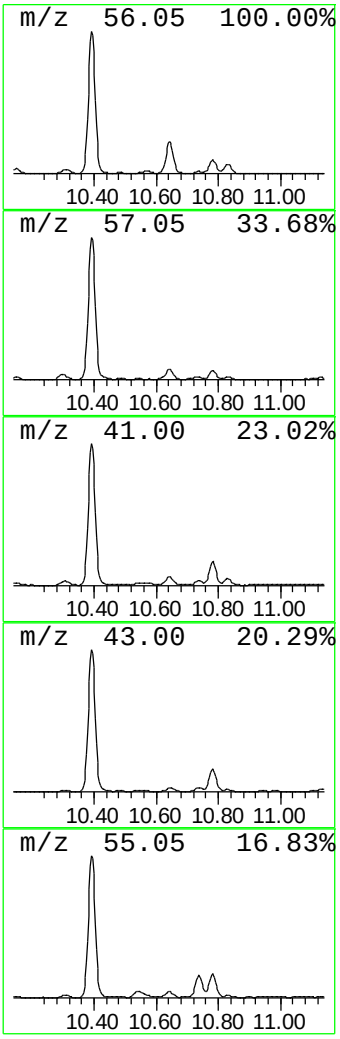
Peak Number 7 unknown-02 Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.64	4.07 ug/L	55631	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Pyran-4-one, tetrahydro-2,3,5...	156	C9H16O2	054458-60-5	42
2	Urea, N,N'-di-2-propenyl-	140	C7H12N2O	001801-72-5	42
3	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	40
4	3,3,4,4-Tetramethyl-cyclopentanone	140	C9H16O	056077-22-6	40
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	38





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

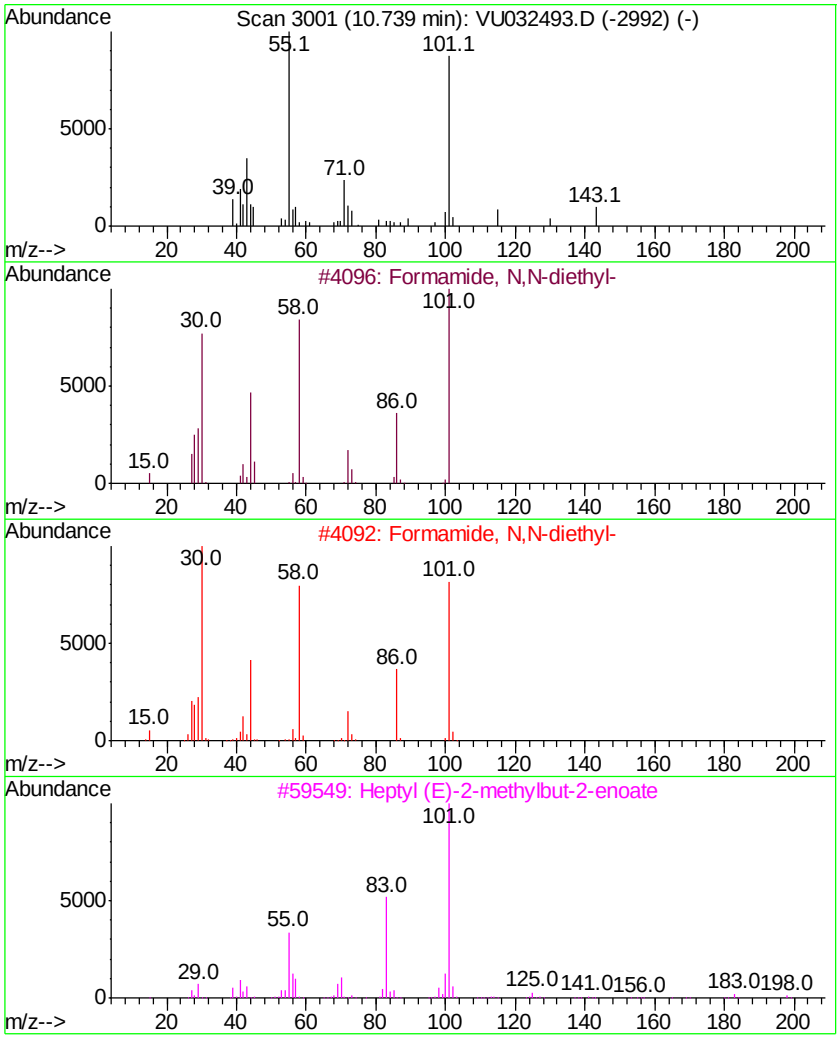
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

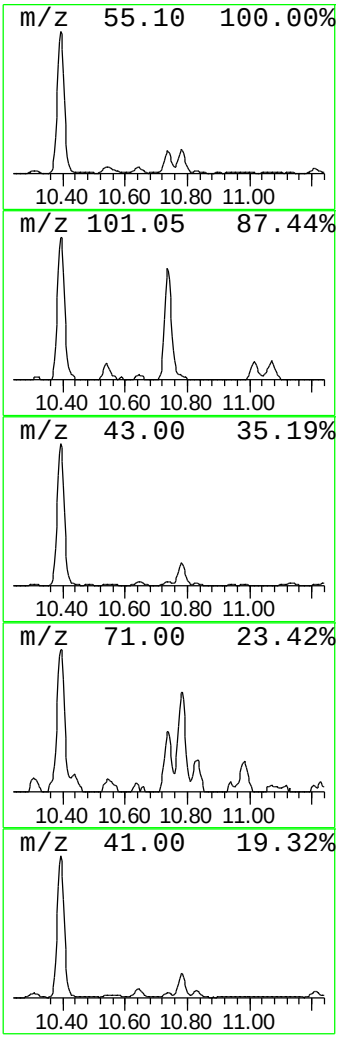
****

Peak Number 8 unknown-03 Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.74	3.08 ug/L	42080	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formamide, N,N-diethyl-	101	C5H11NO	000617-84-5	47
2	Formamide, N,N-diethyl-	101	C5H11NO	000617-84-5	38
3	Heptyl (E)-2-methylbut-2-enoate	198	C12H22O2	1000373-73-8	37
4	Cyclobutanecarboxylic acid, pent...	170	C10H18O2	1000280-40-2	36
5	1,3-Dioxane, 2,4-dimethyl-	116	C6H12O2	000766-20-1	34





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

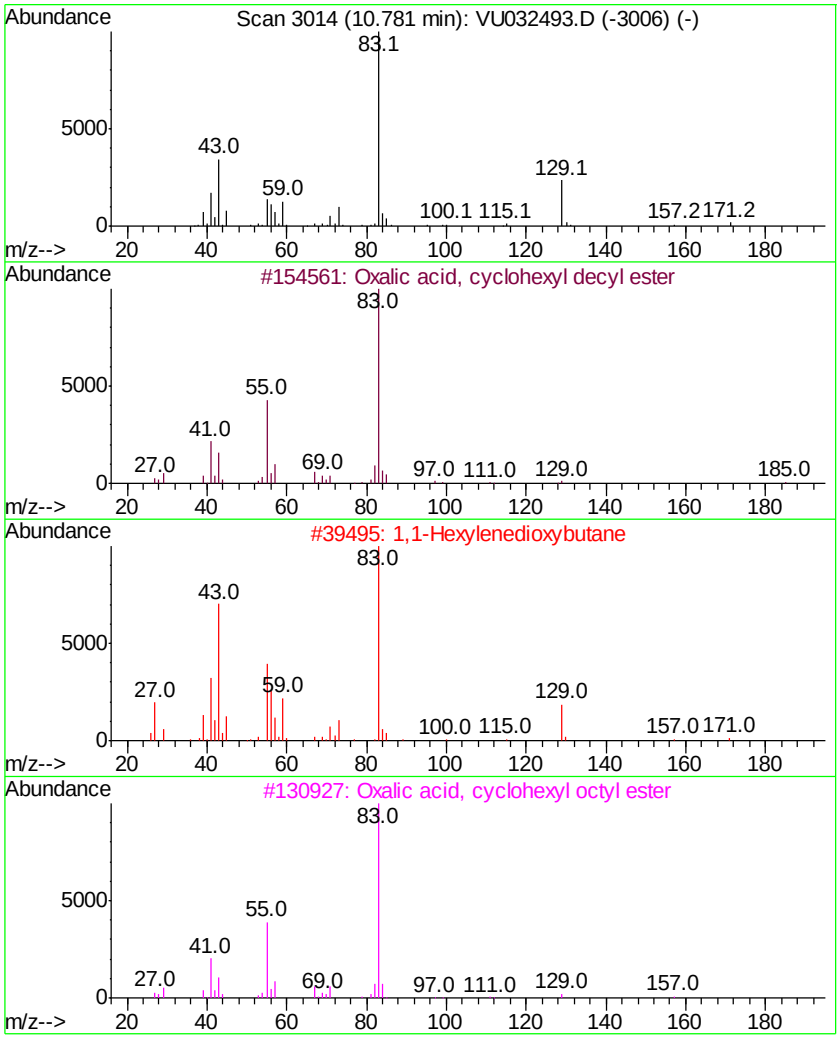
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

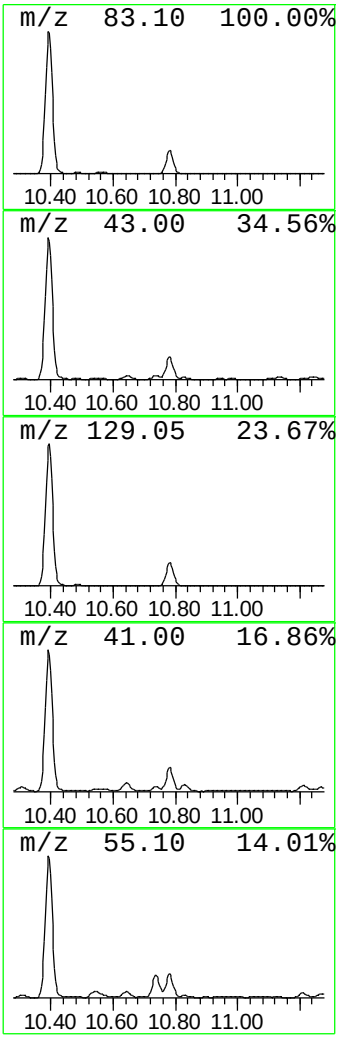
****

Peak Number 9 Oxalic acid, cyclohexyl dec... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	13.96 ug/L	190524	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexyl decyl ester	312	C18H32O4	1000309-31-2	50
2	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	40
3	Oxalic acid, cyclohexyl octyl ester	284	C16H28O4	1000309-31-0	38
4	Pentanoic acid, 2,4-dimethyl-4-n...	189	C8H15NO4	005762-40-3	38
5	Cyclohexanecarboxylic acid isopr...	170	C10H18O2	006553-80-6	28





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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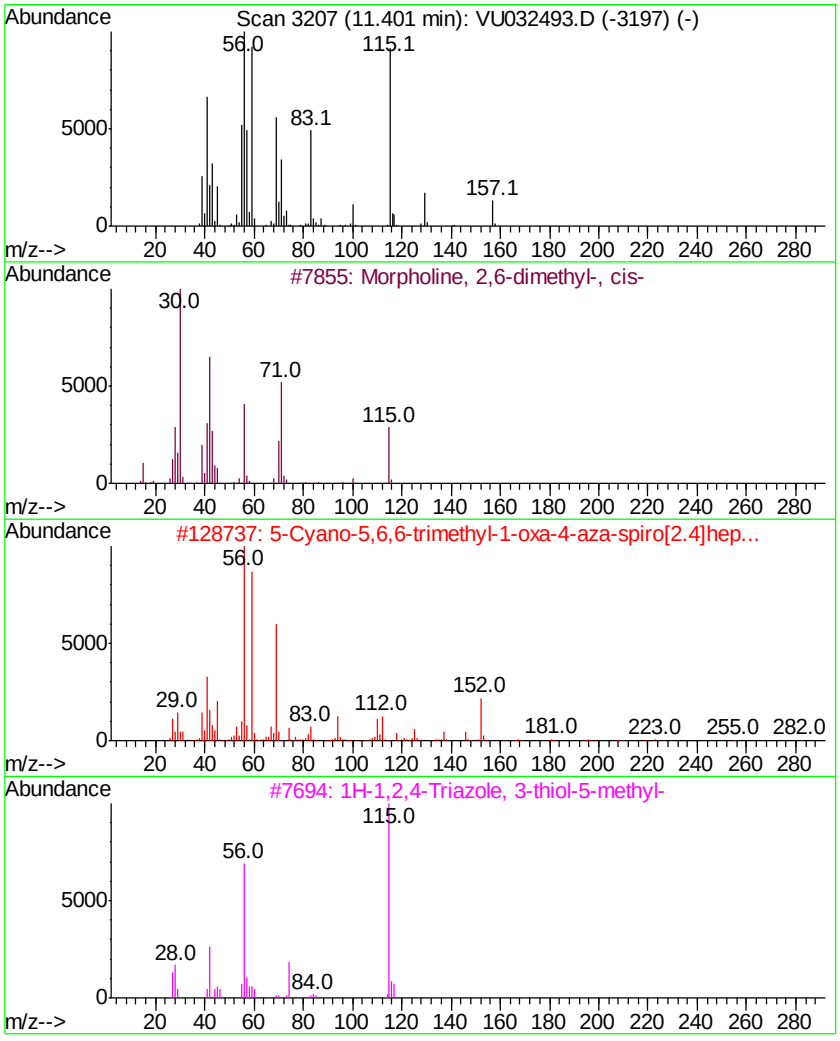
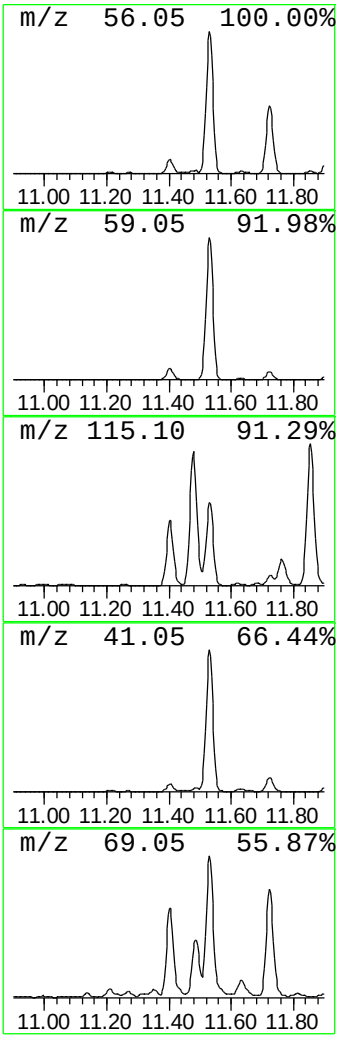
Peak Number 10 unknown-04 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	21.14 ug/L	288575	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Morpholine, 2,6-dimethyl-, cis-	115	C6H13NO	006485-55-8	38
2	5-Cyano-5,6,6-trimethyl-1-oxa-4-...	282	C13H18N2O5	1000193-01-2	37
3	1H-1,2,4-Triazole, 3-thiol-5-met...	115	C3H5N3S	007271-44-5	27
4	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	16
5	3-Heptanol, 5-methyl-	130	C8H18O	018720-65-5	12





