LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

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\SOMULM122018WMA.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	1.398	63	70	81	rVB	101964	100435	3.43%	0.350%
2	1.665	145	153	164	rBV	72674	90497	3.09%	0.315%
3	1.746	168	178	194	rVB	101333	138668	4.74%	0.483%
4	2.266	328	340	355	rBV	143737	225466	7.70%	0.786%
5	2.450	385	397	417	rBV	26381	50503	1.73%	0.176%
6	2.704	463	476	495	rVB2	11664	24823	0.85%	0.087%
7	2.993	550	566	586	rBV	78658	168055	5.74%	0.586%
8	4.176	920	934	965	rBV	84653	236336	8.07%	0.824%
9	4.646	1063	1080	1099	rBV	108890	257197	8.79%	0.896%
10	4.993	1168	1188	1205	rVV	599969	1426822	48.74%	4.973%
11	5.080	1206	1215	1231	rVB3	22059	53150	1.82%	0.185%
12	5.257	1251	1270	1278	rVV2	109636	259723	8.87%	0.905%
13	5.337	1279	1295	1319	rVV2	238342	679766	23.22%	2.369%
14	5.479	1323	1339	1351	rVV3	170049	383103	13.09%	1.335%
15	5.552	1351	1362	1372	rVV	162118	351813	12.02%	1.226%
16	5.623	1372	1384	1411	rVB	275357	613632	20.96%	2.139%
17	5.884	1452	1465	1487	rBV	223873	438018	14.96%	1.527%
18	6.327	1590	1603	1613	rBV	158363	316261	10.80%	1.102%
19	6.411	1613	1629	1657	rVB3	761927	1821713	62.23%	6.350%
20	6.736	1715	1730	1749	rBV2	55364	109420	3.74%	0.381%
21	6.900	1768	1781	1800	rBV	58577	113978	3.89%	0.397%
22	7.224	1871	1882	1918	rBV3	90923	241191	8.24%	0.841%
23	7.443	1937	1950	1962	rVB3	16137	31776	1.09%	0.111%
24	7.530	1962	1977	1979	rBV2	127271	187462	6.40%	0.653%
25	7.562	1980	1987	2002	rVB	373493	658733	22.50%	2.296%
26	7.707	2018	2032	2045	rBV3	59806	144501	4.94%	0.504%
27	7.774	2046	2053	2065	rVB2	44848	81379	2.78%	0.284%
28	7.848	2065	2076	2086	rBV	71482	123757	4.23%	0.431%
29	7.916	2086	2097	2115	rVB	155058	282380	9.65%	0.984%
30	8.044	2115	2137	2147	rBV2	58804	113998	3.89%	0.397%
31	8.308	2204	2219	2251	rBV	296836	546334	18.66%	1.904%
32	8.488	2259	2275	2283	rBV2	44004	84335	2.88%	0.294%
33	8.543	2283	2292	2302	rVV	98631	157901	5.39%	0.550%
34	8.604	2302	2311	2322	rVV	70884	114758	3.92%	0.400%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

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\SOMULM122018WMA.M
Title : VOC Analysis

