LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

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\SOMULM032319WMA.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	1.174	21	26	36	rVB2	16663	18277	0.39%	0.024%
2	1.392	87	94	107	rVB	214566	238461	5.03%	0.312%
3	1.579	132	152	153	rBV	50580	109892	2.32%	0.144%
4	1.637	165	170	182	rVB	167356	195481	4.12%	0.256%
5	2.241	347	358	372	rVB	412312	625856	13.21%	0.819%
6	2.518	442	444	453	rVB5	1446	1867	0.04%	0.002%
7	2.691	487	498	508	rVB5	4454	8634	0.18%	0.011%
8	3.276	676	680	688	rVV5	1613	1904	0.04%	0.002%
9	4.189	948	964	1001	rBV2	132737	446016	9.41%	0.583%
10	4.640	1086	1104	1130	rBV	258876	657296	13.87%	0.860%
11	4.897	1178	1184	1191	rVB9	1216	2051	0.04%	0.003%
12	4.987	1209	1212	1220	rVB6	2088	2283	0.05%	0.003%
13	5.328	1293	1318	1344	rBV2	613064	1747544	36.87%	2.286%
14	5.614	1396	1407	1410	rBV7	3917	6367	0.13%	0.008%
15	5.881	1475	1490	1516	rBV2	590894	1242085	26.21%	1.624%
16	6.173	1575	1581	1583	rBV5	1772	1719	0.04%	0.002%
17	6.250	1596	1605	1613	rBV5	4642	8903	0.19%	0.012%
18	6.324	1613	1628	1648	rBV	373457	790593	16.68%	1.034%
19	6.456	1664	1669	1672	rBV7	2329	2747	0.06%	0.004%
20	6.521	1683	1689	1699	rVB6	4578	6171	0.13%	0.008%
21	6.726	1745	1753	1762	rVB8	5387	9359	0.20%	0.012%
22	6.894	1794	1805	1823	rBV10	9330	23690	0.50%	0.031%
23	7.035	1843	1849	1859	rVB9	2963	4670	0.10%	0.006%
24	7.099	1859	1869	1875	rBV6	4799	8096	0.17%	0.011%
25	7.135	1875	1880	1883	rBV3	1578	1704	0.04%	0.002%
26	7.225	1896	1908	1924	rBV	204210	408537	8.62%	0.534%
27	7.427	1961	1971	1973	rBV6	3352	5266	0.11%	0.007%
28	7.524	1988	2001	2002	rBV3	44927	60452	1.28%	0.079%
29	7.559	2002	2012	2040	rVB	772548	1407706	29.70%	1.841%
30	7.697	2049	2055	2067	rVB6	12209	21384	0.45%	0.028%
31	7.849	2091	2102	2113	rBV2	144057	267791	5.65%	0.350%
32	7.910	2114	2121	2137	rVB4	60153	114611	2.42%	0.150%
33	8.041	2149	2162	2172	rBV4	27168	50324	1.06%	0.066%
34	8.103	2173	2181	2184	rBV7	6393	9655	0.20%	0.013%

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Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

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

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Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Title : VOC Analysis

35	8.154	2192	2197	2207	rVB4	15054	25571	0.54%	0.033%
36	8.221	2207	2218	2230	rVB3	22789	41180	0.87%	0.054%
37	8.318	2230	2248	2274	rBV2	638041	1233352	26.02%	1.613%
38	8.450	2280	2289	2294	rBV	70270	122230	2.58%	0.160%
39	8.540	2307	2317	2326	rVB2	94883	161285	3.40%	0.211%
40	8.601	2326	2336	2345	rBV	184390	330684	6.98%	0.432%
41	8.752	2374	2383	2392	rBV2	42762	76062	1.60%	0.099%
42	8.810	2392	2401	2404	rVV2	72520	106077	2.24%	0.139%
43	8.842	2405	2411	2437	rVB4	181060	402582	8.49%	0.527%
44	8.971	2443	2451	2459	rBV9	7204	12606	0.27%	0.016%
45	9.022	2459	2467	2475	rBV6	17442	34584	0.73%	0.045%
46	9.086	2476	2487	2505	rBV	921665	1609021	33.95%	2.104%
47	9.241	2525	2535	2548	rBV5	93702	188392	3.97%	0.246%
48	9.350	2549	2569	2575	rBV3	188671	413860	8.73%	0.541%
49	9.398	2576	2584	2591	rVV	387511	618345	13.05%	0.809%
50	9.440	2591	2597	2623	rVB2	263739	574730	12.13%	0.752%
51	9.562	2623	2635	2648	rBV2	137767	262534	5.54%	0.343%
52	9.649	2652	2662	2667	rBV4	67301	116327	2.45%	0.152%
53	9.713	2668	2682	2700	rBV6	515564	1338060	28.23%	1.750%
54	9.810	2701	2712	2720	rBV6	138412	250621	5.29%	0.328%
55	9.865	2724	2729	2736	rVB2	148552	193659	4.09%	0.253%
56	9.948	2736	2755	2764	rBV3	1125461	2265558	47.80%	2.963%
57	10.038	2764	2783	2792	rBV2	1172358	2382968	50.28%	3.117%
58	10.083	2793	2797	2809	rVB4	381351	584243	12.33%	0.764%
59	10.151	2811	2818	2829	rVB6	216939	411481	8.68%	0.538%
60	10.218	2829	2839	2845	rBV4	336550	635927	13.42%	0.832%
61	10.373	2878	2887	2894	rBV5	273117	446639	9.42%	0.584%
62	10.430	2894	2905	2913	rBV	654906	1285600	27.13%	1.681%
63	10.485	2914	2922	2932	rVB5	749269	1300911	27.45%	1.701%
64	10.636	2958	2969	2978	rBV3	426751	951202	20.07%	1.244%
65	10.694	2980	2987	2996	rVV4	538275	946796	19.98%	1.238%
66	10.749	2996	3004	3013	rVV2	981760	1555285	32.82%	2.034%
67	10.807	3013	3022	3032	rVB6	629681	1189368	25.10%	1.556%
68	10.967	3065	3072	3076	rBV2	281146	447221	9.44%	0.585%
69	11.112	3111	3117	3120	rBV4	179884	243224	5.13%	0.318%
70	11.270	3154	3166	3172	rBV4	643655	1291159	27.24%	1.689%
71	11.392	3196	3204	3212	rBV	1211197	1778524	37.53%	2.326%

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ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

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\SOMULM032319WMA.M
Title : VOC Analysis

72	11.482	3224	3232	3240	rBV	1067524	1649958	34.81%	2.158%
73	11.662	3282	3288	3296	rVB4	431499	613264	12.94%	0.802%
74	11.781	3316	3325	3338	rBV4	336709	846066	17.85%	1.107%
75	11.855	3339	3348	3367	rVB3	2198855	4443740	93.76%	5.812%
76	12.009	3392	3396	3405	rVB2	486619	665778	14.05%	0.871%
77	12.064	3408	3413	3432	rVB6	819132	2082217	43.93%	2.723%
78	12.180	3439	3449	3457	rBV6	885579	1705975	36.00%	2.231%
79	12.356	3498	3504	3510	rBV4	294730	456229	9.63%	0.597%
80	12.507	3538	3551	3571	rVB5	1959968	4739432	100.00%	6.198%
81	12.607	3572	3582	3589	rBV2	2241151	3862089	81.49%	5.051%
82	12.720	3608	3617	3629	rBV3	1510238	2597772	54.81%	3.397%
83	12.781	3630	3636	3657	rVB7	720374	1537141	32.43%	2.010%
84	12.877	3659	3666	3678	rBV4	675351	1287673	27.17%	1.684%
85	13.125	3735	3743	3747	rBV6	1022849	1739079	36.69%	2.274%
86	13.408	3824	3831	3838	rVB3	734090	1034897	21.84%	1.353%
87	13.504	3855	3861	3869	rBV2	548077	845807	17.85%	1.106%
88	13.726	3921	3930	3940	rVB3	2076569	3561281	75.14%	4.658%
89	13.787	3941	3949	3958	rBV4	1139792	1973052	41.63%	2.580%
90	13.880	3972	3978	3990	rBV	1090731	1505029	31.76%	1.968%
91	14.749	4244	4248	4261	rVB5	440426	674261	14.23%	0.882%
92	14.893	4288	4293	4297	rBV2	397642	451281	9.52%	0.590%
93	15.658	4525	4531	4541	rVB4	471392	711482	15.01%	0.931%
94	15.848	4584	4590	4598	rVB2	485961	704482	14.86%	0.921%
95	16.057	4648	4655	4661	rBV	464799	633644	13.37%	0.829%
96	16.099	4663	4668	4684	rVB9	328991	695066	14.67%	0.909%
97	16.765	4870	4875	4888	rVB	196382	341851	7.21%	0.447%
98	16.970	4933	4939	4946	rVB2	213040	277172	5.85%	0.362%
99	17.163	4994	4999	5009	rVB2	145949	205328	4.33%	0.269%
100	17.228	5011	5019	5027	rBV3	166070	285626	6.03%	0.374%

Sum of corrected areas: 76461932

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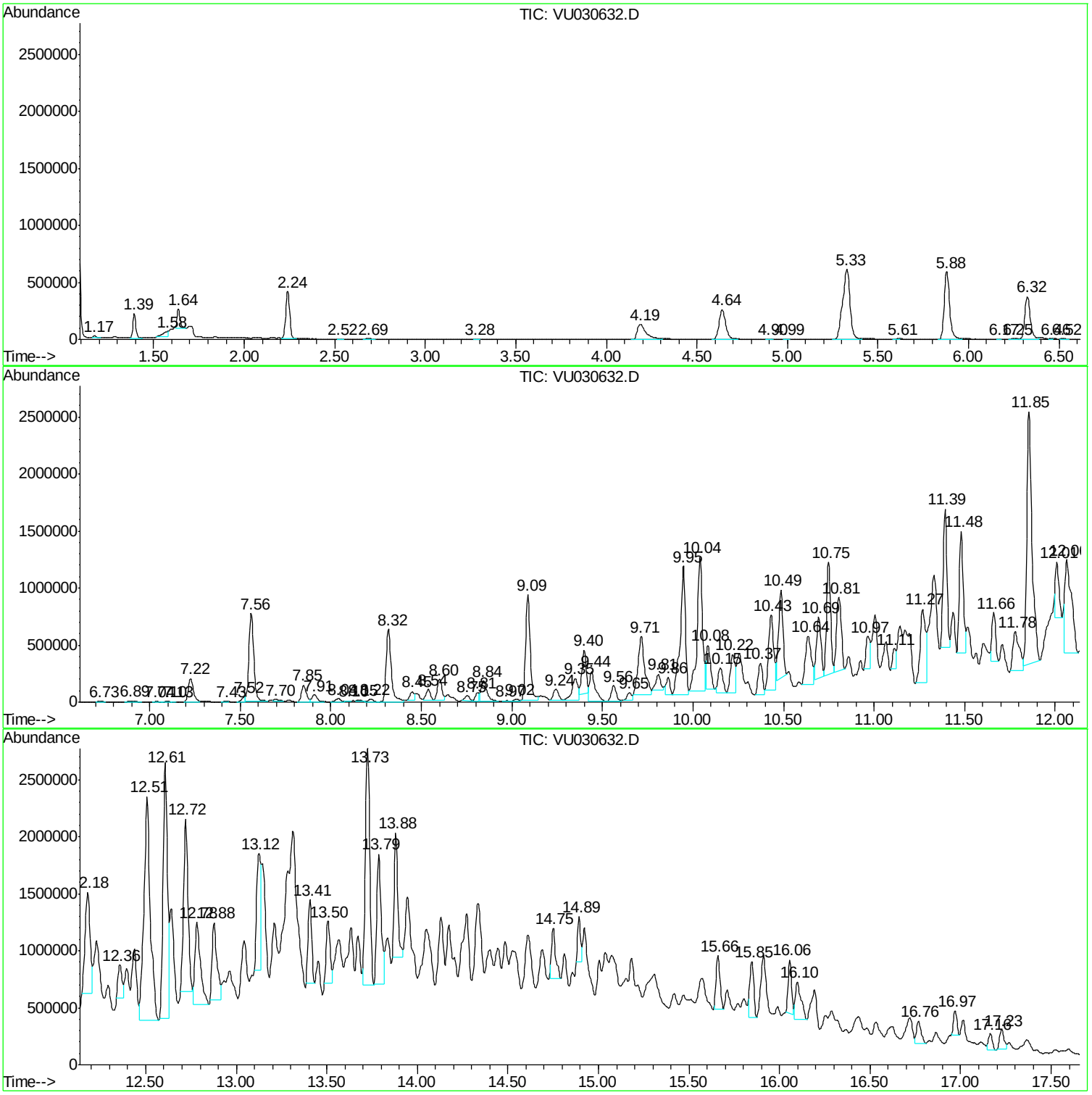
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
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Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

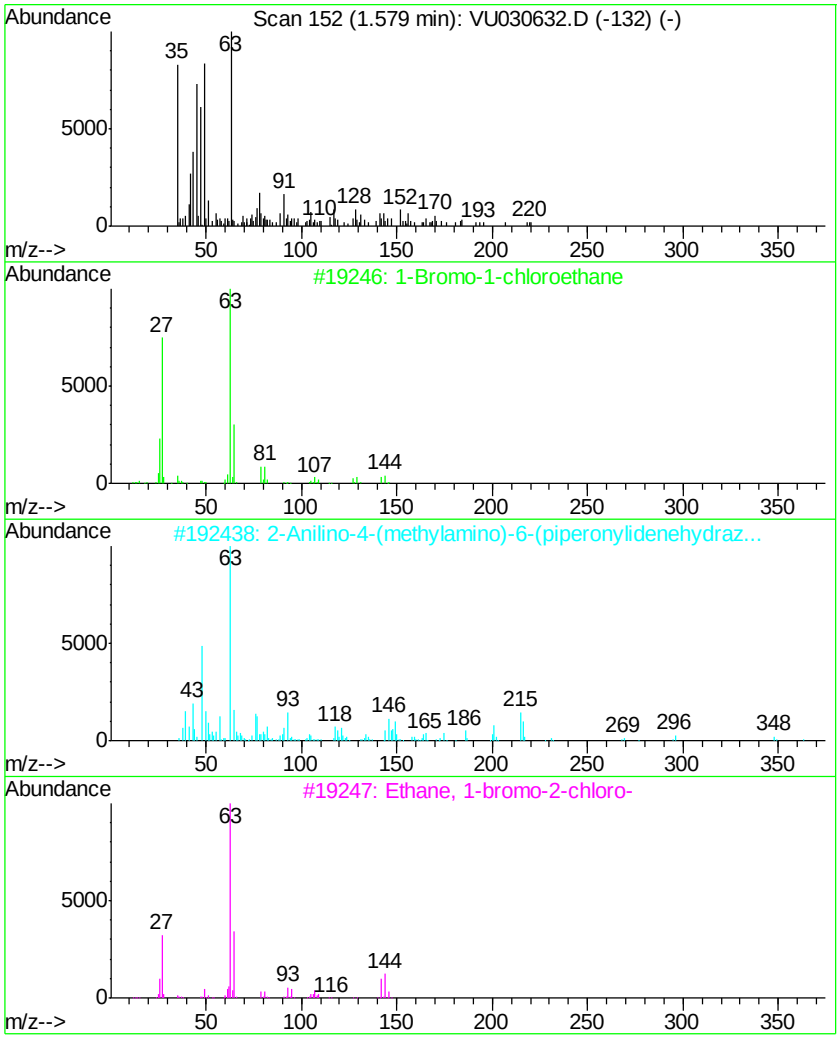
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

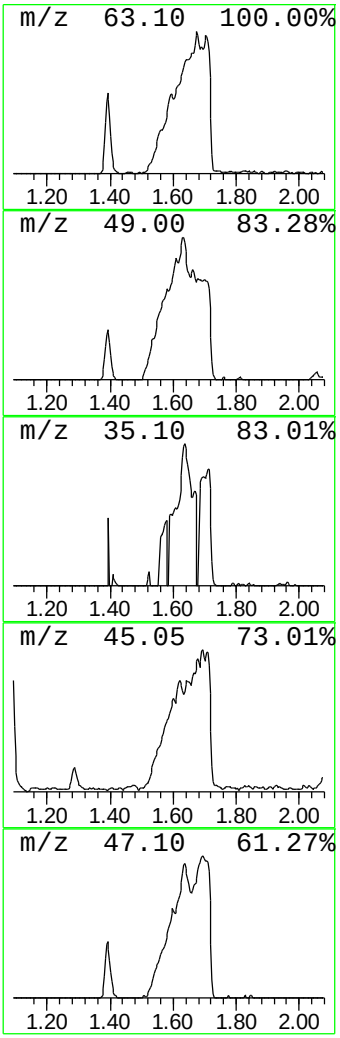
****

Peak Number 1 unknown-01 Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.58	4.42 ug/L	109892	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Bromo-1-chloroethane	142	C2H4BrCl	000593-96-4	14
2	2-Anilino-4-(methylamino)-6-(pip...	363	C18H17N7O2	1000225-97-3	12
3	Ethane, 1-bromo-2-chloro-	142	C2H4BrCl	000107-04-0	10
4	Ethane, 1-bromo-2-chloro-	142	C2H4BrCl	000107-04-0	10
5	Phosgene	98	CCl2O	000075-44-5	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
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ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

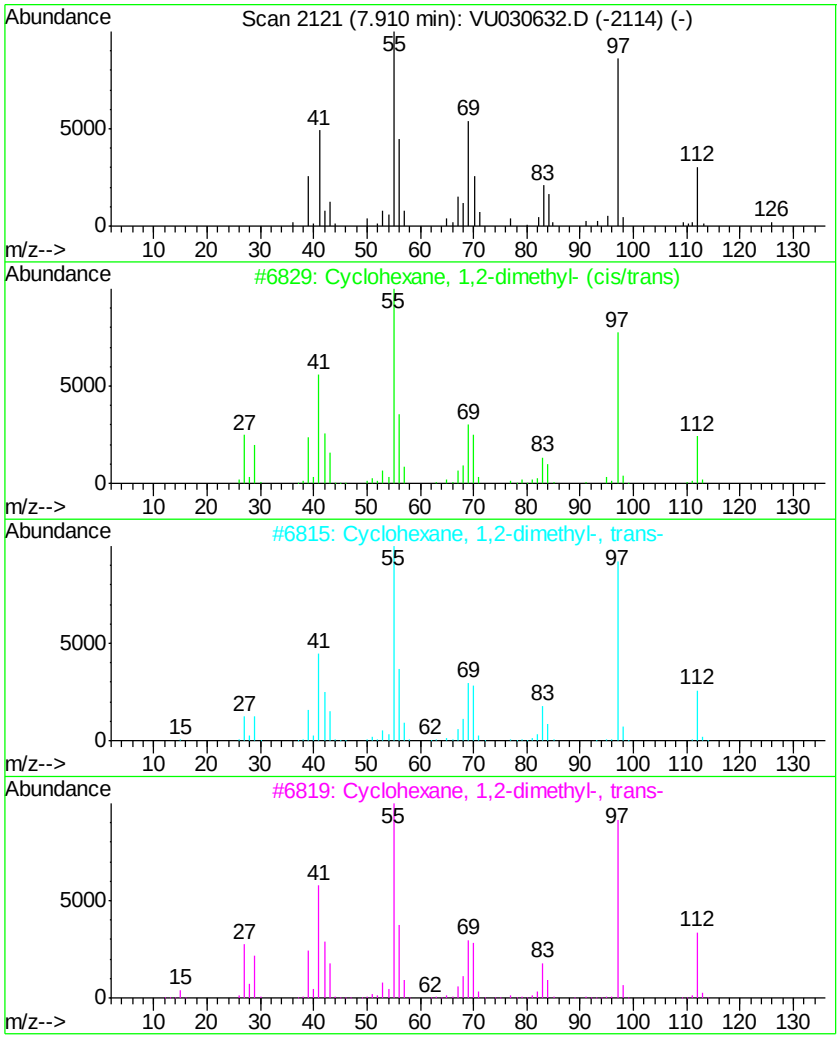
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

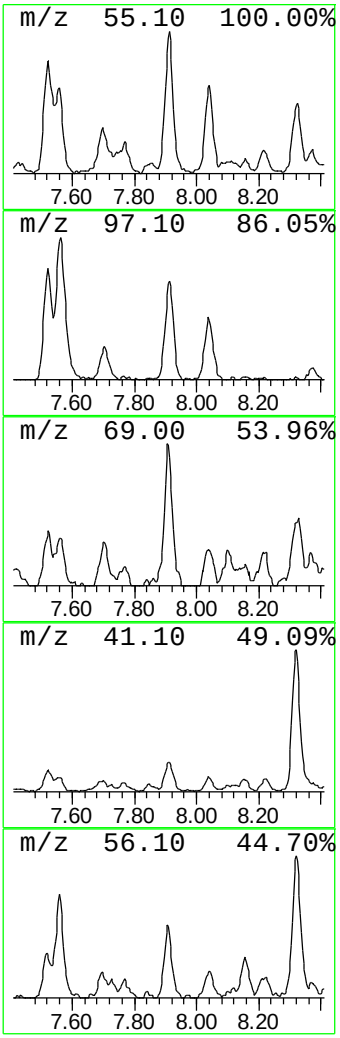
****

Peak Number 3 (DEL) Alkane: Cyclic7.91 Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	3.56 ug/L	114611	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	90
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	90
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	90
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	87
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	72





Library Search Compound Report

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ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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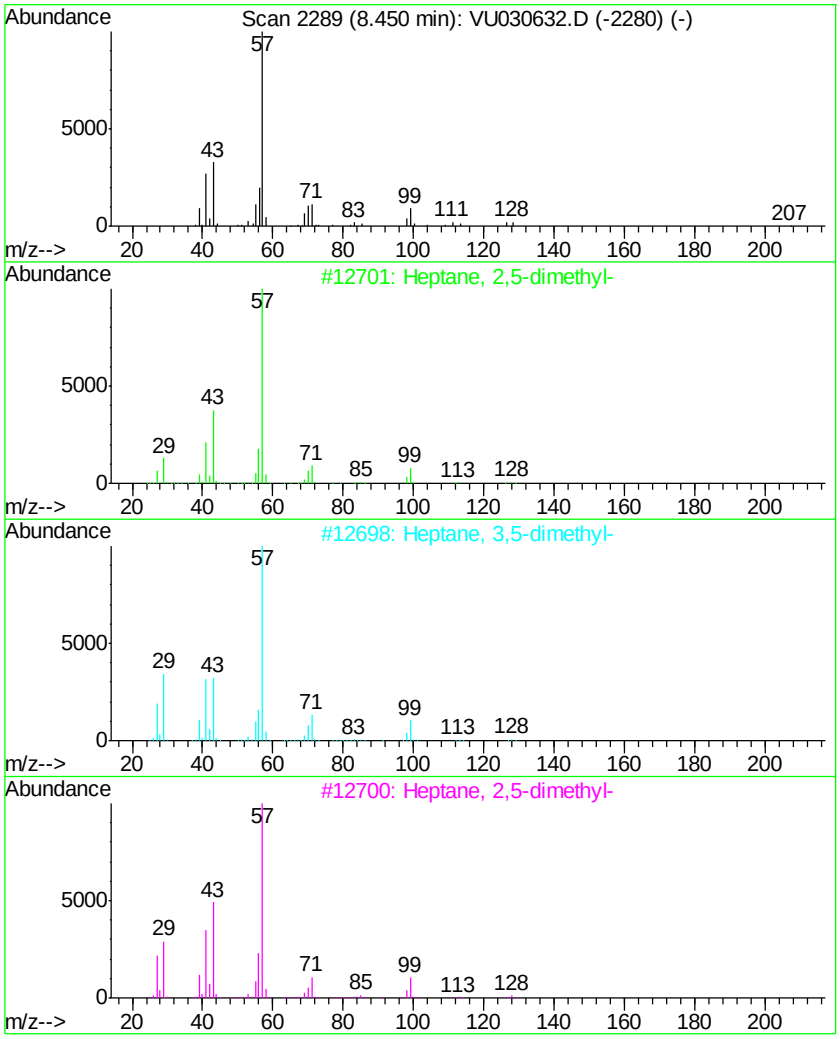
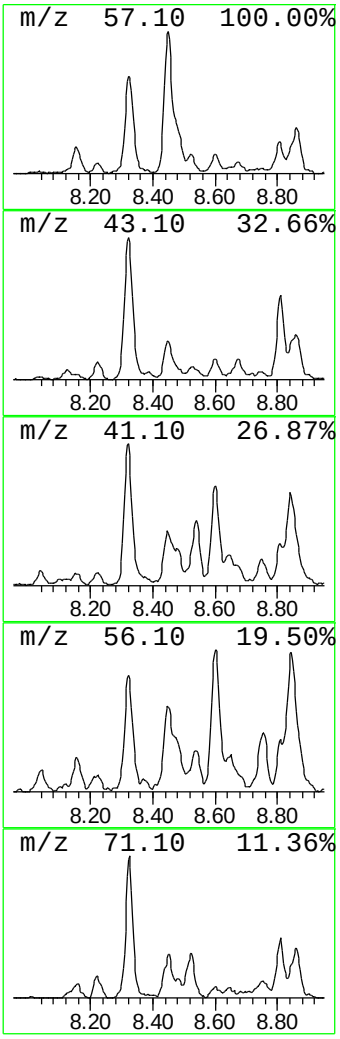
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.45	3.80 ug/L	122230	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72
2	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	72
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72
4	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	68
5	Octane, 3-methyl-	128	C9H20	002216-33-3	68





Library Search Compound Report

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ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

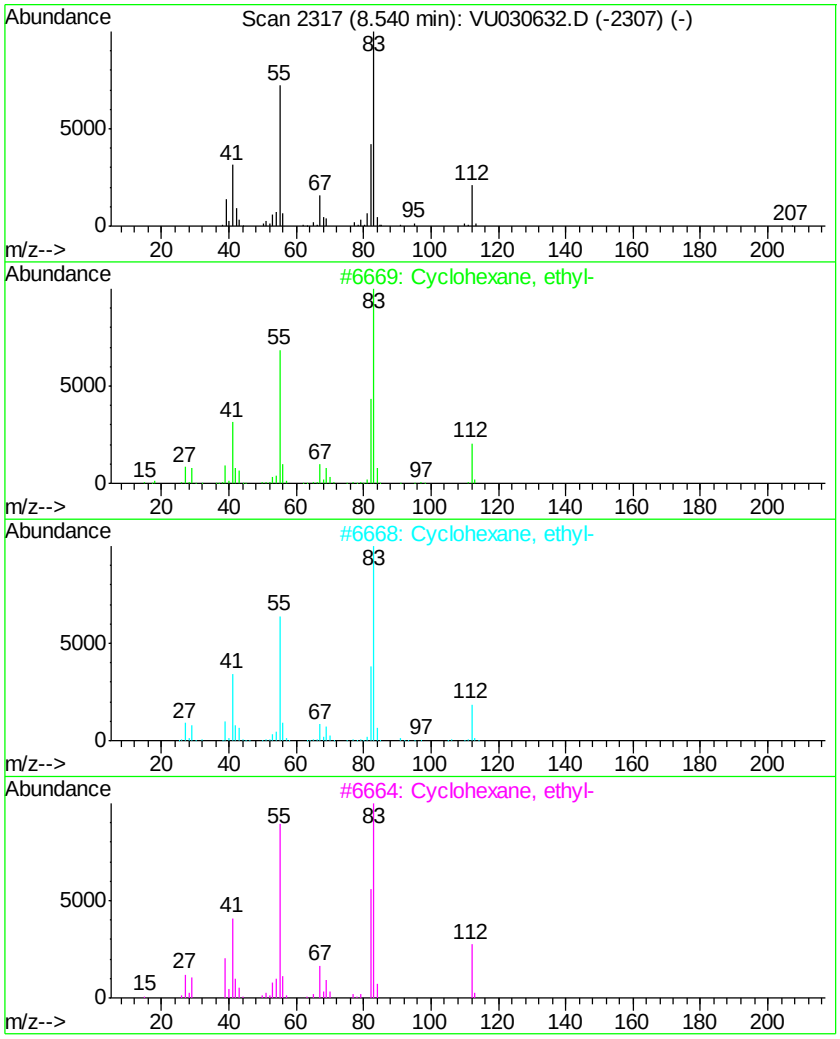
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

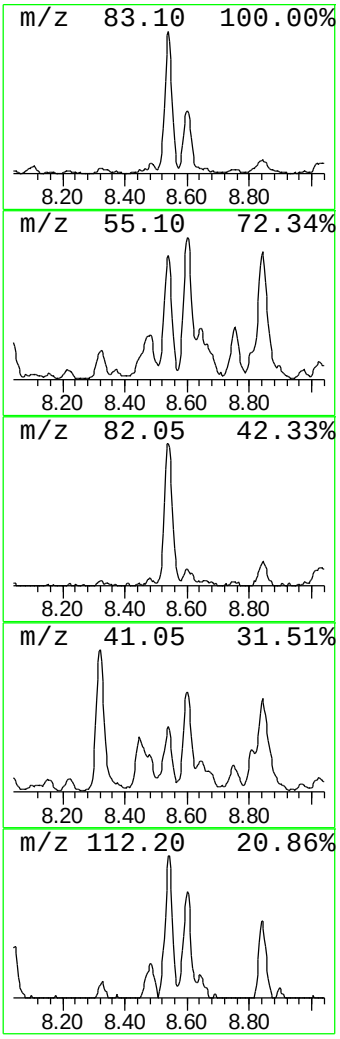
****

Peak Number 5 (DEL) Alkane: Cyclic8.54 Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	5.01 ug/L	161285	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	90
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	90
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	86
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	83
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	80





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
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Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

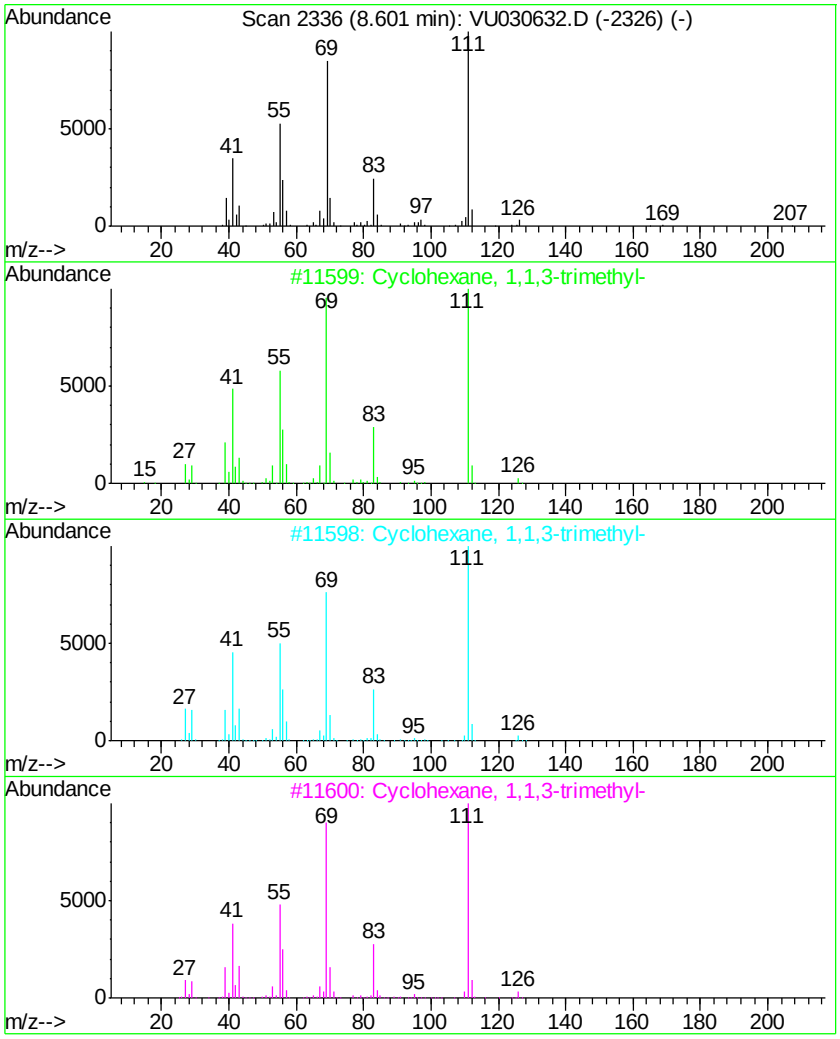
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