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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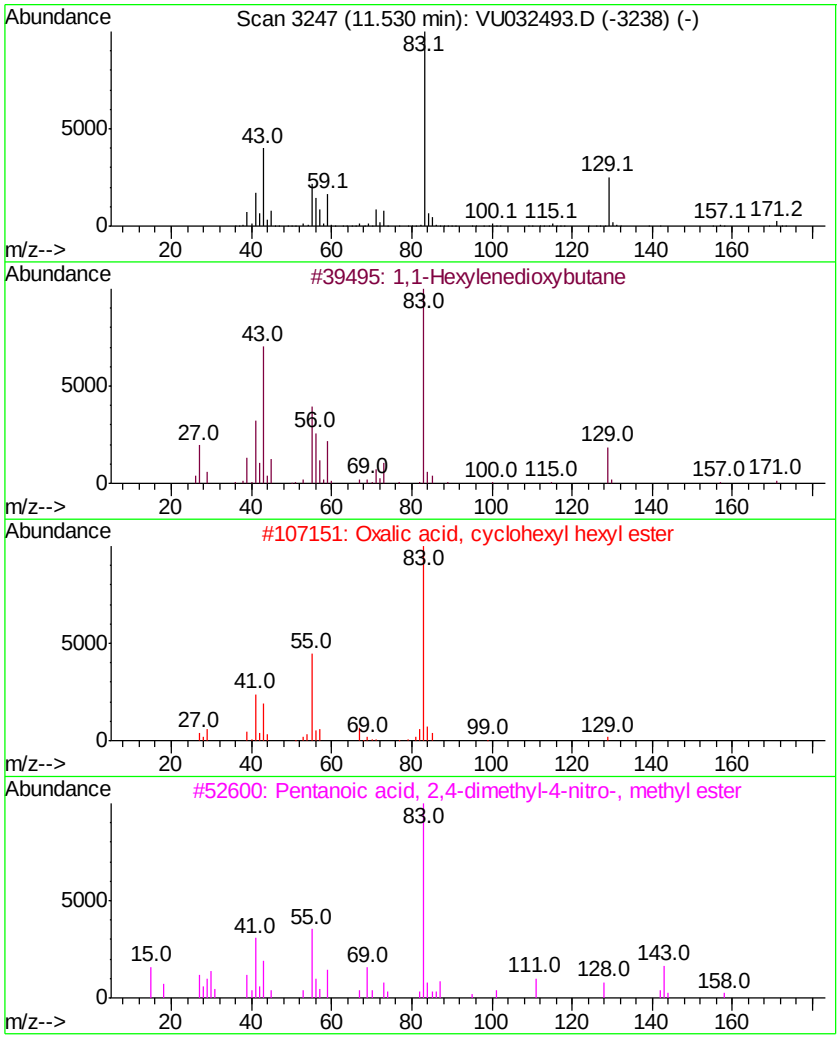
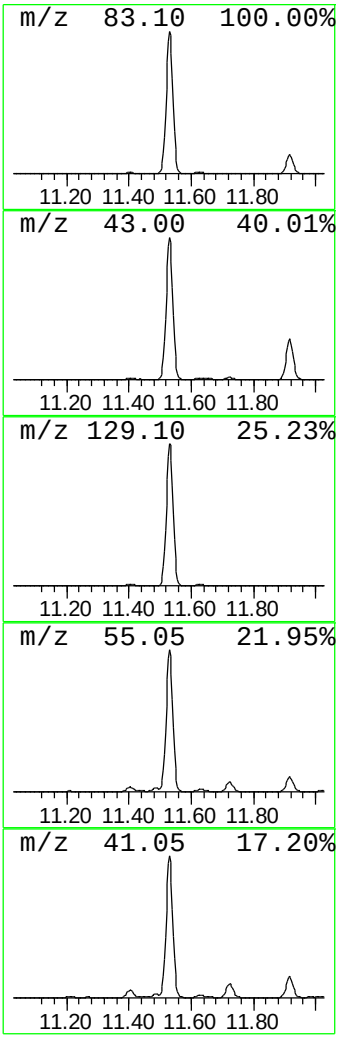
Peak Number 11 1,1-Hexylenedioxybutane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.53	509.89 ug/L	6961250	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	83
2	Oxalic acid, cyclohexyl hexyl ester	256	C14H24O4	1000309-30-8	50
3	Pentanoic acid, 2,4-dimethyl-4-n...	189	C8H15NO4	005762-40-3	38
4	5-Cyano-1,2,3-thiadiazole	111	C3HN3S	057352-02-0	36
5	Oxalic acid, cyclohexyl pentyl e...	242	C13H22O4	1000309-30-6	33





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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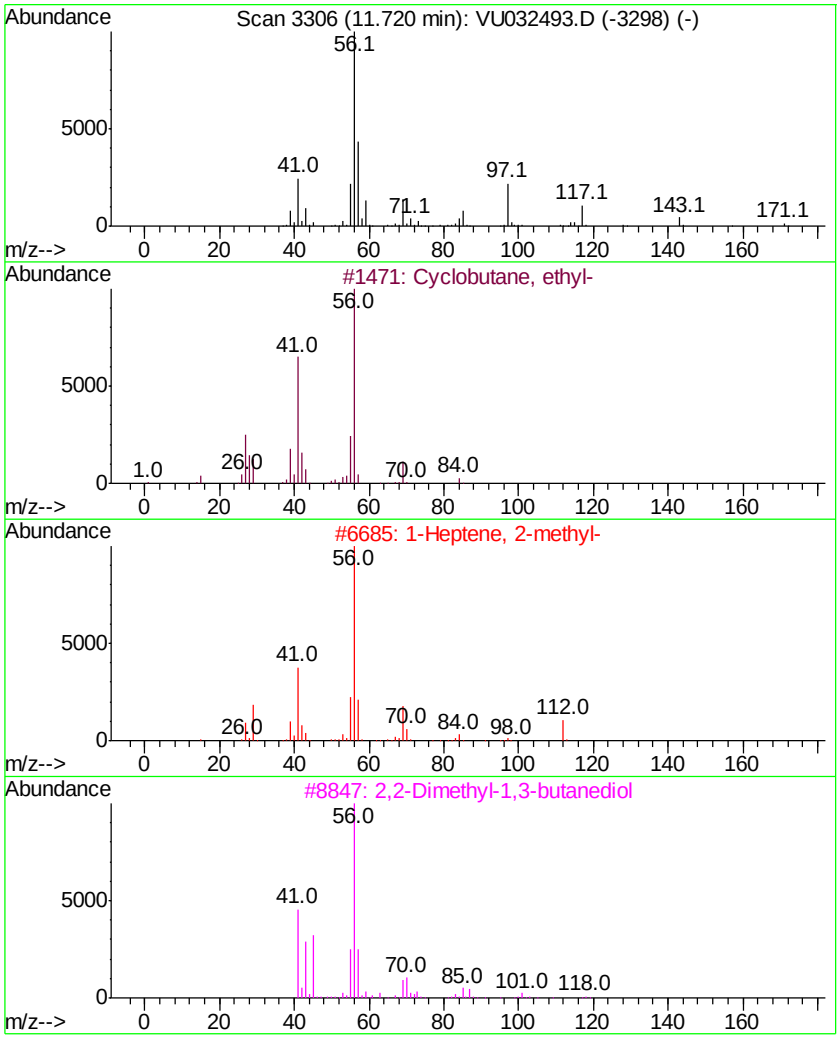
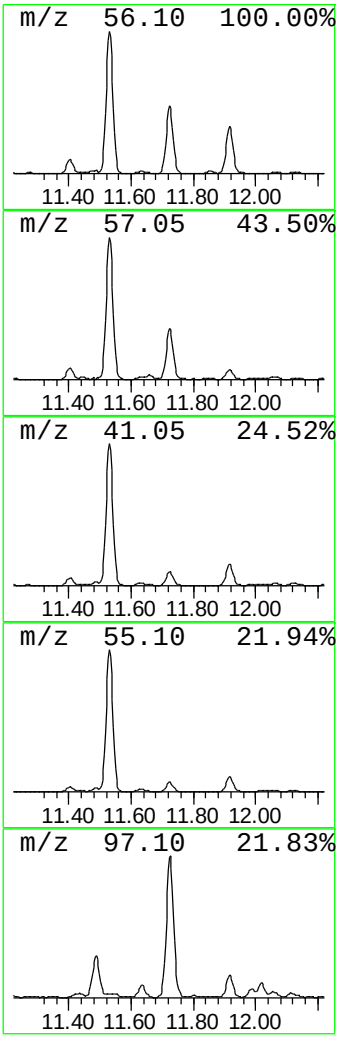
Peak Number 13 (DEL) Alkane: Cyclic11.72 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	36.31 ug/L	495739	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, ethyl-	84	C6H12	004806-61-5	47
2	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	40
3	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	33
4	Nonane, 5-methylene-	140	C10H20	006795-79-5	33
5	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	25





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

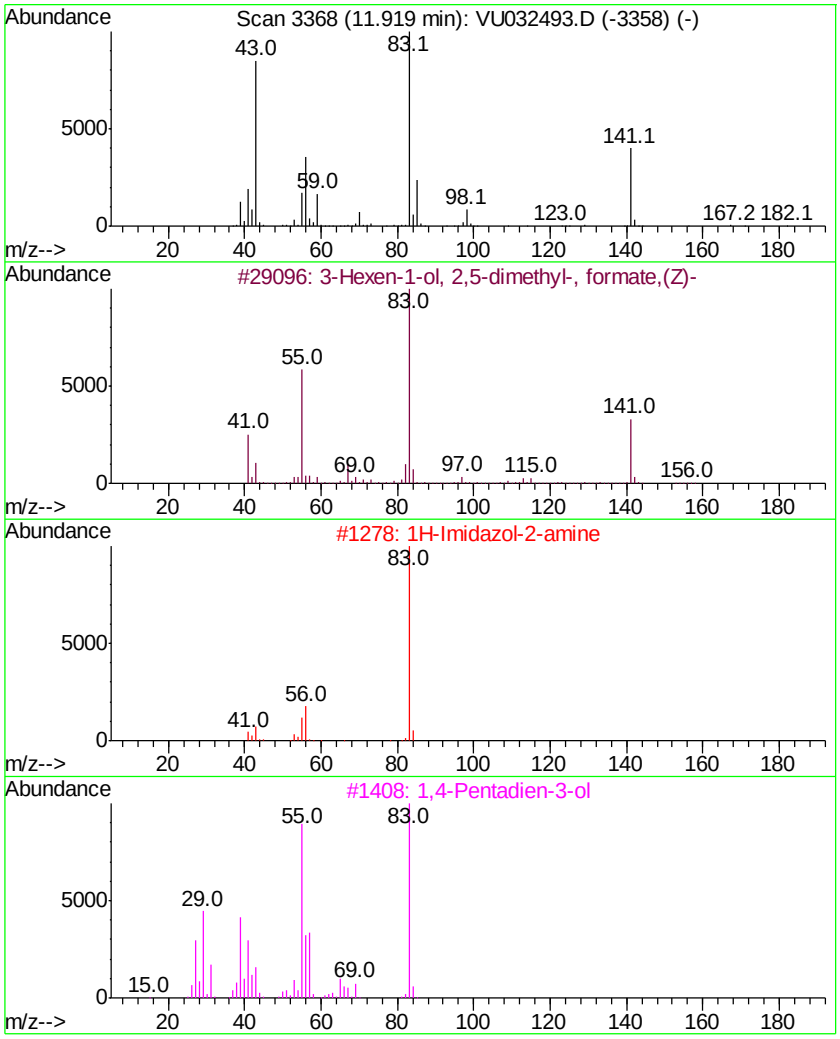
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

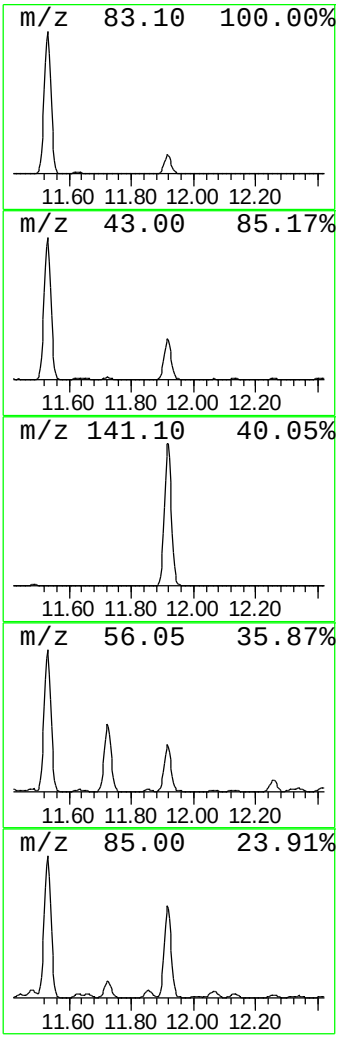
****

Peak Number 14 unknown-05 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	90.20 ug/L	1231500	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexen-1-ol, 2,5-dimethyl-, for...	156	C9H16O2	1000132-12-3	47
2	1H-Imidazol-2-amine	83	C3H5N3	007720-39-0	25
3	1,4-Pentadien-3-ol	84	C5H8O	000922-65-6	25
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	17
5	Octane	114	C8H18	000111-65-9	14





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Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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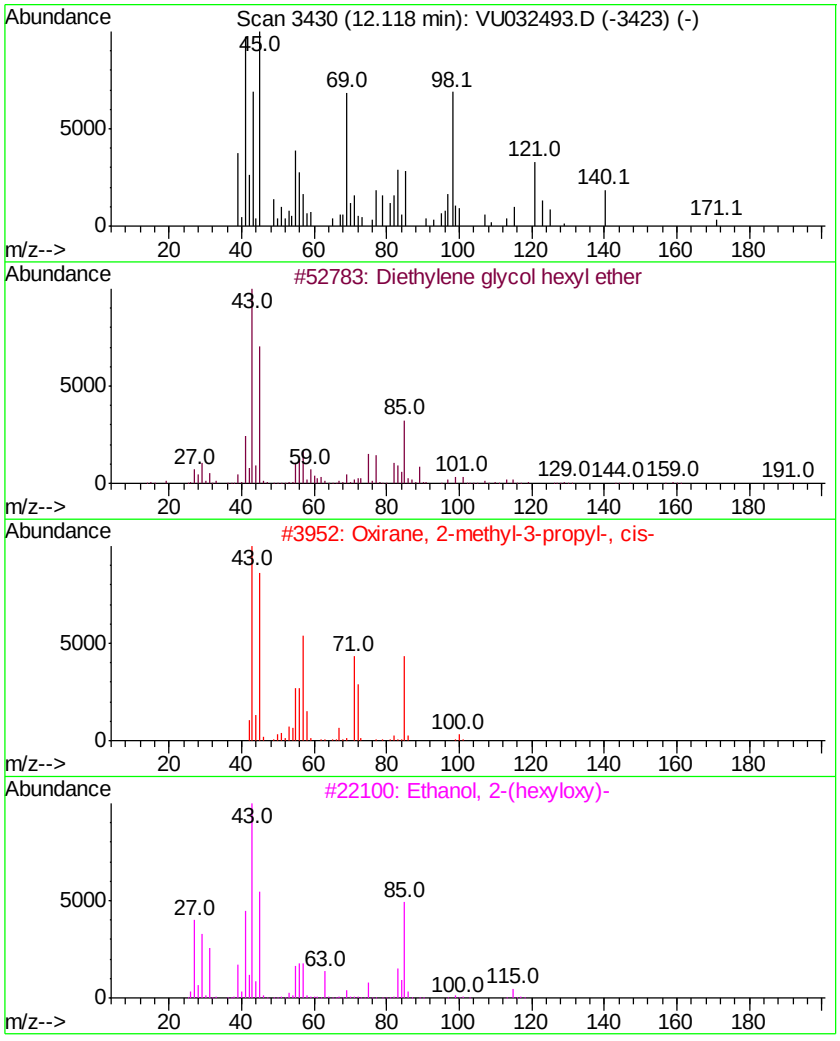
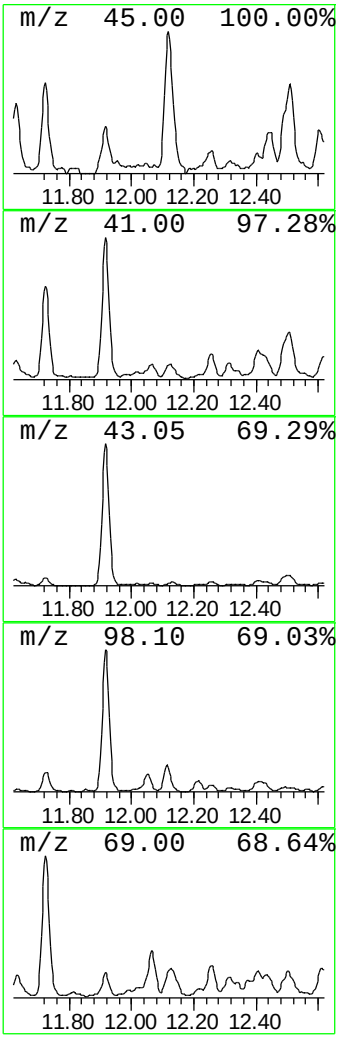
Peak Number 15 unknown-06 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	5.72 ug/L	78063	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethylene glycol hexyl ether	190	C10H22O3	000112-59-4	49
2	Oxirane, 2-methyl-3-propyl-, cis-	100	C6H12O	006124-90-9	47
3	Ethanol, 2-(hexyloxy)-	146	C8H18O2	000112-25-4	47
4	2-Heptadecanol	256	C17H36O	016813-18-6	43
5	2-Hexanone, 6-methoxy-	130	C7H14O2	029006-00-6	38