35	8.845	2370	2386	2403	rVB4	20257	40574	1.39%	0.141%
36	9.089	2449	2462	2477	rBV	317039	527218	18.01%	1.838%
37	9.186	2480	2492	2503	rVB	99202	164358	5.61%	0.573%
38	9.244	2503	2510	2523	rVB5	16771	32467	1.11%	0.113%
39	9.359	2533	2546	2555	rBV6	34771	82263	2.81%	0.287%
40	9.568	2601	2611	2621	rBV2	25580	42165	1.44%	0.147%
41	9.720	2641	2658	2676	rVV7	25490	76824	2.62%	0.268%
42	9.951	2710	2730	2746	rBV2	98161	180590	6.17%	0.629%
43	10.044	2746	2759	2778	rBV8	35337	77231	2.64%	0.269%
44	10.163	2785	2796	2820	rBV	507426	793827	27.12%	2.767%
45	10.375	2851	2862	2869	rBV2	33166	53854	1.84%	0.188%
46	10.430	2869	2879	2891	rVV	241621	391633	13.38%	1.365%
47	10.491	2891	2898	2915	rVB7	28664	55357	1.89%	0.193%
48	10.584	2915	2927	2947	rBV	450584	708325	24.20%	2.469%
49	10.739	2968	2975	2990	rVB3	29829	50317	1.72%	0.175%
50	10.986	3040	3052	3055	rBV5	18564	32547	1.11%	0.113%
51	11.073	3068	3079	3094	rVB4	19443	42999	1.47%	0.150%
52	11.289	3131	3146	3149	rBV3	36922	59300	2.03%	0.207%
53	11.324	3150	3157	3172	rVB	119949	197176	6.74%	0.687%
54	11.482	3196	3206	3220	rBV	325412	506485	17.30%	1.765%
55	11.687	3260	3270	3280	rBV	47734	77310	2.64%	0.269%
56	11.764	3281	3294	3308	rBV3	403480	747510	25.54%	2.606%
57	11.858	3313	3323	3343	rVB	367802	650649	22.23%	2.268%
58	11.980	3352	3361	3374	rBV	75348	113802	3.89%	0.397%
59	12.250	3421	3445	3451	rBV	412526	647998	22.14%	2.259%
60	12.282	3451	3455	3466	rVV	203408	303208	10.36%	1.057%
61	12.353	3467	3477	3496	rVV3	454117	1027886	35.11%	3.583%
62	12.433	3496	3502	3511	rVB3	25523	39088	1.34%	0.136%
63	12.536	3521	3534	3546	rVB	57698	98828	3.38%	0.344%
64	12.649	3551	3569	3581	rBV	263051	451771	15.43%	1.575%
65	12.784	3599	3611	3621	rVB2	40801	70106	2.39%	0.244%
66	12.877	3622	3640	3646	rBV	38080	76096	2.60%	0.265%
67	12.922	3646	3654	3661	rBV2	79557	121753	4.16%	0.424%
68	12.961	3661	3666	3673	rVB	56660	69088	2.36%	0.241%
69	13.118	3700	3715	3733	rVV2	1890710	2927205	100.00%	10.203%
70	13.195	3734	3739	3745	rVV4	23144	34555	1.18%	0.120%
71	13.234	3745	3751	3757	rVV	28933	44771	1.53%	0.156%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

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\SOMULM122018WMA.M
Title : VOC Analysis

72	13.285	3757	3767	3781	rVB	299878	488508	16.69%	1.703%
73	13.404	3795	3804	3811	rBV2	41987	66158	2.26%	0.231%
74	13.456	3811	3820	3828	rVV2	70229	121216	4.14%	0.423%
75	13.507	3828	3836	3845	rVV2	144911	223968	7.65%	0.781%
76	13.575	3845	3857	3861	rVV3	80911	157842	5.39%	0.550%
77	13.610	3862	3868	3890	rVB3	129776	334709	11.43%	1.167%
78	13.739	3895	3908	3917	rBV	839524	1336369	45.65%	4.658%
79	13.787	3917	3923	3933	rVB	124132	182371	6.23%	0.636%
80	13.851	3934	3943	3958	rVB	46269	83479	2.85%	0.291%
81	13.961	3959	3977	3986	rBV4	63899	157834	5.39%	0.550%
82	14.012	3988	3993	4003	rVB3	26830	40770	1.39%	0.142%
83	14.157	4028	4038	4040	rBV3	35752	50794	1.74%	0.177%
84	14.346	4082	4097	4109	rVB3	133235	292792	10.00%	1.021%
85	14.475	4130	4137	4145	rVB2	34092	49149	1.68%	0.171%
86	14.536	4145	4156	4169	rVB7	37266	93397	3.19%	0.326%
87	14.610	4171	4179	4188	rBV6	15458	25756	0.88%	0.090%
88	14.678	4189	4200	4226	rVB2	127580	252978	8.64%	0.882%
89	14.874	4249	4261	4273	rBV	528438	829634	28.34%	2.892%
90	15.060	4307	4319	4334	rVB	557931	900071	30.75%	3.137%
91	15.411	4416	4428	4436	rBV	11510	24971	0.85%	0.087%
92	15.546	4462	4470	4476	rBV3	22688	37913	1.30%	0.132%
93	15.726	4516	4526	4537	rBV2	56281	92500	3.16%	0.322%
94	15.800	4542	4549	4555	rVV	18942	28358	0.97%	0.099%
95	15.832	4555	4559	4572	rVB	17235	25650	0.88%	0.089%
96	15.915	4573	4585	4599	rBV2	71316	154244	5.27%	0.538%
97	16.057	4619	4629	4636	rVV	105493	176448	6.03%	0.615%
98	16.095	4636	4641	4657	rVB	85227	133302	4.55%	0.465%
99	16.259	4681	4692	4694	rBV	18713	24200	0.83%	0.084%
100	16.288	4695	4701	4719	rVB	33375	59218	2.02%	0.206%