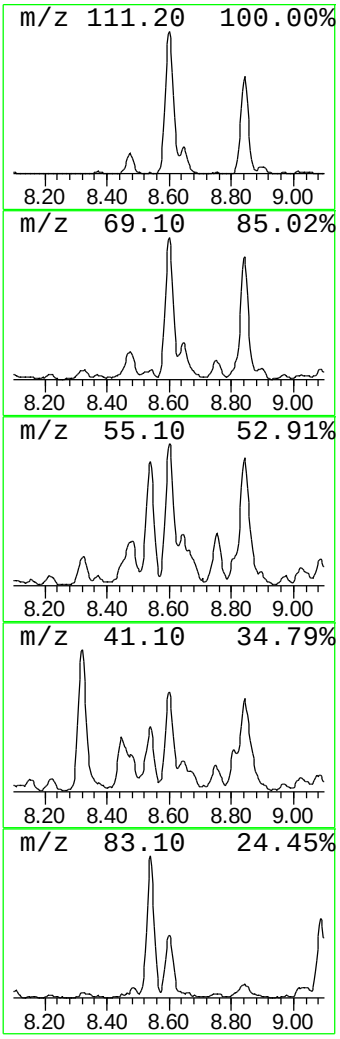
****

Peak Number 6 (DEL) Alkane: Cyclic8.60 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	10.28 ug/L	330684	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	95
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	95
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	95
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	95
5	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	80





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

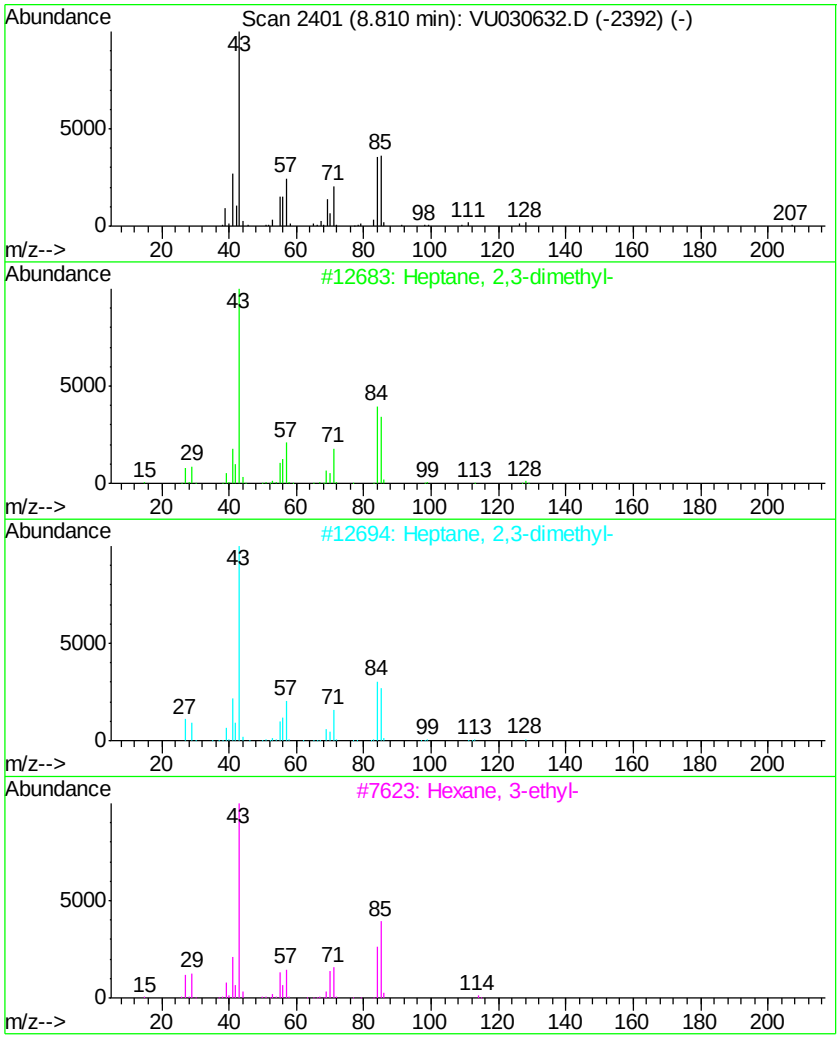
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

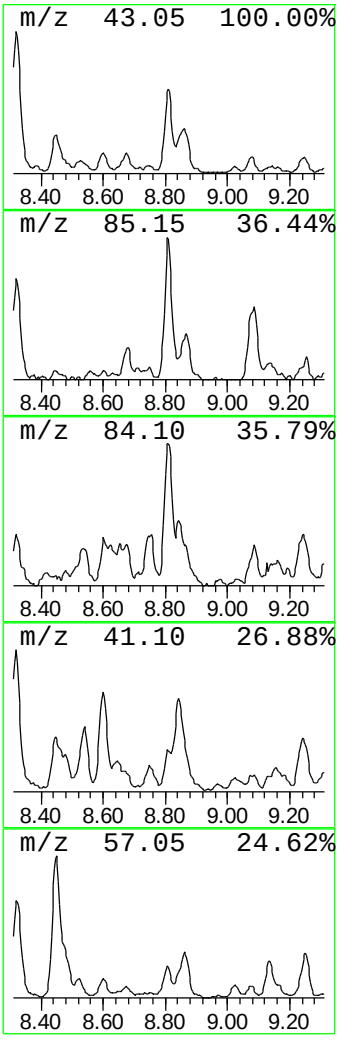
****

Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.81	3.30 ug/L	106077	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	90
2	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	86
3	Hexane, 3-ethyl-	114	C8H18	000619-99-8	78
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	78
5	Decane, 5,6-dimethyl-	170	C12H26	001636-43-7	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

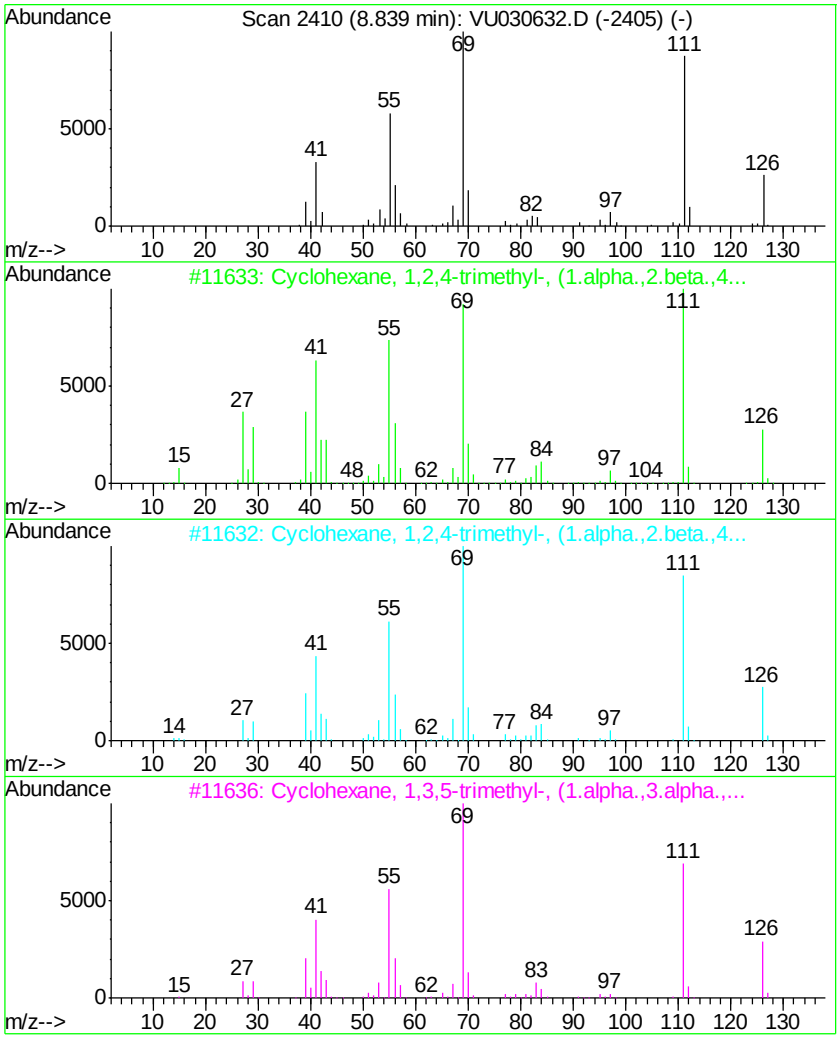
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

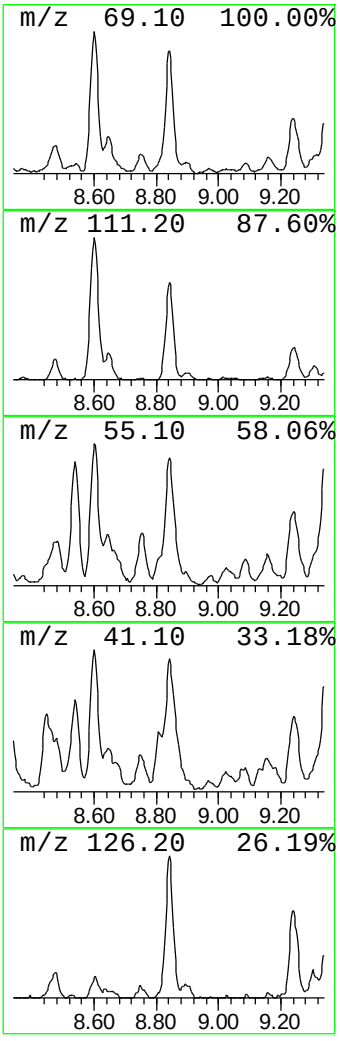
****

Peak Number 8 (DEL) Alkane: Cyclic8.84 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.84	12.51 ug/L	402582	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	91
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	91
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	91
4	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	87
5	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	81





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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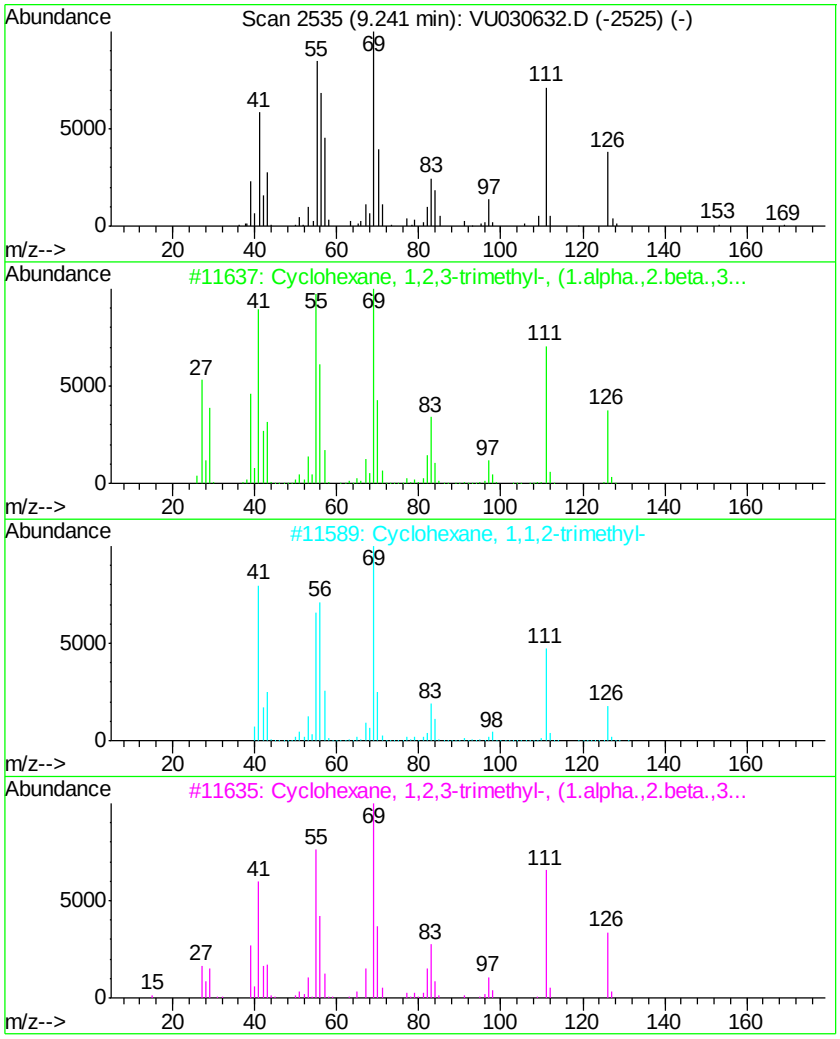
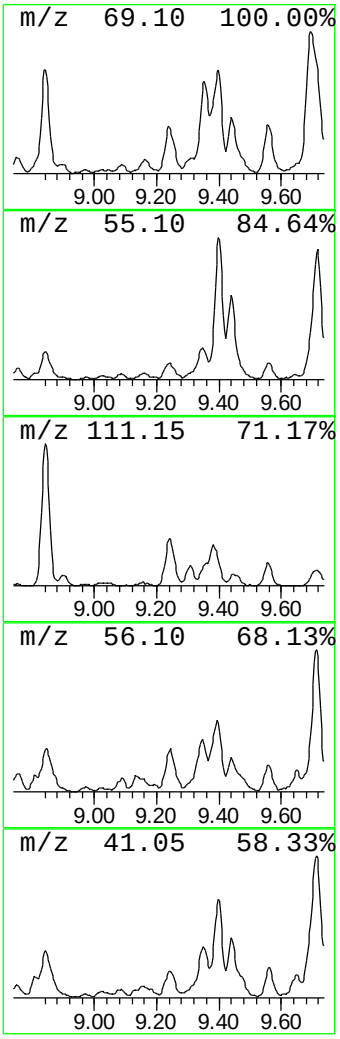
Peak Number 9 (DEL) Alkane: Cyclic9.24 Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	5.85 ug/L	188392	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	001678-81-5	90
2	Cyclohexane, 1,1,2-trimethyl-	126	C9H18	007094-26-0	87
3	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	001678-81-5	87
4	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	76
5	3-Heptene, 2,6-dimethyl-	126	C9H18	002738-18-3	74