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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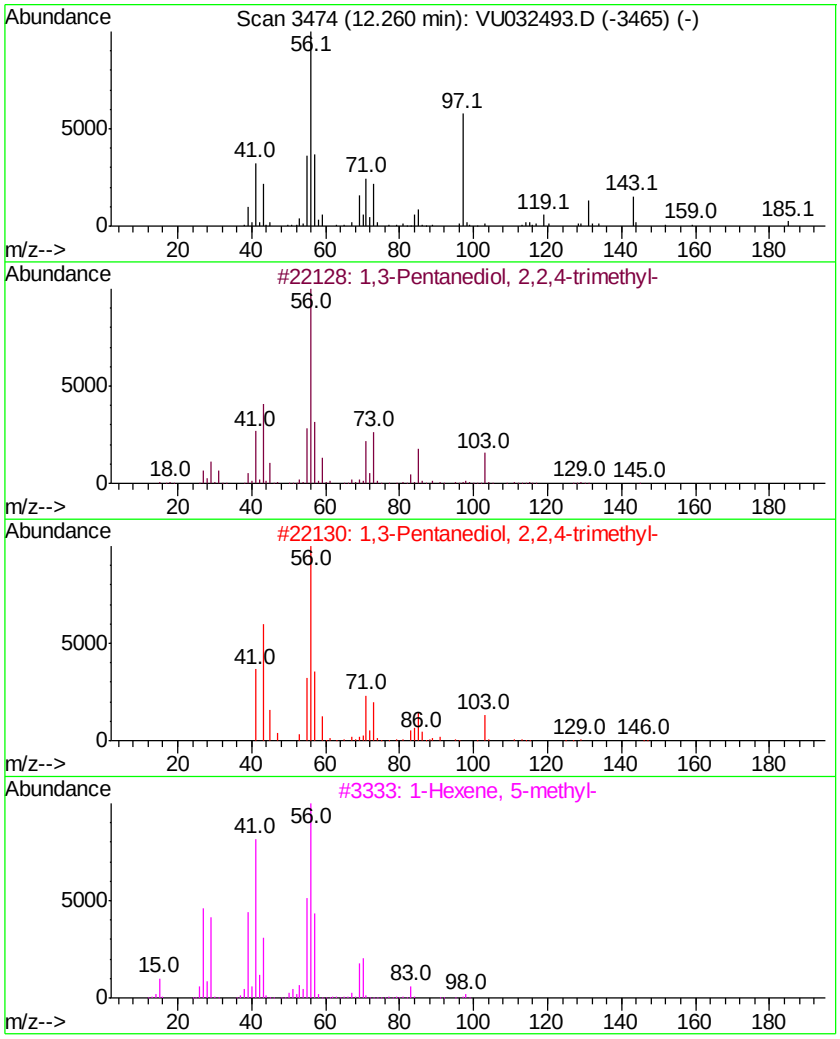
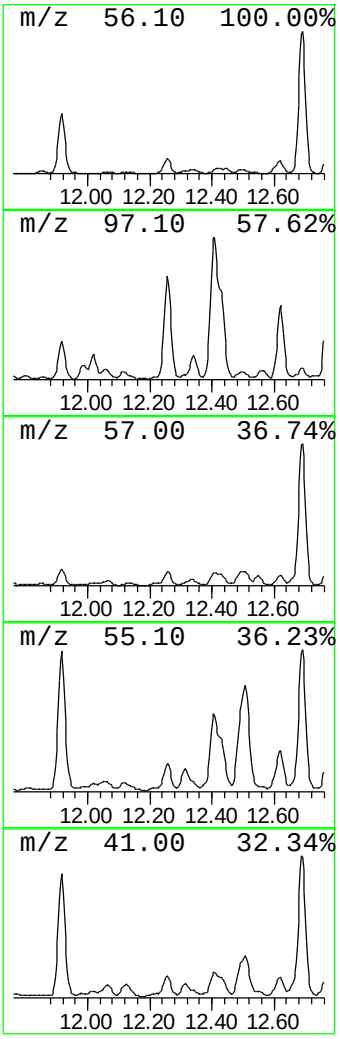
Peak Number 16 unknown-07 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	9.19 ug/L	125413	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	38
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	Cyclopropane, propyl-	84	C6H12	002415-72-7	27
5	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	23





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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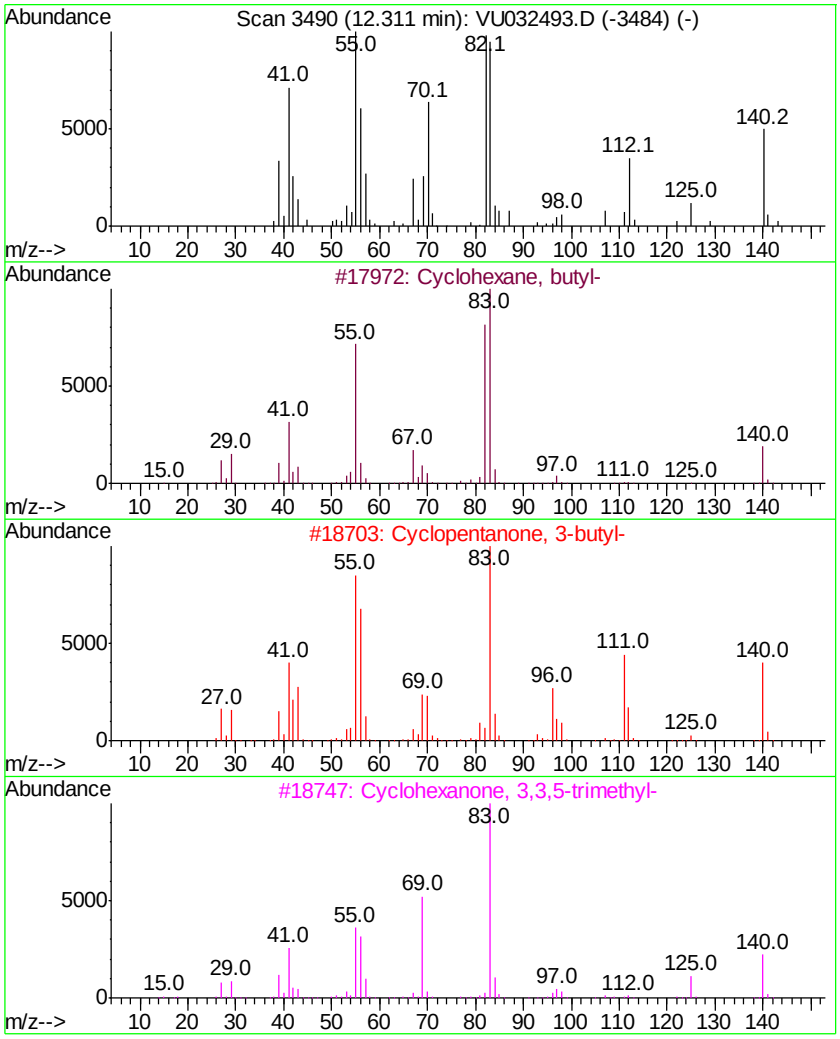
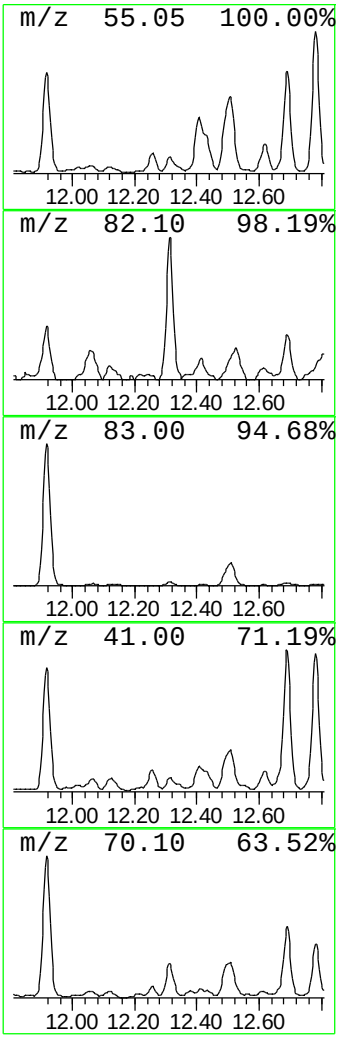
Peak Number 17 (DEL) Alkane: Cyclic12.31 Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	3.99 ug/L	54415	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	70
2	Cyclopentanone, 3-butyl-	140	C9H16O	057283-81-5	46
3	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	45
4	3-Heptene, 3-methyl-	112	C8H16	007300-03-0	38
5	2-Octene, (Z)-	112	C8H16	007642-04-8	38





Library Search Compound Report

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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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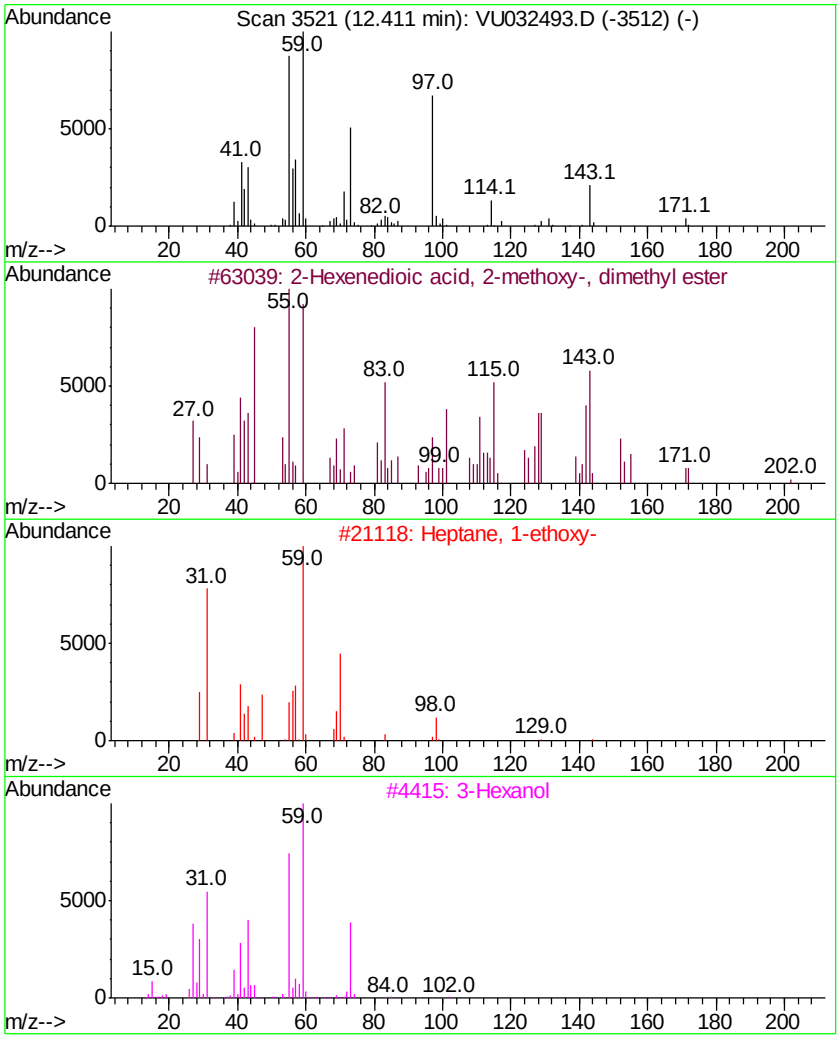
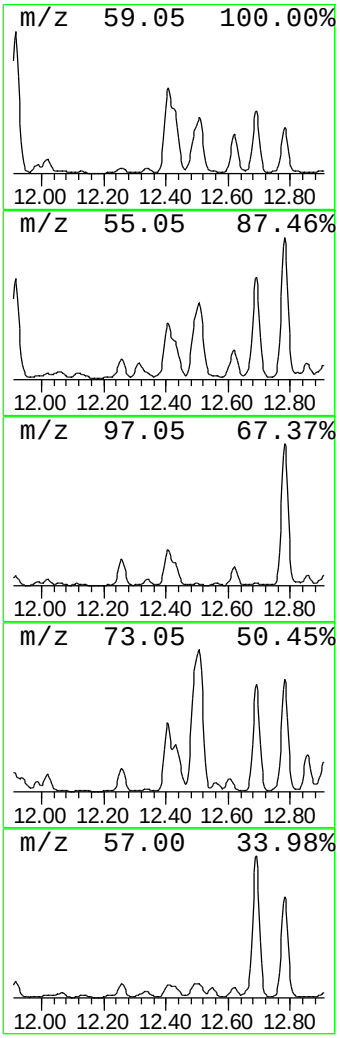
Peak Number 18 unknown-08 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	22.33 ug/L	304886	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexenedioic acid, 2-methoxy-, ...	202	C9H14O5	056114-71-7	43
2	Heptane, 1-ethoxy-	144	C9H20O	001969-43-3	38
3	3-Hexanol	102	C6H14O	000623-37-0	38
4	Oxetane, 2,2,4-trimethyl-	100	C6H12O	023120-44-7	35
5	3-Hexanol	102	C6H14O	000623-37-0	32





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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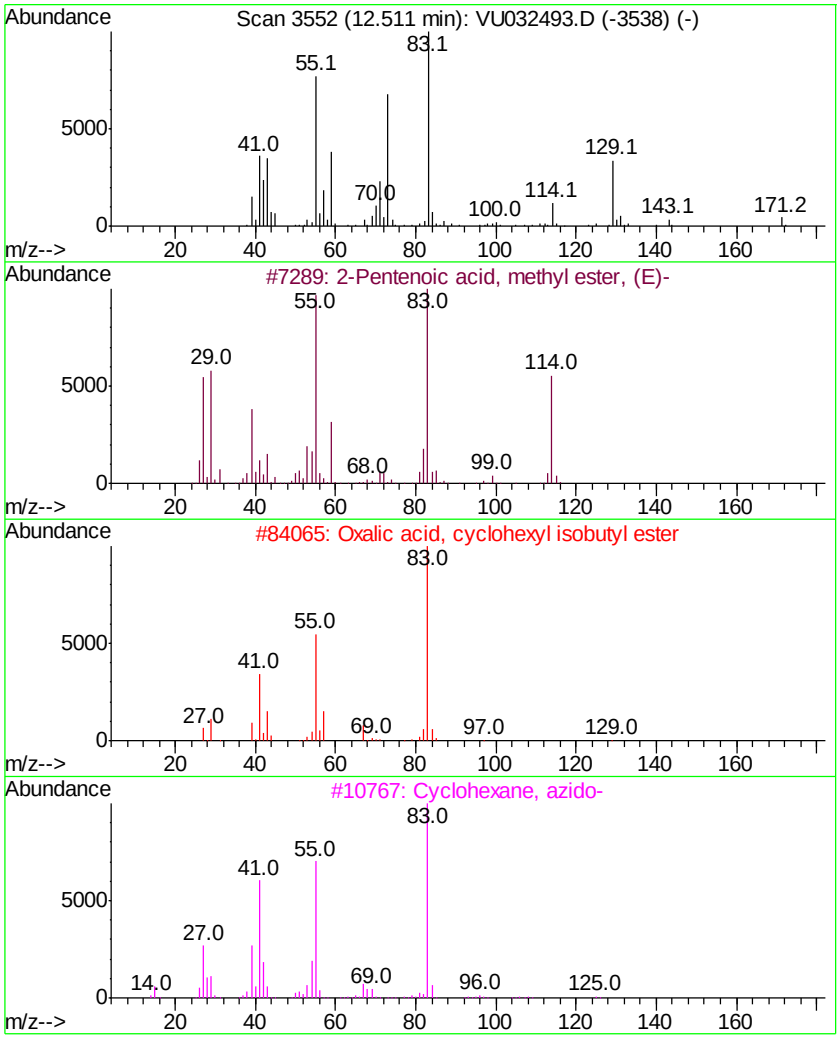
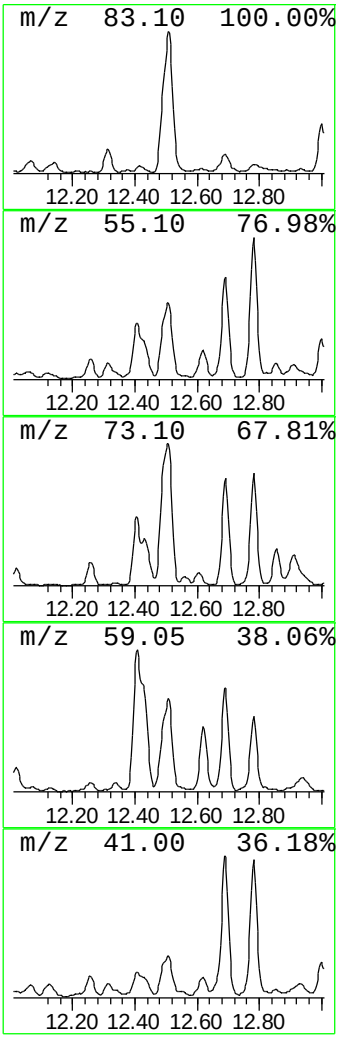
Peak Number 19 2-Pentenoic acid, methyl es... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	35.77 ug/L	488403	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	50
2	Oxalic acid, cyclohexyl isobutyl...	228	C12H20O4	1000309-30-4	35
3	Cyclohexane, azido-	125	C6H11N3	019573-22-9	32
4	3-Methylbut-2-enoic acid, 3-meth...	170	C10H18O2	1000355-12-7	32
5	Oxalic acid, cyclohexyl propyl e...	214	C11H18O4	1000309-30-3	25