Sum of corrected areas: 28689617

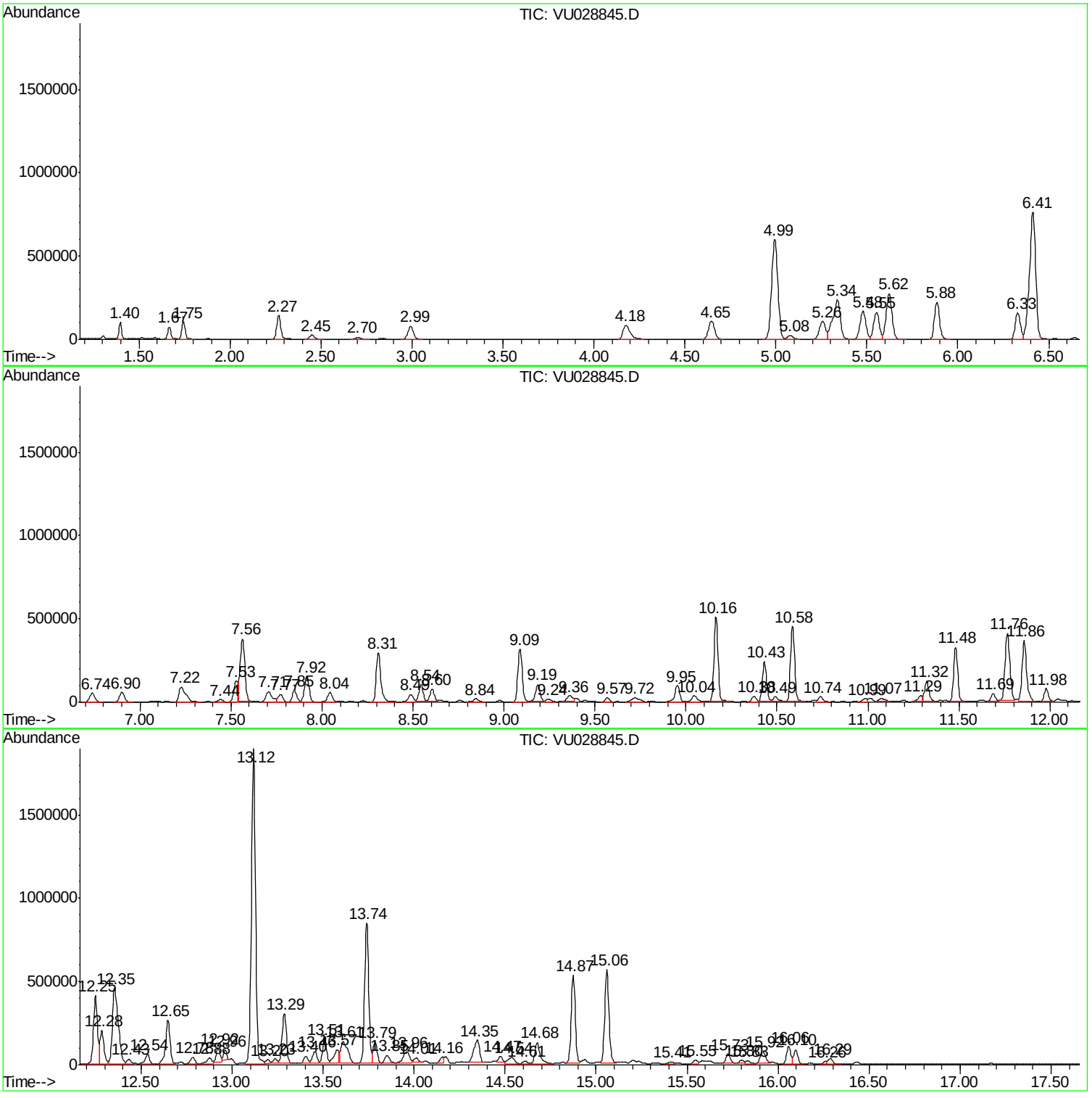
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