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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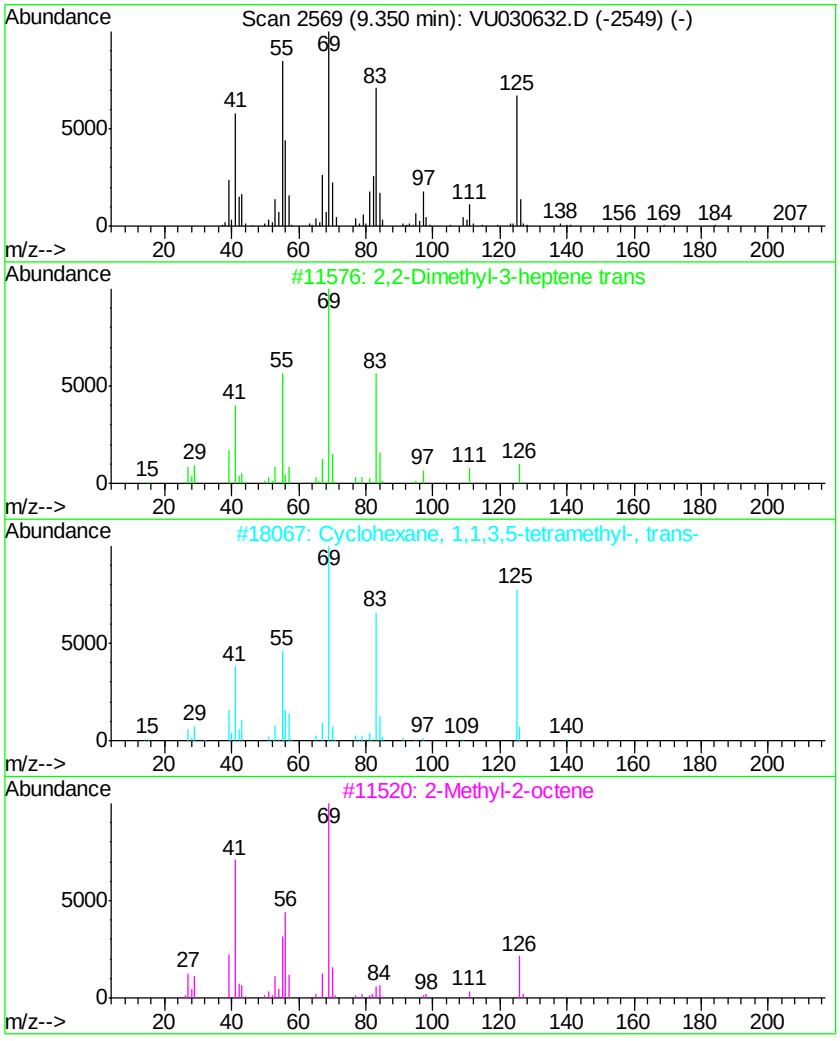
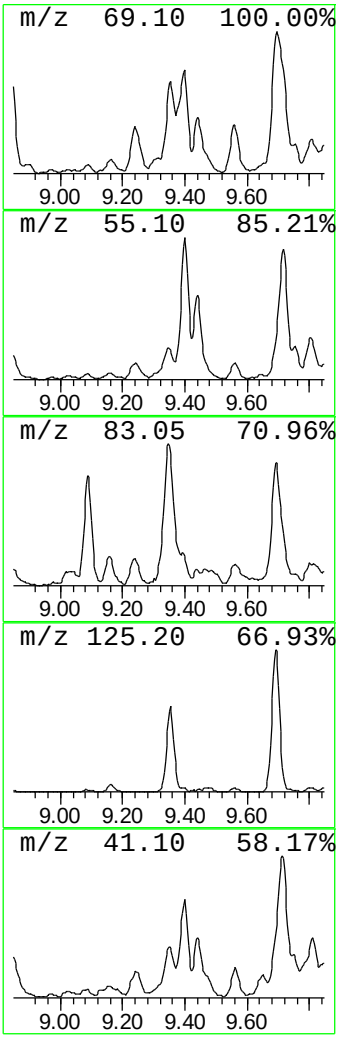
Peak Number 10 (DEL) Alkane: Cyclic9.35 Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	12.86 ug/L	413860	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-3-heptene trans	126	C9H18	019550-75-5	58
2	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-31-8	52
3	2-Methyl-2-octene	126	C9H18	016993-86-5	46
4	2-Methyl-2-octene	126	C9H18	016993-86-5	43
5	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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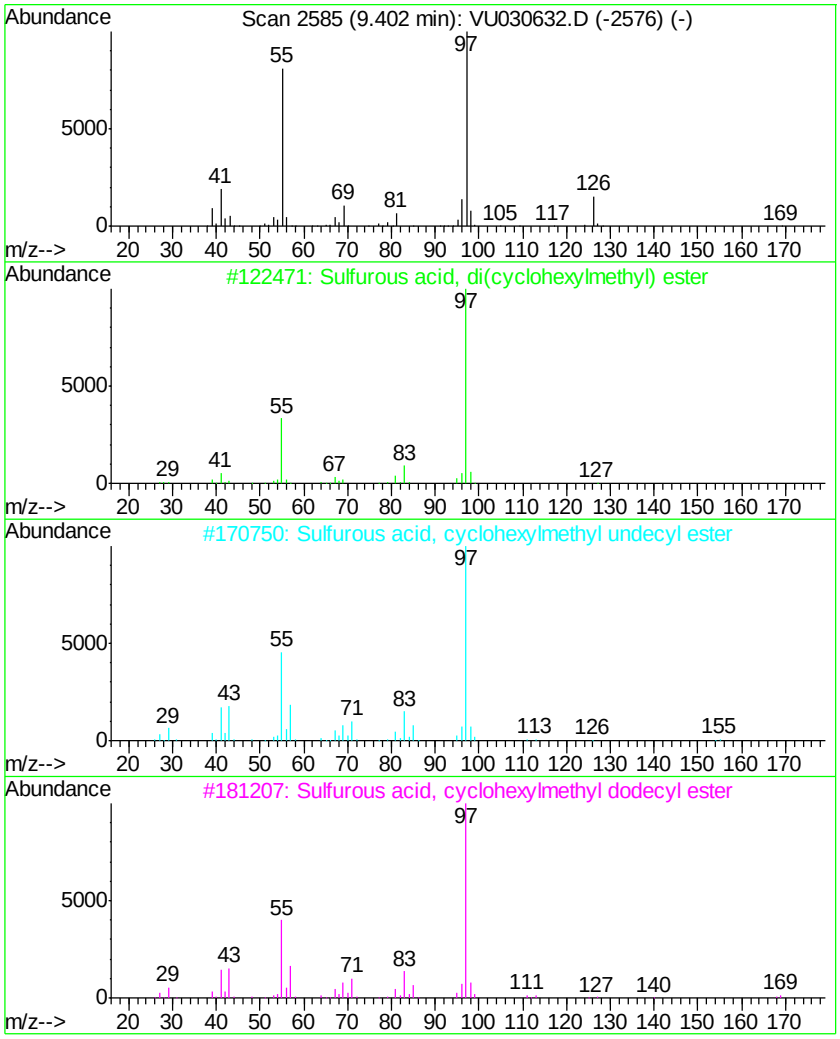
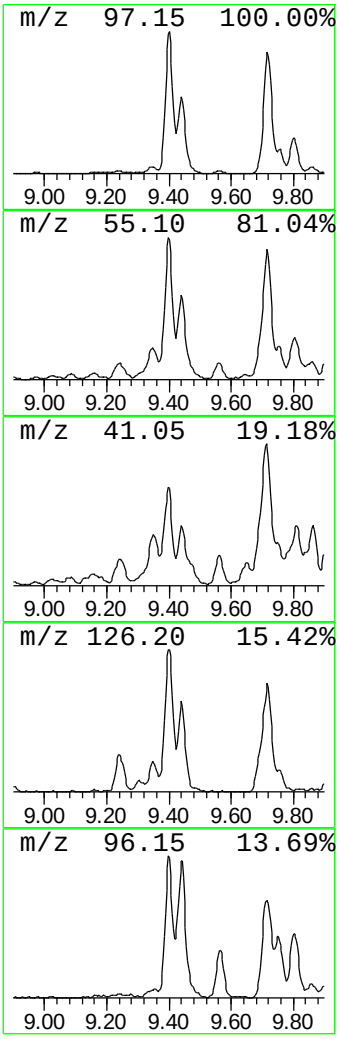
Peak Number 11 Sulfurous acid, di(cyclohex... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	19.21 ug/L	618345	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, di(cyclohexylmet...	274	C14H26O3S	1000309-22-7	72
2	Sulfurous acid, cyclohexylmethyl...	332	C18H36O3S	1000309-21-9	72
3	Sulfurous acid, cyclohexylmethyl...	346	C19H38O3S	1000309-22-0	72
4	3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	72
5	Sulfurous acid, butyl cyclohexyl...	234	C11H22O3S	1000309-21-4	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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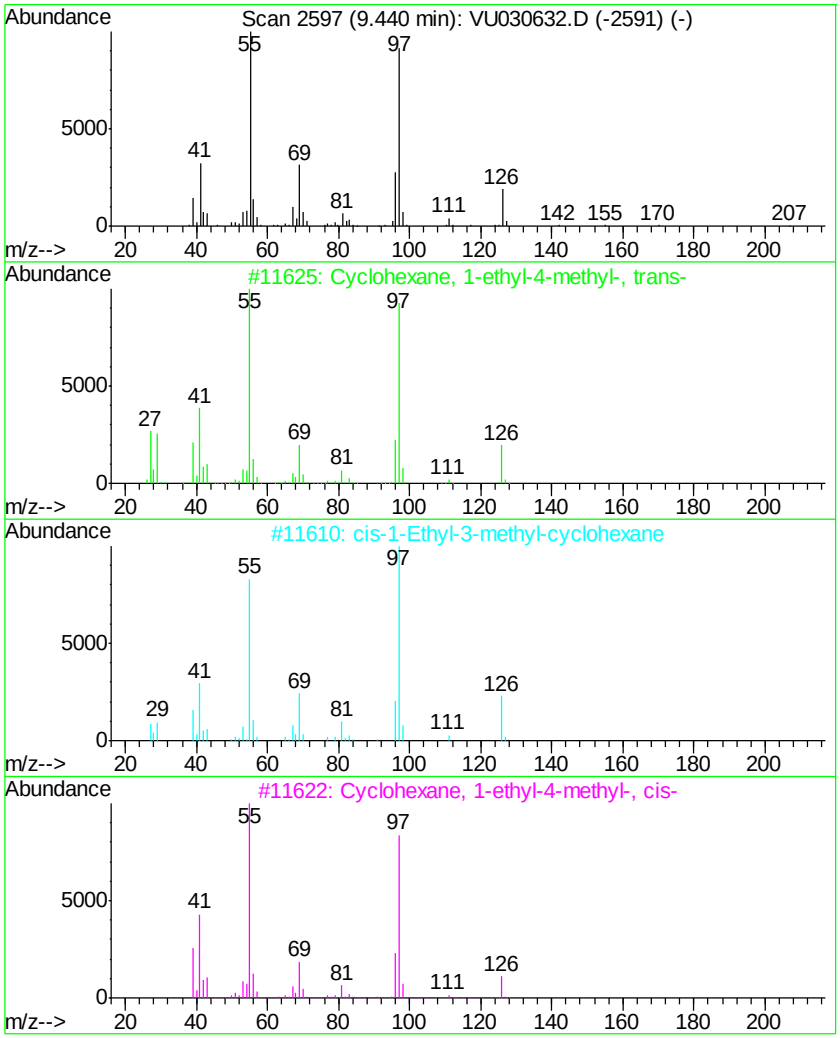
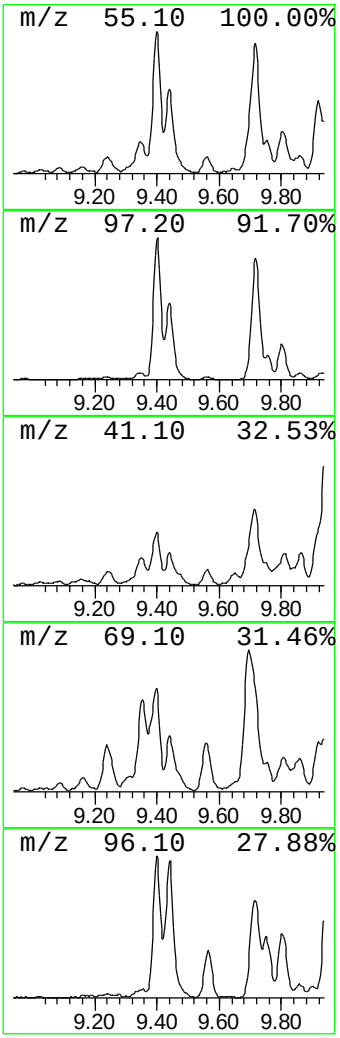
Peak Number 12 (DEL) Alkane: Cyclic9.44 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	17.86 ug/L	574730	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	91
2	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	91
3	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	91
4	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	91
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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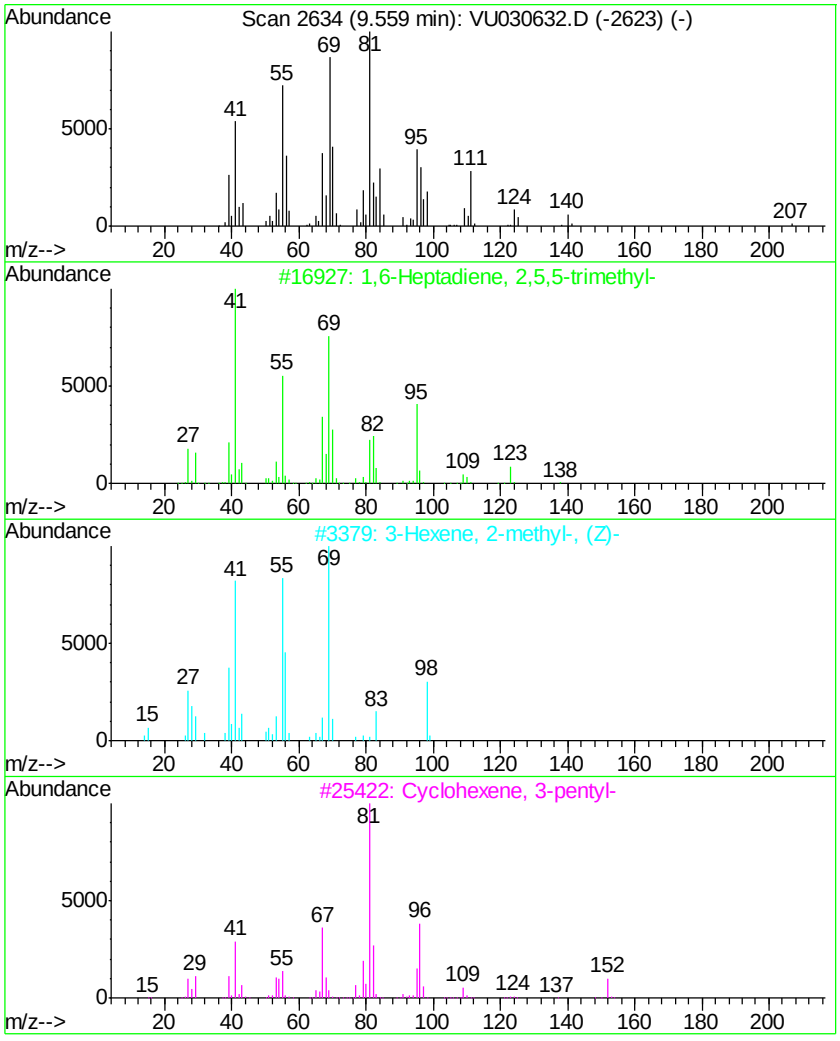
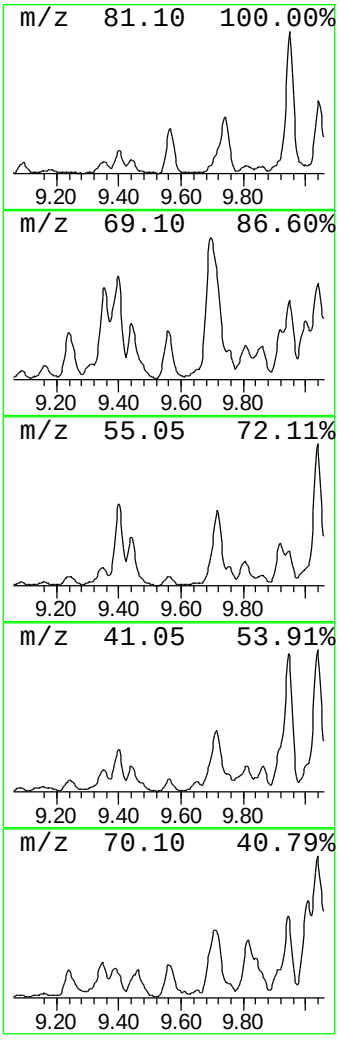
Peak Number 13 unknown-02 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.56	8.16 ug/L	262534	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,6-Heptadiene, 2,5,5-trimethyl-	138	C10H18	062238-28-2	45
2	3-Hexene, 2-methyl-, (Z)-	98	C7H14	015840-60-5	35
3	Cyclohexene, 3-pentyl-	152	C11H20	015232-92-5	30
4	Cyclopropane, 1,2-dimethyl-1-pen...	140	C10H20	062238-04-4	30
5	Pentane, 1-chloro-5-(methylenecy...	158	C9H15Cl	1000158-49-0	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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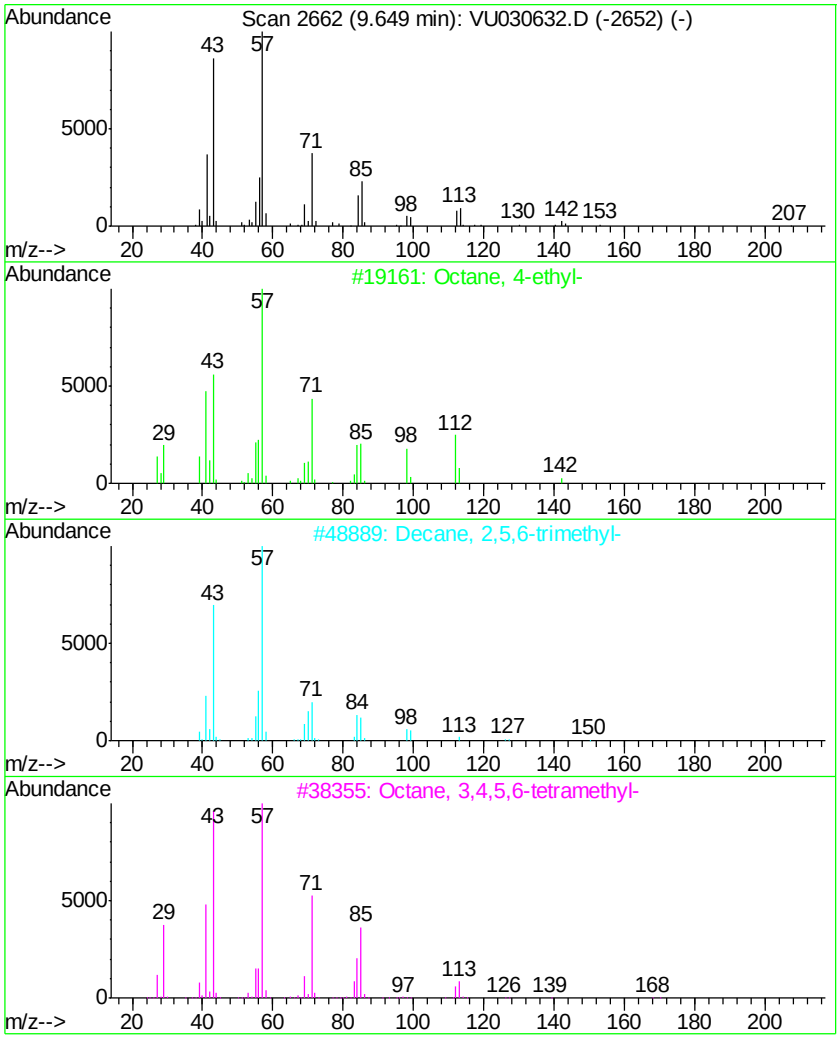
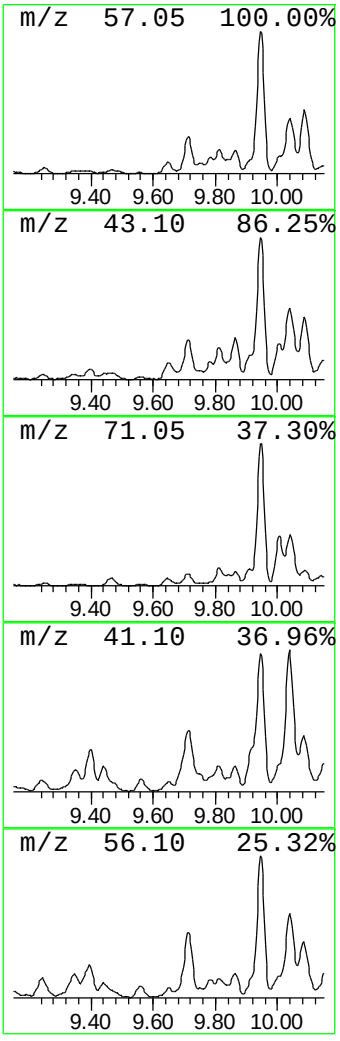
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	3.61 ug/L	116327	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-ethyl-	142	C10H22	015869-86-0	90
2	Decane, 2,5,6-trimethyl-	184	C13H28	062108-23-0	64
3	Octane, 3,4,5,6-tetramethyl-	170	C12H26	062185-21-1	59
4	Nonane, 2-methyl-	142	C10H22	000871-83-0	53
5	Decane	142	C10H22	000124-18-5	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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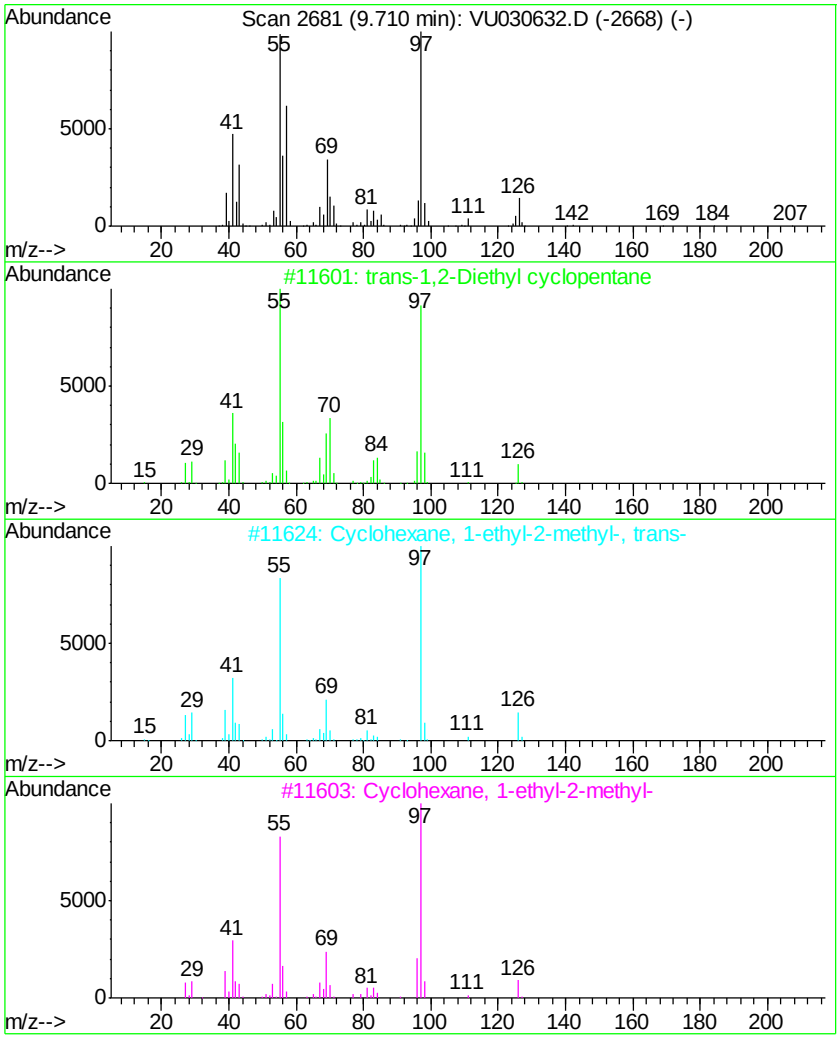
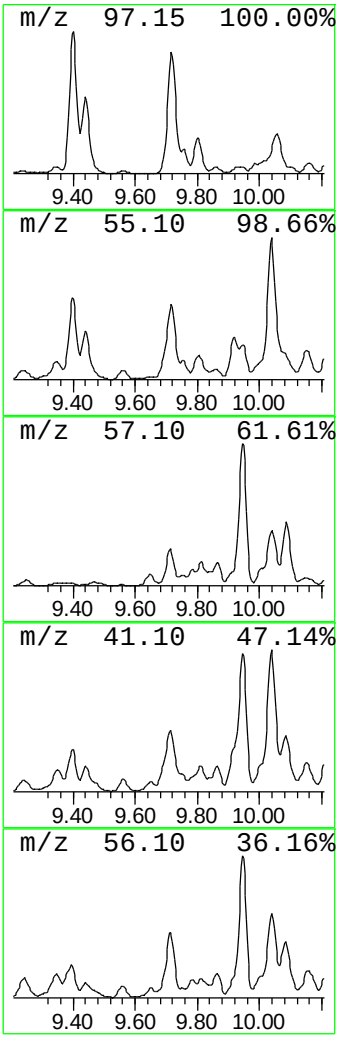
Peak Number 15 (DEL) Alkane: Cyclic9.71 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.71	41.58 ug/L	1338060	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-1,2-Diethyl cyclopentane	126	C9H18	000932-40-1	78
2	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	76
3	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	76
4	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	74
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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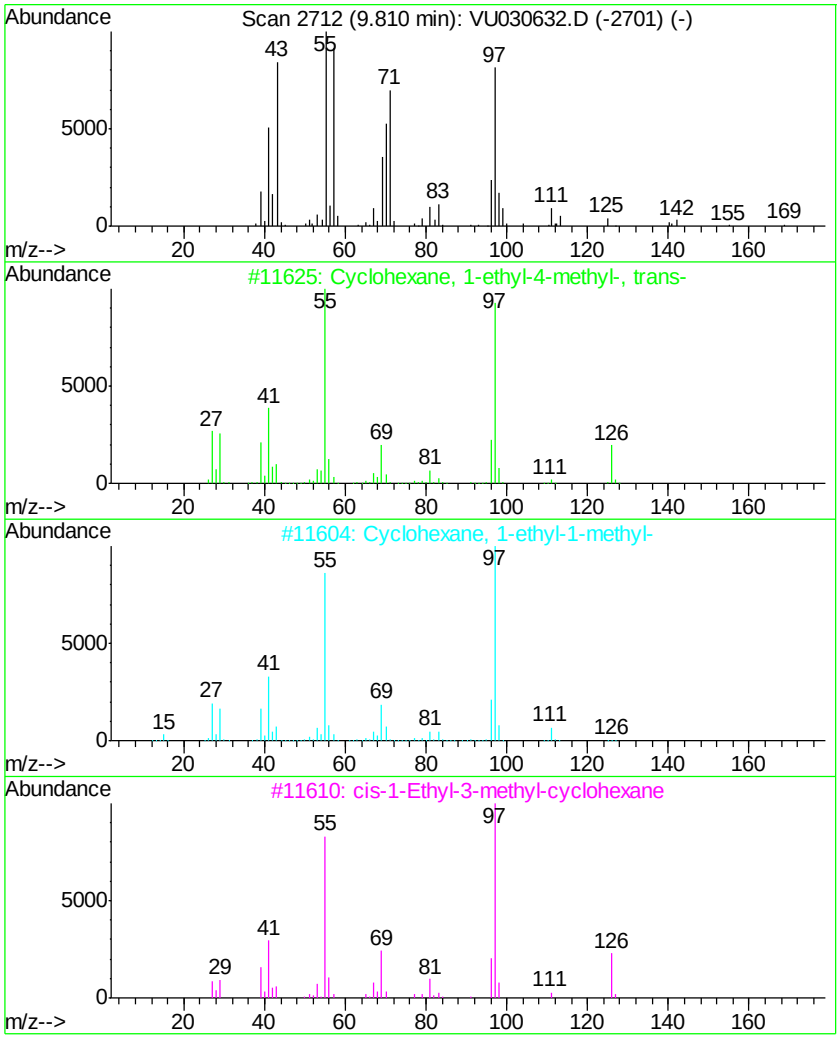
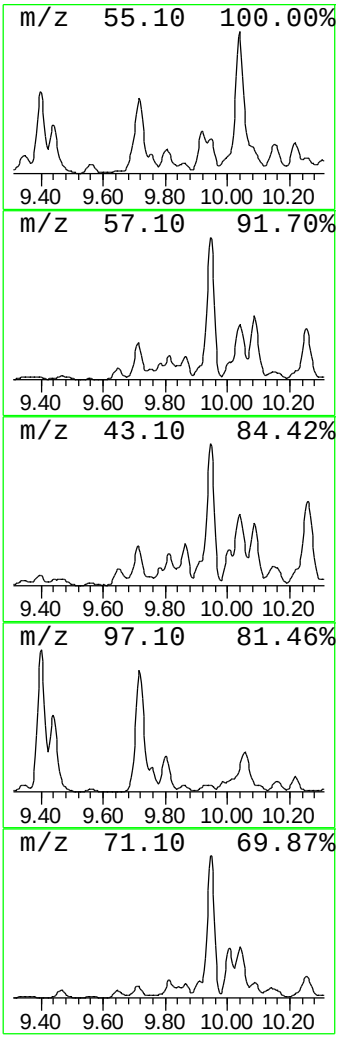
Peak Number 16 (DEL) Alkane: Cyclic9.81 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.81	7.79 ug/L	250621	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	38
2	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	38
3	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	38
4	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	38
5	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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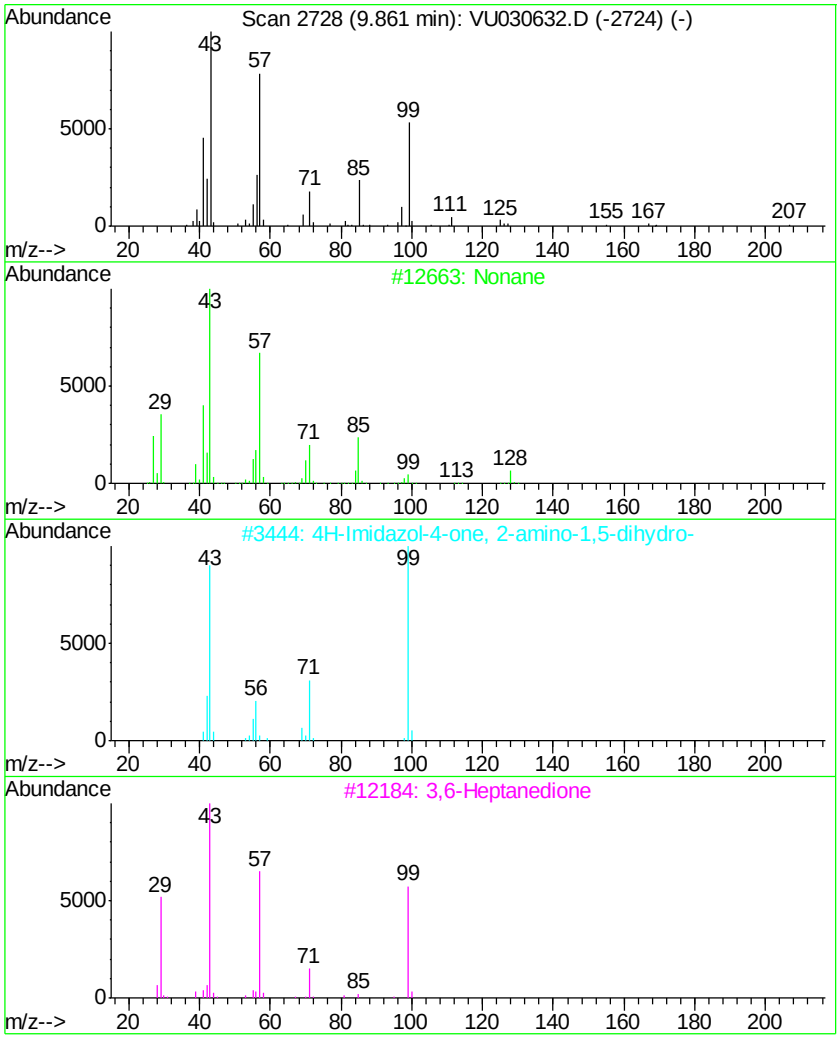
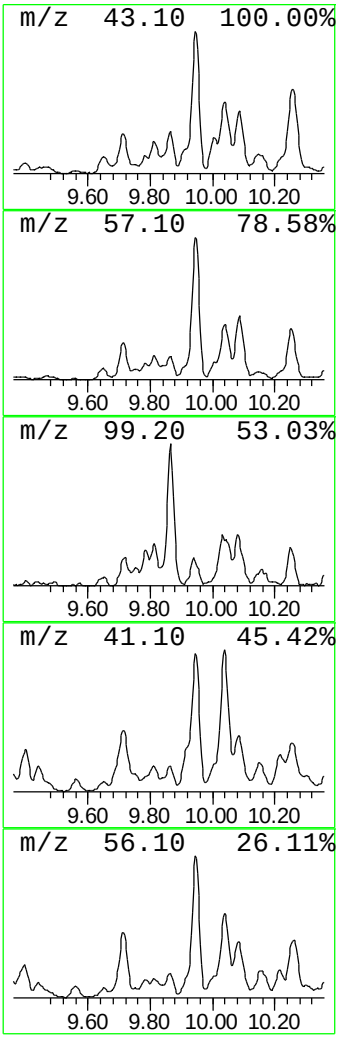
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.86	6.02 ug/L	193659	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane	128	C9H20	000111-84-2	53
2	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	50
3	3,6-Heptanedione	128	C7H12O2	001703-51-1	47
4	Acetamide, N-ethenyl-N-methyl-	99	C5H9NO	003195-78-6	43
5	Nonane	128	C9H20	000111-84-2	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

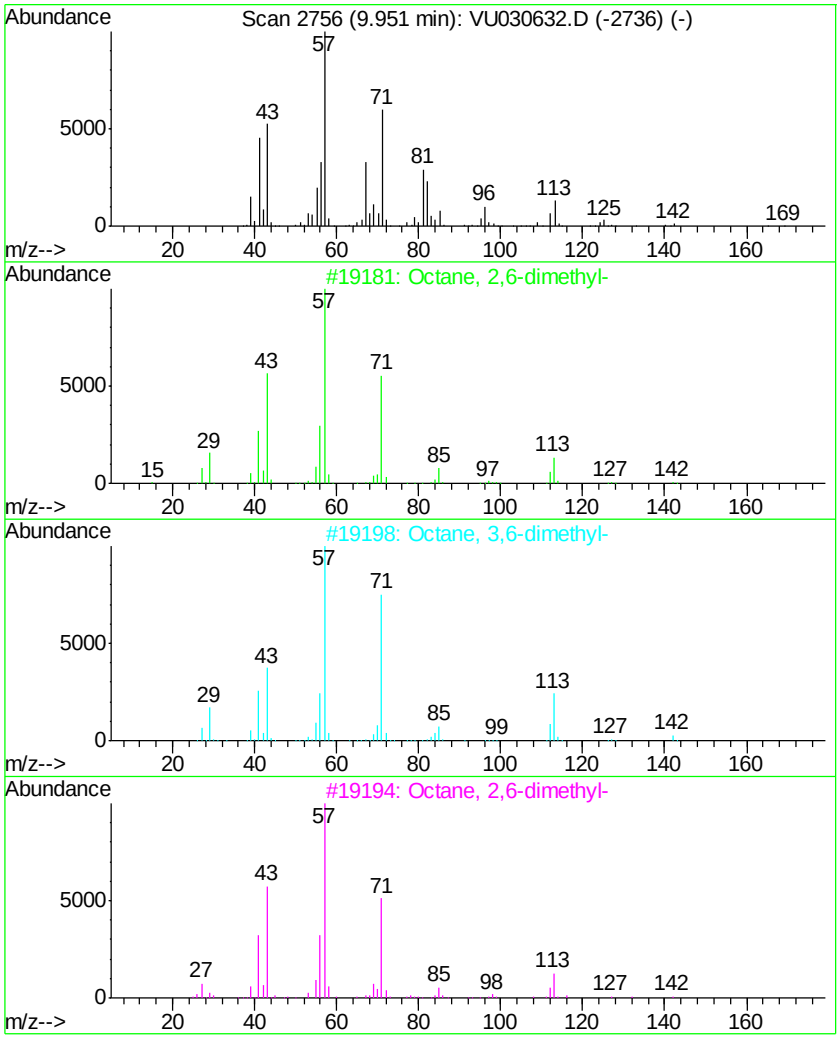
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

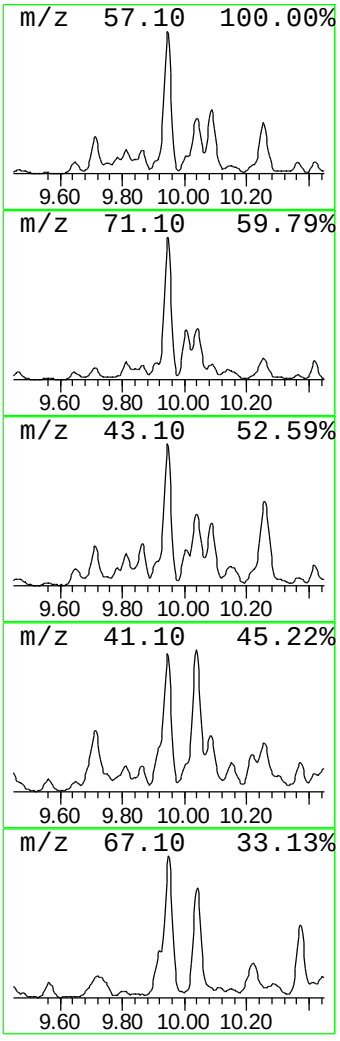
****

Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	70.40 ug/L	2265560	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	60
2	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	60
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	60
4	Nonane, 3-methyl-	142	C10H22	005911-04-6	60
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	60





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

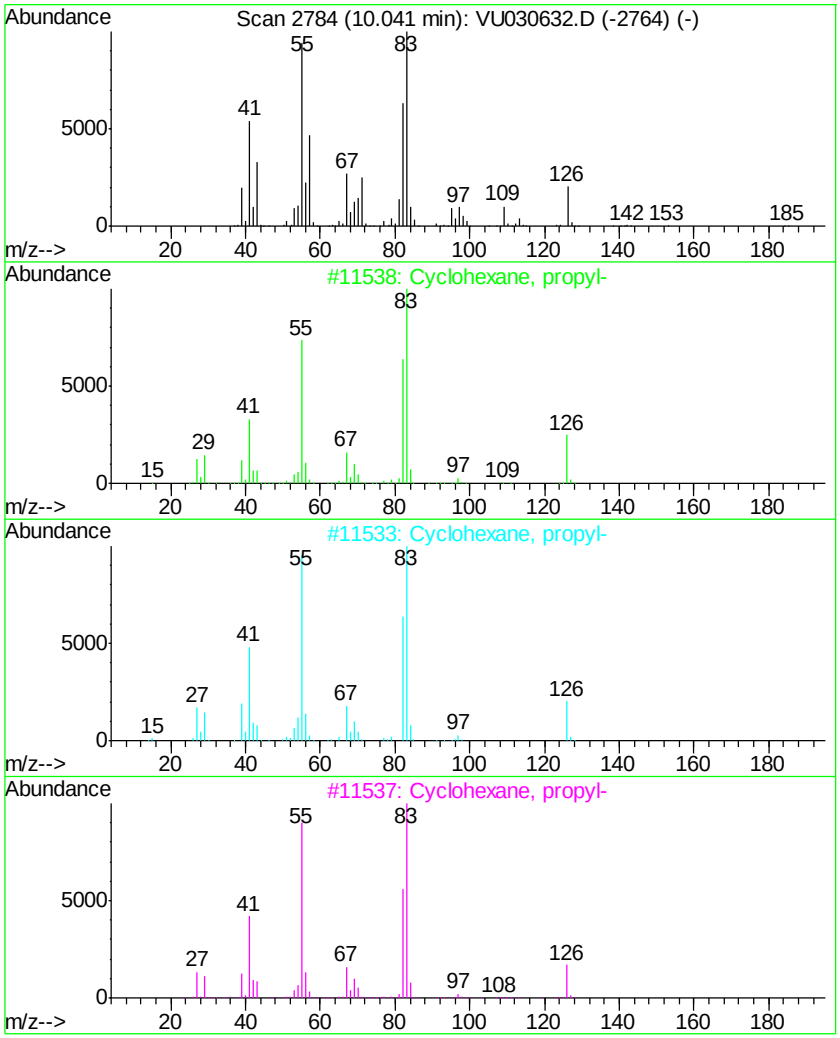
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

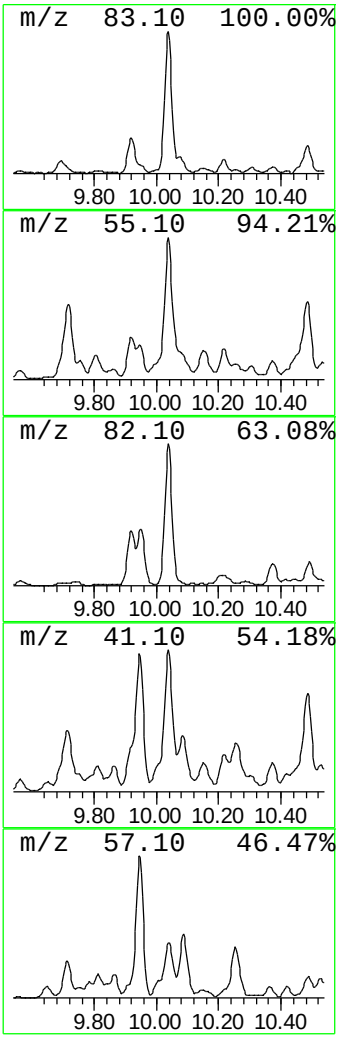
****

Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	74.05 ug/L	2382970	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, propyl-	126	C9H18	001678-92-8	81
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	76
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	68
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	64
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	59





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

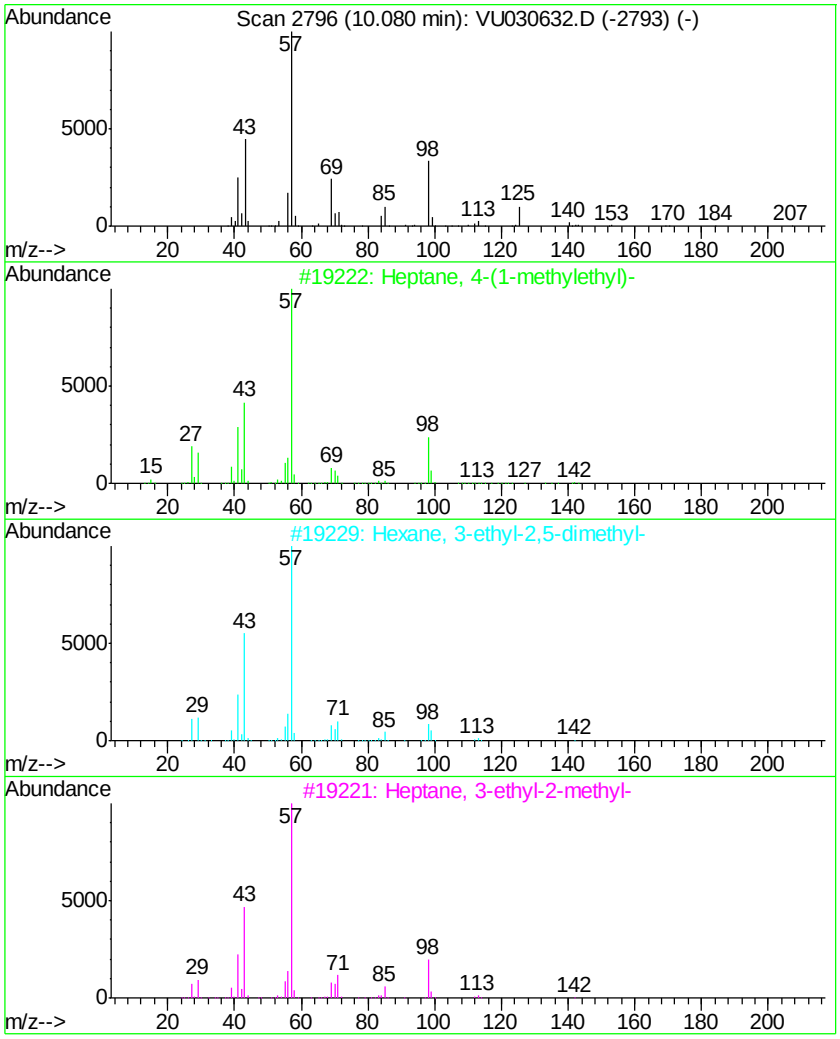
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

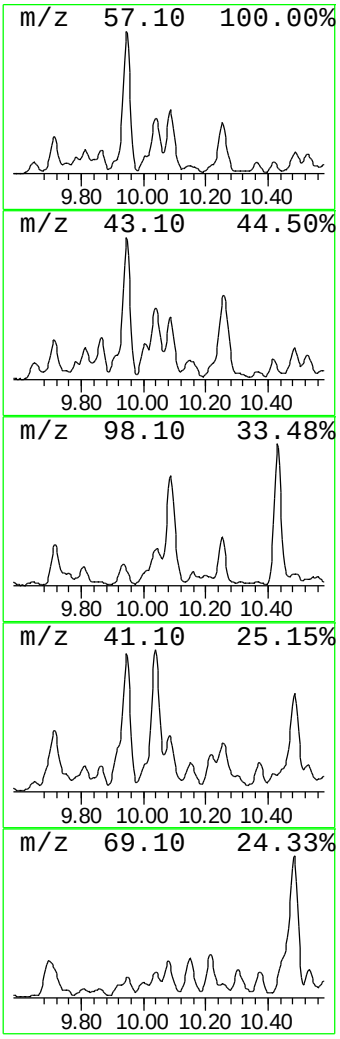
****

Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.08	18.16 ug/L	584243	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-(1-methylethyl)-	142	C10H22	052896-87-4	53
2	Hexane, 3-ethyl-2,5-dimethyl-	142	C10H22	052897-04-8	50
3	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	50
4	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	50
5	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	50