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

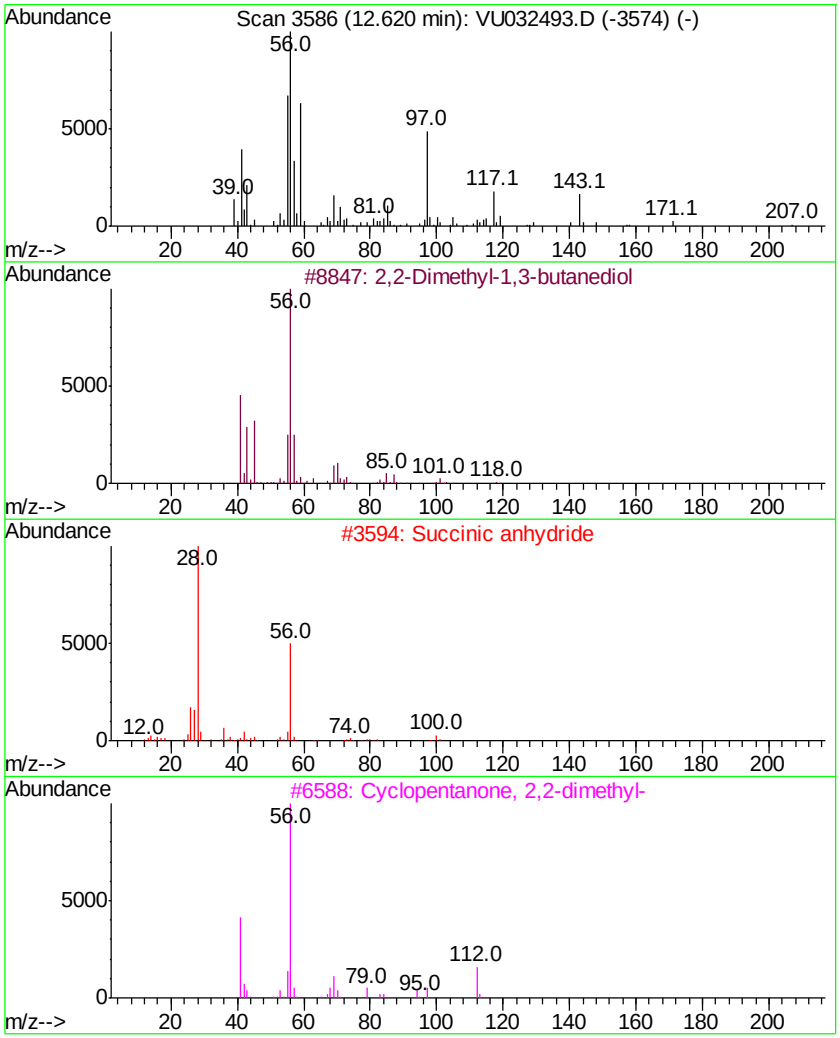
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

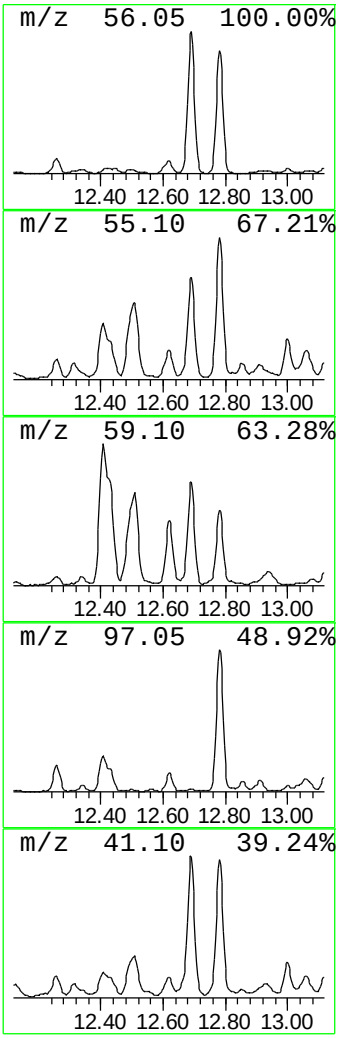
****

Peak Number 20 unknown-09 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	11.13 ug/L	151887	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	35
2	Succinic anhydride	100	C4H4O3	000108-30-5	30
3	Cyclopentanone, 2,2-dimethyl-	112	C7H12O	004541-32-6	27
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
5	4-Aminocyclohexanol acetate (ester)	157	C8H15NO2	1000130-62-8	27





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

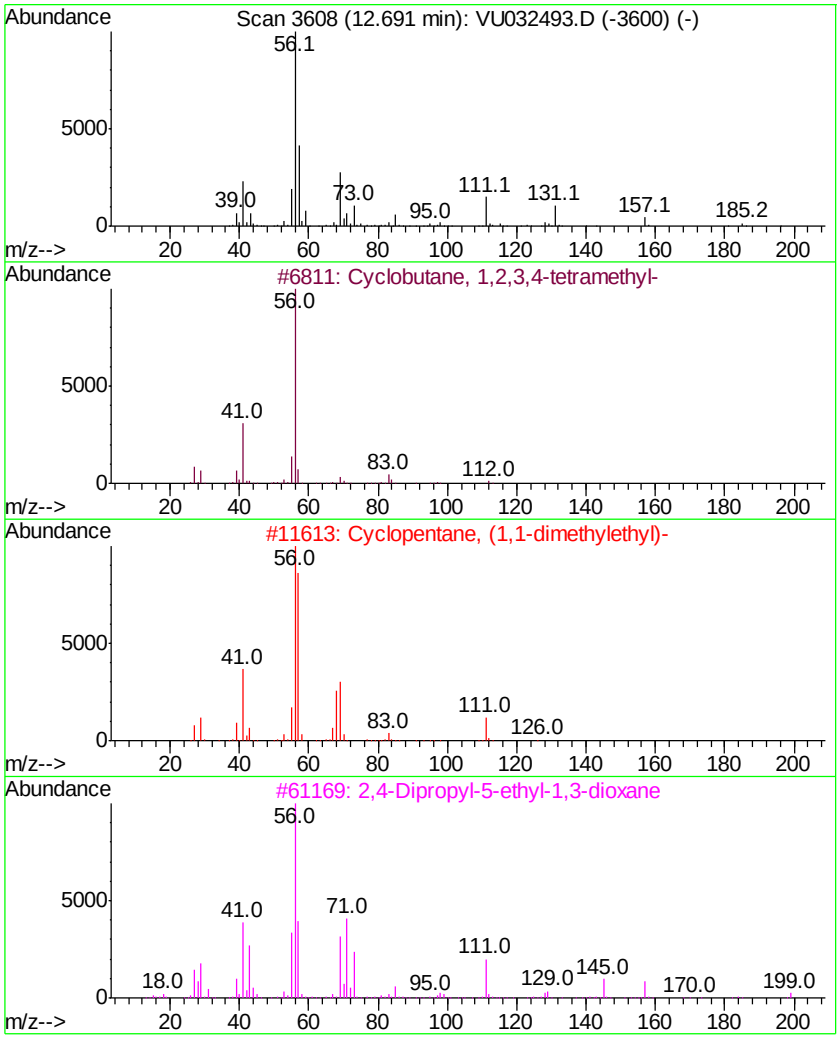
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

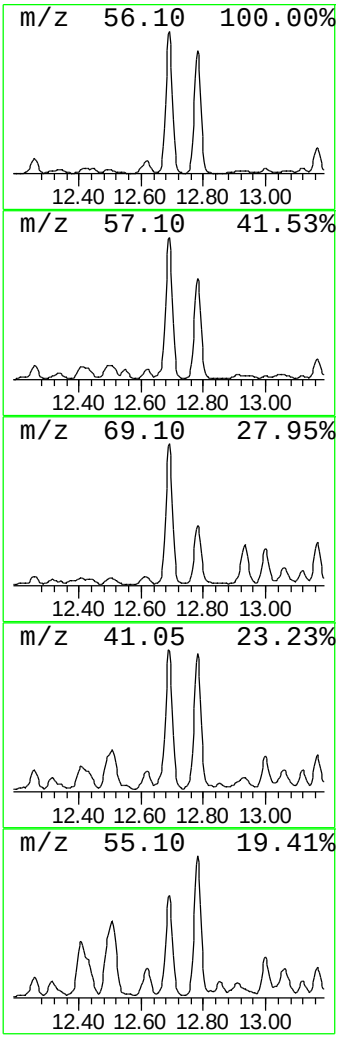
****

Peak Number 21 (DEL) Alkane: Cyclic12.69 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	66.69 ug/L	910449	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	47
2	Cyclopentane, (1,1-dimethylethyl)-	126	C9H18	003875-52-3	40
3	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	36
4	1-Oxa-4-azaspiro[4.5]decan-4-oxy...	198	C10H16NO3	1000115-84-0	33
5	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	33





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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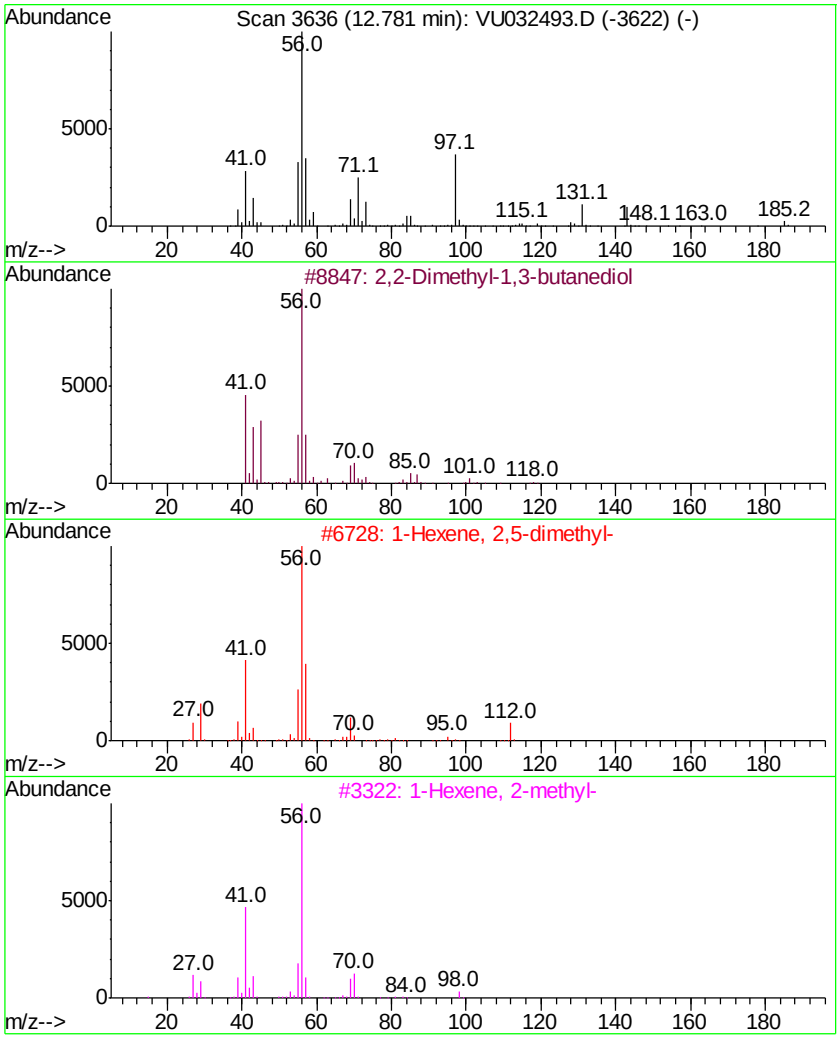
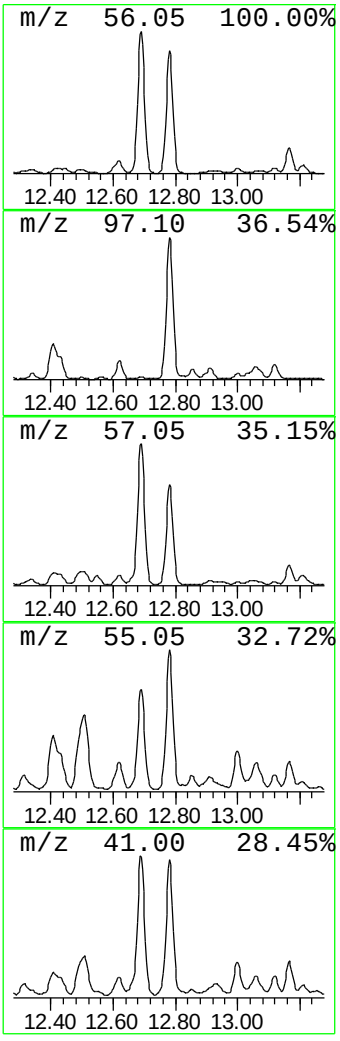
Peak Number 22 unknown-10 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	68.08 ug/L	929490	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	43
2	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	38
3	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	38
4	1,2-Cyclohexanediamine	114	C6H14N2	000694-83-7	33
5	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	23