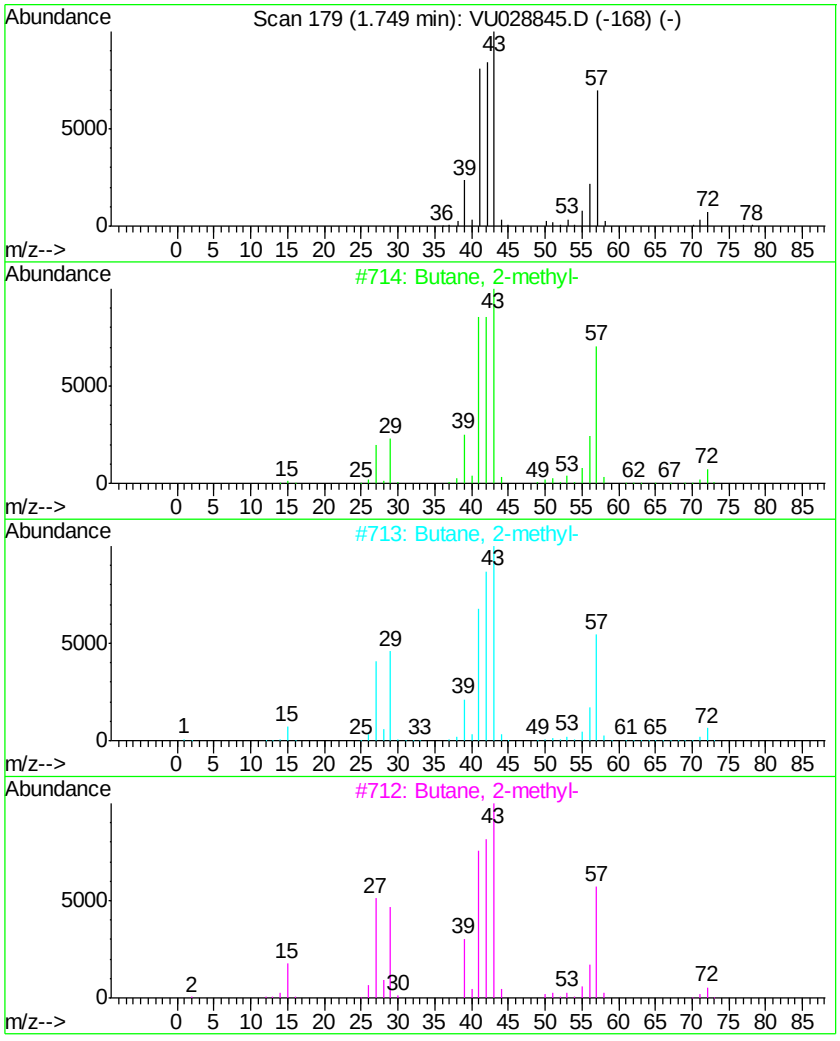
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

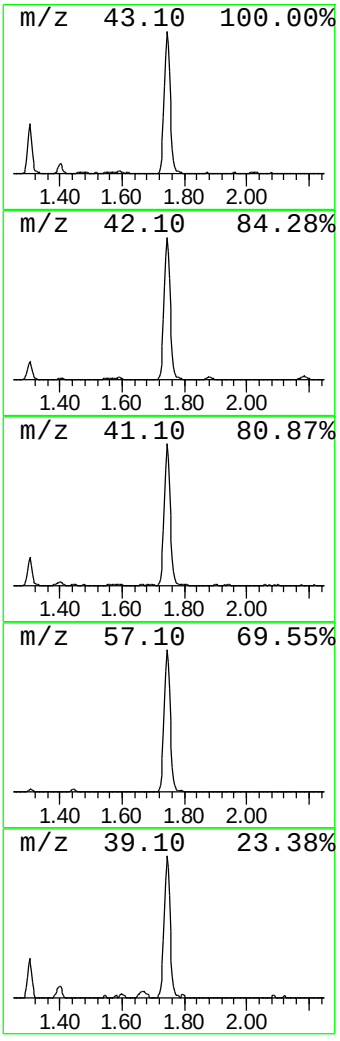
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	15.83 ug/L	138668	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	90
4	Pentane	72	C5H12	000109-66-0	45
5	3-Buten-1-ol	72	C4H8O	000627-27-0	28