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

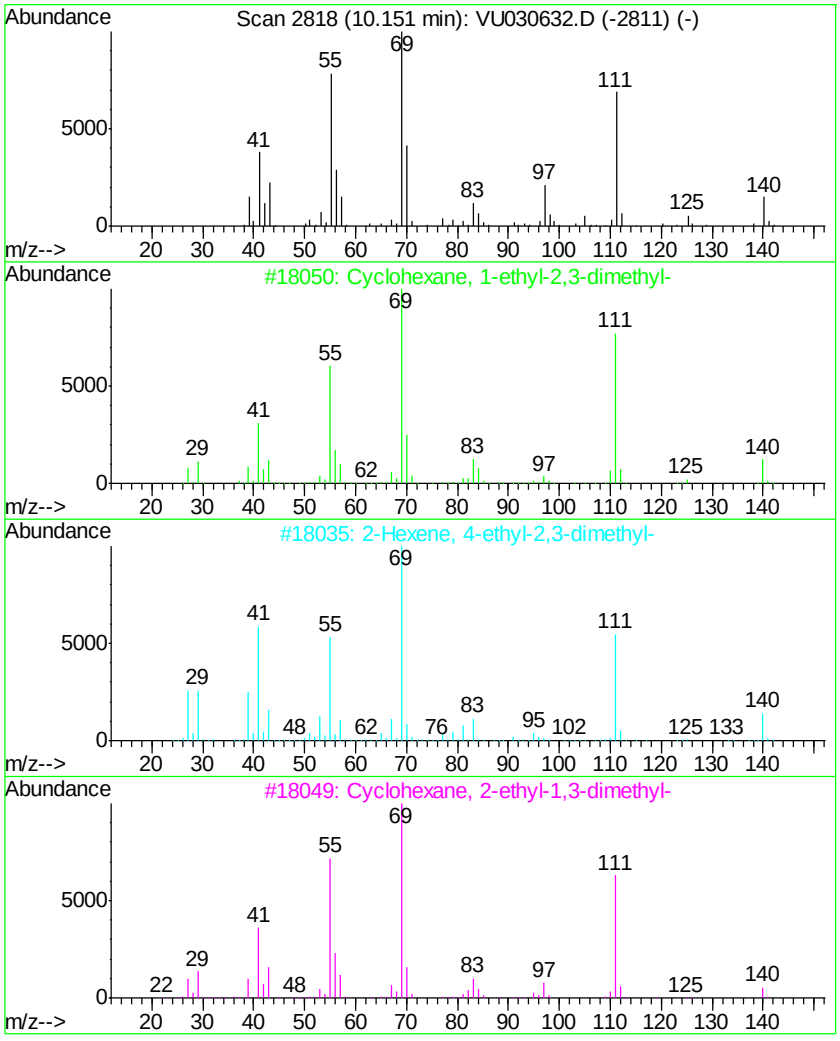
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

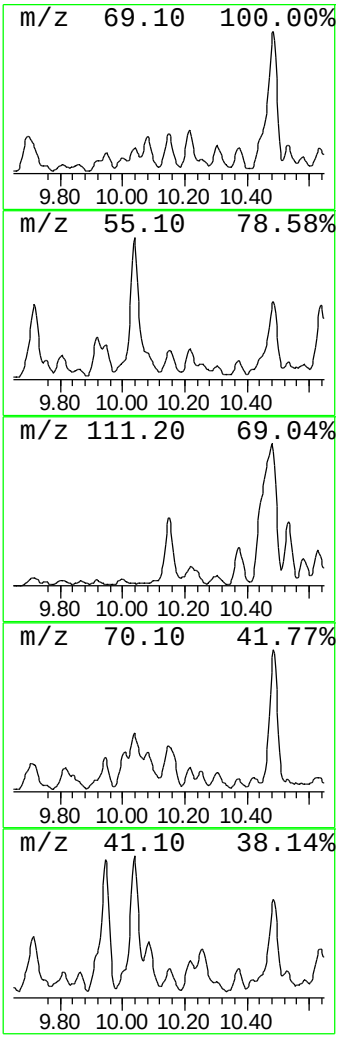
****

Peak Number 21 (DEL) Alkane: Cyclic10.15 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.15	12.79 ug/L	411481	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2,3-dimethyl-	140	C10H20	007058-05-1	74
2	2-Hexene, 4-ethyl-2,3-dimethyl-	140	C10H20	1000149-19-7	64
3	Cyclohexane, 2-ethyl-1,3-dimethyl-	140	C10H20	007045-67-2	59
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	53
5	Cyclohexane, 1-ethyl-1,4-dimethy...	140	C10H20	062238-32-8	50





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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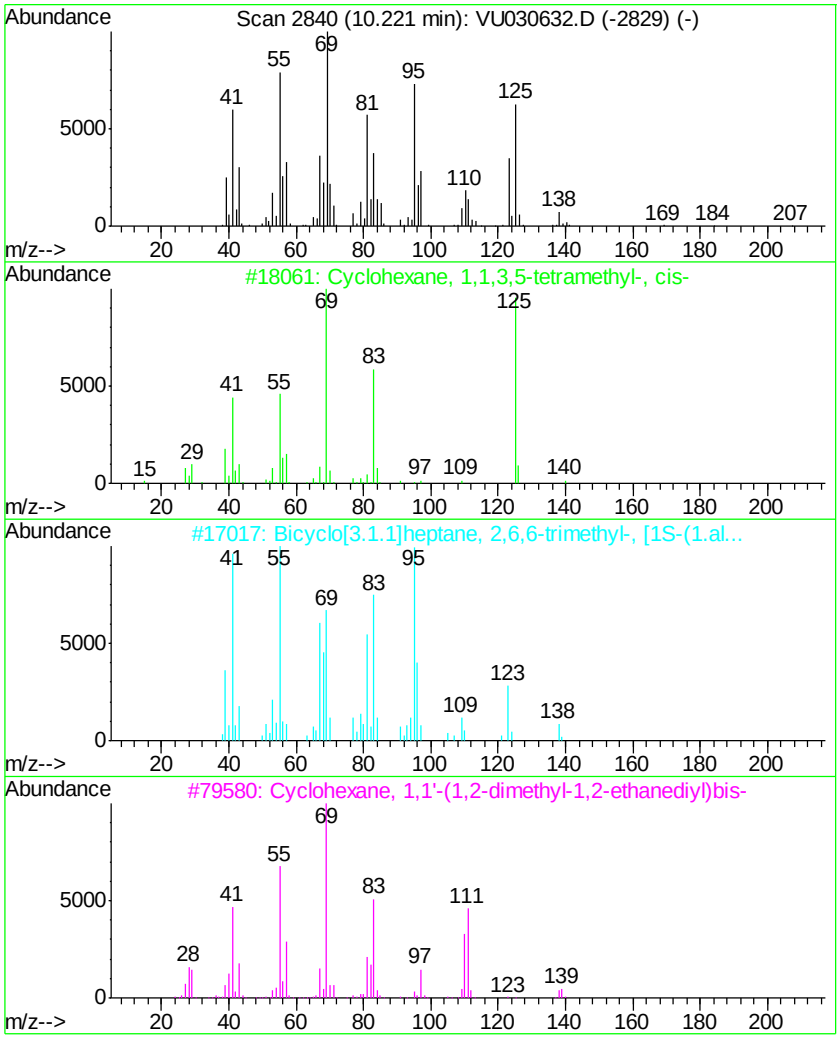
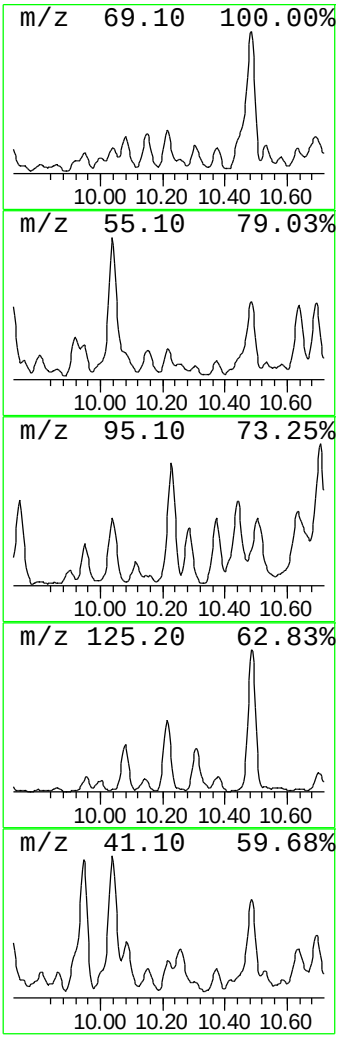
Peak Number 22 (DEL) Alkane: Cyclic10.22 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	19.76 ug/L	635927	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-32-9	46
2	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	004755-33-3	38
3	Cyclohexane, 1,1'-(1,2-dimethyl-...	222	C16H30	074663-71-1	38
4	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	000473-55-2	30
5	Chloromethyl 5-chloroundecanoate	268	C12H22Cl2O2	080418-91-3	22





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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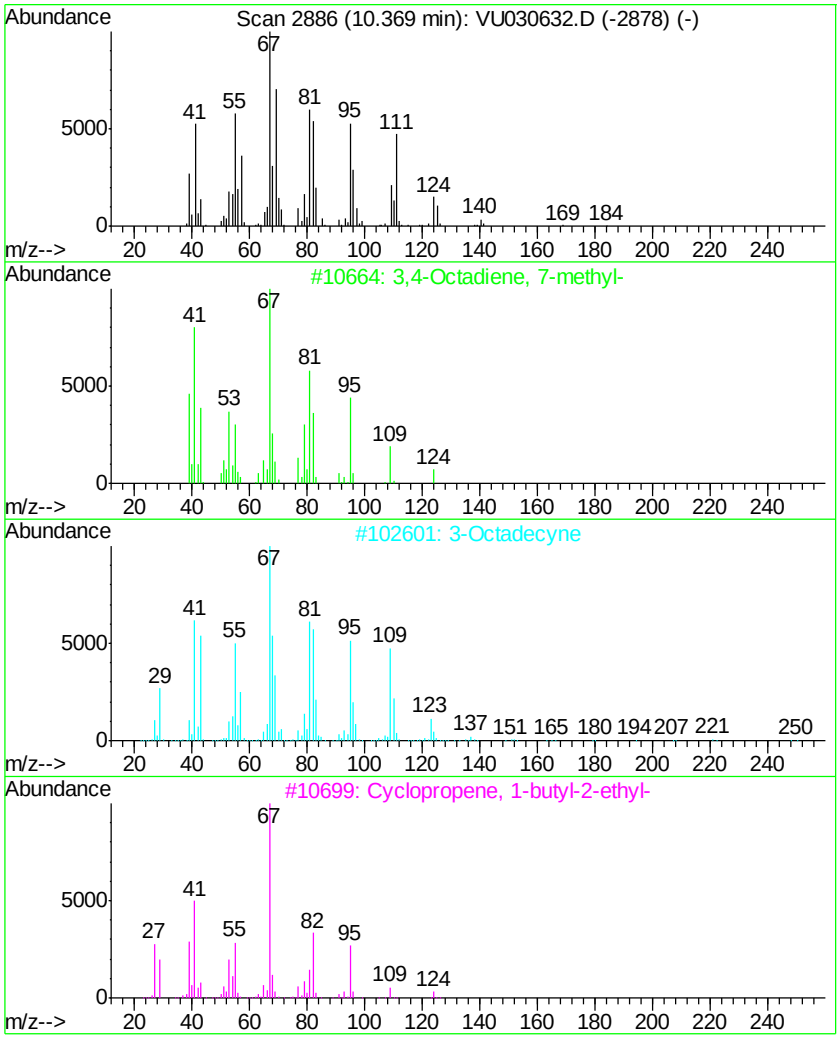
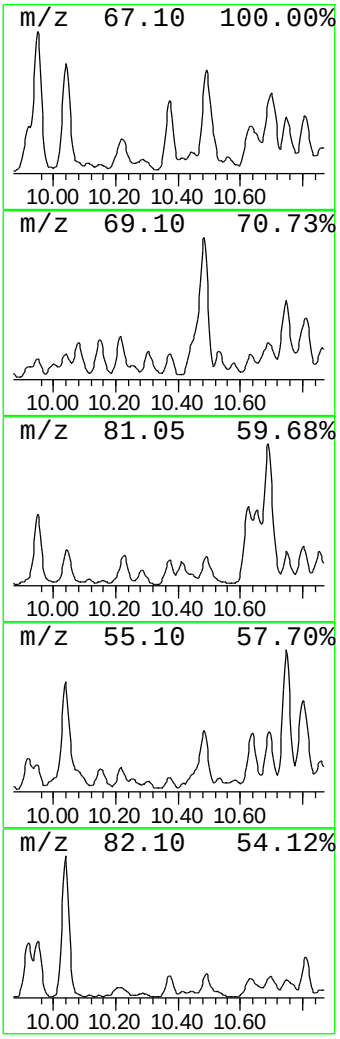
Peak Number 23 3,4-Octadiene, 7-methyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.37	13.53 ug/L	446639	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	62
2	3-Octadecyne	250	C18H34	061886-64-4	58
3	Cyclopropene, 1-butyl-2-ethyl-	124	C9H16	050915-91-8	58
4	1-Methylcycloheptene	110	C8H14	055308-20-8	55
5	Bicyclo[2.2.1]heptane, 2-ethyl-	124	C9H16	002146-41-0	53





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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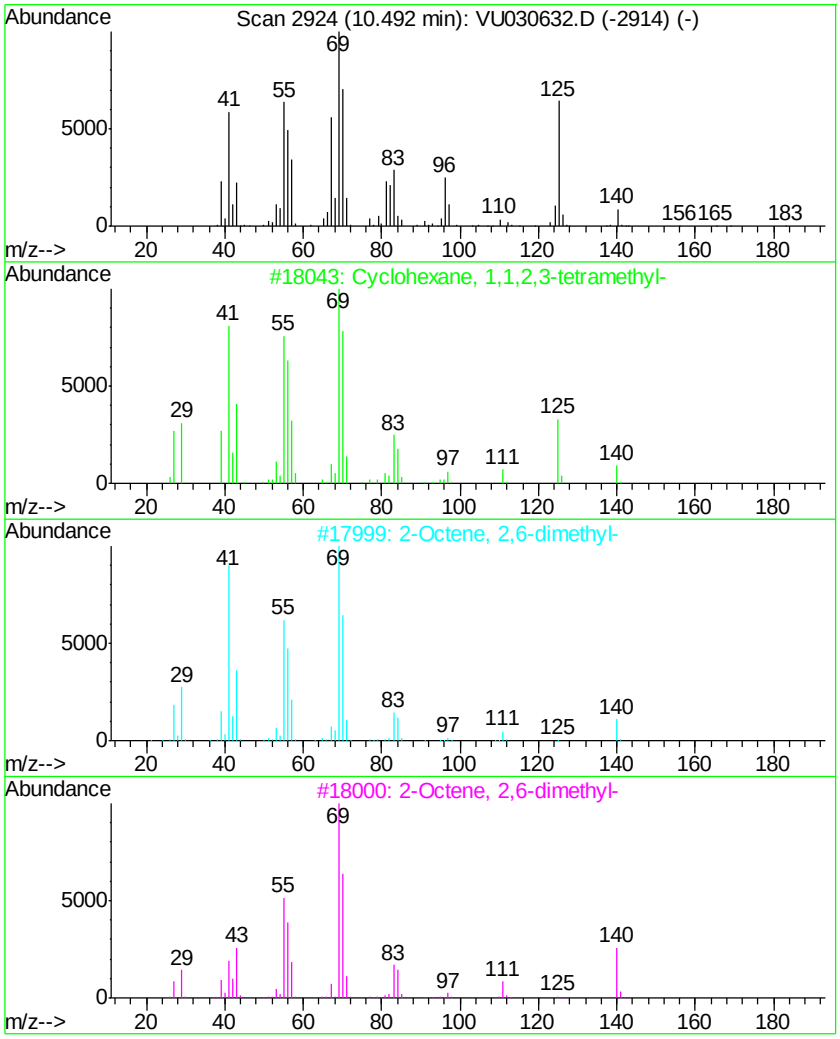
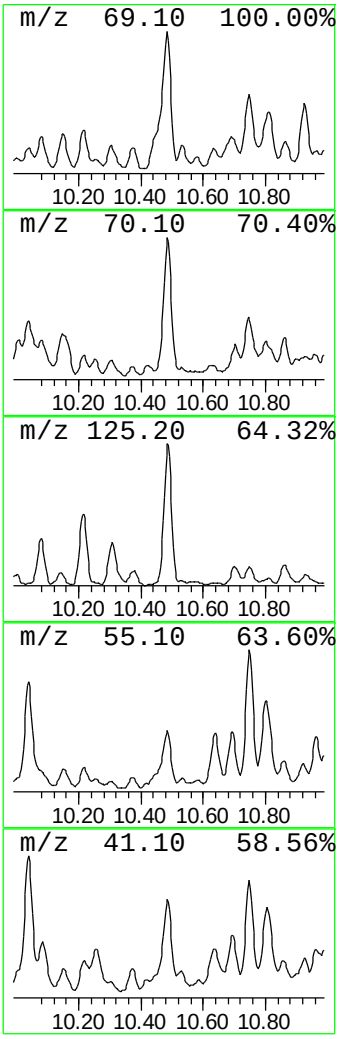
Peak Number 24 (DEL) Alkane: Cyclic10.49 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	39.42 ug/L	1300910	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	87
2	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	58
3	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	52
4	1-Hexene, 3,3,5-trimethyl-	126	C9H18	013427-43-5	50
5	1-Hexene, 3,3-dimethyl-	112	C8H16	003404-77-1	35





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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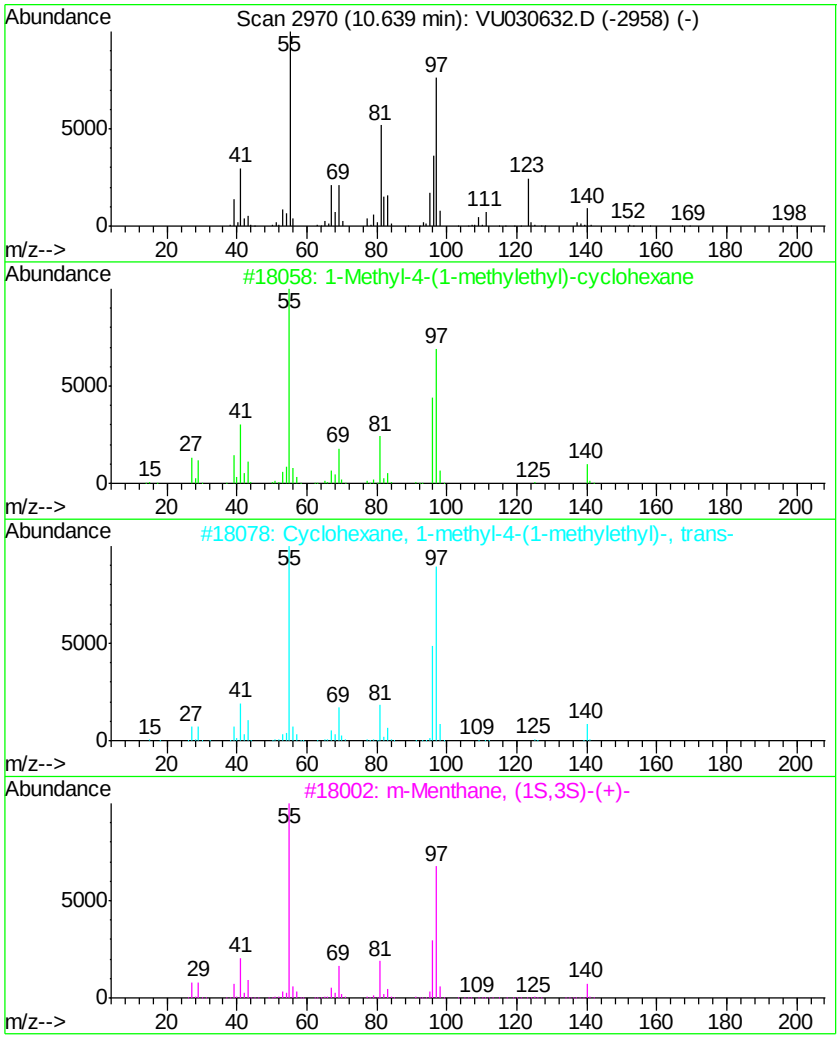
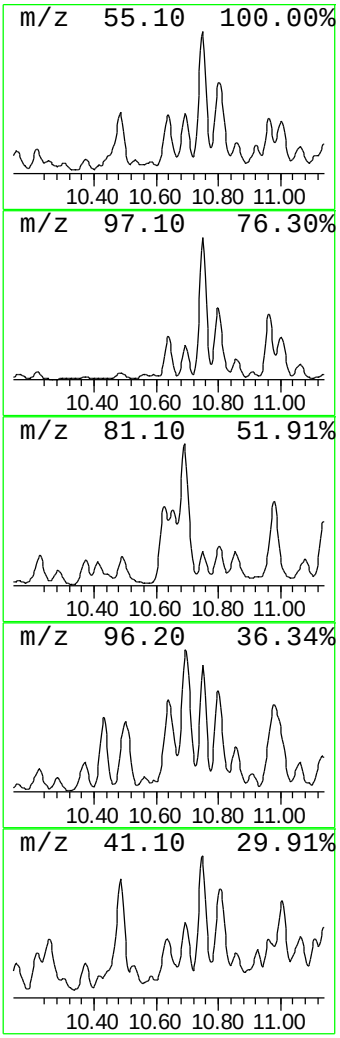
Peak Number 25 1-Methyl-4-(1-methylethyl)-... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.64	28.83 ug/L	951202	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	58
2	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	58
3	m-Menthane, (1S,3S)-(+)-	140	C10H20	013837-67-7	58
4	m-Menthane, (1S,3R)-(+)-	140	C10H20	013837-66-6	53
5	Oxalic acid, cyclohexylmethyl is...	270	C15H26O4	1000309-68-3	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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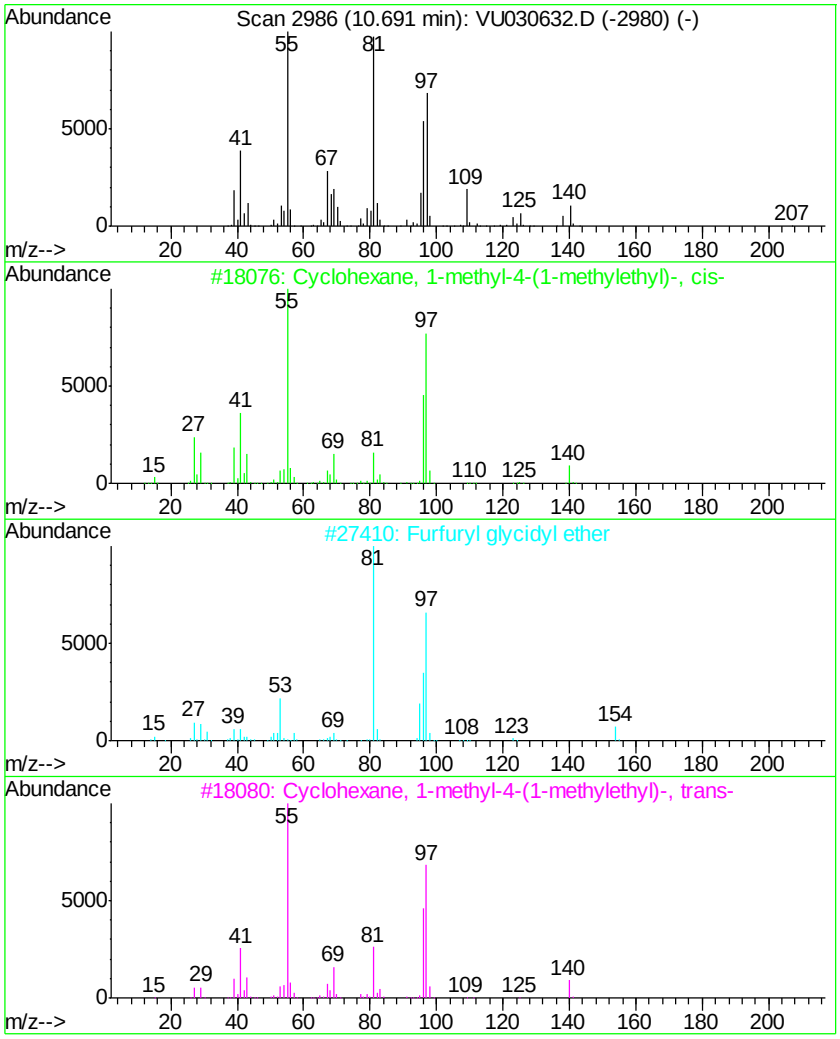
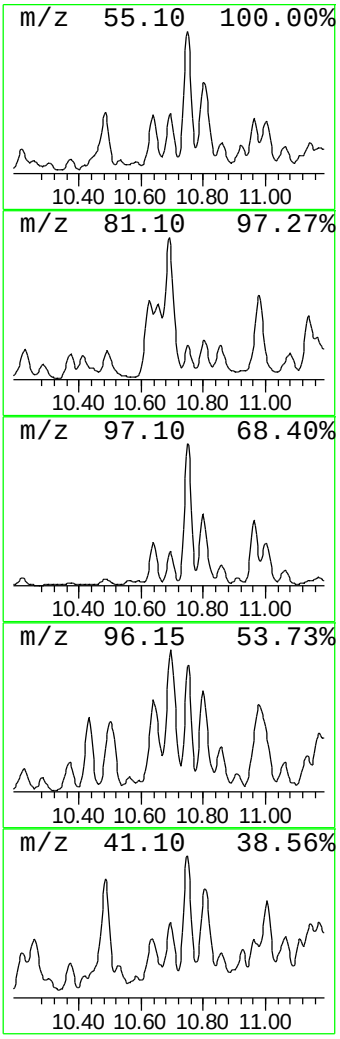
Peak Number 26 (DEL) Alkane: Cyclic10.69 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.69	28.69 ug/L	946796	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	50
2	Furfuryl glycidyl ether	154	C8H10O3	005380-87-0	47
3	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	46
4	Pentalene, octahydro-2,5-dimethyl-	138	C10H18	028588-55-8	43
5	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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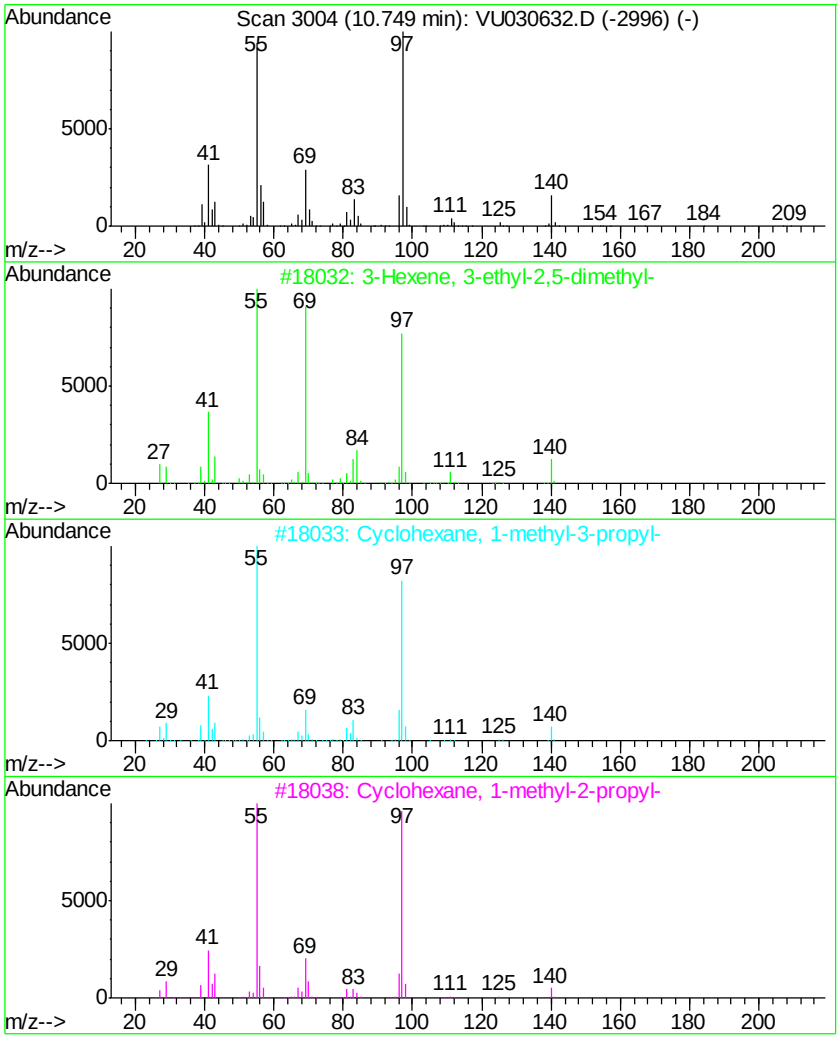
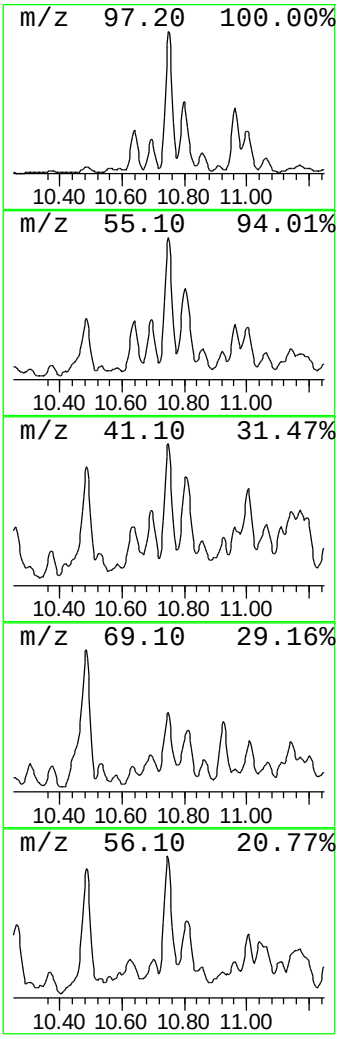
Peak Number 27 (DEL) Alkane: Cyclic10.75 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	47.13 ug/L	1555290	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene, 3-ethyl-2,5-dimethyl-	140	C10H20	062338-08-3	76
2	Cyclohexane, 1-methyl-3-propyl-	140	C10H20	004291-80-9	72
3	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	72
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	64
5	Sulfurous acid, cyclohexylmethyl...	262	C13H26O3S	1000309-21-5	64