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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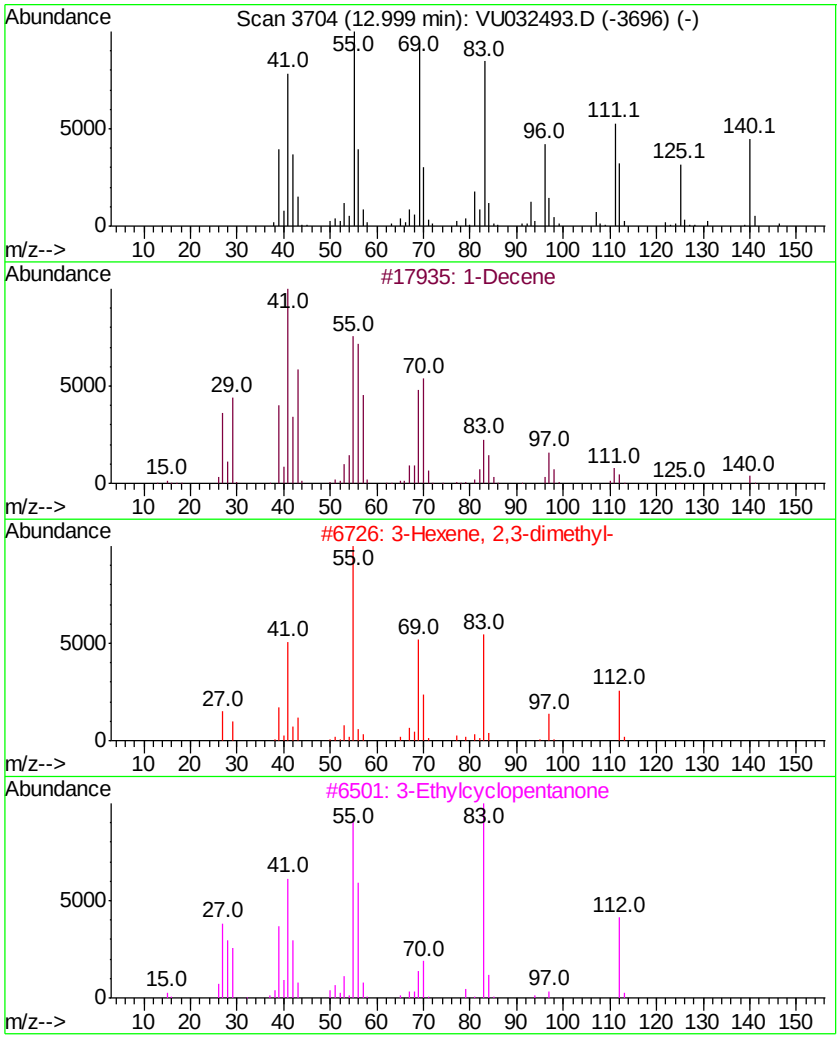
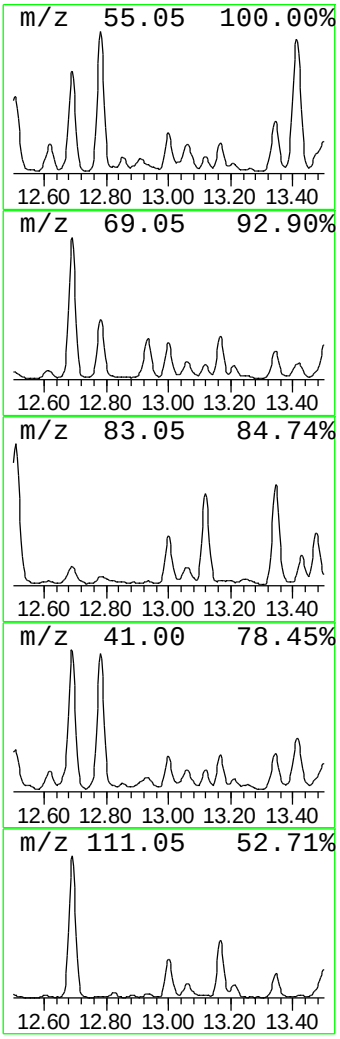
Peak Number 23 (DEL) Alkane: Cyclic13.00 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	12.44 ug/L	169819	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Decene	140	C10H20	000872-05-9	58
2	3-Hexene, 2,3-dimethyl-	112	C8H16	007145-23-5	43
3	3-Ethylcyclopentanone	112	C7H12O	010264-55-8	30
4	Pentane, 3-methylene-	84	C6H12	000760-21-4	30
5	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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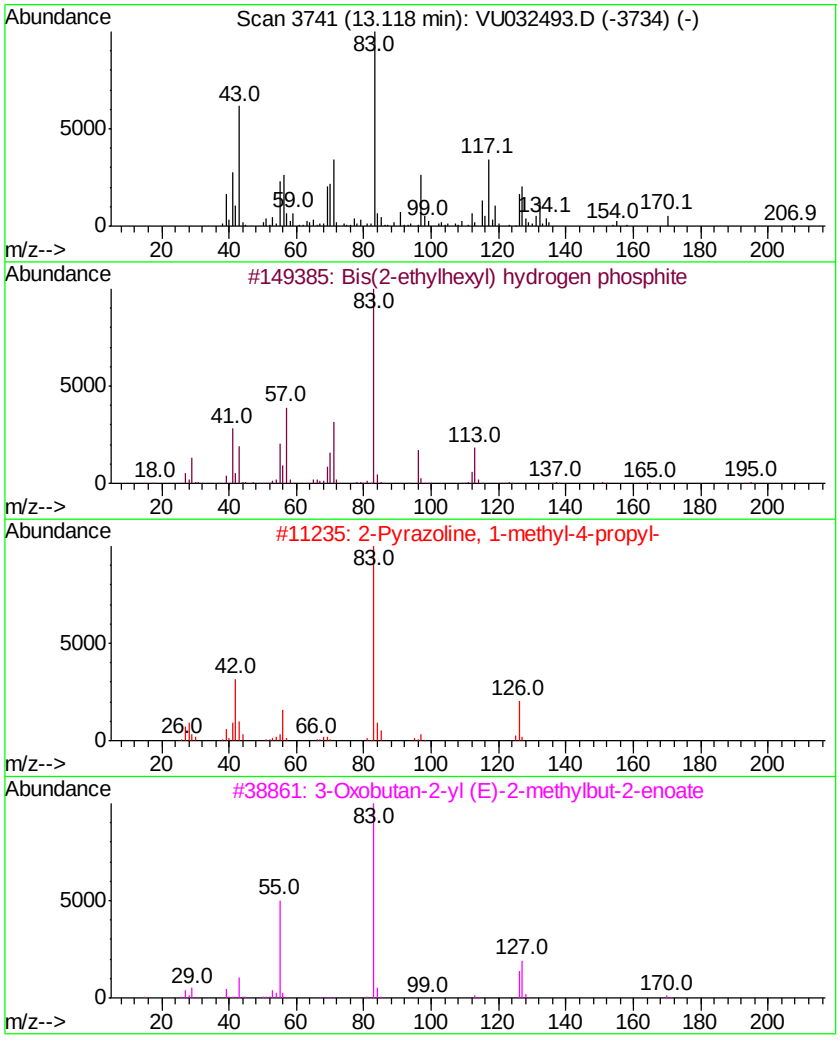
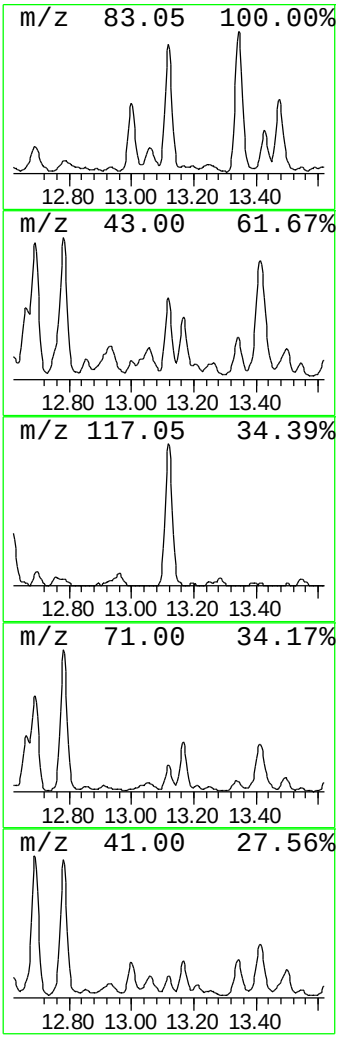
Peak Number 24 unknown-11 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	11.46 ug/L	156525	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bis(2-ethylhexyl) hydrogen phosp...	306	C16H35O3P	003658-48-8	38
2	2-Pyrazoline, 1-methyl-4-propyl-	126	C7H14N2	033063-77-3	35
3	3-Oxobutan-2-yl (E)-2-methylbut-...	170	C9H14O3	1000373-71-9	32
4	Ethanone, 1-(1-methylcyclopentyl)-	126	C8H14O	013388-93-7	27
5	Neopentyl (E)-2-methylbut-2-enoate	170	C10H18O2	1000373-71-0	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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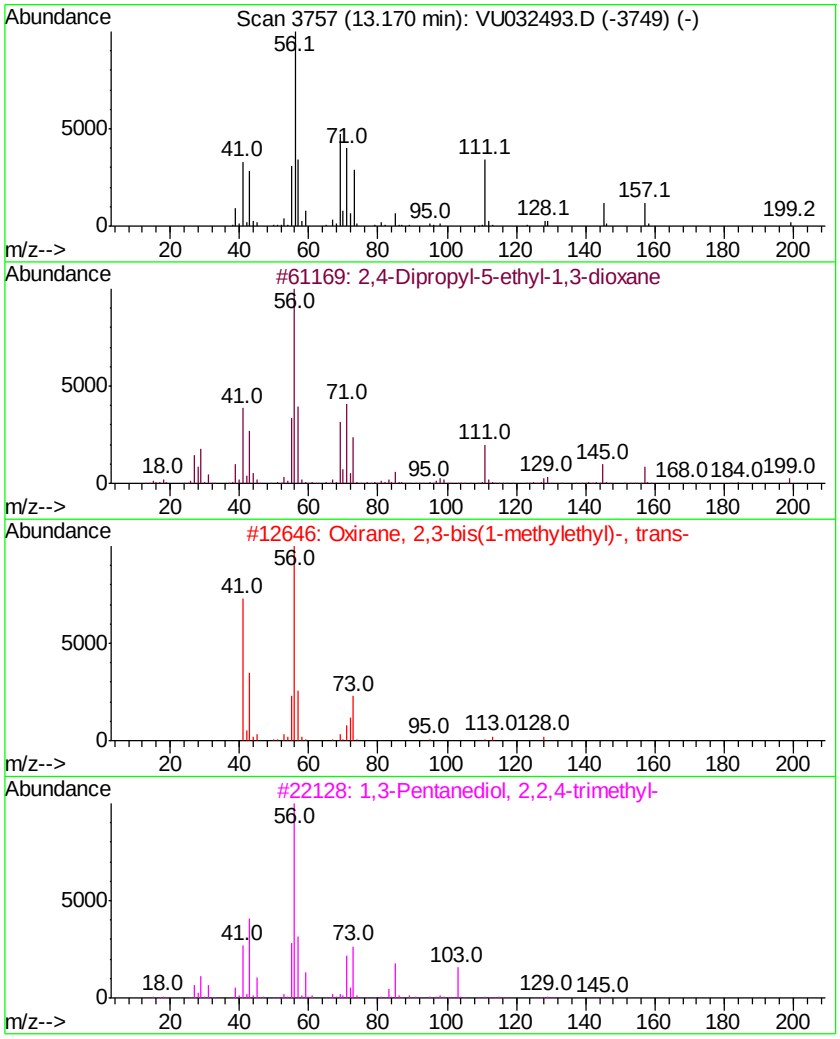
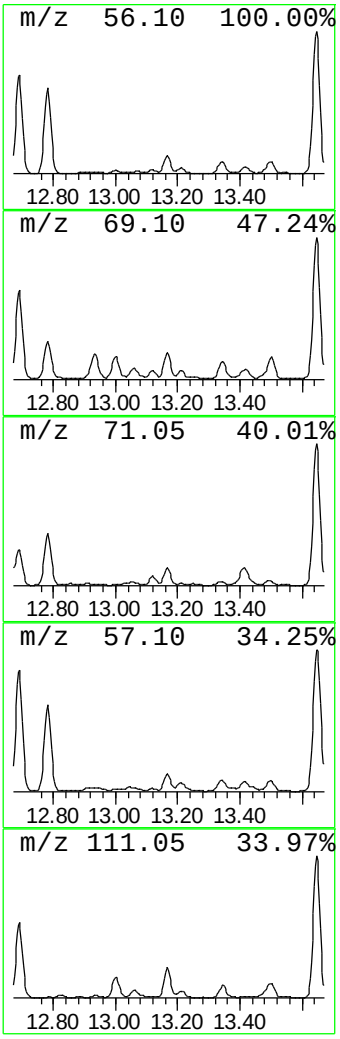
Peak Number 25 2,4-Dipropyl-5-ethyl-1,3-di... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	12.33 ug/L	168344	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	72
2	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	43
3	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	38
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	28
5	2-Methyl-1-nonene	140	C10H20	002980-71-4	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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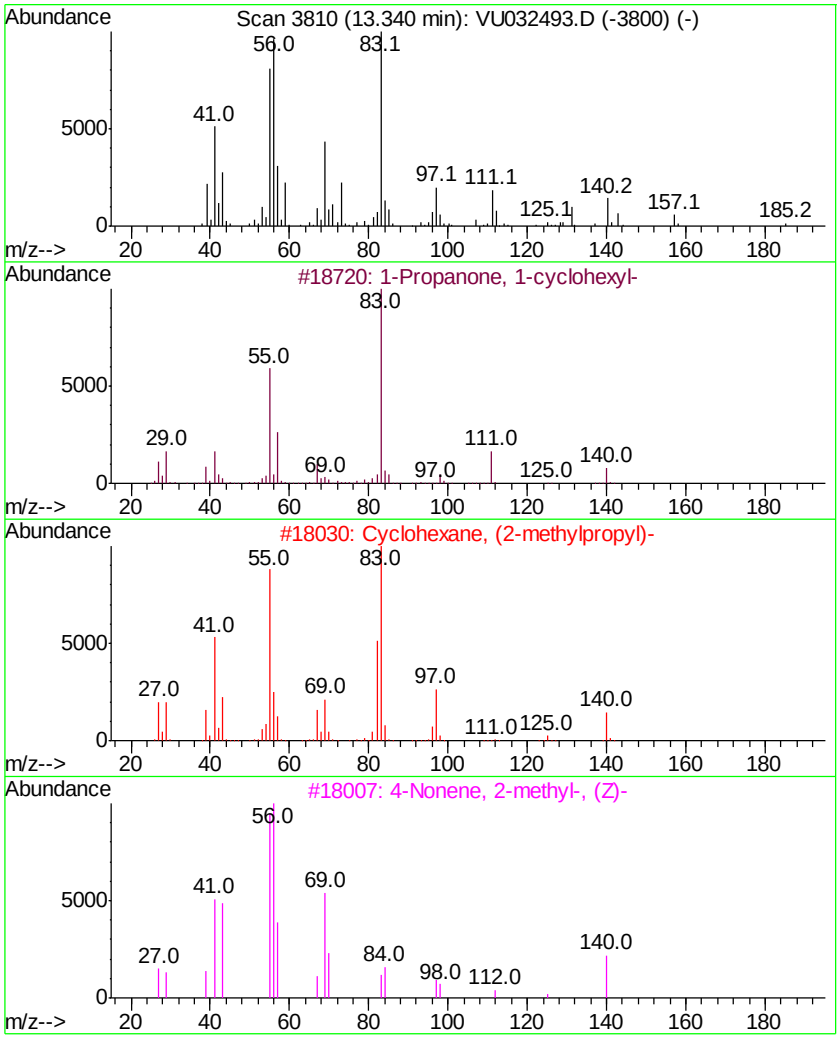
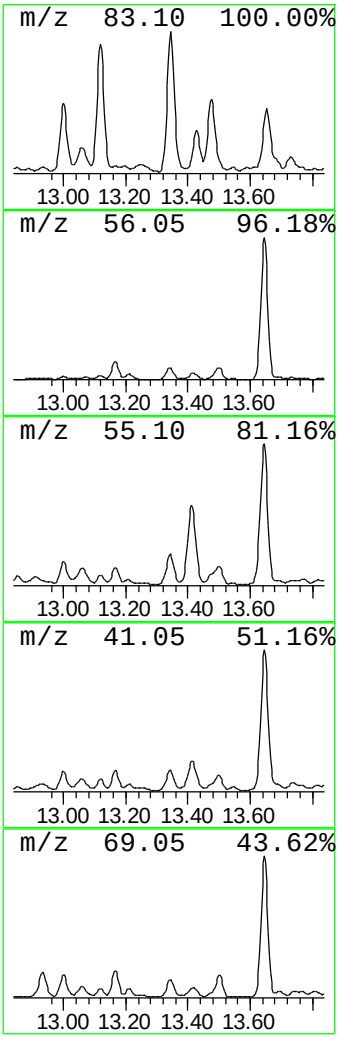
Peak Number 26 1-Propanone, 1-cyclohexyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	19.31 ug/L	263658	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanone, 1-cyclohexyl-	140	C9H16O	001123-86-0	50
2	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	43
3	4-Nonene, 2-methyl-, (Z)-	140	C10H20	051090-05-2	41
4	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	38
5	1-Propanone, 1-cyclohexyl-	140	C9H16O	001123-86-0	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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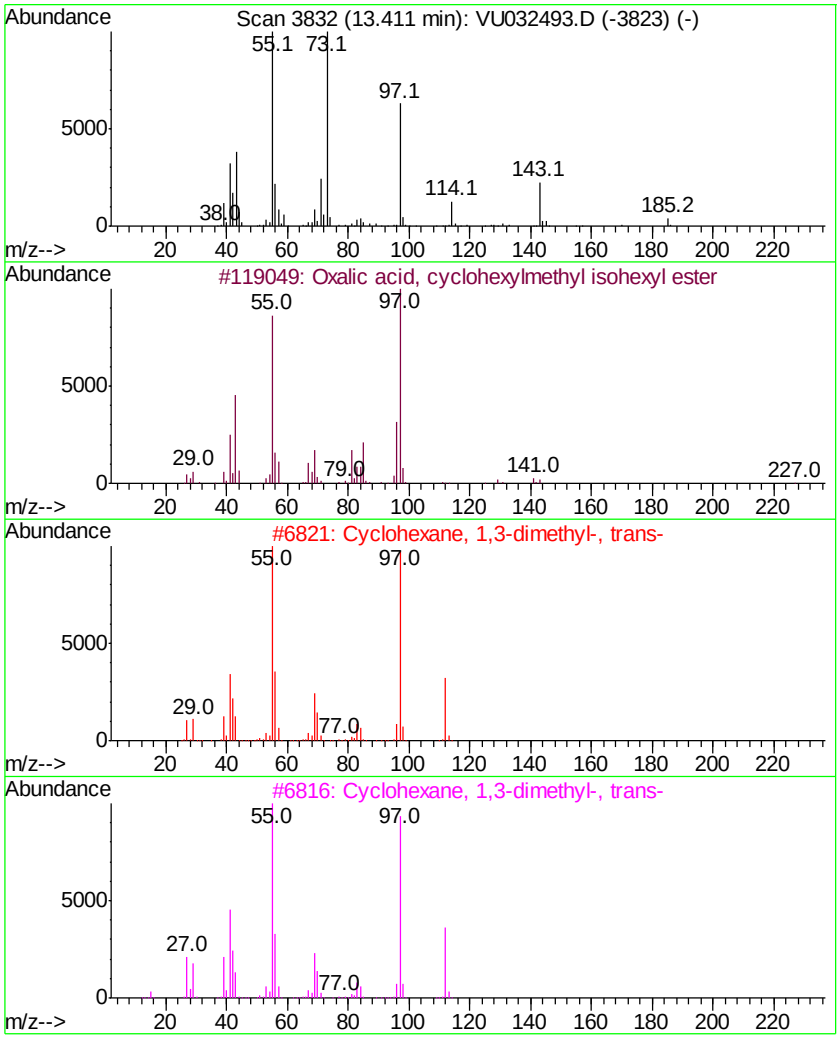
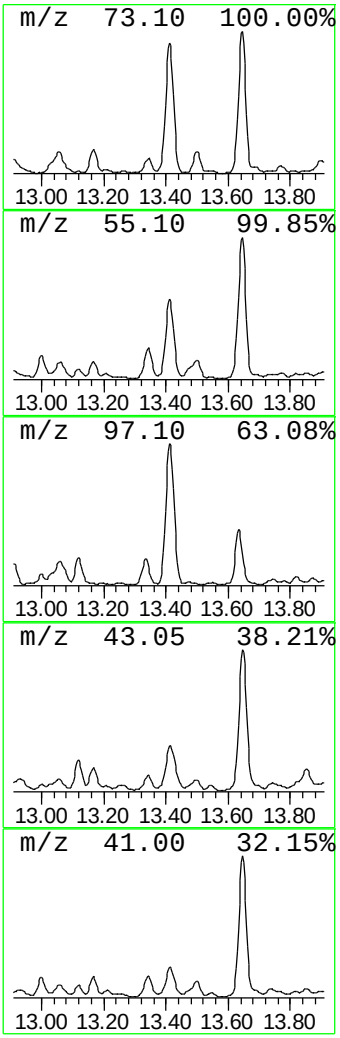
Peak Number 27 unknown-12 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.41	33.48 ug/L	457093	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexylmethyl is...	270	C15H26O4	1000309-68-3	38
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	37
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	37
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	37
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	37