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

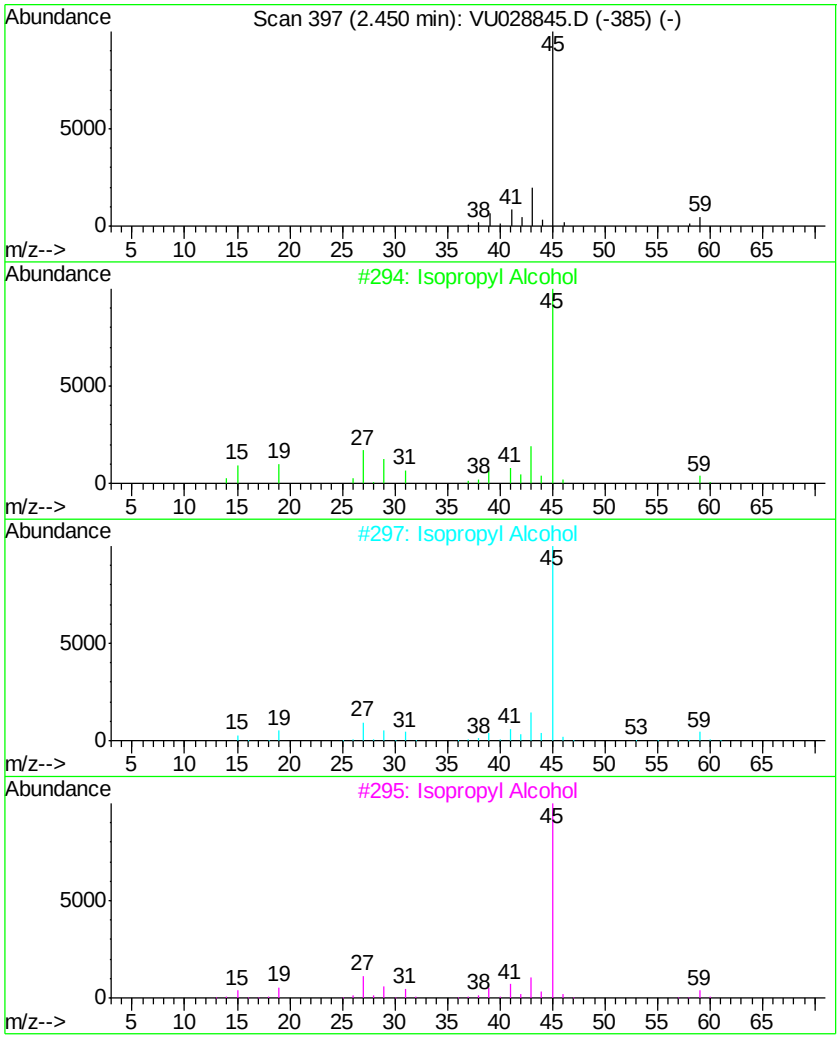
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

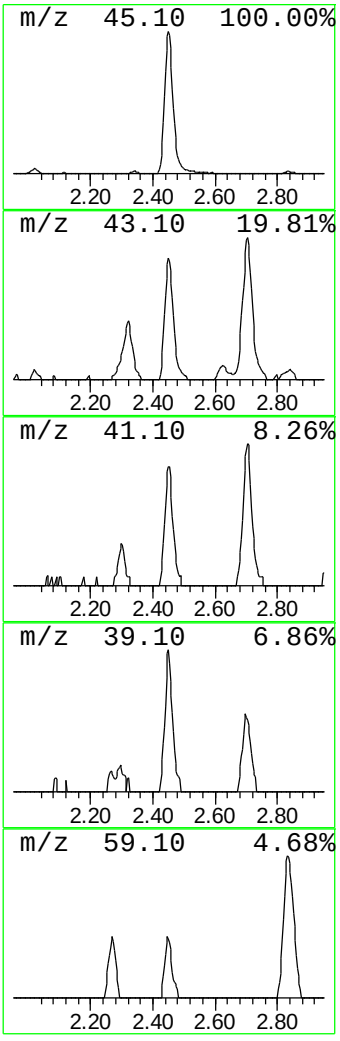
****

Peak Number 2 Isopropyl Alcohol Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.45	5.76 ug/L	50503	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	74
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	9
4	4-Penten-2-ol	86	C5H10O	000625-31-0	9
5	Formamide	45	CH3NO	000075-12-7	5