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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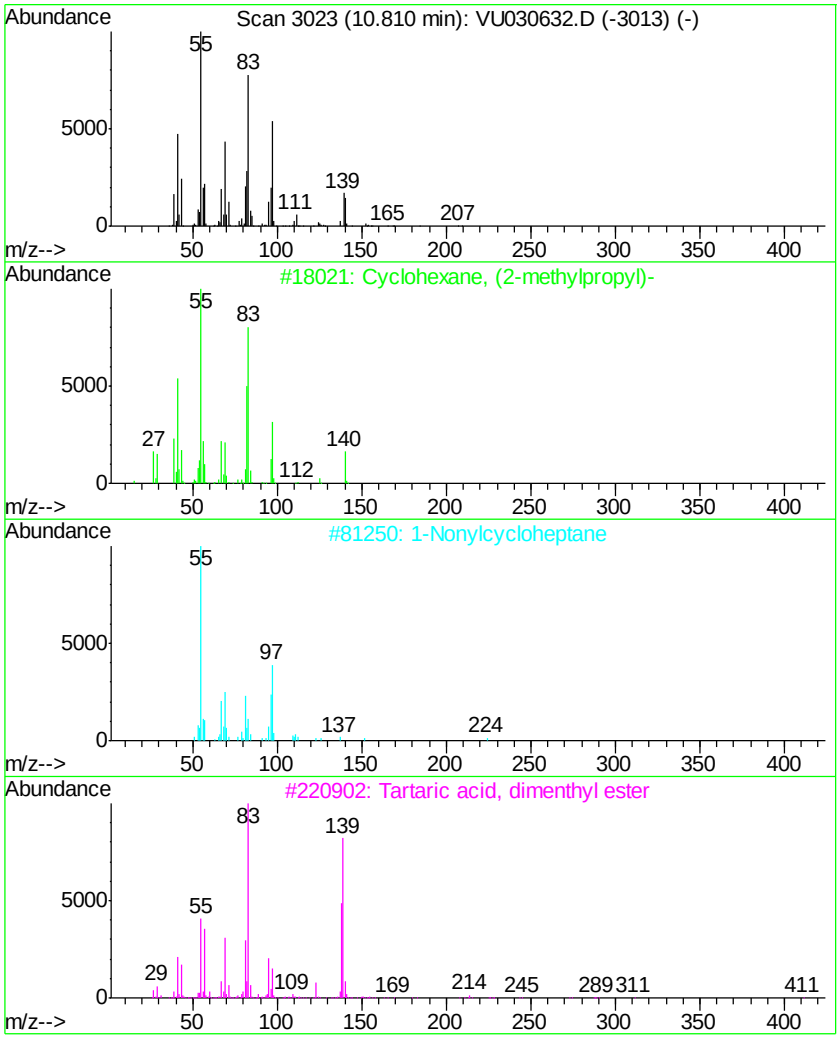
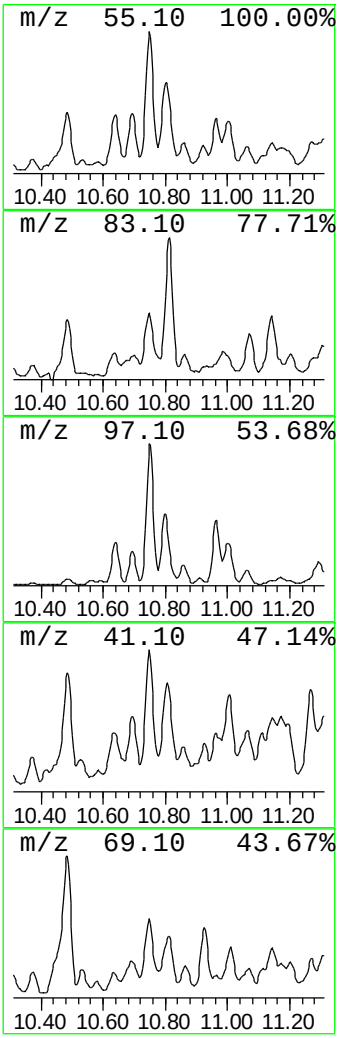
Peak Number 28 (DEL) Alkane: Cyclic10.81 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.81	36.04 ug/L	1189370	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	43
2	1-Nonylcycloheptane	224	C16H32	1000371-47-7	35
3	Tartaric acid, dimenthyl ester	426	C24H42O6	1000149-89-9	35
4	Trichloroacetic acid, 6-chlorohe...	280	C8H12Cl4O2	1000330-89-2	35
5	1-Cyclohexylethanol, trifluoroac...	224	C10H15F3O2	1000365-19-2	27





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

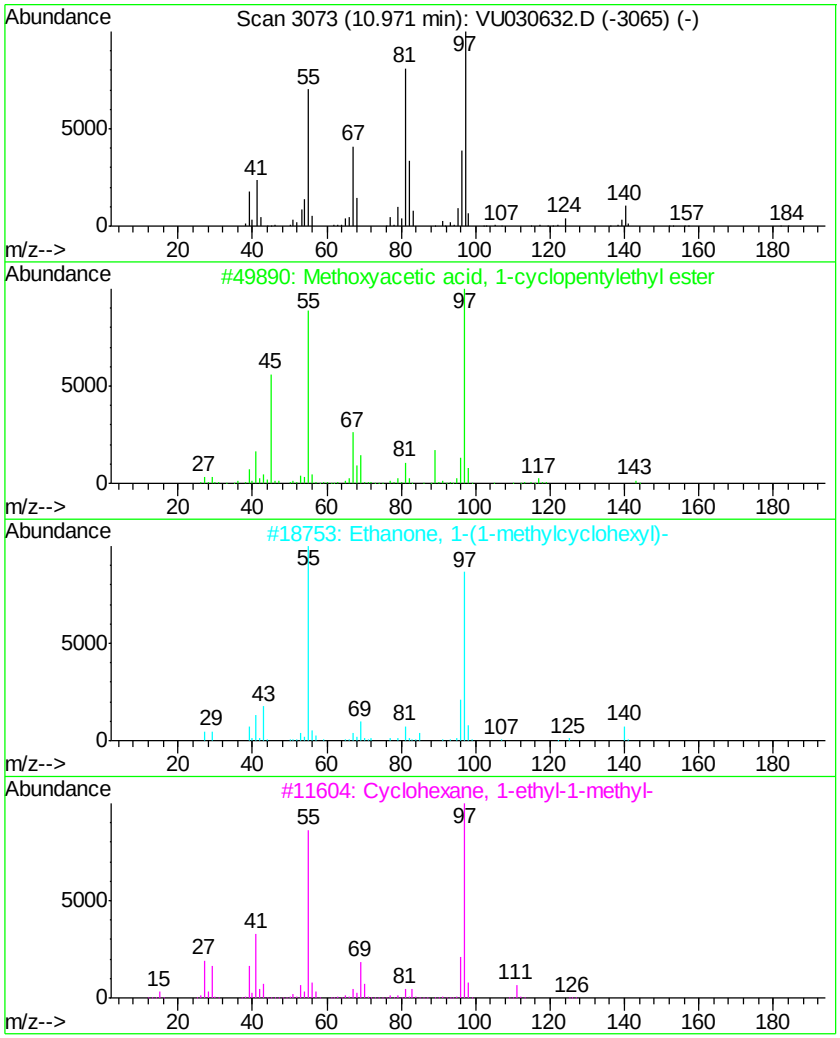
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

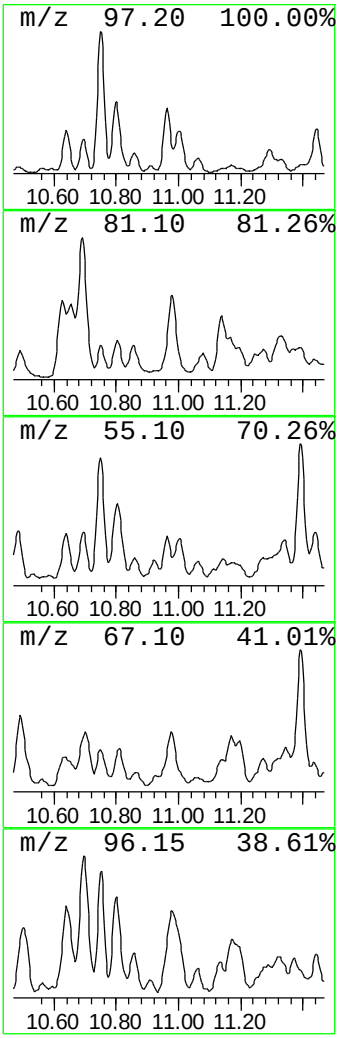
****

Peak Number 29 Methoxyacetic acid, 1-cyclo... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	13.55 ug/L	447221	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methoxyacetic acid, 1-cyclopentyl...	186	C10H18O3	1000282-69-5	59
2	Ethanone, 1-(1-methylcyclohexyl)-	140	C9H16O	002890-62-2	53
3	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	50
4	Cyclohexane, 1-bromo-4-methyl-	176	C7H13Br	006294-40-2	47
5	Ethanone, 1-(3,4-dihydro-6-methy...	140	C8H12O2	028450-02-4	43





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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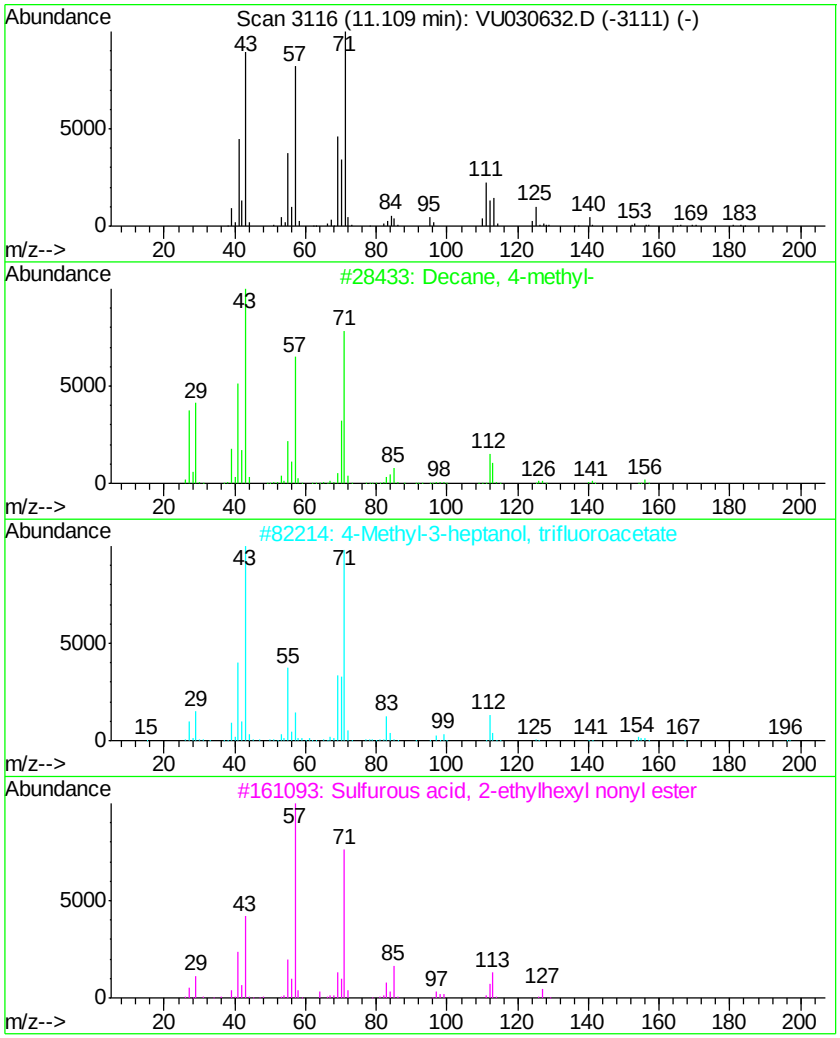
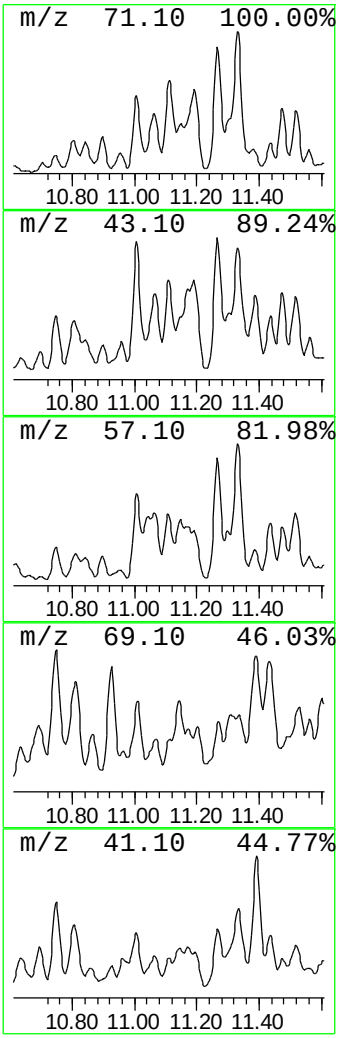
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	7.37 ug/L	243224	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 4-methyl-	156	C11H24	002847-72-5	53
2	4-Methyl-3-heptanol, trifluoroac...	226	C10H17F3O2	1000365-51-8	50
3	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1000309-19-2	50
4	Sulfurous acid, octyl 2-pentyl e...	264	C13H28O3S	1000309-15-7	50
5	4-Methyl-3-heptanol, pentafluoro...	276	C11H17F5O2	1000365-51-7	47





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

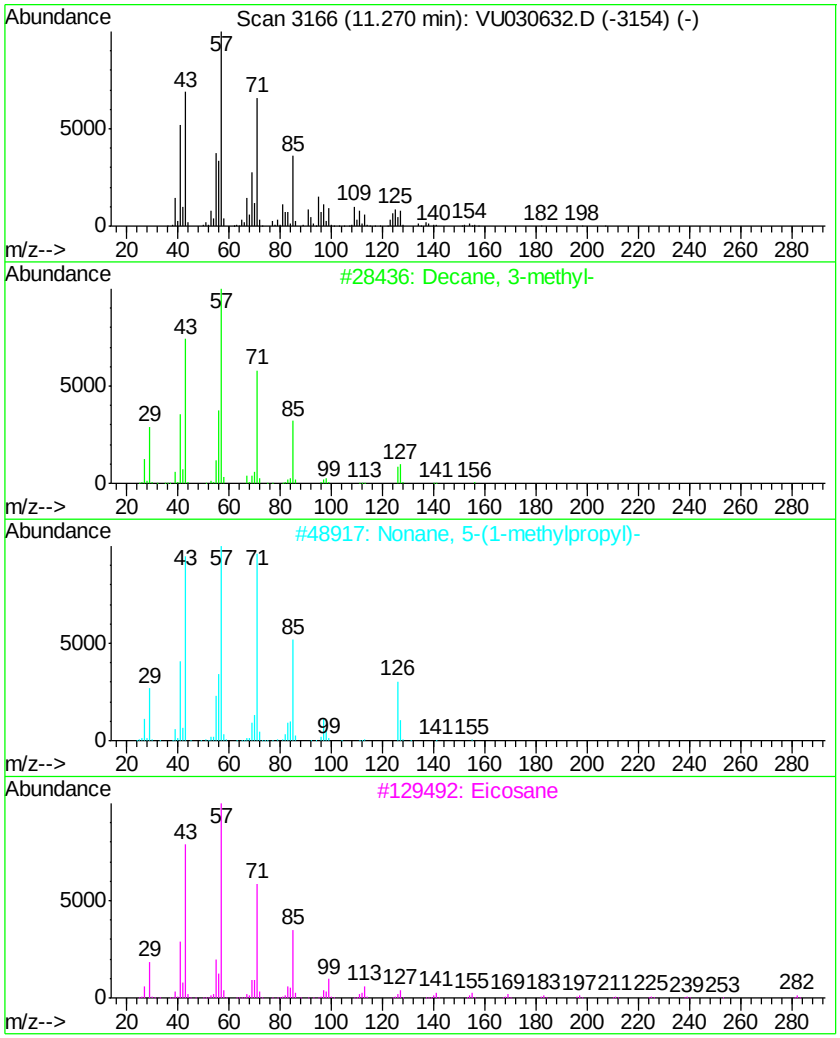
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

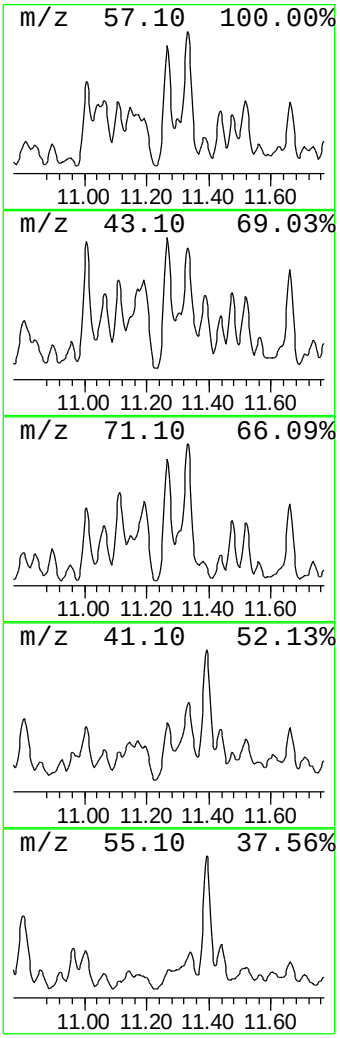
****

Peak Number 31 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	39.13 ug/L	1291160	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3-methyl-	156	C11H24	013151-34-3	70
2	Nonane, 5-(1-methylpropyl)-	184	C13H28	062185-54-0	59
3	Eicosane	282	C20H42	000112-95-8	59
4	Undecane, 3-methyl-	170	C12H26	001002-43-3	59
5	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	58





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

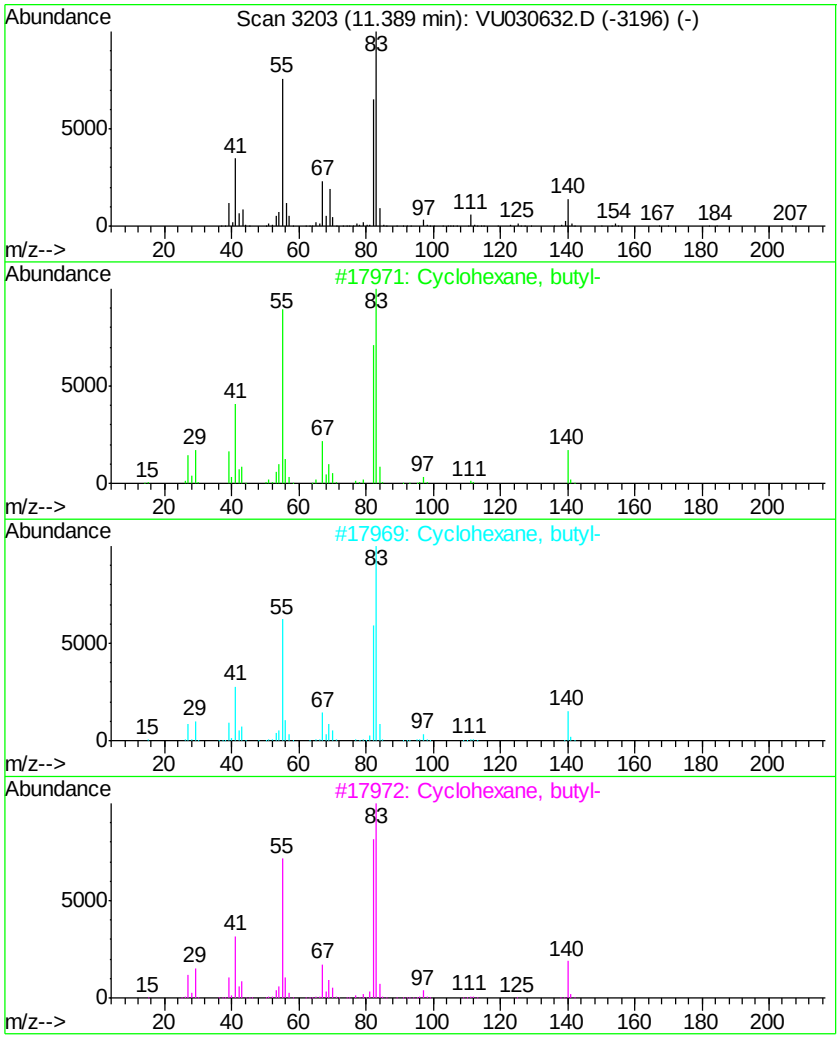
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

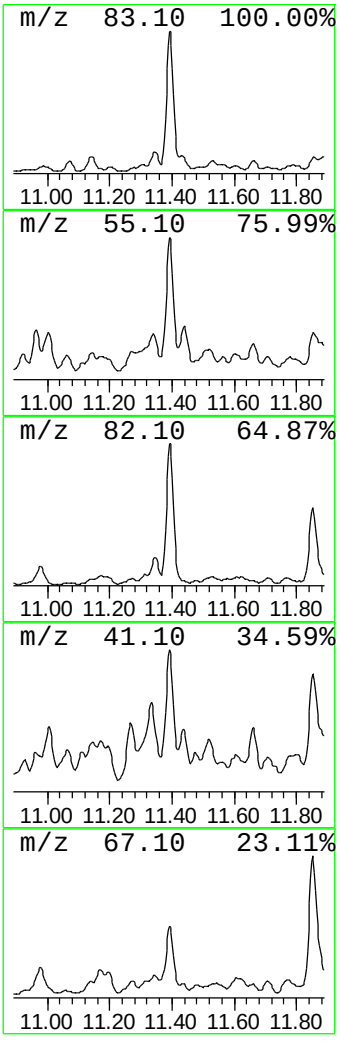
****

Peak Number 32 (DEL) Alkane: Cyclic11.39 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.39	53.90 ug/L	1778520	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	94
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	90
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	90
4	Cyclohexane, pentyl-	154	C11H22	004292-92-6	87
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	86





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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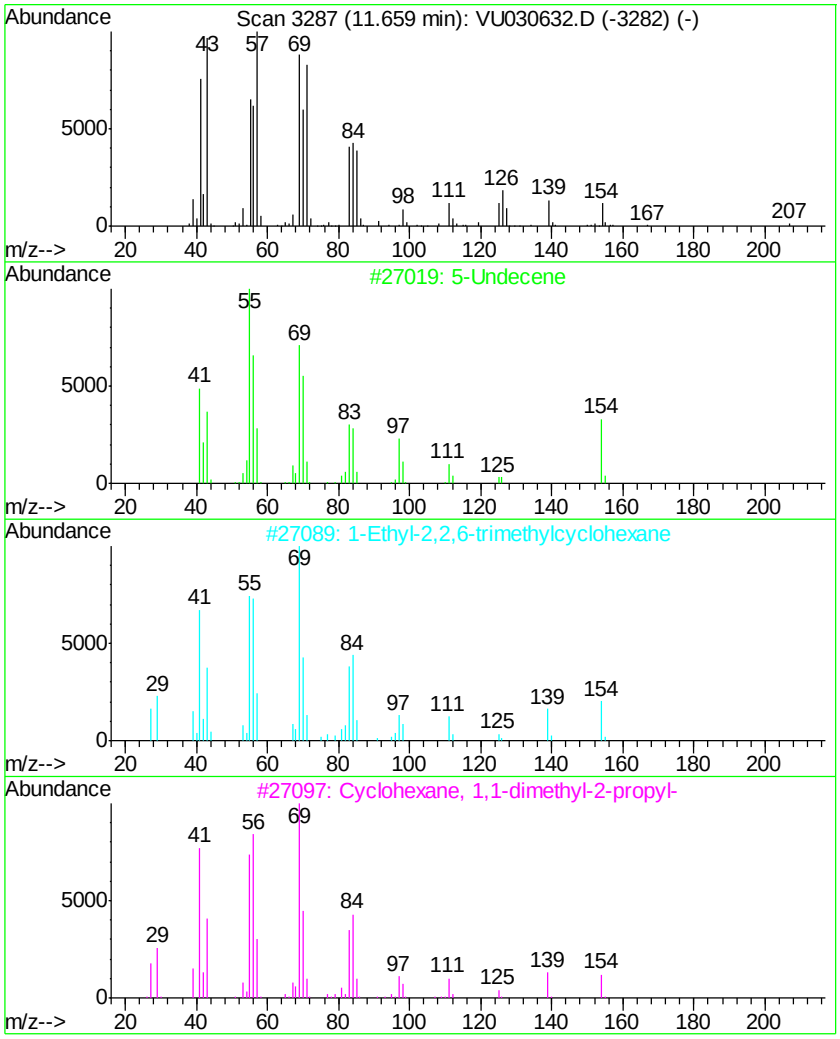
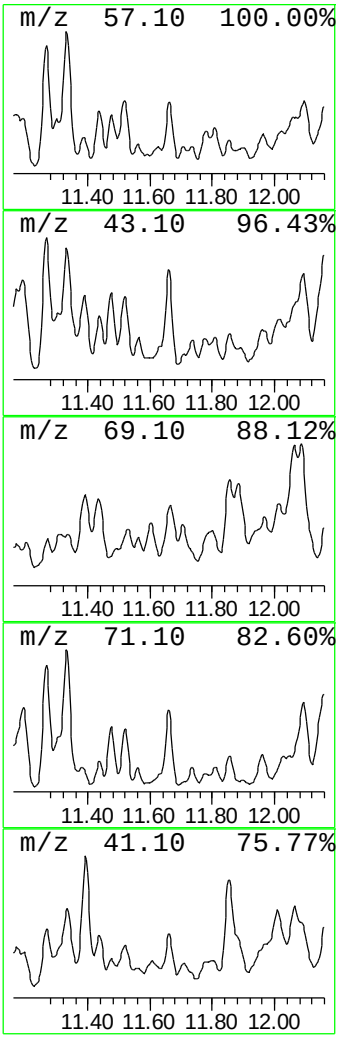
Peak Number 33 (DEL) Alkane: Cyclic11.66 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	18.58 ug/L	613264	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Undecene	154	C11H22	004941-53-1	62
2	1-Ethyl-2,2,6-trimethylcyclohexane	154	C11H22	071186-27-1	58
3	Cyclohexane, 1,1-dimethyl-2-propyl-	154	C11H22	081983-71-3	52
4	3-Undecene, (E)-	154	C11H22	001002-68-2	46
5	Cyclopentane, hexyl-	154	C11H22	004457-00-5	41





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

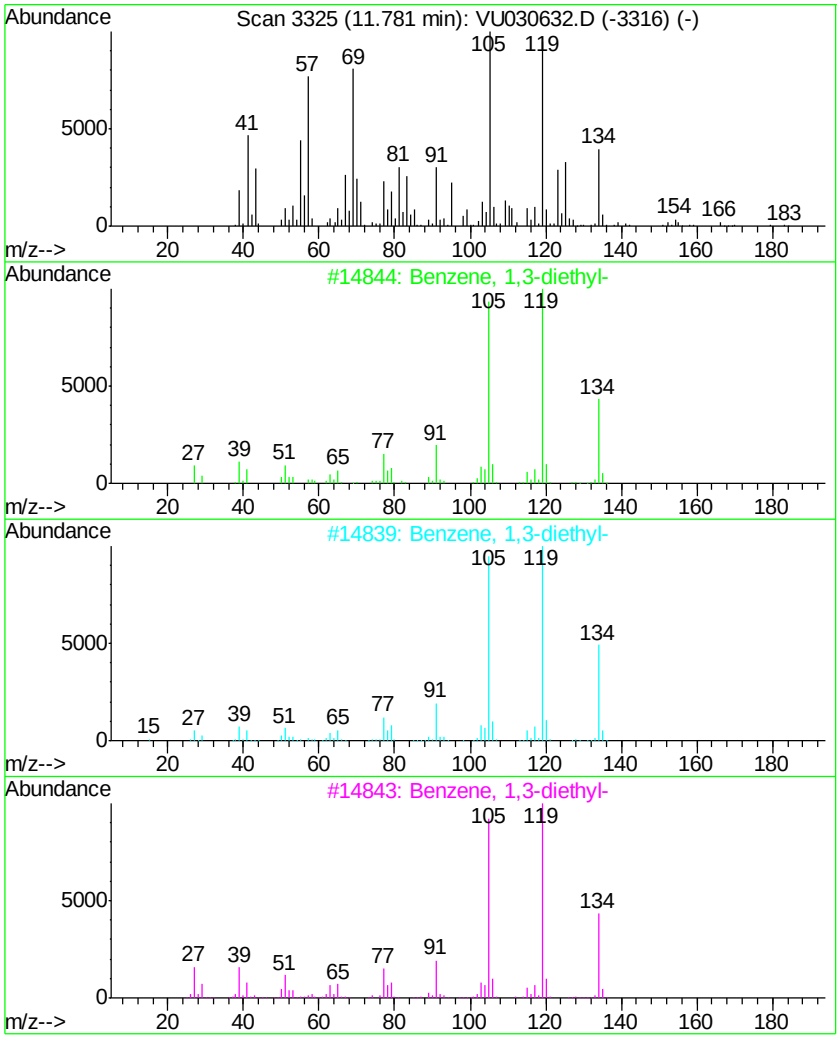
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

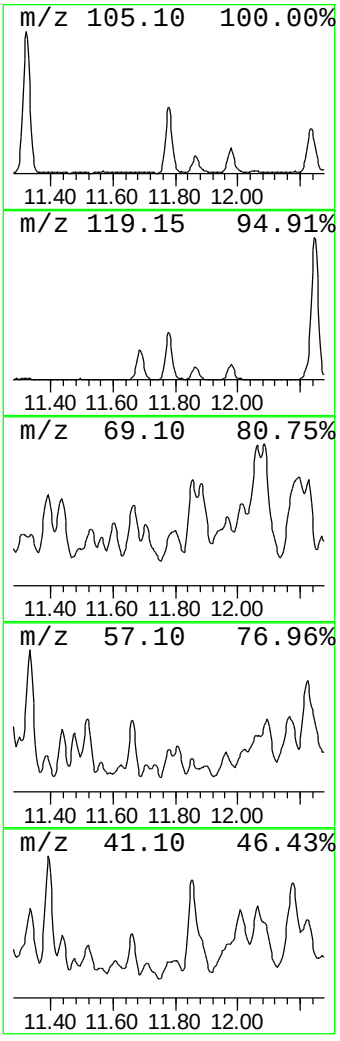
****

Peak Number 34 Benzene, 1,3-diethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	25.64 ug/L	846066	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	86
2	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	81
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	80
4	Ethanone, 1-(4-methylphenyl)-	134	C9H10O	000122-00-9	42
5	o-Cymene	134	C10H14	000527-84-4	42