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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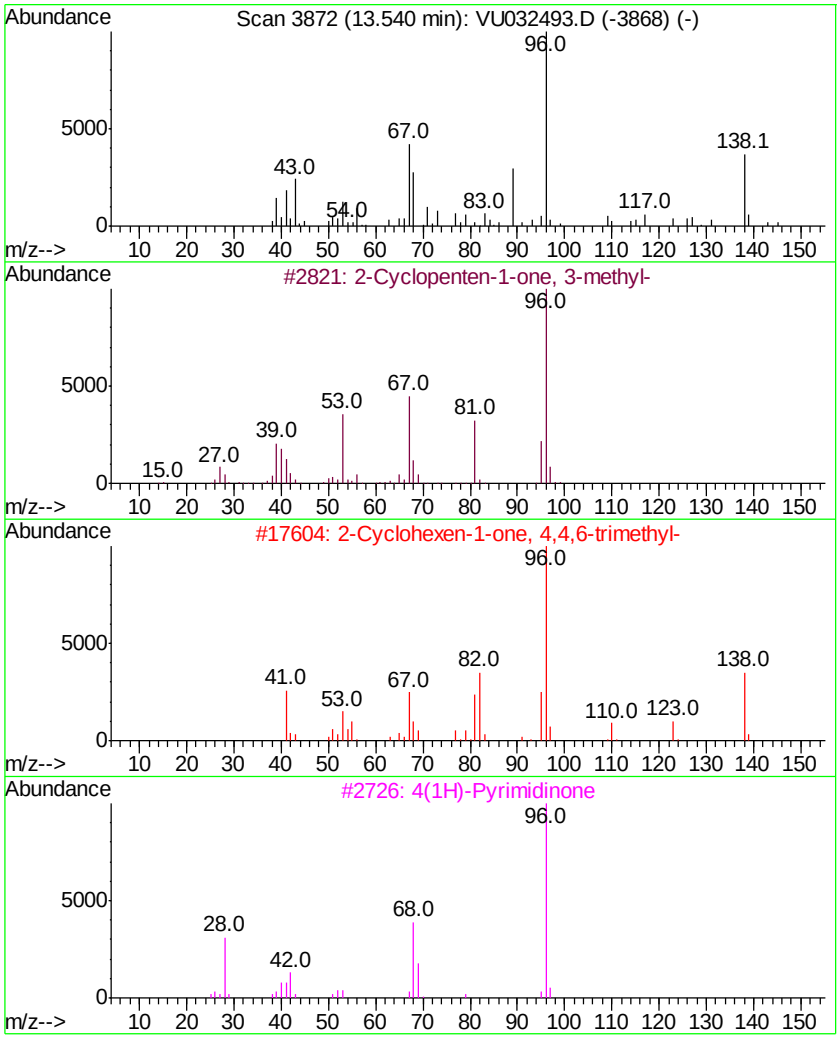
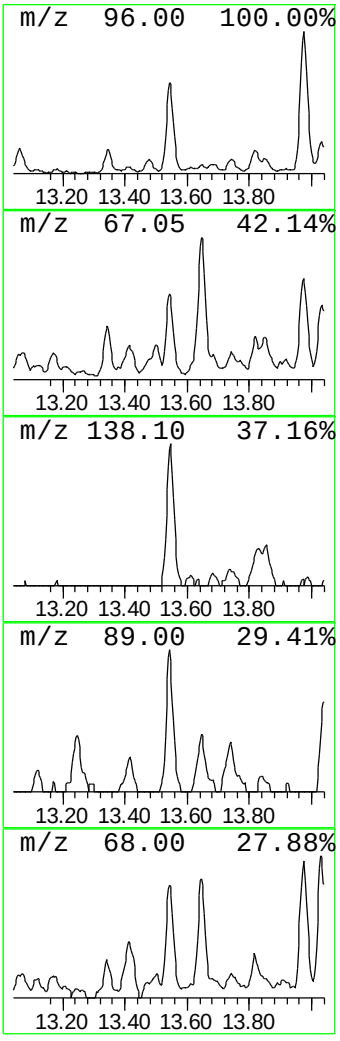
Peak Number 28 unknown-13 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.54	3.74 ug/L	51113	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclopenten-1-one, 3-methyl-	96	C6H8O	002758-18-1	43
2	2-Cyclohexen-1-one, 4,4,6-trimet...	138	C9H14O	013395-73-8	40
3	4(1H)-Pyrimidinone	96	C4H4N2O	004562-27-0	25
4	2,4-Dimethylfuran	96	C6H8O	003710-43-8	25
5	1H-Imidazole, 1-ethyl-	96	C5H8N2	007098-07-9	17





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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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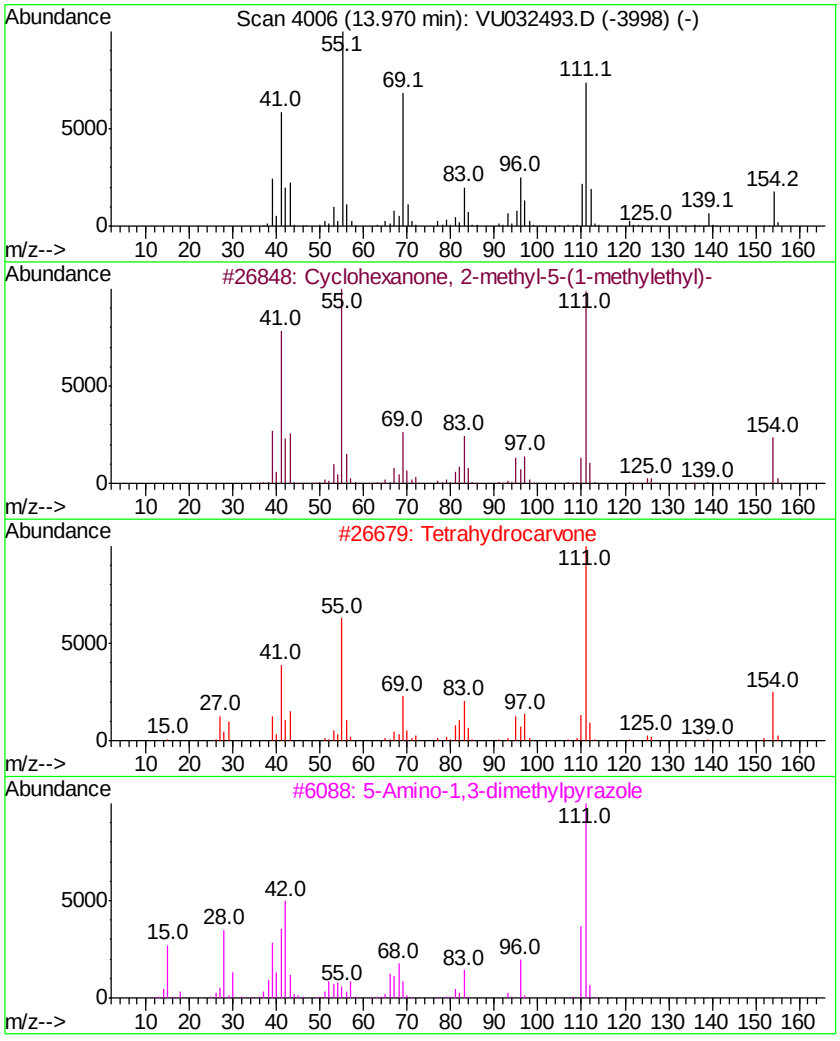
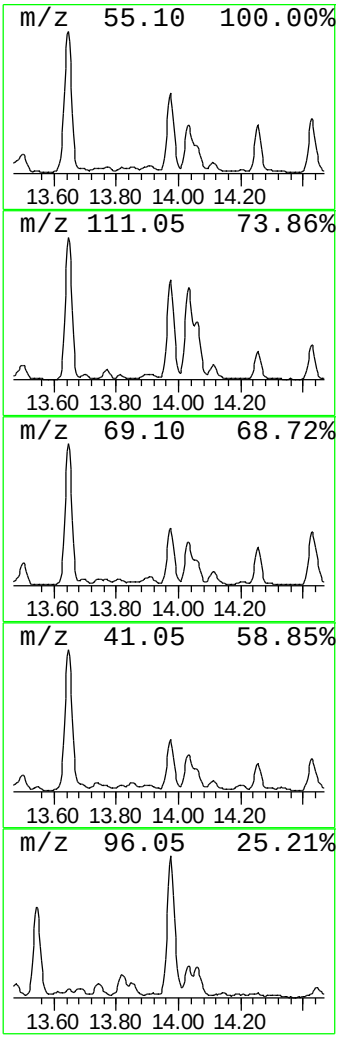
Peak Number 30 Cyclohexanone, 2-methyl-5-(... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	30.31 ug/L	413869	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	92
2	Tetrahydrocarvone	154	C10H18O	000499-70-7	52
3	5-Amino-1,3-dimethylpyrazole	111	C5H9N3	003524-32-1	47
4	2-Pyrazoline, 1-isopropyl-3-methyl-	126	C7H14N2	022581-48-2	43
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

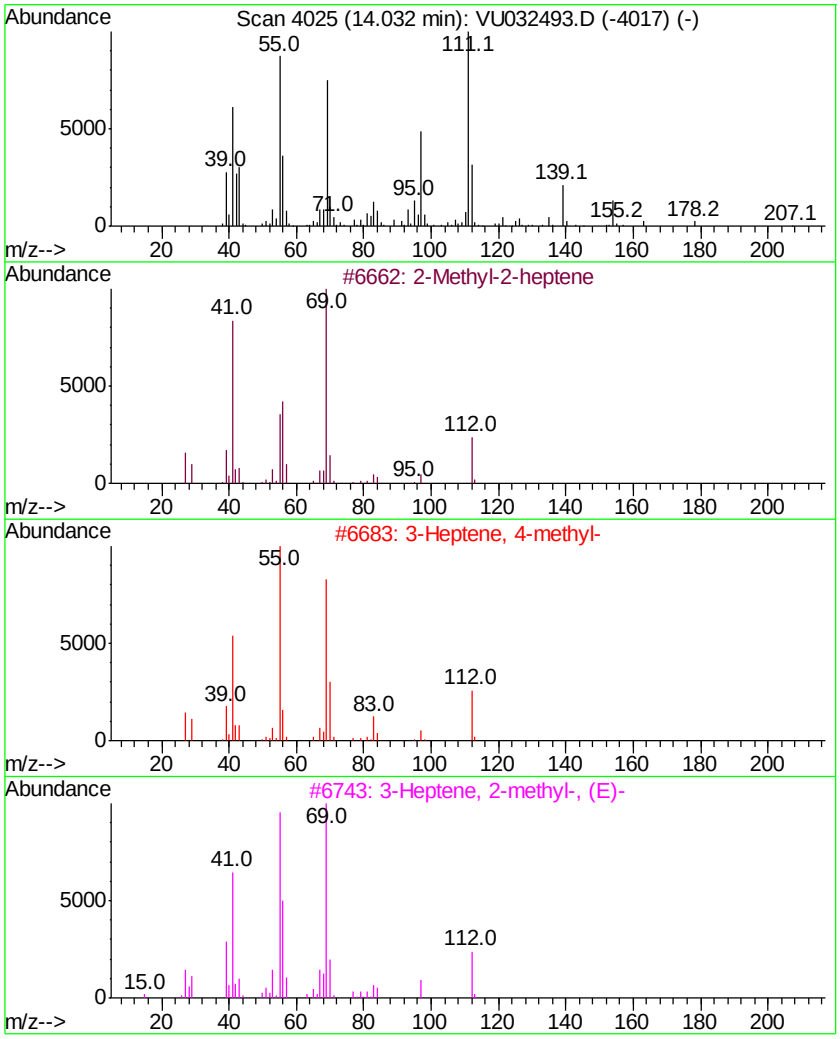
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

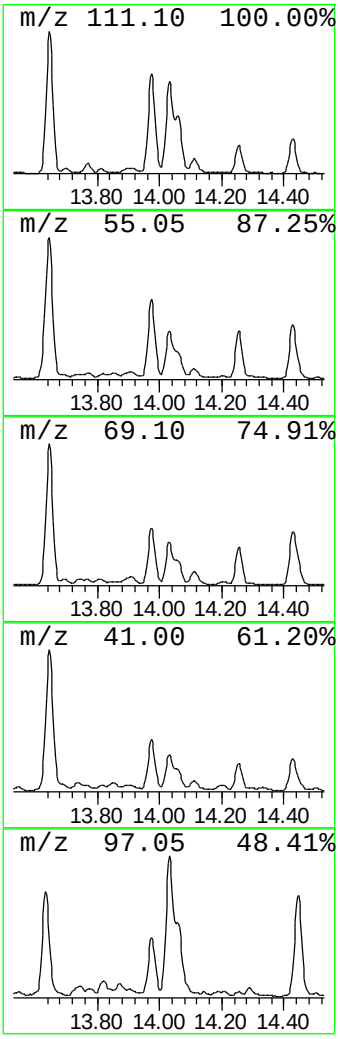
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 31 (DEL) Alkane: Cyclic14.03 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.03	26.15 ug/L	357023	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	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30
3	3-Heptene, 2-methyl-, (E)-	112	C8H16	000692-96-6	27
4	Cyclooctane, ethyl-	140	C10H20	013152-02-8	27
5	2-Octene, (Z)-	112	C8H16	007642-04-8	25