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

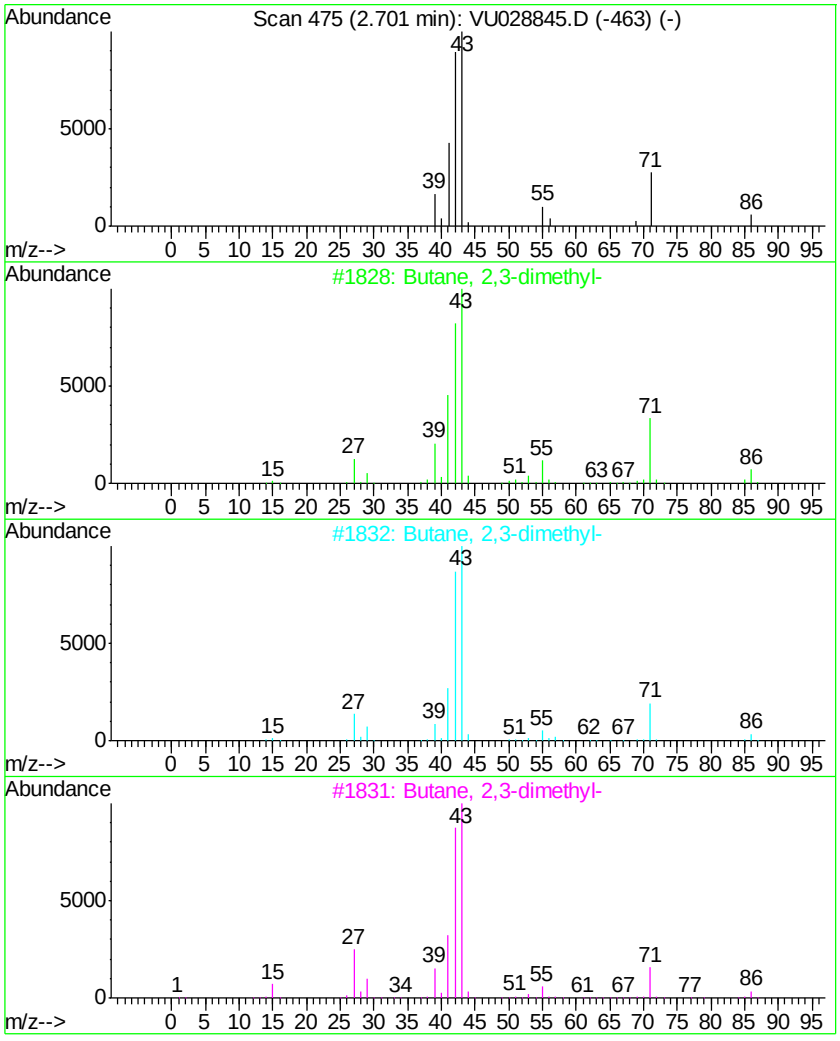
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

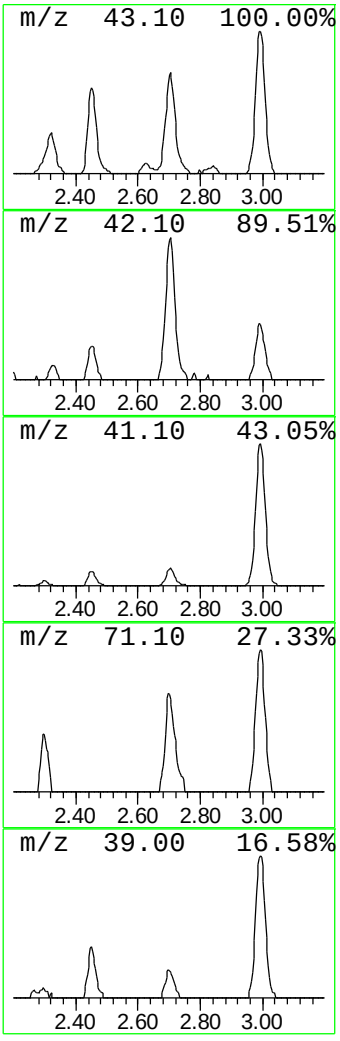
****

Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 76

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.70	2.83 ug/L	24823	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	83
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	78
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