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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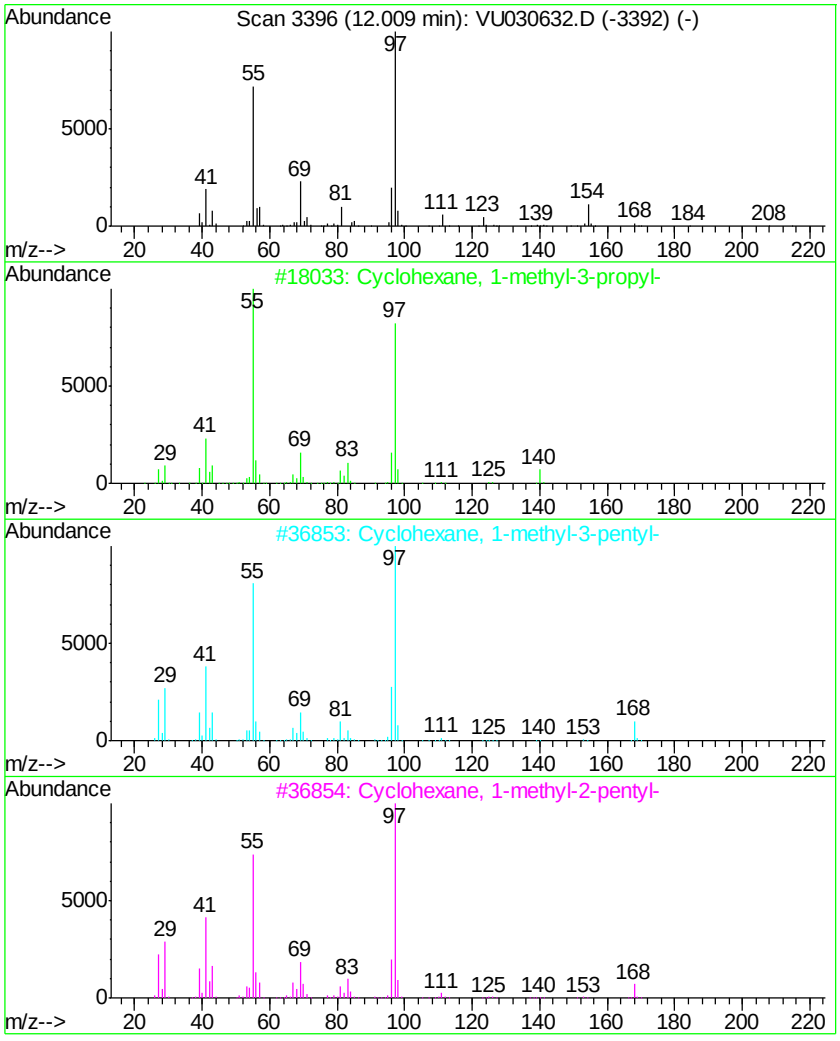
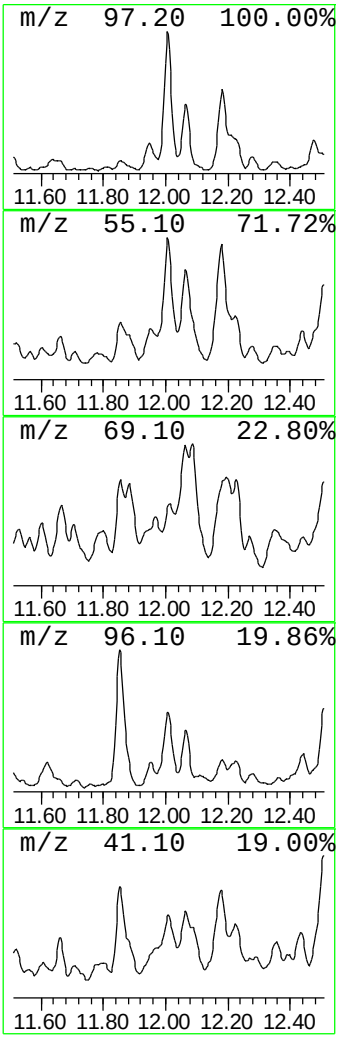
Peak Number 35 (DEL) Alkane: Cyclic12.01 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	20.18 ug/L	665778	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-3-propyl-	140	C10H20	004291-80-9	72
2	Cyclohexane, 1-methyl-3-pentyl-	168	C12H24	054411-02-8	64
3	Cyclohexane, 1-methyl-2-pentyl-	168	C12H24	054411-01-7	64
4	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	59
5	Hept-2-ene, 2,4,4,6-tetramethyl-	154	C11H22	103982-58-7	58





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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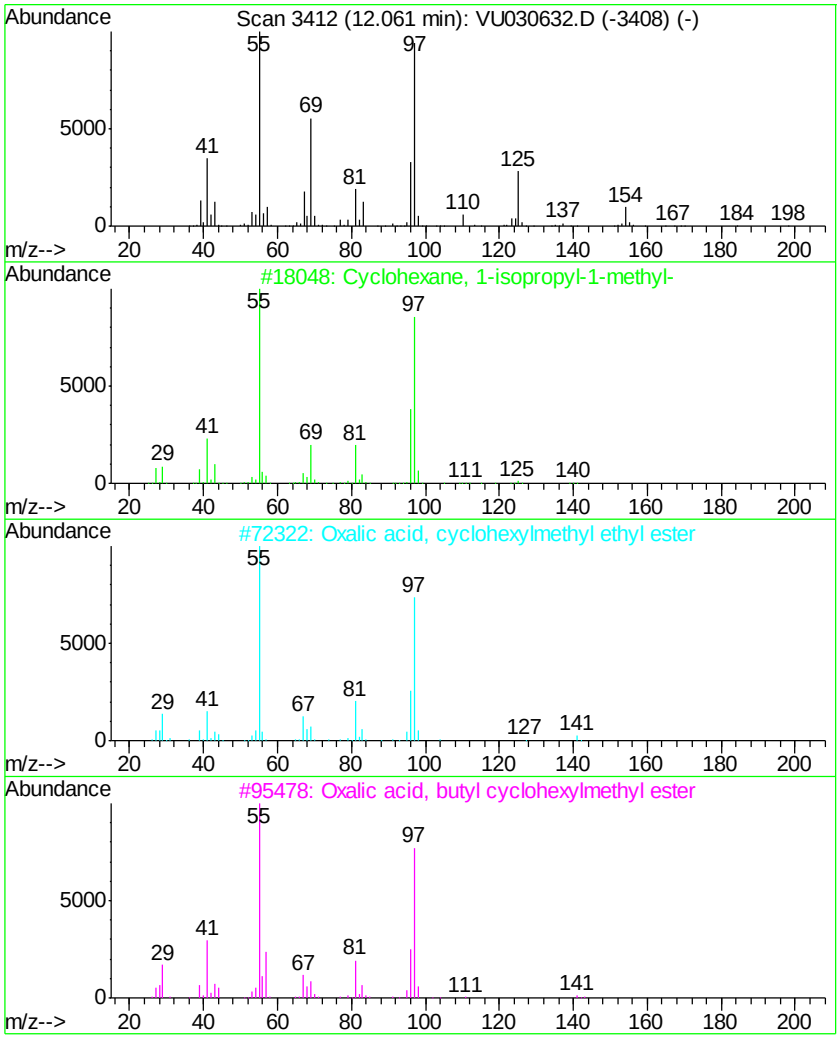
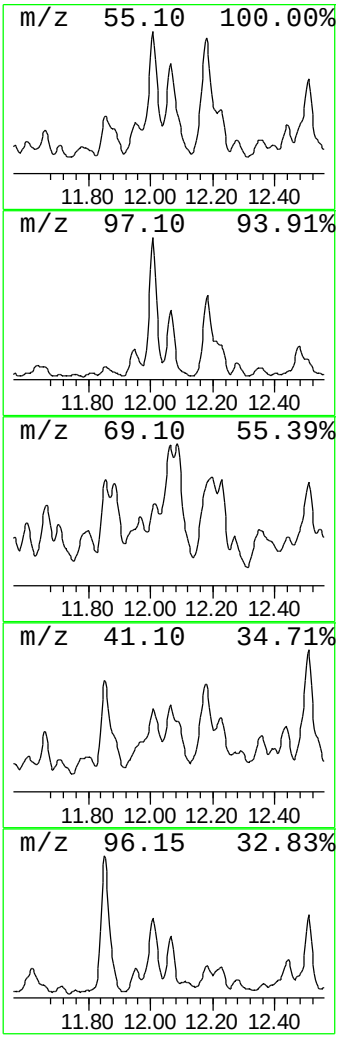
Peak Number 36 (DEL) Alkane: Cyclic12.06 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	63.10 ug/L	2082220	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-isopropyl-1-methyl-	140	C10H20	016580-26-0	64
2	Oxalic acid, cyclohexylmethyl et...	214	C11H18O4	1000309-68-0	59
3	Oxalic acid, butyl cyclohexylmet...	242	C13H22O4	1000309-68-2	59
4	m-Menthane, (1S,3S)-(+)-	140	C10H20	013837-67-7	59
5	Oxalic acid, di(cyclohexylmethyl...	282	C16H26O4	1000309-68-5	59





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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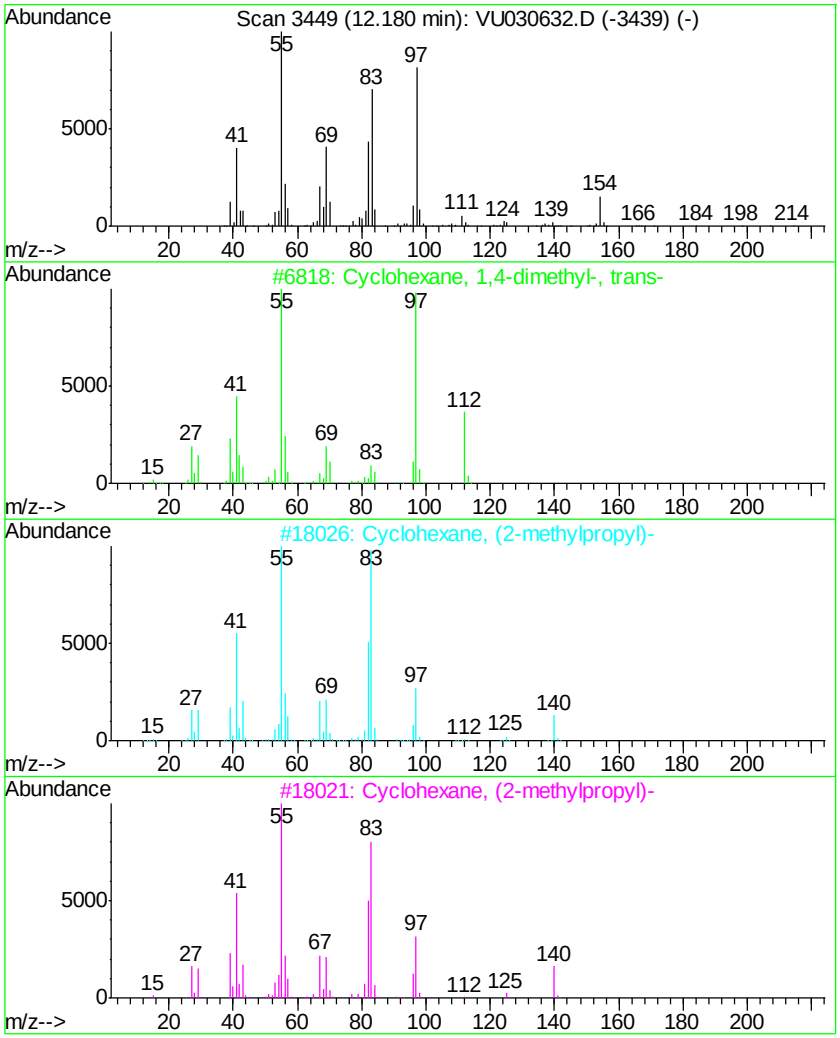
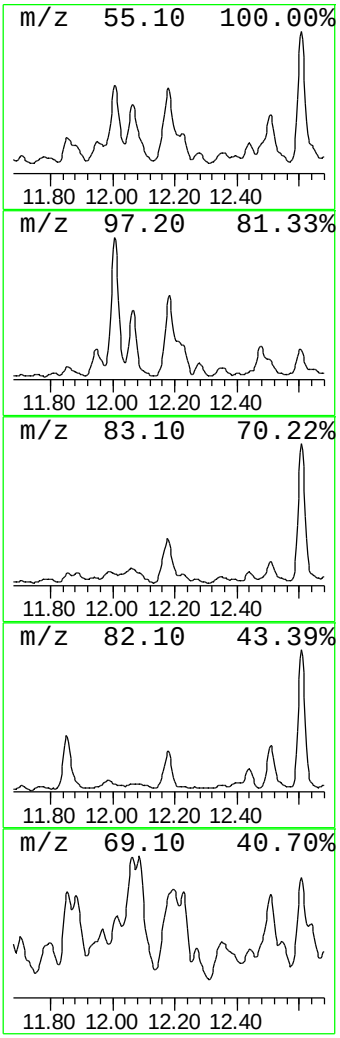
Peak Number 37 (DEL) Alkane: Cyclic12.18 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	51.70 ug/L	1705980	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	53
2	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	50
3	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	50
4	(2-Methylbutyl)cyclohexane	154	C11H22	054105-77-0	49
5	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-77-7	49





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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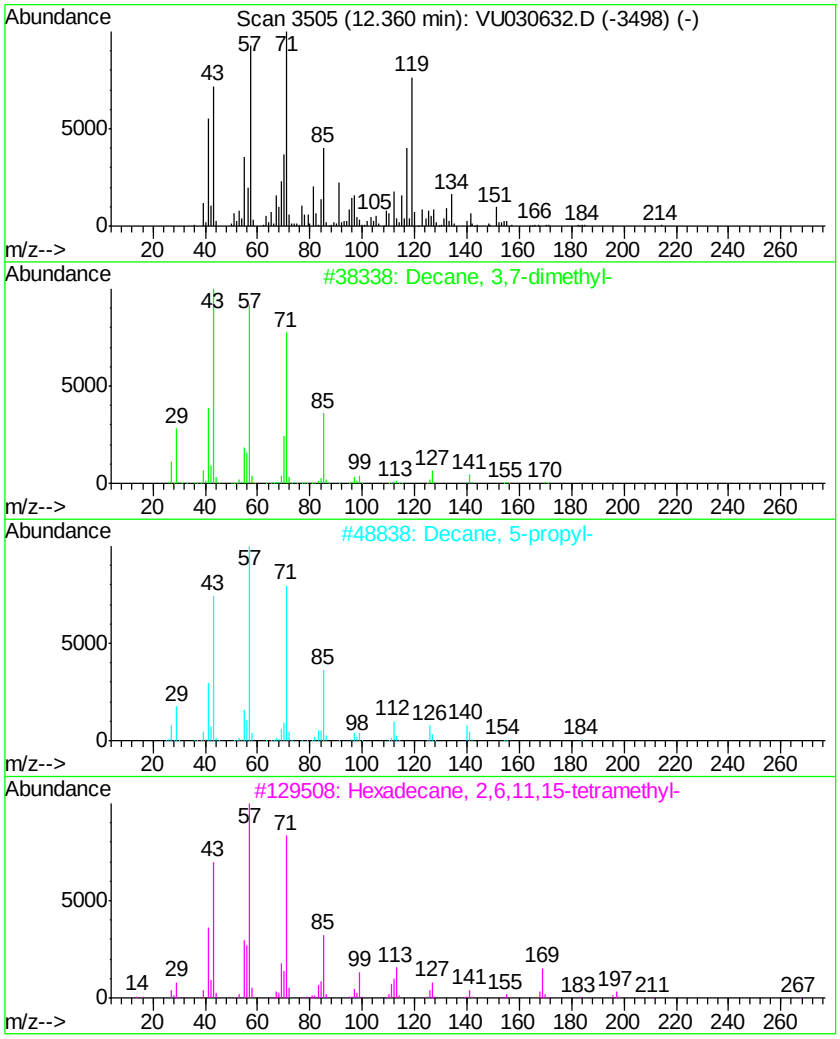
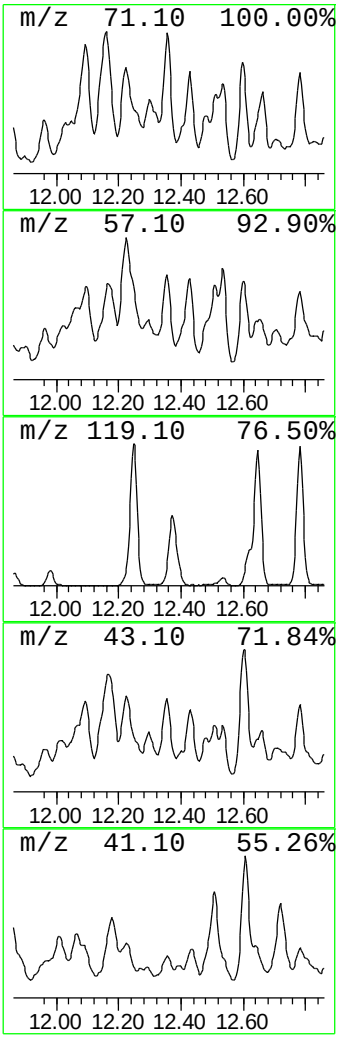
Peak Number 38 (DEL) Alkane: Straight-Chai... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	13.83 ug/L	456229	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	50
2	Decane, 5-propyl-	184	C13H28	017312-62-8	45
3	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	43
4	Dodecane, 4-methyl-	184	C13H28	006117-97-1	38
5	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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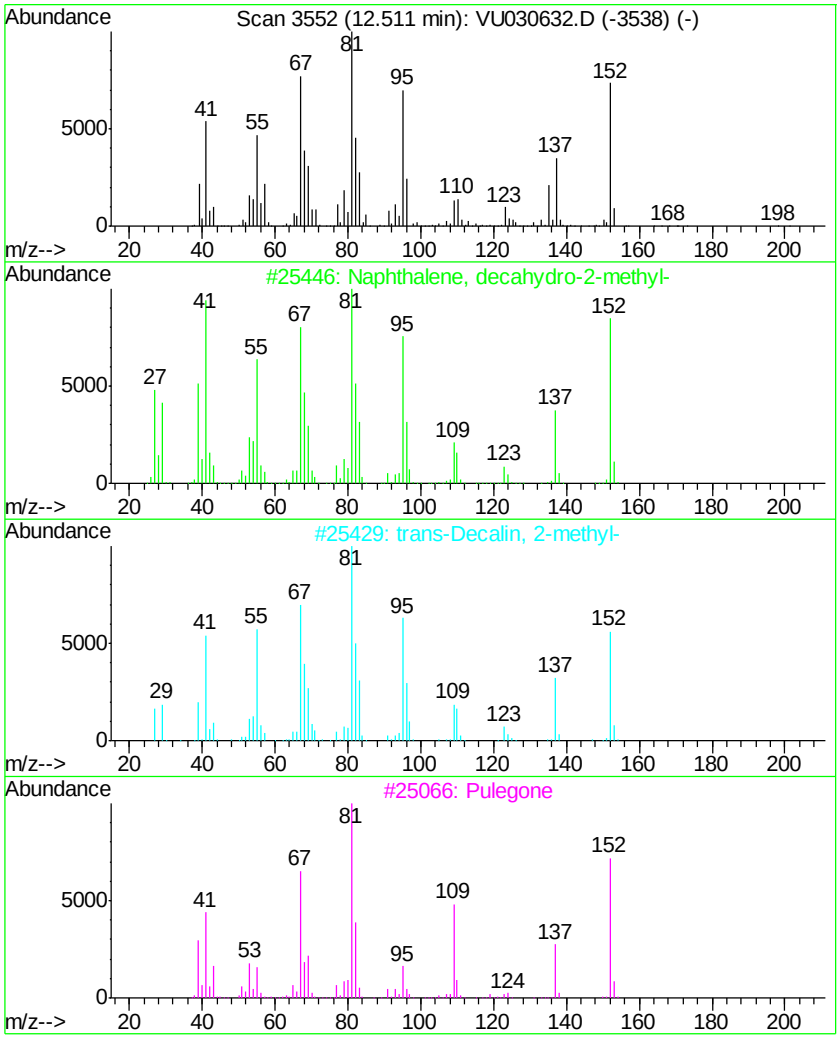
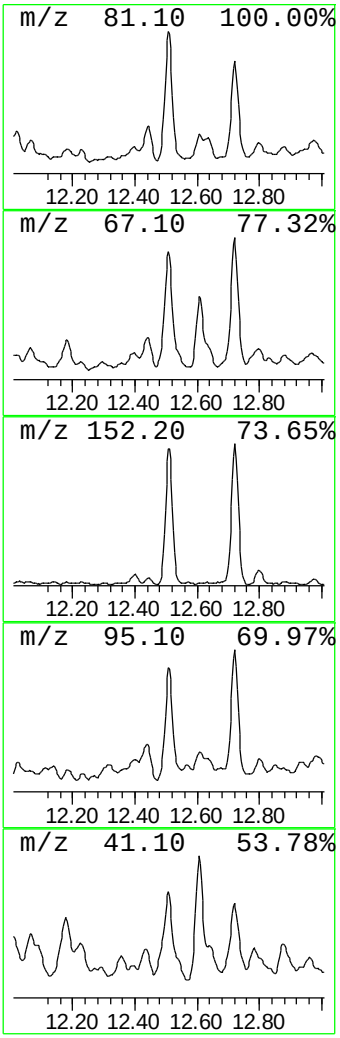
Peak Number 39 Naphthalene, decahydro-2-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	143.62 ug/L	4739430	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	95
3	Pulegone	152	C10H16O	000089-82-7	89
4	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	68
5	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

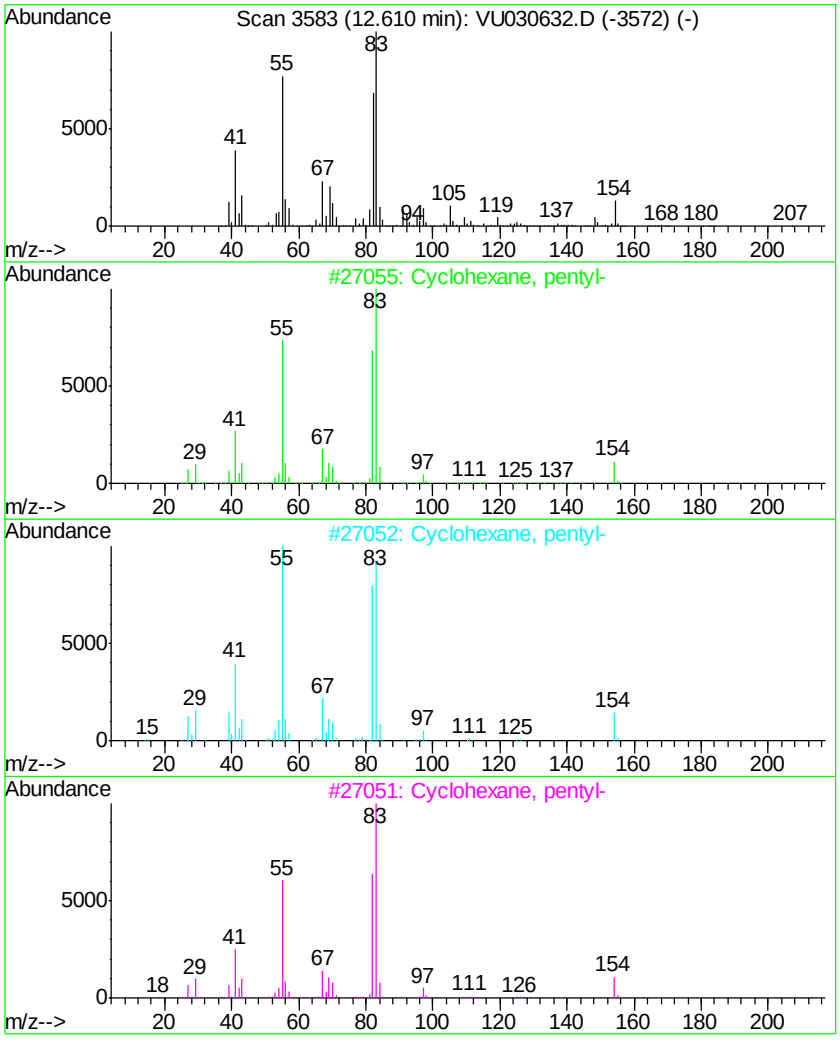
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

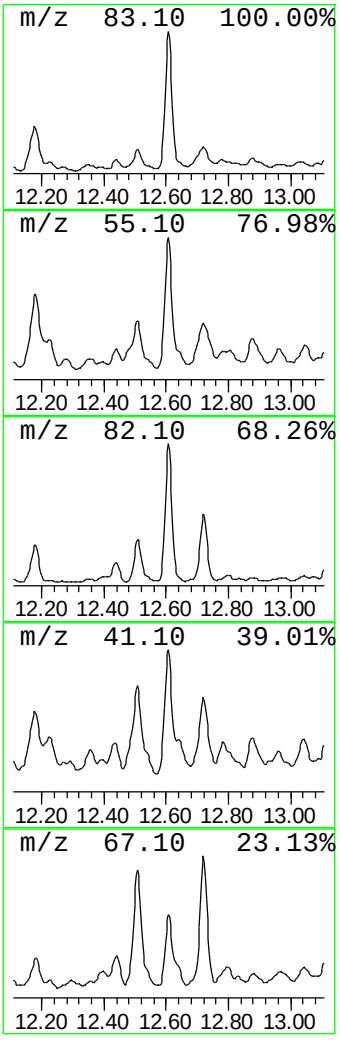
****

Peak Number 40 (DEL) Alkane: Cyclic12.61 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	117.04 ug/L	3862090	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, pentyl-	154	C11H22	004292-92-6	90
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	90
3	Cyclohexane, pentyl-	154	C11H22	004292-92-6	87
4	Cyclohexane, (1-ethylpropyl)-	154	C11H22	026321-98-2	80
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	74





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

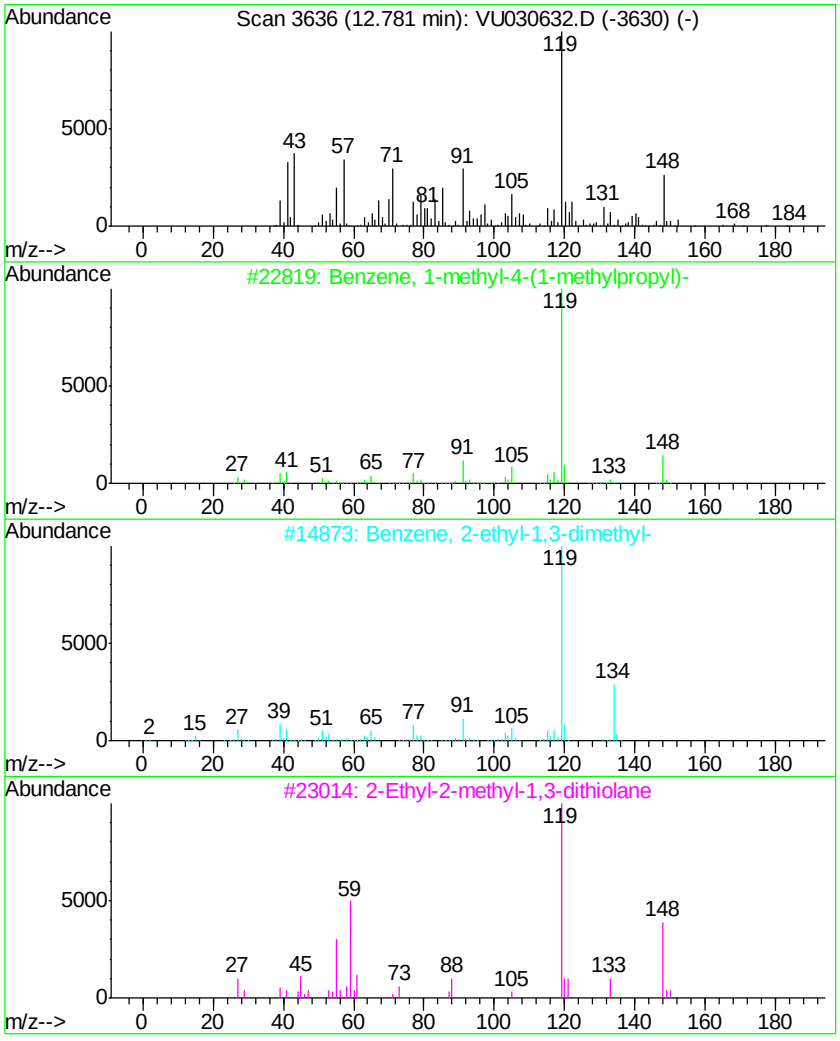
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

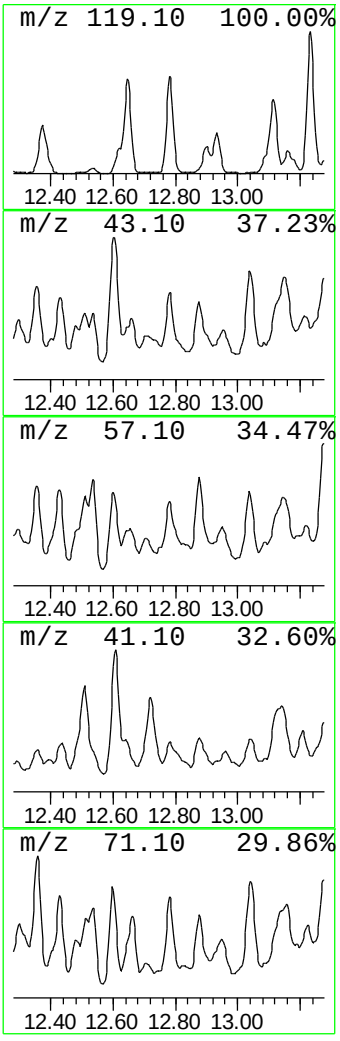
****

Peak Number 42 Benzene, 1-methyl-4-(1-meth... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	46.58 ug/L	1537140	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	55
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	46
3	2-Ethyl-2-methyl-1,3-dithiolane	148	C6H12S2	006008-81-7	46
4	4'-Methylpropiophenone	148	C10H12O	005337-93-9	46
5	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

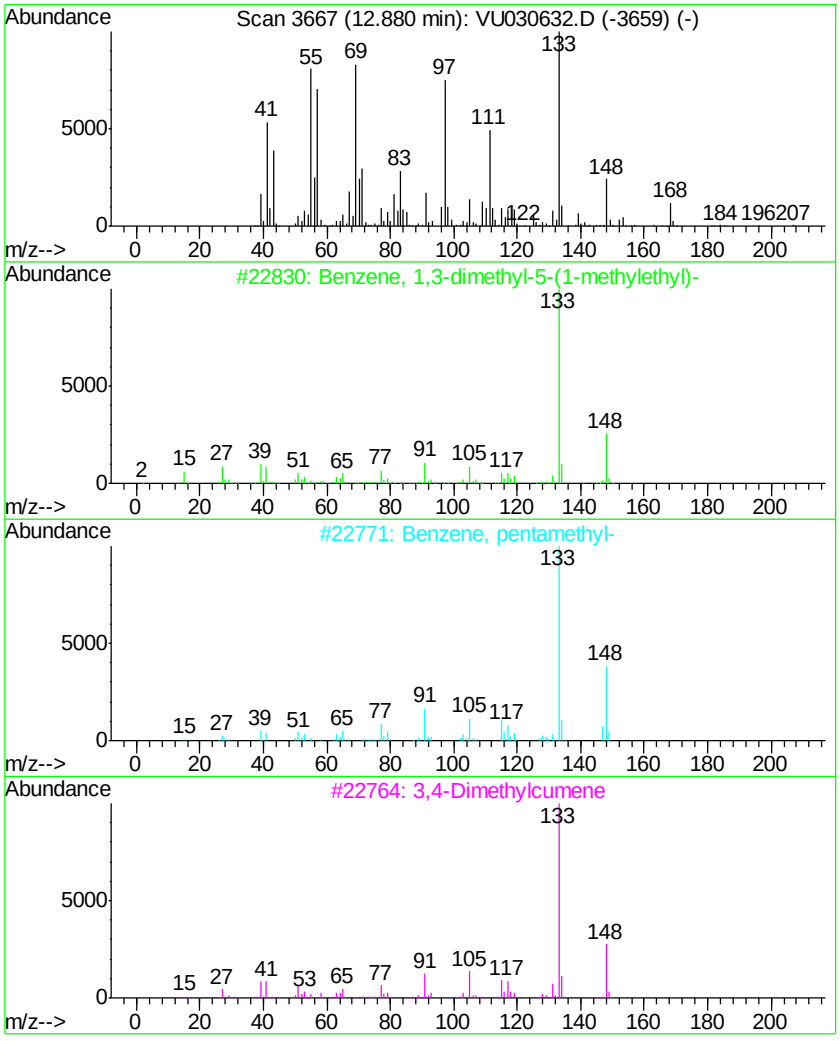
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