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Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

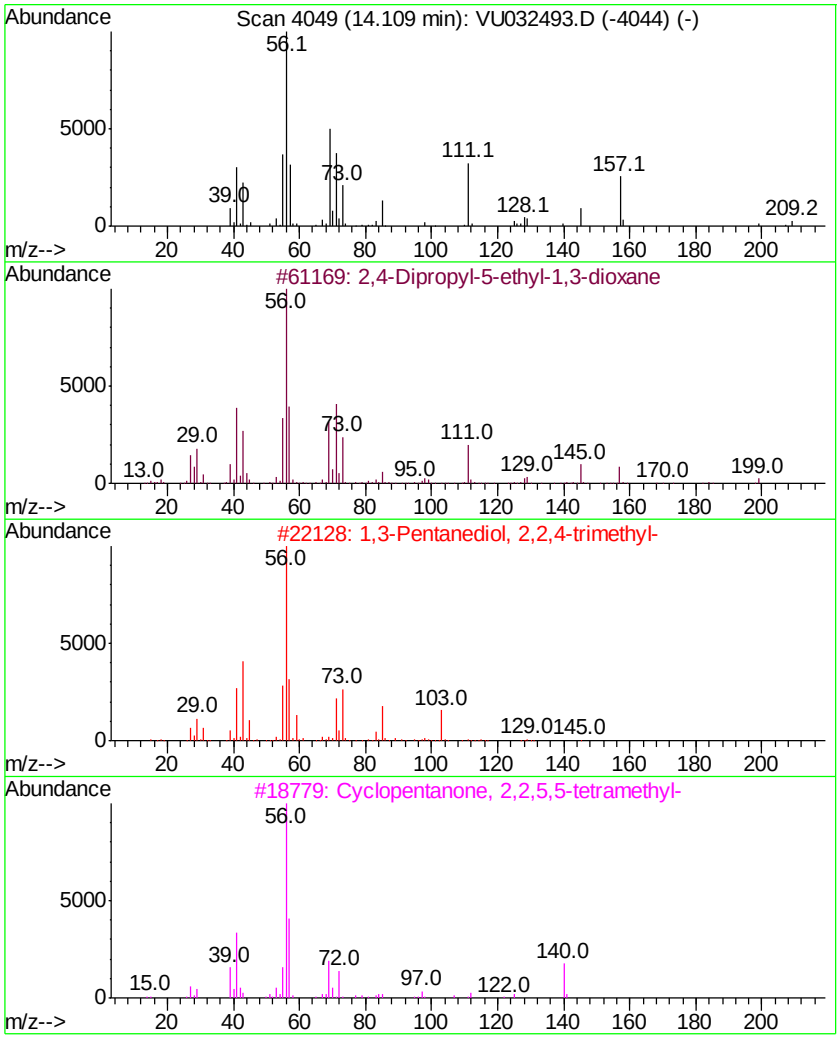
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

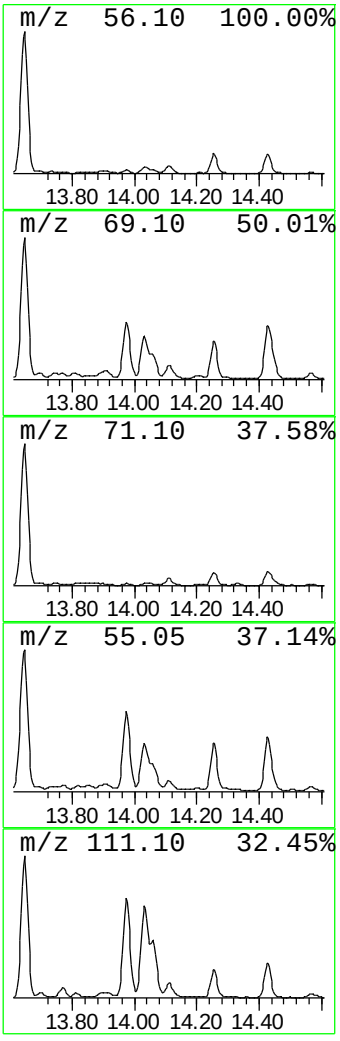
****

Peak Number 32 unknown-14 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	7.46 ug/L	101795	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	37
2	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	28
3	Cyclopentanone, 2,2,5,5-tetramet...	140	C9H16O	004541-35-9	27
4	Cyclohexane, (1,1-dimethylethyl)-	140	C10H20	003178-22-1	27
5	Hexanoic acid, 5-hydroxy-3-methy...	128	C7H12O2	003720-20-5	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

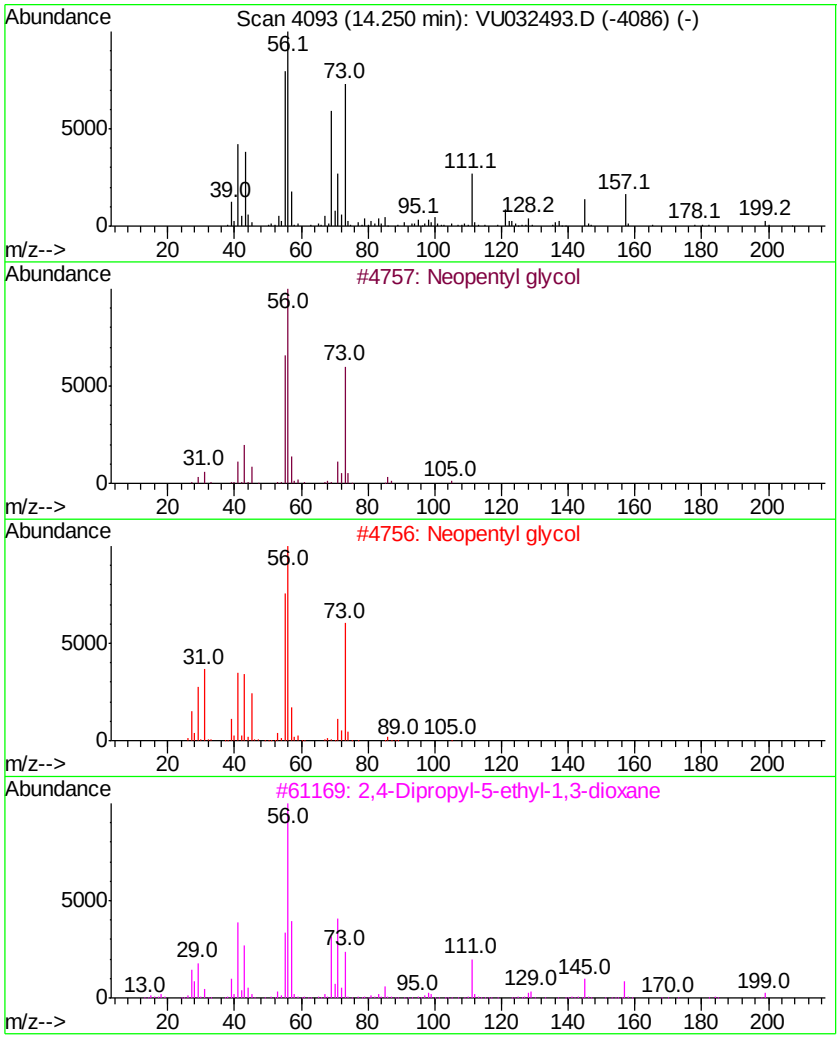
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

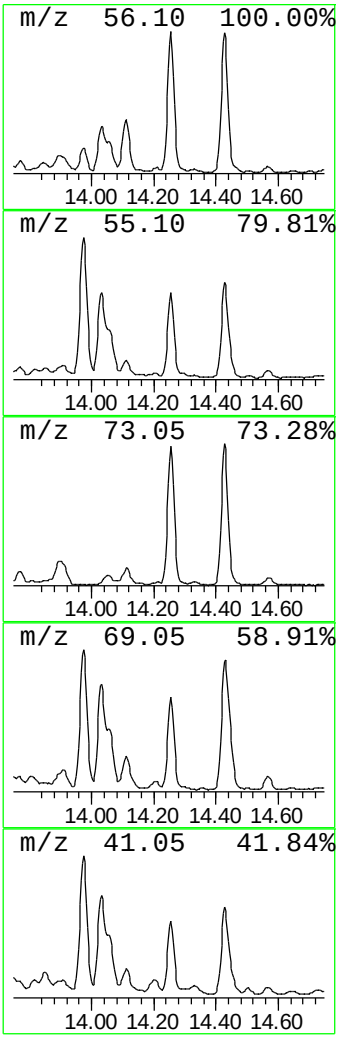
****

Peak Number 33 unknown-15 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	22.04 ug/L	300879	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Neopentyl glycol	104	C5H12O2	000126-30-7	40
2	Neopentyl glycol	104	C5H12O2	000126-30-7	40
3	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	40
4	Pentanal, 3-methyl-	100	C6H12O	015877-57-3	38
5	Heptane, 4-methylene-	112	C8H16	015918-08-8	32





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

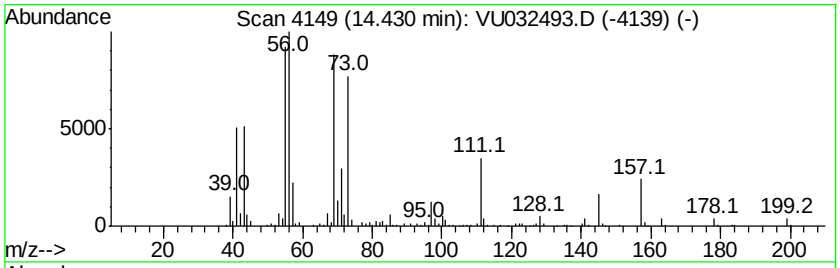
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

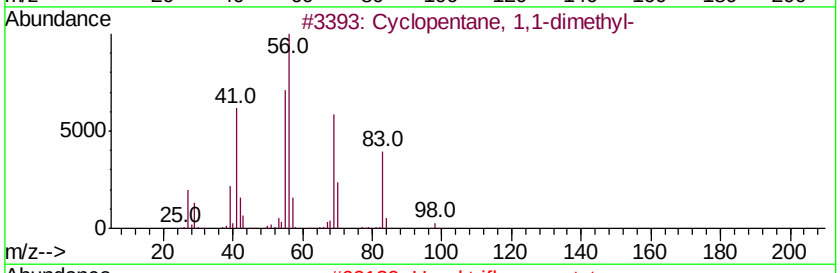
****

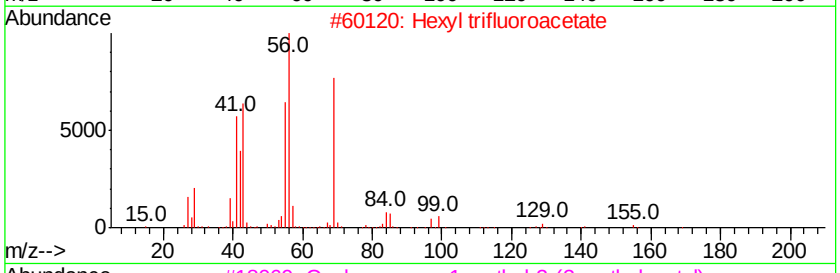
Peak Number 34 (DEL) Alkane: Cyclic14.43 Concentration Rank 12

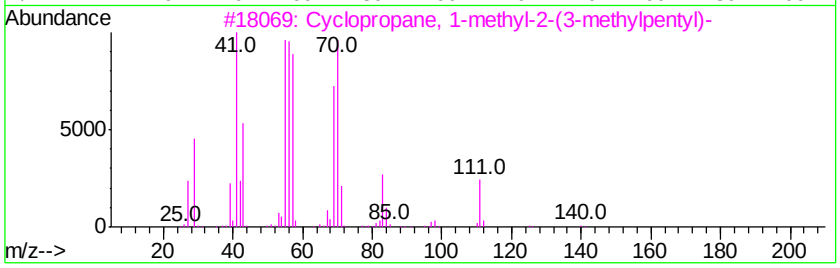
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	32.24 ug/L	440164	1,4-Dichlorobenzene-d4	11.48

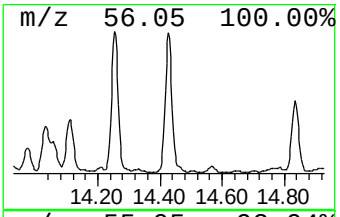
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	52
2	Hexyl trifluoroacetate	198	C8H13F3O2	000400-61-3	50
3	Cyclopropane, 1-methyl-2-(3-meth...	140	C10H20	062238-07-7	45
4	6-Methyl-2-heptanol, trifluoroac...	226	C10H17F3O2	1000365-05-8	42
5	Hexyl trifluoroacetate	198	C8H13F3O2	000400-61-3	40

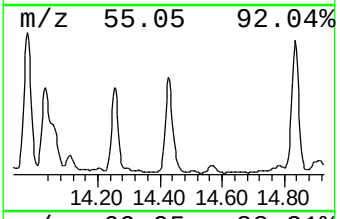


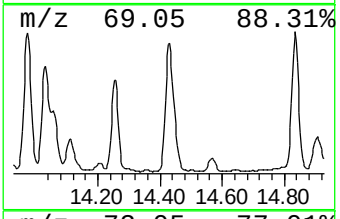


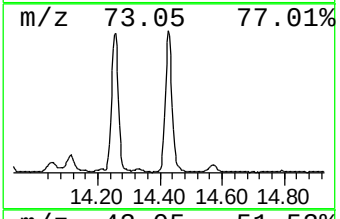


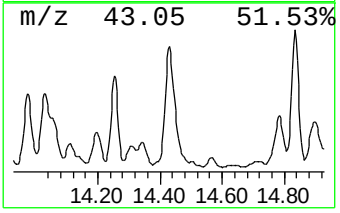












Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

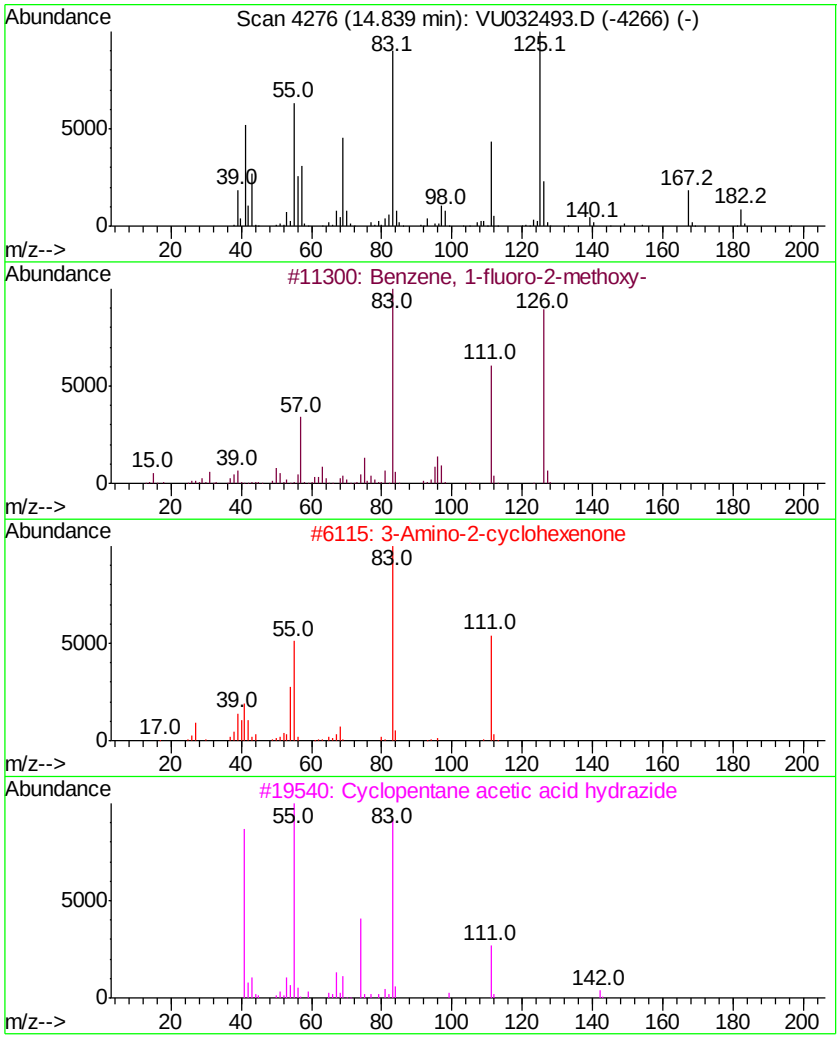
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