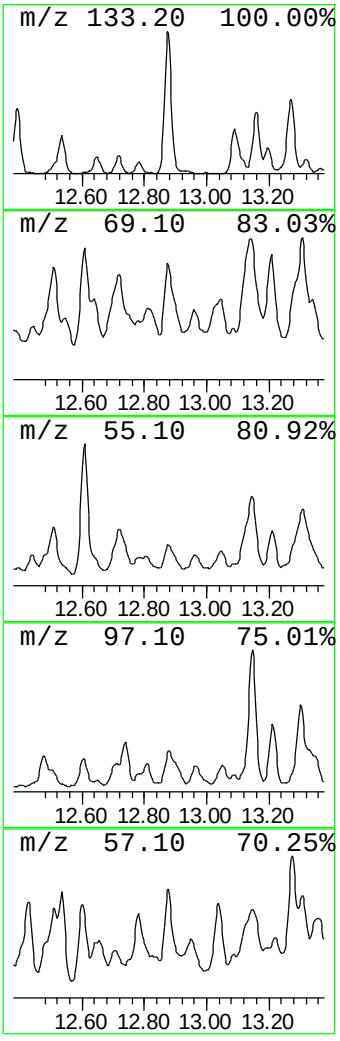
****

Peak Number 43 unknown-03 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.88	39.02 ug/L	1287670	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	35
2	Benzene, pentamethyl-	148	C11H16	000700-12-9	35
3	3,4-Dimethylcumene	148	C11H16	1000370-34-1	35
4	4-tert-Butyltoluene	148	C11H16	000098-51-1	35
5	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	35





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

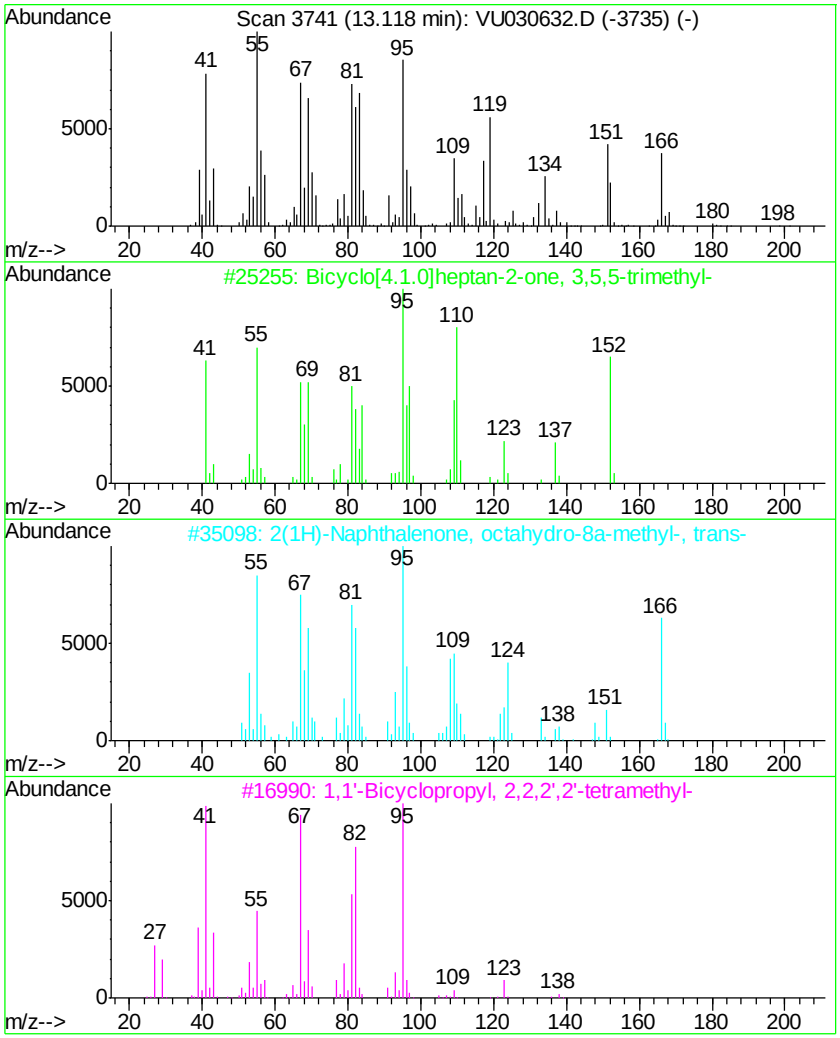
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

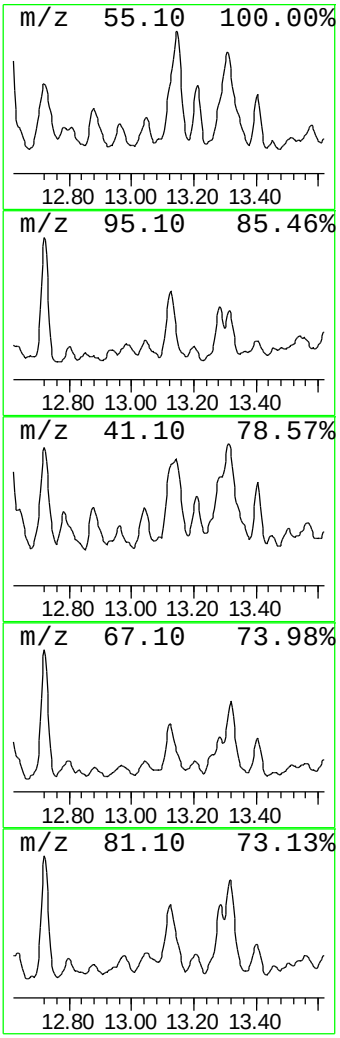
****

Peak Number 44 Bicyclo[4.1.0]heptan-2-one,... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	52.70 ug/L	1739080	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[4.1.0]heptan-2-one, 3,5,...	152	C10H16O	029750-24-1	50
2	2(1H)-Naphthalenone, octahydro-8...	166	C11H18O	001197-95-1	49
3	1,1'-Bicyclopropyl, 2,2,2',2'-te...	138	C10H18	068998-20-9	38
4	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	38
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	38





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Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

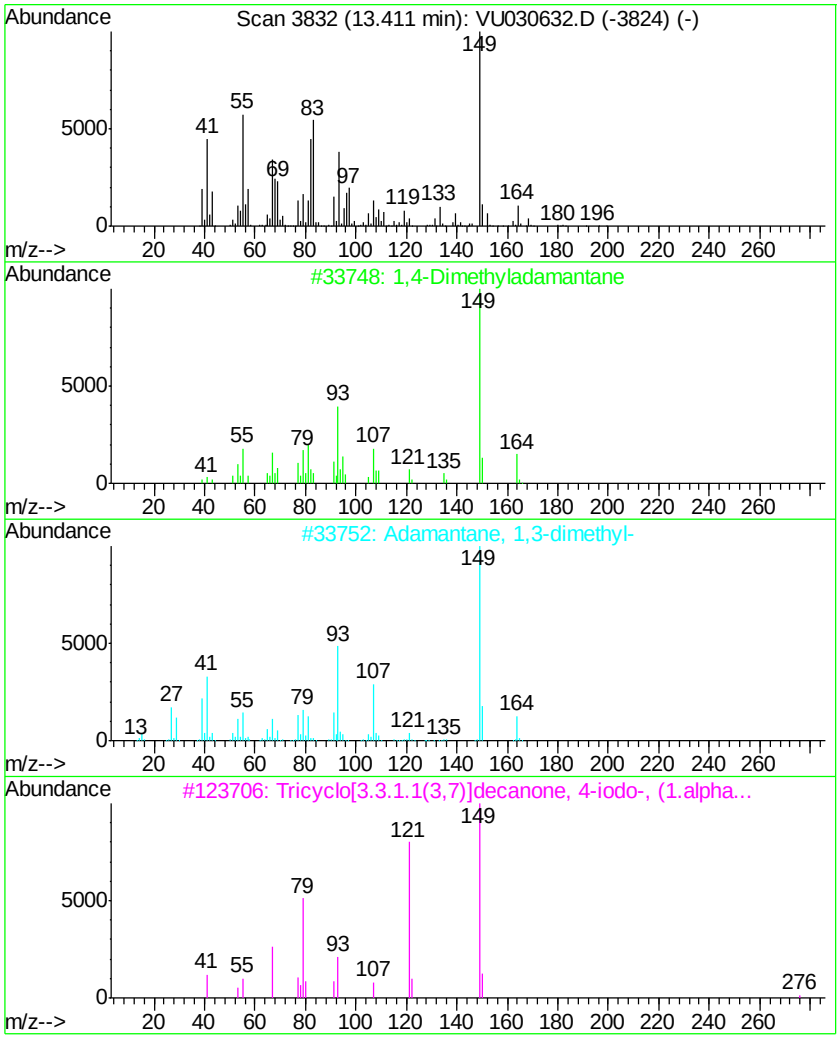
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

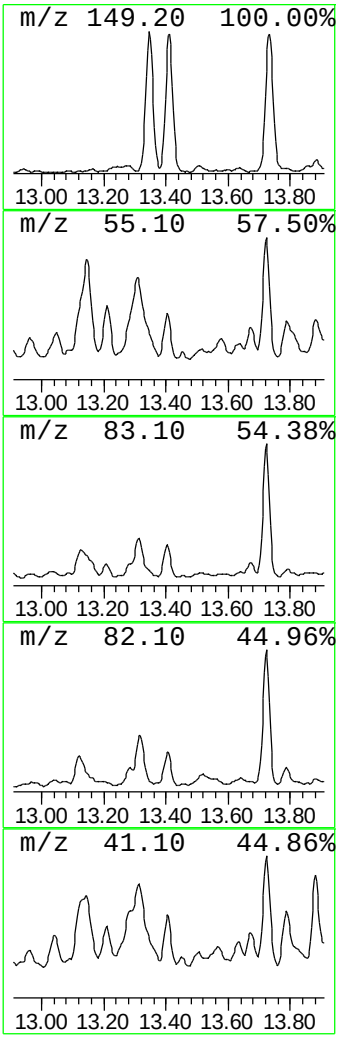
****

Peak Number 45 unknown-04 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.41	31.36 ug/L	1034900	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyladamantane	164	C12H20	024145-88-8	38
2	Adamantane, 1,3-dimethyl-	164	C12H20	000702-79-4	38
3	Tricyclo[3.3.1.1(3,7)]decanone, ...	276	C10H13IO	056781-85-2	35
4	Pyridinium, 1-(acetylamino)-2,6-...	164	C9H12N2O	031020-35-6	27
5	Cyclohexane, 1,1'-methylenebis-	180	C13H24	003178-23-2	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

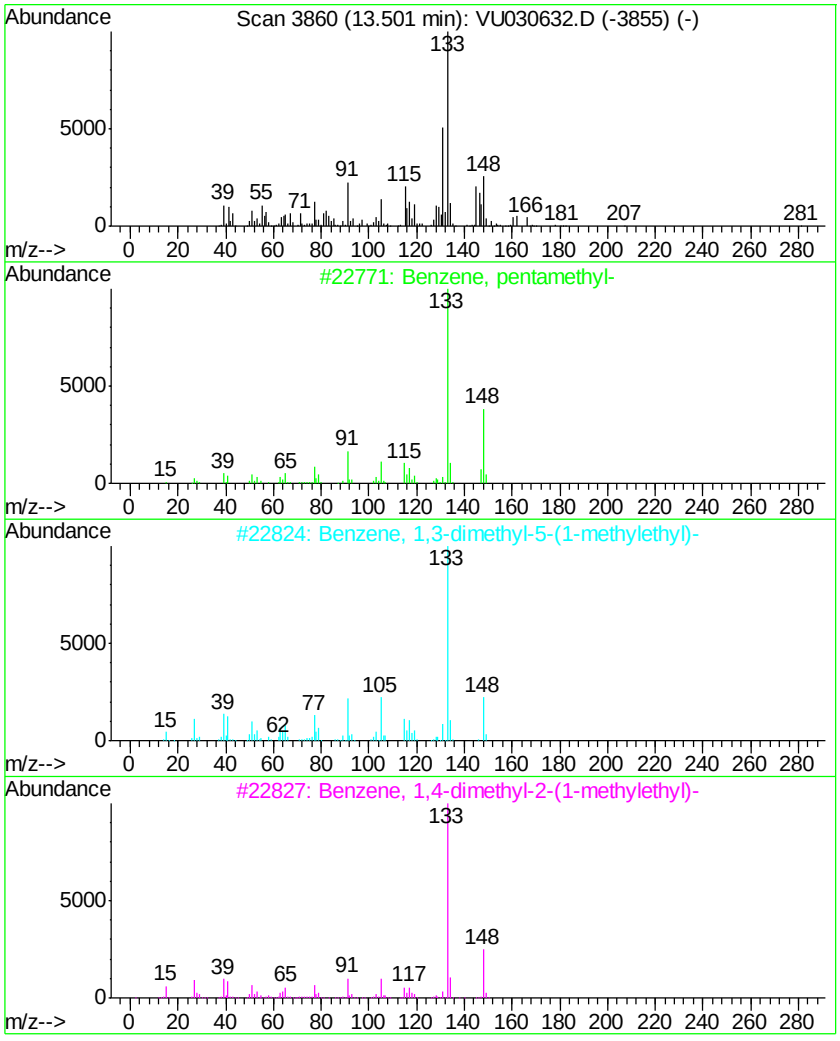
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

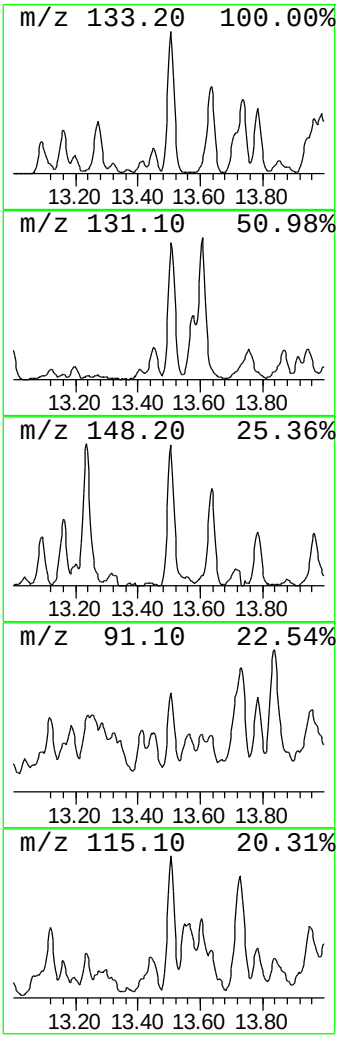
****

Peak Number 46 Benzene, pentamethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	25.63 ug/L	845807	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, pentamethyl-	148	C11H16	000700-12-9	53
2	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	49
3	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	46
4	3,4-Dimethylcumene	148	C11H16	1000370-34-1	46
5	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	46





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

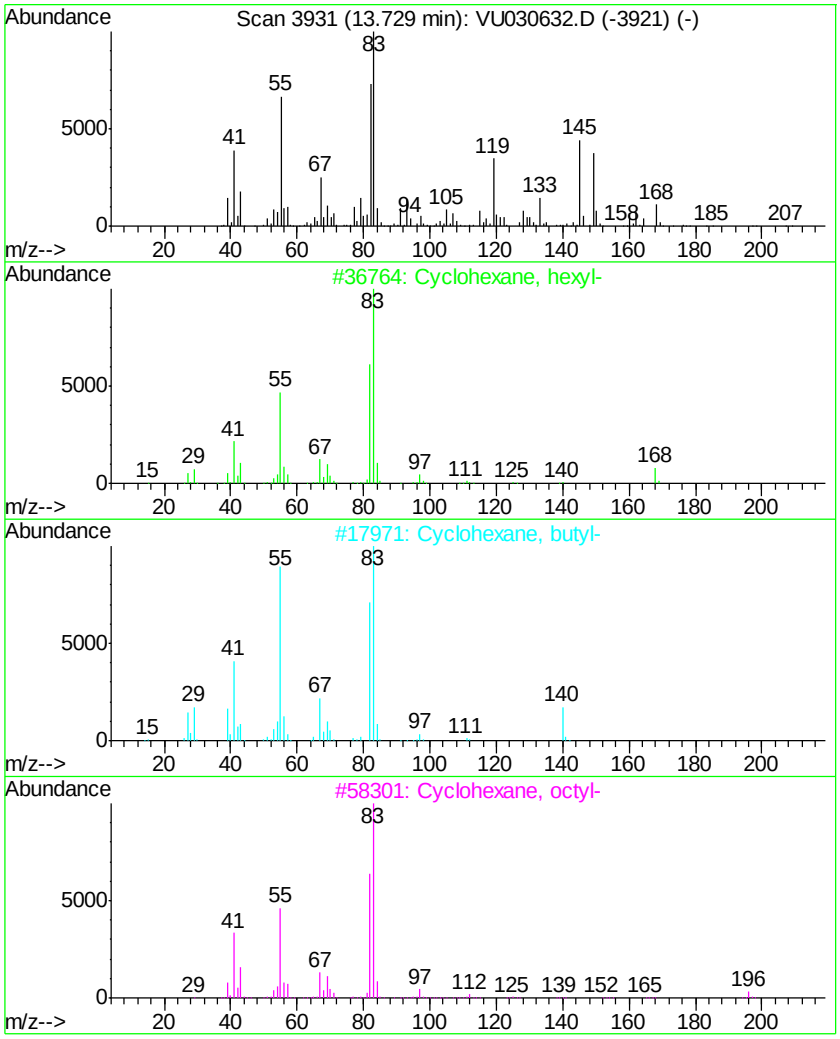
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

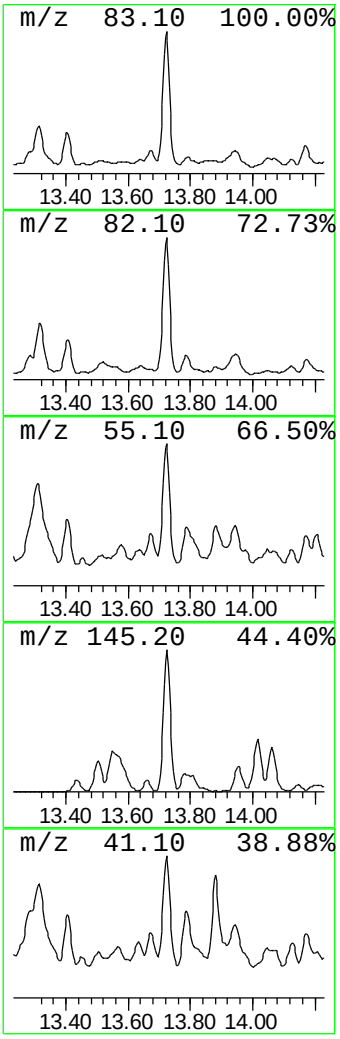
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 47 (DEL) Alkane: Straight-Chai... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	107.92 ug/L	3561280	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, hexyl-	168	C12H24	004292-75-5	55
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	55
3	Cyclohexane, octyl-	196	C14H28	001795-15-9	46
4	Cyclohexane, octyl-	196	C14H28	001795-15-9	46
5	Cyclohexane, hexyl-	168	C12H24	004292-75-5	46





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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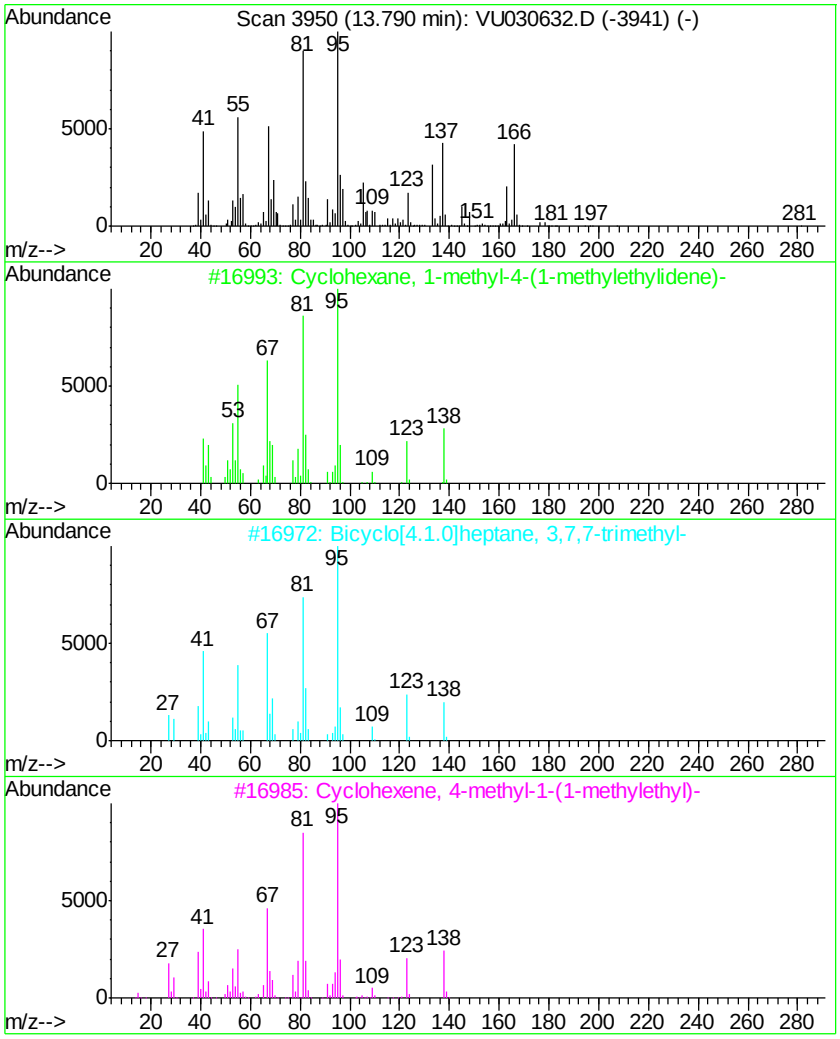
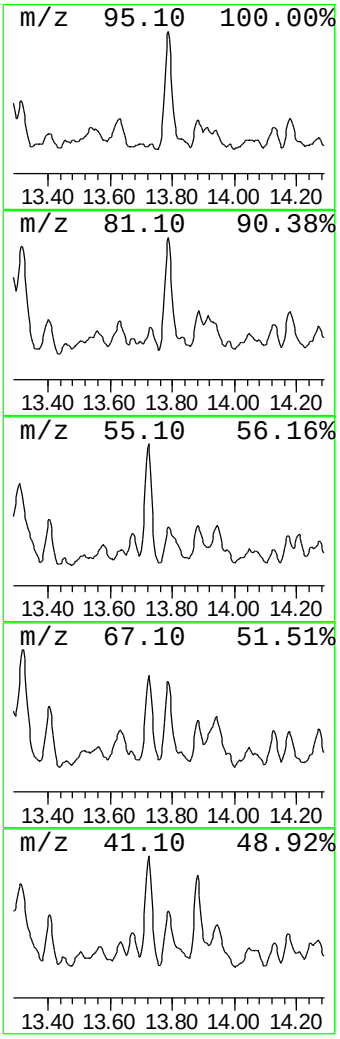
Peak Number 48 Cyclohexane, 1-methyl-4-(1-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	59.79 ug/L	1973050	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	138	C10H18	001124-27-2	78
2	Bicyclo[4.1.0]heptane, 3,7,7-tri...	138	C10H18	000554-59-6	60
3	Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000500-00-5	60
4	Cyclohexene,3-hexyl-	166	C12H22	015232-78-7	50
5	Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000500-00-5	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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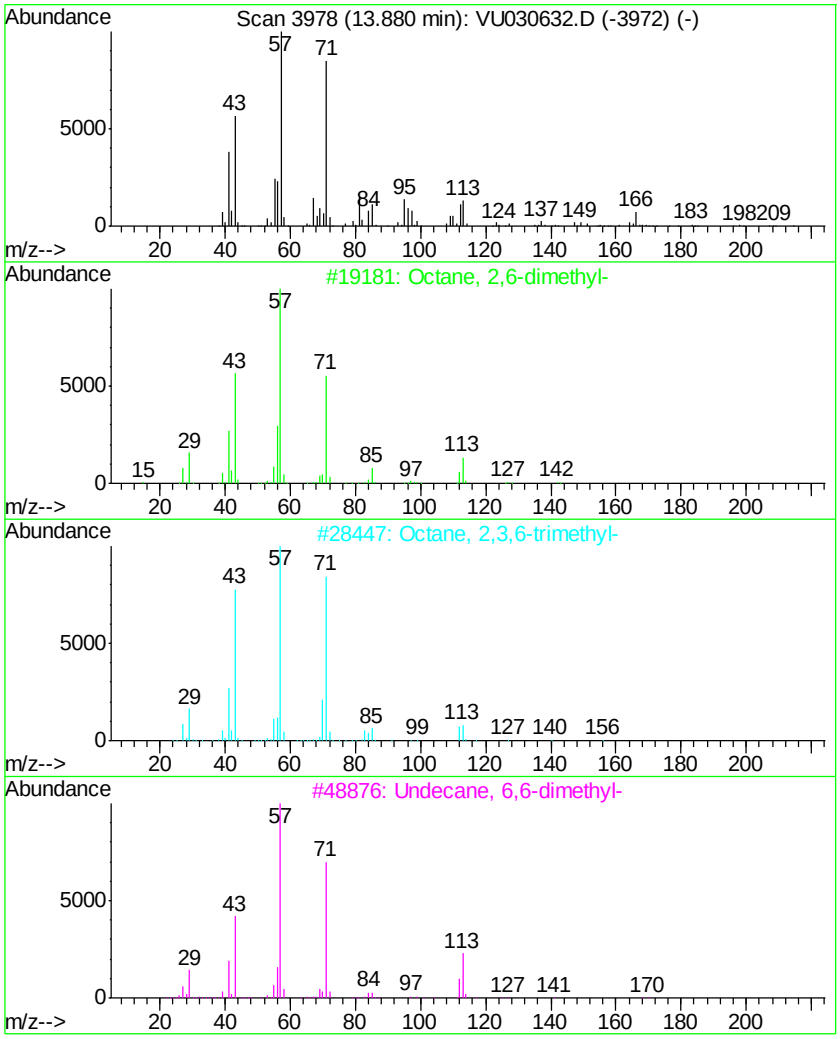
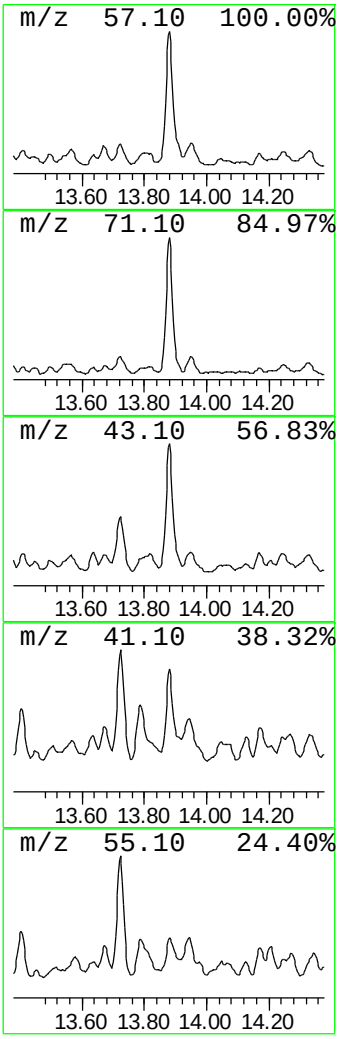
Peak Number 49 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.88	45.61 ug/L	1505030	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	80
2	Octane, 2,3,6-trimethyl-	156	C11H24	062016-33-5	64
3	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	59
4	Sulfurous acid, 2-ethylhexyl pen...	264	C13H28O3S	1000309-18-9	53
5	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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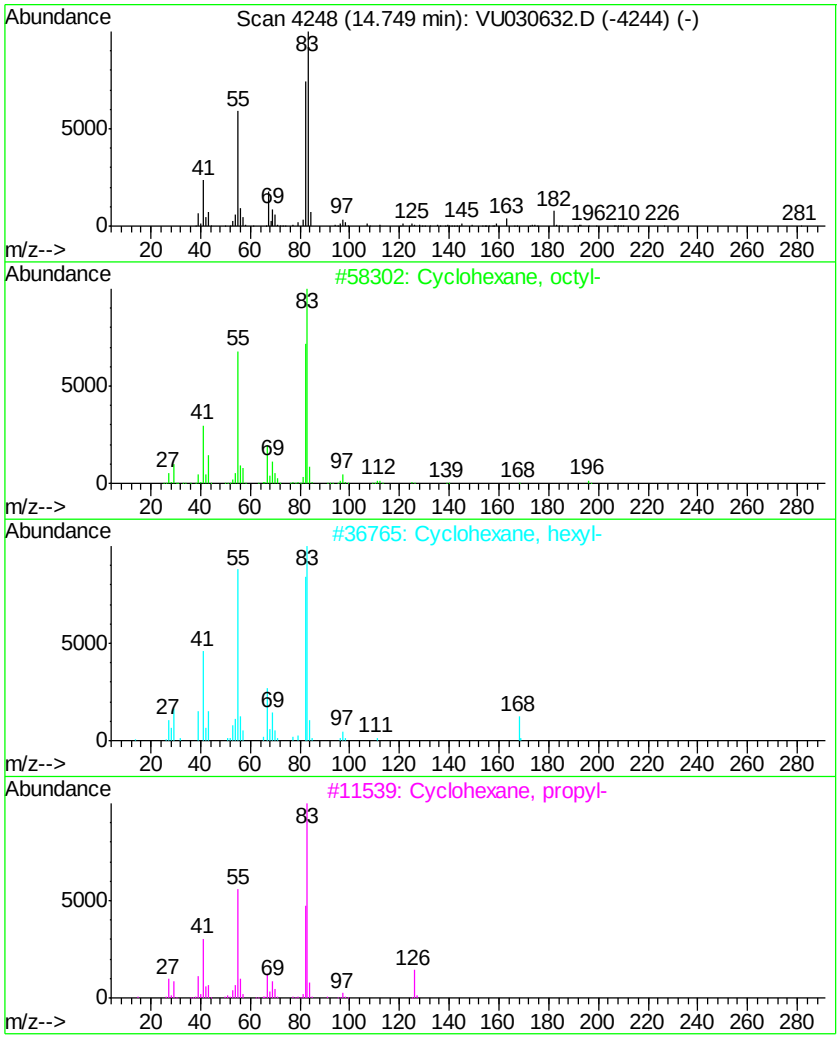
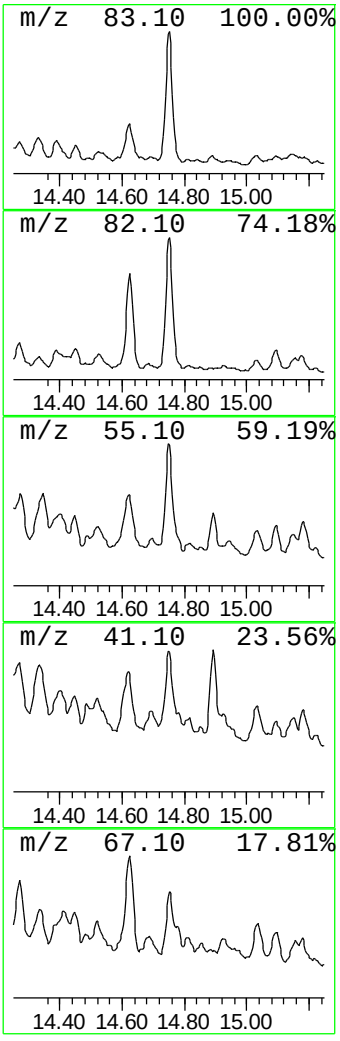
Peak Number 50 (DEL) Alkane: Cyclic14.75 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.75	20.43 ug/L	674261	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, octyl-	196	C14H28	001795-15-9	78
2	Cyclohexane, hexyl-	168	C12H24	004292-75-5	53
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	53
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	53
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

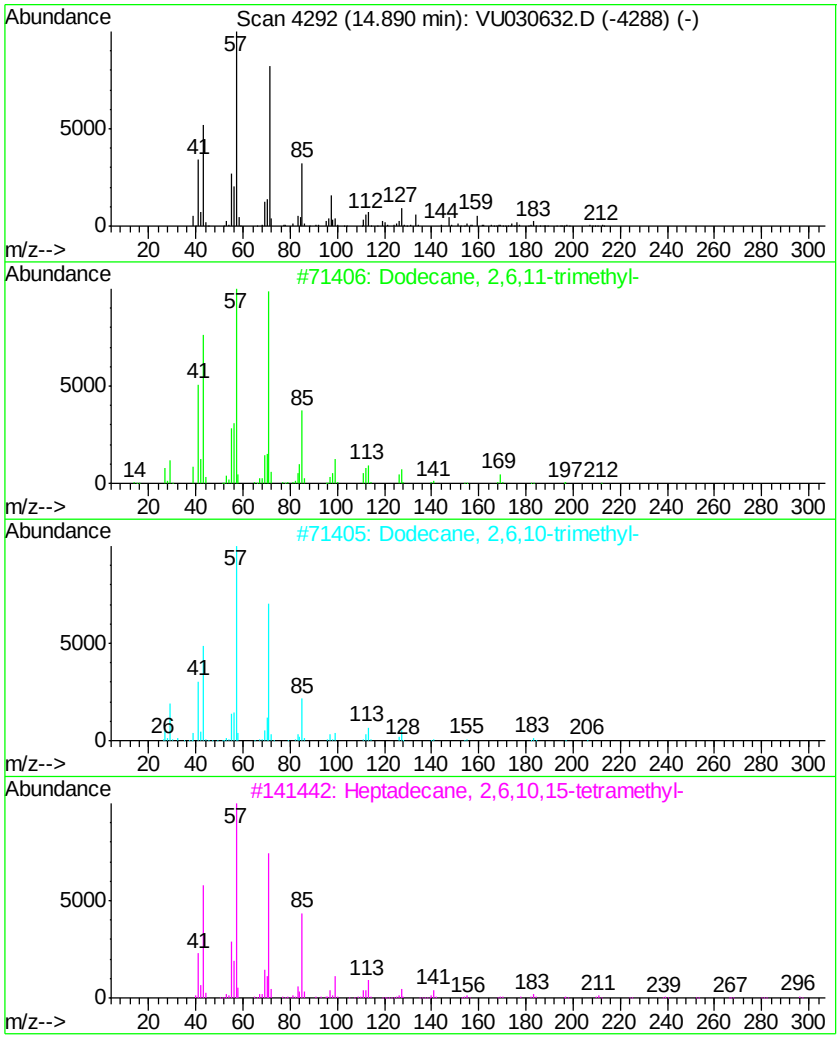
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

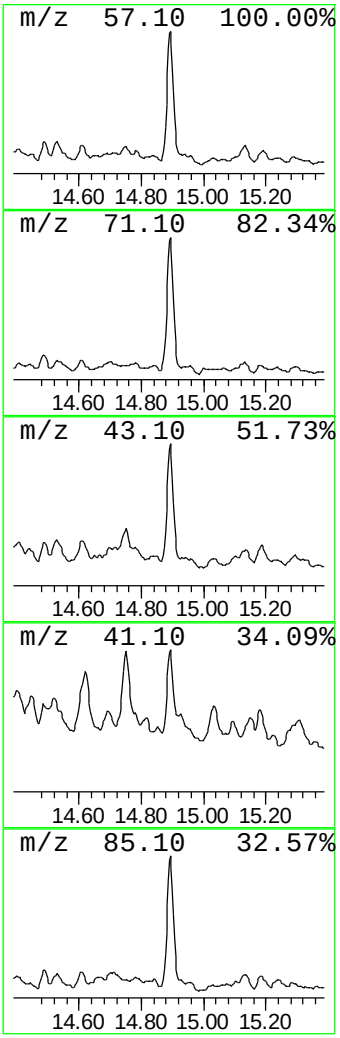
****

Peak Number 51 (DEL) Alkane: Straight-Chai... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	13.68 ug/L	451281	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	89
2	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	80
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	72
4	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	64
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	62





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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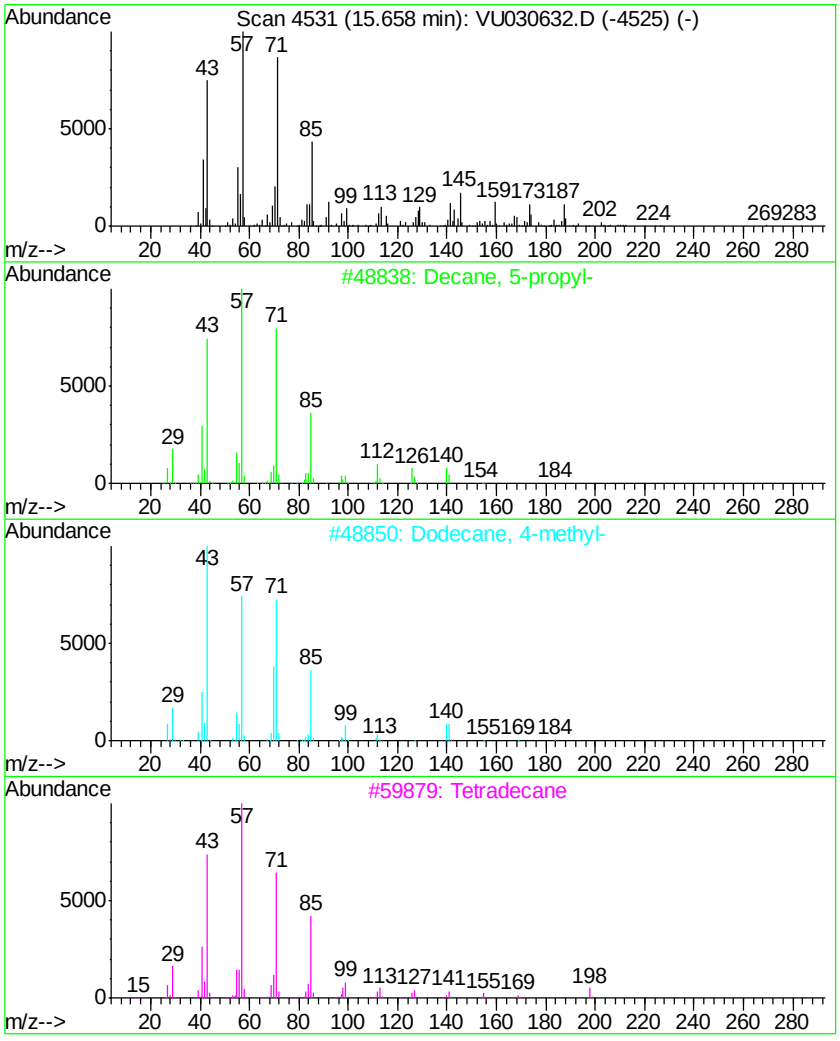
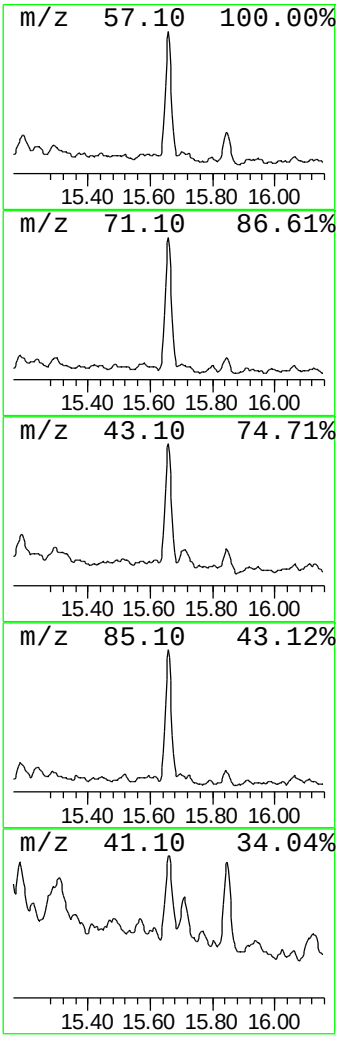
Peak Number 52 (DEL) Alkane: Straight-Chai... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.66	21.56 ug/L	711482	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 5-propyl-	184	C13H28	017312-62-8	64
2	Dodecane, 4-methyl-	184	C13H28	006117-97-1	64
3	Tetradecane	198	C14H30	000629-59-4	58
4	Dodecane, 4-methyl-	184	C13H28	006117-97-1	58
5	Tridecane, 6-propyl-	226	C16H34	055045-10-8	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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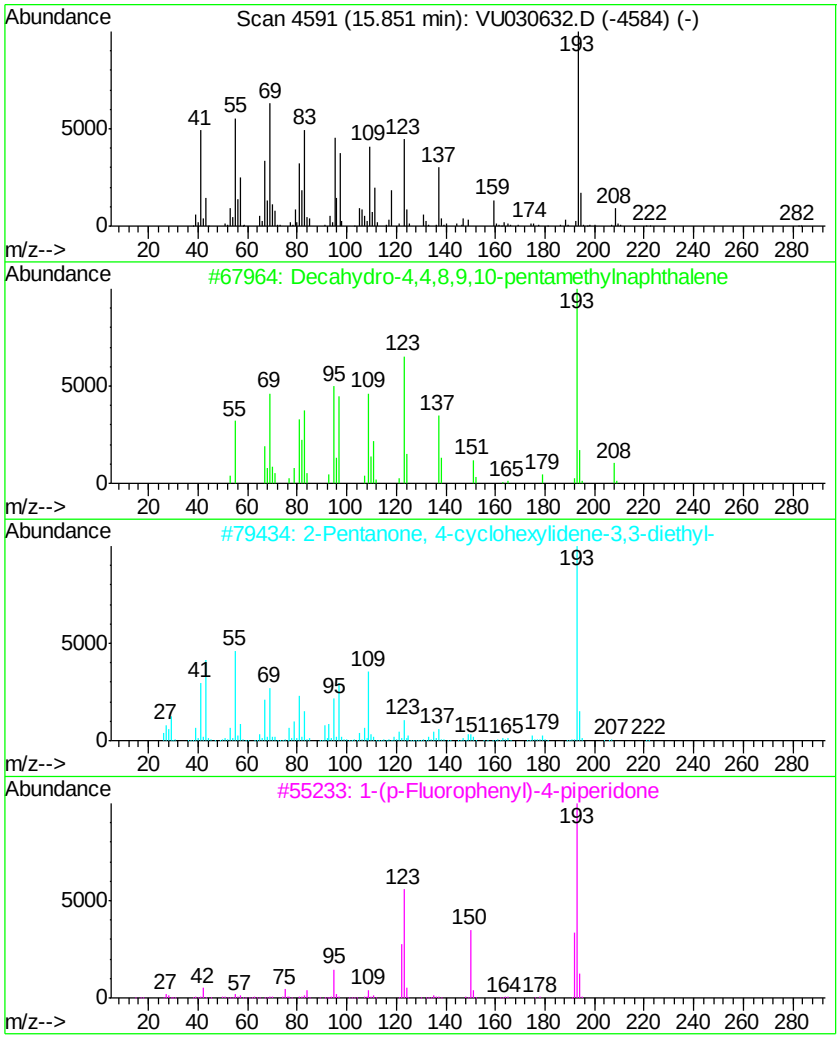
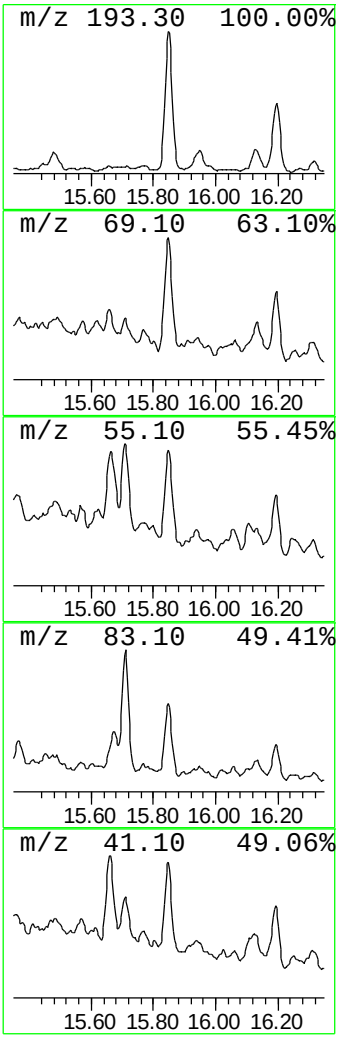
Peak Number 53 Decahydro-4,4,8,9,10-pentam... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.85	21.35 ug/L	704482	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decahydro-4,4,8,9,10-pentamethyl...	208	C15H28	080655-44-3	89
2	2-Pentanone, 4-cyclohexylidene-3...	222	C15H26O	313253-65-5	49
3	1-(p-Fluorophenyl)-4-piperidone	193	C11H12FNO	1000238-56-7	35
4	Silane, chlorodiethylhexyloxy-	222	C10H23ClOSi	1000363-74-4	35
5	1-Hexyl-2-nitrocyclohexane	213	C12H23NO2	118252-04-3	14





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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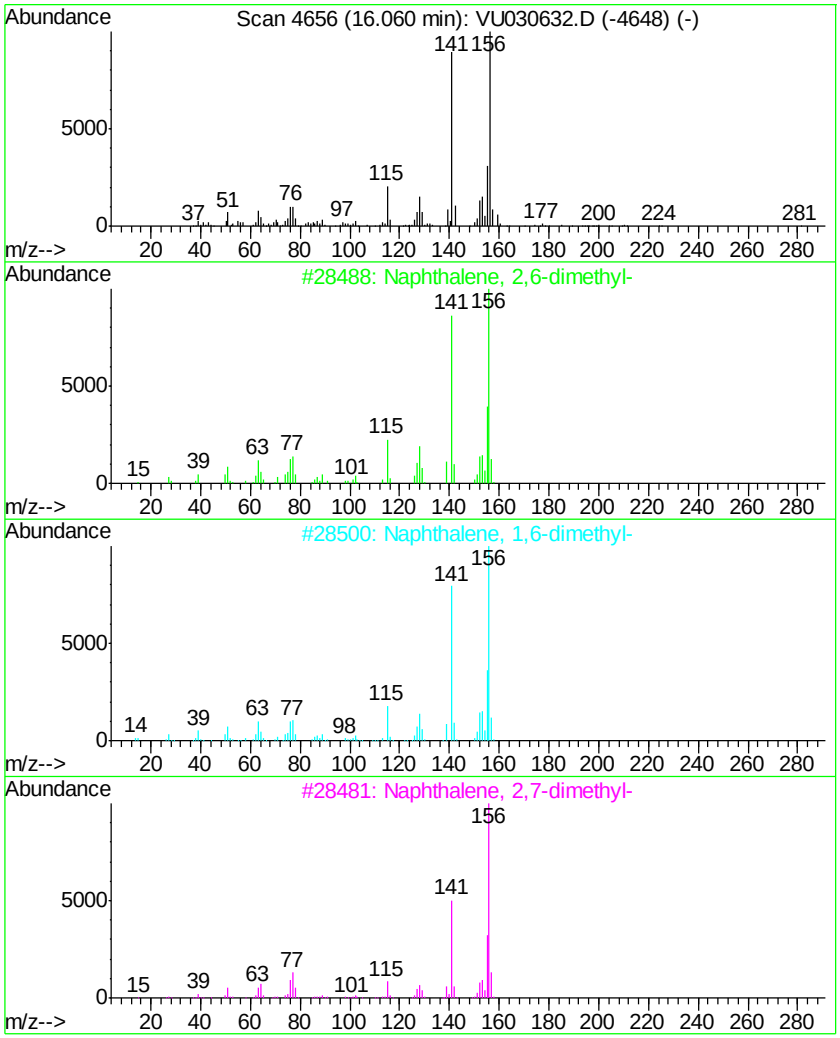
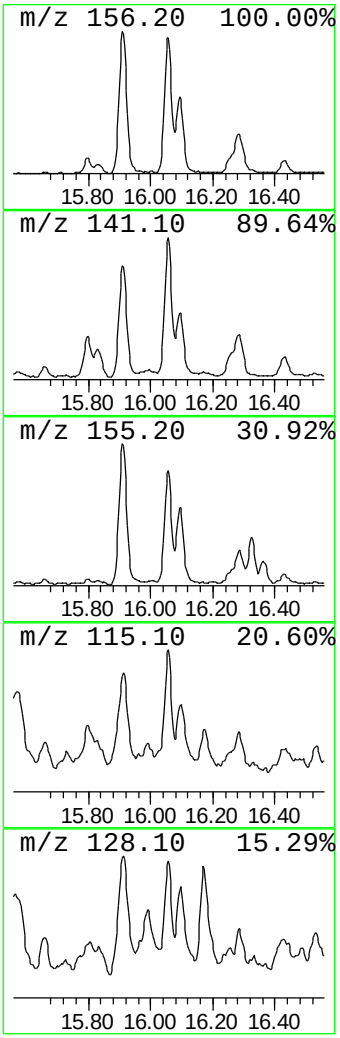
Peak Number 54 Naphthalene, 2,6-dimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.06	19.20 ug/L	633644	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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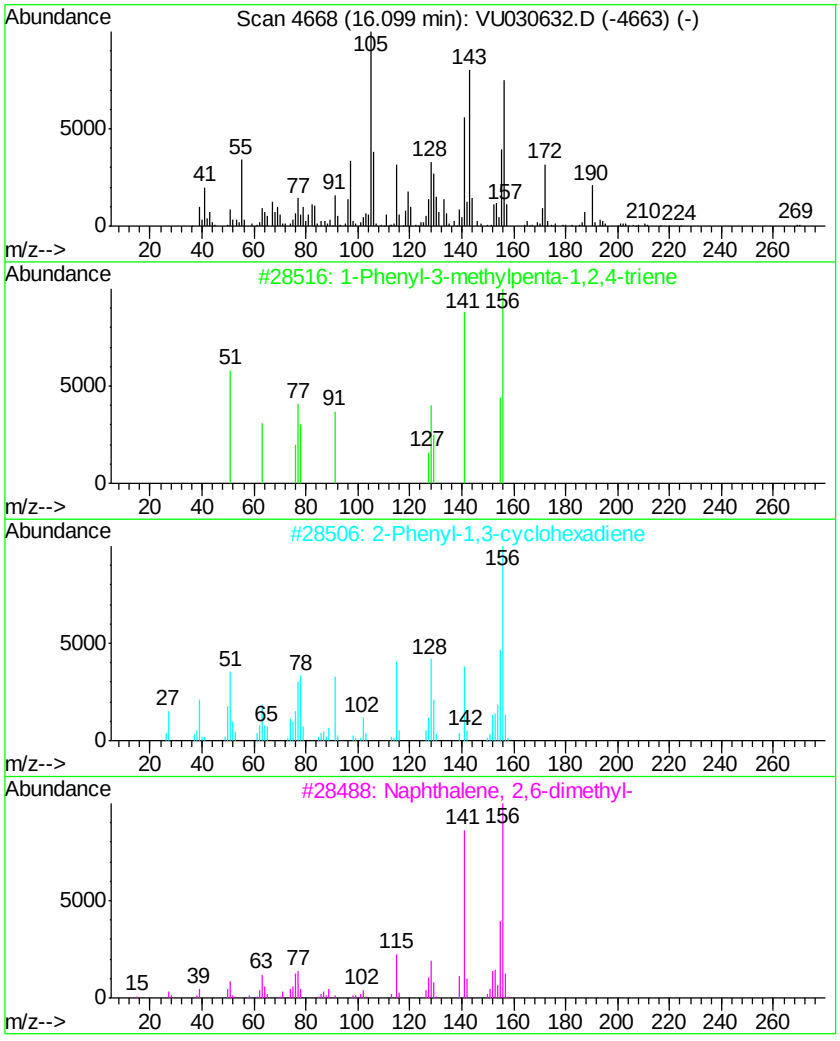
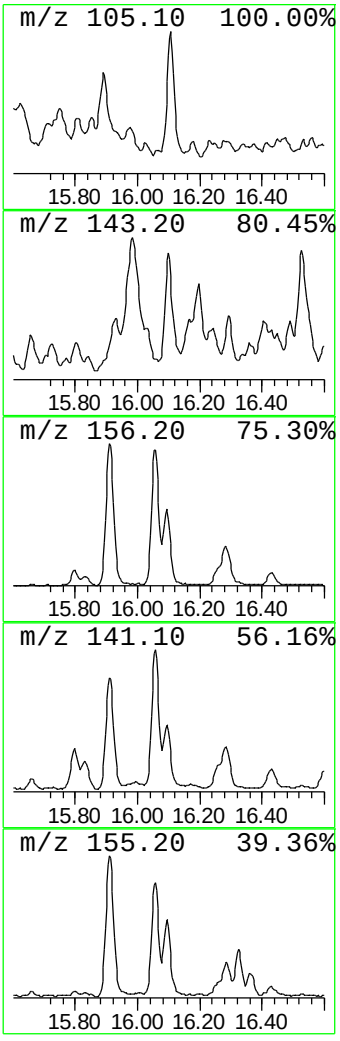
Peak Number 55 1-Phenyl-3-methylpenta-1,2,... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.10	21.06 ug/L	695066	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-3-methylpenta-1,2,4-triene	156	C12H12	093247-38-2	50
2	2-Phenyl-1,3-cyclohexadiene	156	C12H12	015619-34-8	46
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	42
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	42
5	2,2'-Bipyridine	156	C10H8N2	000366-18-7	42





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

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

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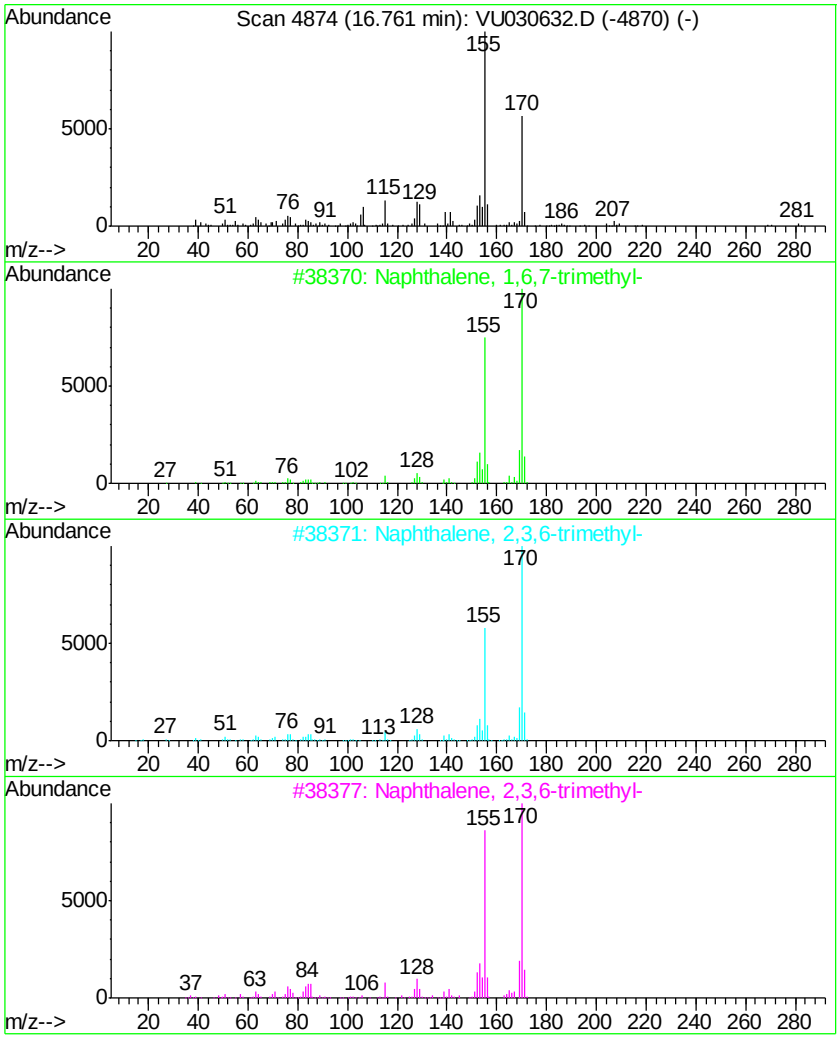
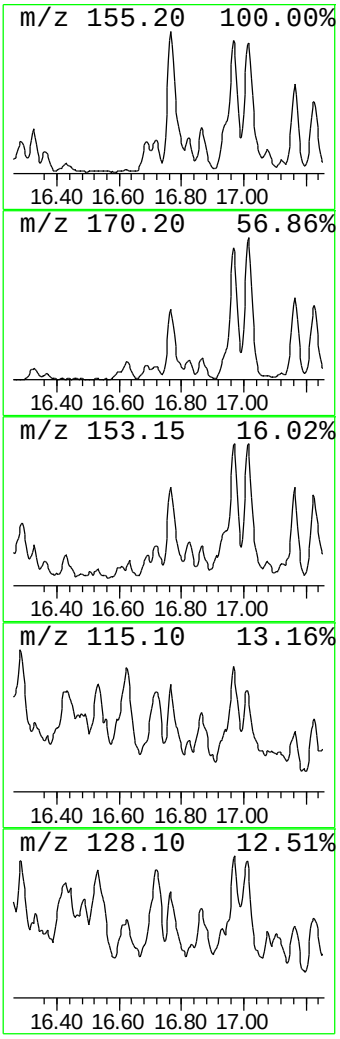
Peak Number 56 Naphthalene, 1,6,7-trimethyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	10.36 ug/L	341851	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	91
5	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Data File : VU030632.D
Acq On : 03 Apr 2019 17:10
Operator : JC/SP
Sample : K2148-17
Misc : 5.64g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BF5J3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.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
unknown-01	1.58	4.4	ug/L	109892	1	5.88	1242090	50.0
(DEL) Alkane: Cyc...	7.91	3.6	ug/L	114611	2	9.09	1609020	50.0
(DEL) Alkane: Str...	8.45	3.8	ug/L	122230	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	8.54	5.0	ug/L	161285	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	8.60	10.3	ug/L	330684	2	9.09	1609020	50.0
(DEL) Alkane: Str...	8.81	3.3	ug/L	106077	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	8.84	12.5	ug/L	402582	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	9.24	5.8	ug/L	188392	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	9.35	12.9	ug/L	413860	2	9.09	1609020	50.0
Sulfurous acid, d...	9.40	19.2	ug/L	618345	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	9.44	17.9	ug/L	574730	2	9.09	1609020	50.0
unknown-02	9.56	8.2	ug/L	262534	2	9.09	1609020	50.0
(DEL) Alkane: Str...	9.65	3.6	ug/L	116327	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	9.71	41.6	ug/L	1338060	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	9.81	7.8	ug/L	250621	2	9.09	1609020	50.0
(DEL) Alkane: Str...	9.86	6.0	ug/L	193659	2	9.09	1609020	50.0
(DEL) Alkane: Str...	9.95	70.4	ug/L	2265560	2	9.09	1609020	50.0
(DEL) Alkane: Str...	10.04	74.0	ug/L	2382970	2	9.09	1609020	50.0
(DEL) Alkane: Str...	10.08	18.2	ug/L	584243	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	10.15	12.8	ug/L	411481	2	9.09	1609020	50.0
(DEL) Alkane: Cyc...	10.22	19.8	ug/L	635927	2	9.09	1609020	50.0
3,4-Octadiene, 7-...	10.37	13.5	ug/L	446639	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	10.49	39.4	ug/L	1300910	3	11.48	1649960	50.0
1-Methyl-4-(1-met...	10.64	28.8	ug/L	951202	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	10.69	28.7	ug/L	946796	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	10.75	47.1	ug/L	1555290	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	10.81	36.0	ug/L	1189370	3	11.48	1649960	50.0
Methoxyacetic aci...	10.97	13.6	ug/L	447221	3	11.48	1649960	50.0
(DEL) Alkane: Str...	11.11	7.4	ug/L	243224	3	11.48	1649960	50.0
(DEL) Alkane: Str...	11.27	39.1	ug/L	1291160	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	11.39	53.9	ug/L	1778520	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	11.66	18.6	ug/L	613264	3	11.48	1649960	50.0
Benzene, 1,3-diet...	11.78	25.6	ug/L	846066	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	12.01	20.2	ug/L	665778	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	12.06	63.1	ug/L	2082220	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	12.18	51.7	ug/L	1705980	3	11.48	1649960	50.0
(DEL) Alkane: Str...	12.36	13.8	ug/L	456229	3	11.48	1649960	50.0
Naphthalene, deca...	12.51	143.6	ug/L	4739430	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	12.61	117.0	ug/L	3862090	3	11.48	1649960	50.0
Benzene, 1-methyl...	12.78	46.6	ug/L	1537140	3	11.48	1649960	50.0
unknown-03	12.88	39.0	ug/L	1287670	3	11.48	1649960	50.0
Bicyclo[4.1.0]hep...	13.12	52.7	ug/L	1739080	3	11.48	1649960	50.0
unknown-04	13.41	31.4	ug/L	1034900	3	11.48	1649960	50.0
Benzene, pentamet...	13.50	25.6	ug/L	845807	3	11.48	1649960	50.0
(DEL) Alkane: Str...	13.73	107.9	ug/L	3561280	3	11.48	1649960	50.0
Cyclohexane, 1-me...	13.79	59.8	ug/L	1973050	3	11.48	1649960	50.0
(DEL) Alkane: Str...	13.88	45.6	ug/L	1505030	3	11.48	1649960	50.0
(DEL) Alkane: Cyc...	14.75	20.4	ug/L	674261	3	11.48	1649960	50.0
(DEL) Alkane: Str...	14.89	13.7	ug/L	451281	3	11.48	1649960	50.0

(DEL) Alkane: Str...	15.66	21.6	ug/L	711482	3	11.48	1649960	50.0
Decahydro-4,4,8,9...	15.85	21.4	ug/L	704482	3	11.48	1649960	50.0
Naphthalene, 2,6-...	16.06	19.2	ug/L	633644	3	11.48	1649960	50.0
1-Phenyl-3-methyl...	16.10	21.1	ug/L	695066	3	11.48	1649960	50.0
Naphthalene, 1,6,...	16.76	10.4	ug/L	341851	3	11.48	1649960	50.0

Instrument :
MSVOA_U
ClientSampleId :
BF5J3