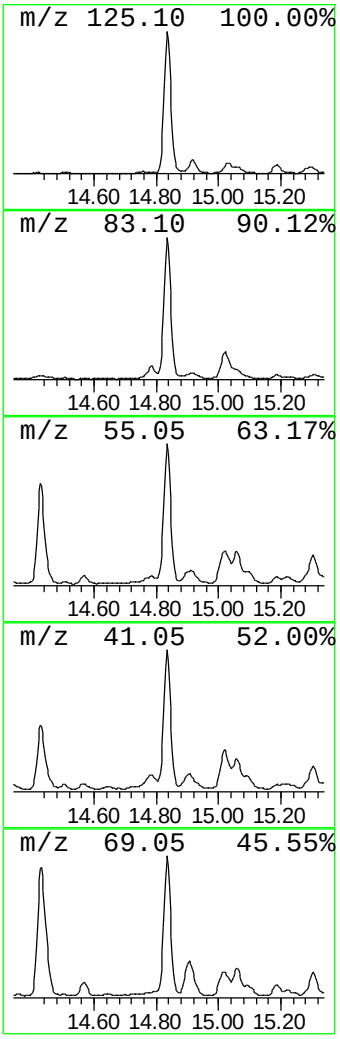
****

Peak Number 35 unknown-16 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	51.21 ug/L	699157	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	3-Amino-2-cyclohexenone	111	C6H9NO	005220-49-5	38
3	Cyclopentane acetic acid hydrazide	142	C7H14N2O	020287-25-6	35
4	t-Butyl cyclohexaneperoxycarboxy...	200	C11H20O3	020396-49-0	35
5	Cyclohexanecarboxylic acid, (1H-...	195	C8H13N5O	1000310-78-1	35





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

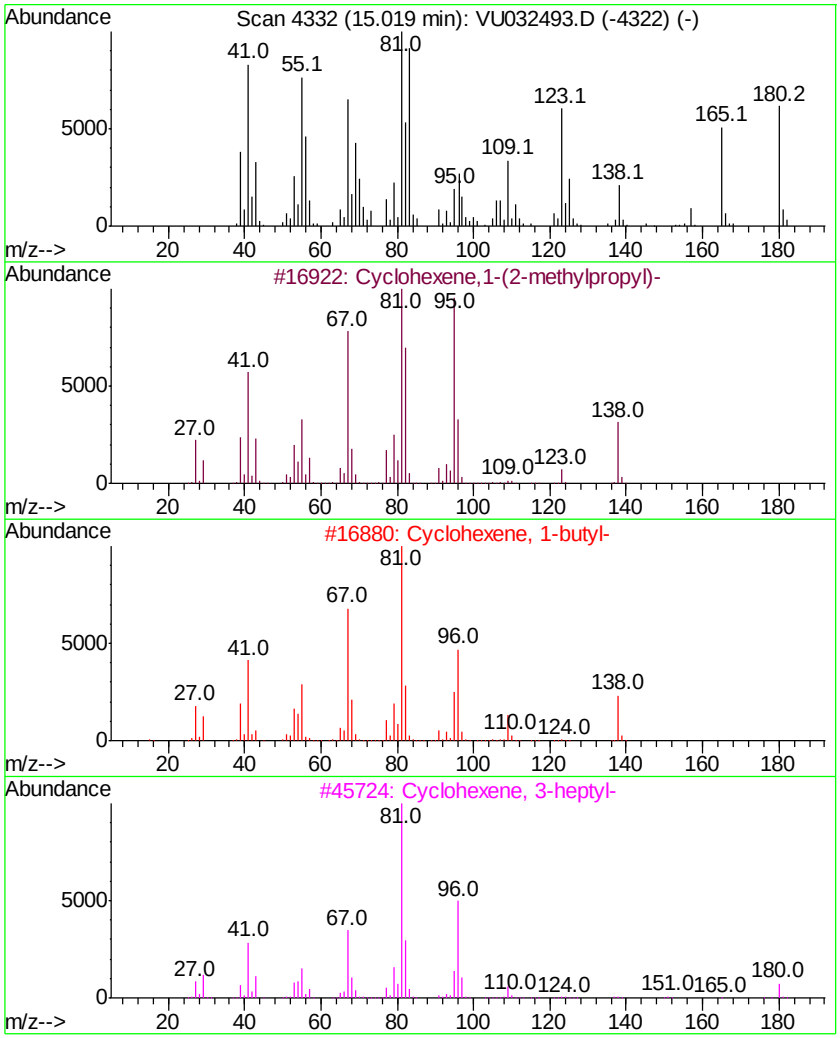
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

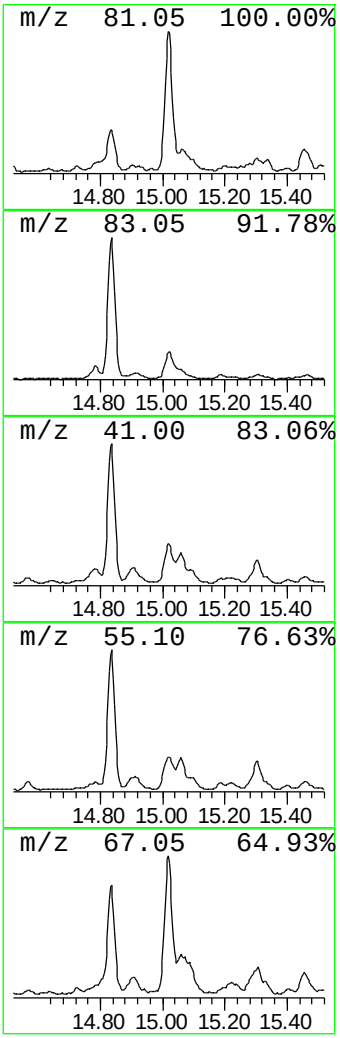
****

Peak Number 36 unknown-17 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	22.23 ug/L	303505	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene,1-(2-methylpropyl)-	138	C10H18	003983-03-7	35
2	Cyclohexene, 1-butyl-	138	C10H18	003282-53-9	30
3	Cyclohexene, 3-heptyl-	180	C13H24	015232-93-6	30
4	Furan, 2-pentyl-	138	C9H14O	003777-69-3	25
5	Cyclohexane, 1,1'-methylenebis-	180	C13H24	003178-23-2	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

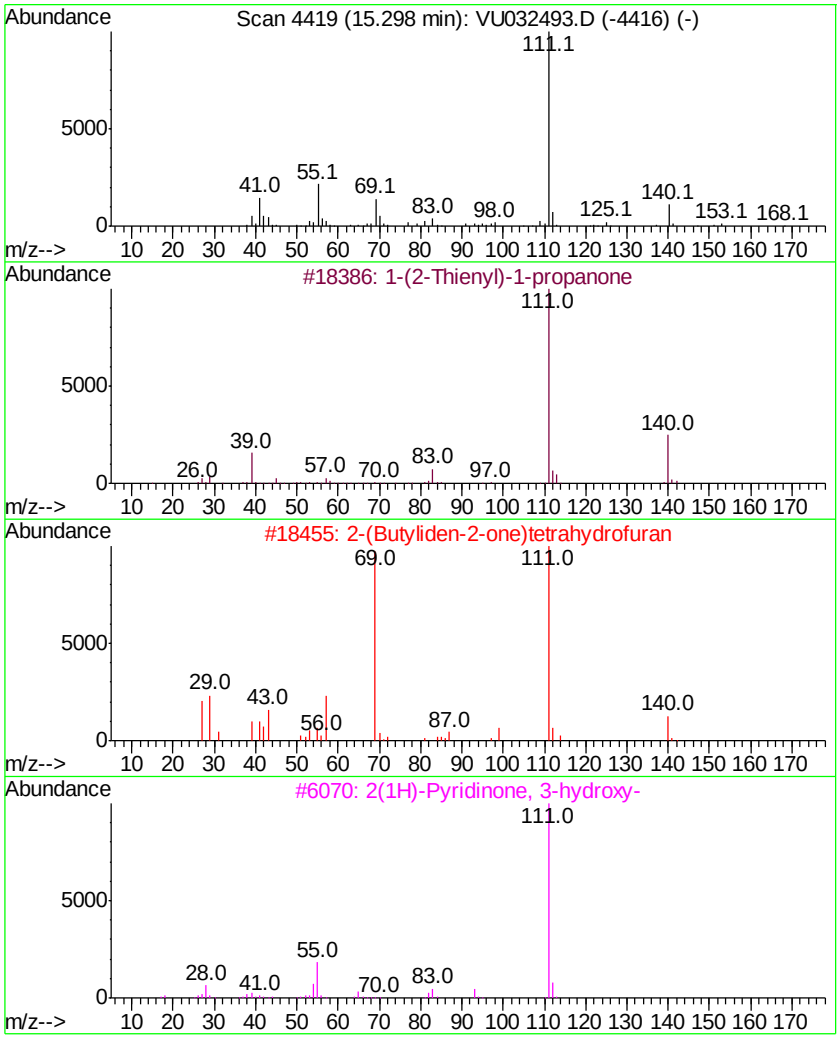
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

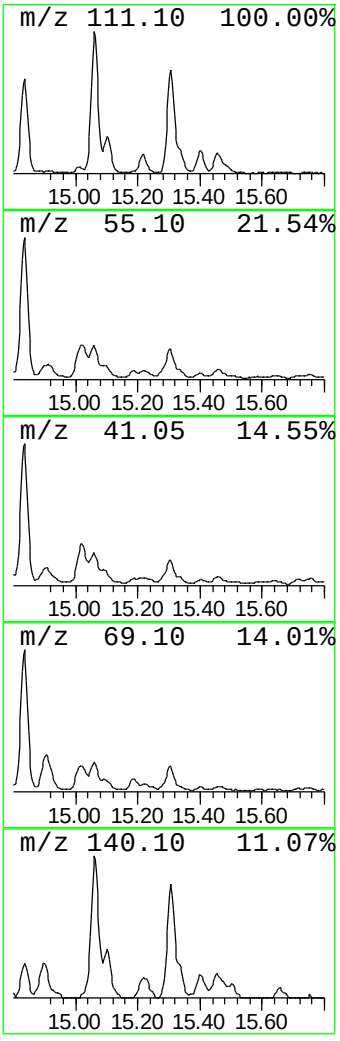
****

Peak Number 37 1-(2-Thienyl)-1-propanone Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	13.86 ug/L	189287	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2-Thienyl)-1-propanone	140	C7H8OS	013679-75-9	72
2	2-(Butyliden-2-one)tetrahydrofuran	140	C8H12O2	343270-50-8	50
3	2(1H)-Pyridinone, 3-hydroxy-	111	C5H5NO2	016867-04-2	42
4	Benzene, 1-chloro-4-(methylsulfo...	190	C7H7ClO2S	000098-57-7	40
5	Isocytosine	111	C4H5N3O	000108-53-2	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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

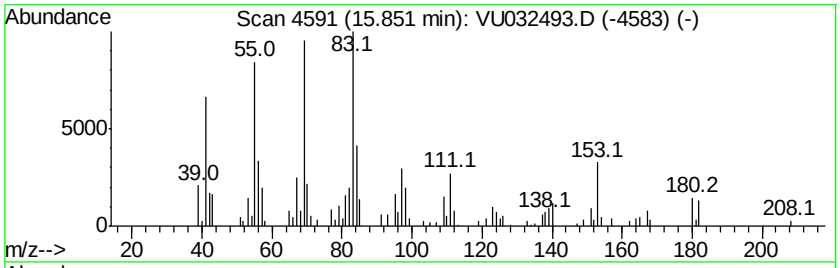
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

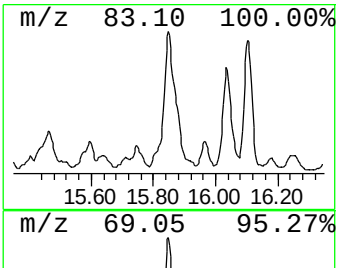
****

Peak Number 38 (DEL) Alkane: Cyclic15.85 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.85	10.22 ug/L	139544	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	2-Decene, 7-methyl-, (Z)-	154	C11H22	074630-23-2	46
3	2,3-Dimethyl-2-octene	140	C10H20	019781-18-1	38
4	Cyclohexane, (1-methylpropyl)-	140	C10H20	007058-01-7	30
5	1-Pentene, 3-ethyl-2-methyl-	112	C8H16	019780-66-6	30





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032493.D
Acq On : 06 Jun 2019 13:44
Operator : JC/SP
Sample : K3213-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8K0

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	5.5	ug/L	53029	1	5.88	483936	50.0
Propanal, 2-methyl-	3.18	12.3	ug/L	118851	1	5.88	483936	50.0
Butanal	3.98	107.9	ug/L	1044120	1	5.88	483936	50.0
n-Butyl ether	9.29	2.6	ug/L	36167	2	9.08	685654	50.0
unknown-01	9.37	66.6	ug/L	913378	2	9.08	685654	50.0
unknown-02	10.64	4.1	ug/L	55631	3	11.48	682628	50.0
unknown-03	10.74	3.1	ug/L	42080	3	11.48	682628	50.0
Oxalic acid, cycl...	10.78	14.0	ug/L	190524	3	11.48	682628	50.0
unknown-04	11.40	21.1	ug/L	288575	3	11.48	682628	50.0
1,1-Hexylenedioxy...	11.53	509.9	ug/L	6961250	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	11.72	36.3	ug/L	495739	3	11.48	682628	50.0
unknown-05	11.92	90.2	ug/L	1231500	3	11.48	682628	50.0
unknown-06	12.12	5.7	ug/L	78063	3	11.48	682628	50.0
unknown-07	12.26	9.2	ug/L	125413	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	12.31	4.0	ug/L	54415	3	11.48	682628	50.0
unknown-08	12.41	22.3	ug/L	304886	3	11.48	682628	50.0
2-Pentenoic acid,...	12.51	35.8	ug/L	488403	3	11.48	682628	50.0
unknown-09	12.62	11.1	ug/L	151887	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	12.69	66.7	ug/L	910449	3	11.48	682628	50.0
unknown-10	12.78	68.1	ug/L	929490	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	13.00	12.4	ug/L	169819	3	11.48	682628	50.0
unknown-11	13.12	11.5	ug/L	156525	3	11.48	682628	50.0
2,4-Dipropyl-5-et...	13.17	12.3	ug/L	168344	3	11.48	682628	50.0
1-Propanone, 1-cy...	13.34	19.3	ug/L	263658	3	11.48	682628	50.0
unknown-12	13.41	33.5	ug/L	457093	3	11.48	682628	50.0
unknown-13	13.54	3.7	ug/L	51113	3	11.48	682628	50.0
Cyclohexanone, 2-...	13.97	30.3	ug/L	413869	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	14.03	26.1	ug/L	357023	3	11.48	682628	50.0
unknown-14	14.11	7.5	ug/L	101795	3	11.48	682628	50.0
unknown-15	14.25	22.0	ug/L	300879	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	14.43	32.2	ug/L	440164	3	11.48	682628	50.0
unknown-16	14.84	51.2	ug/L	699157	3	11.48	682628	50.0
unknown-17	15.02	22.2	ug/L	303505	3	11.48	682628	50.0
1-(2-Thienyl)-1-p...	15.30	13.9	ug/L	189287	3	11.48	682628	50.0
(DEL) Alkane: Cyc...	15.85	10.2	ug/L	139544	3	11.48	682628	50.0