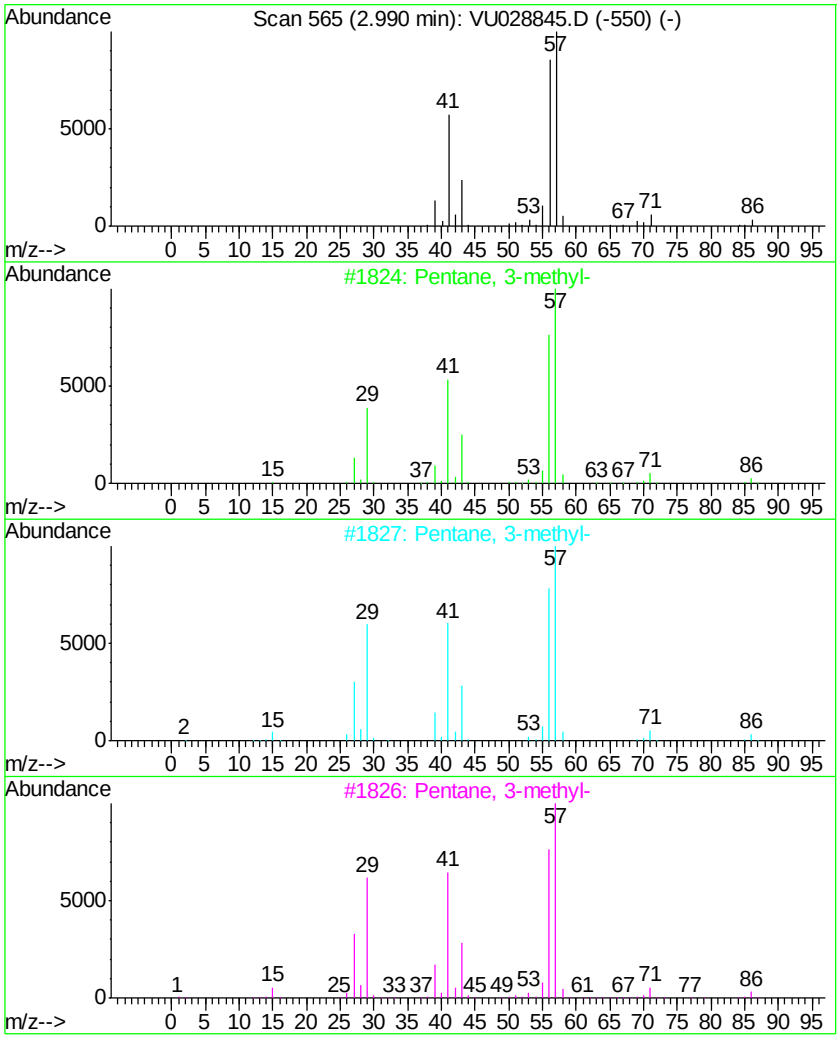
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

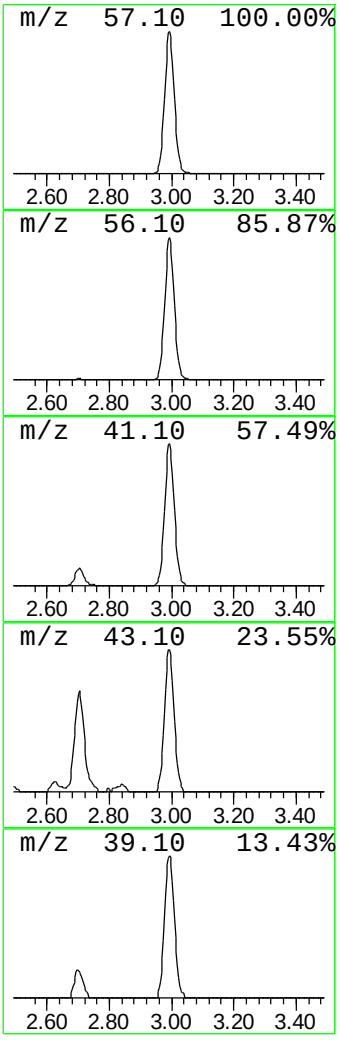
****

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	19.18 ug/L	168055	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	78
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

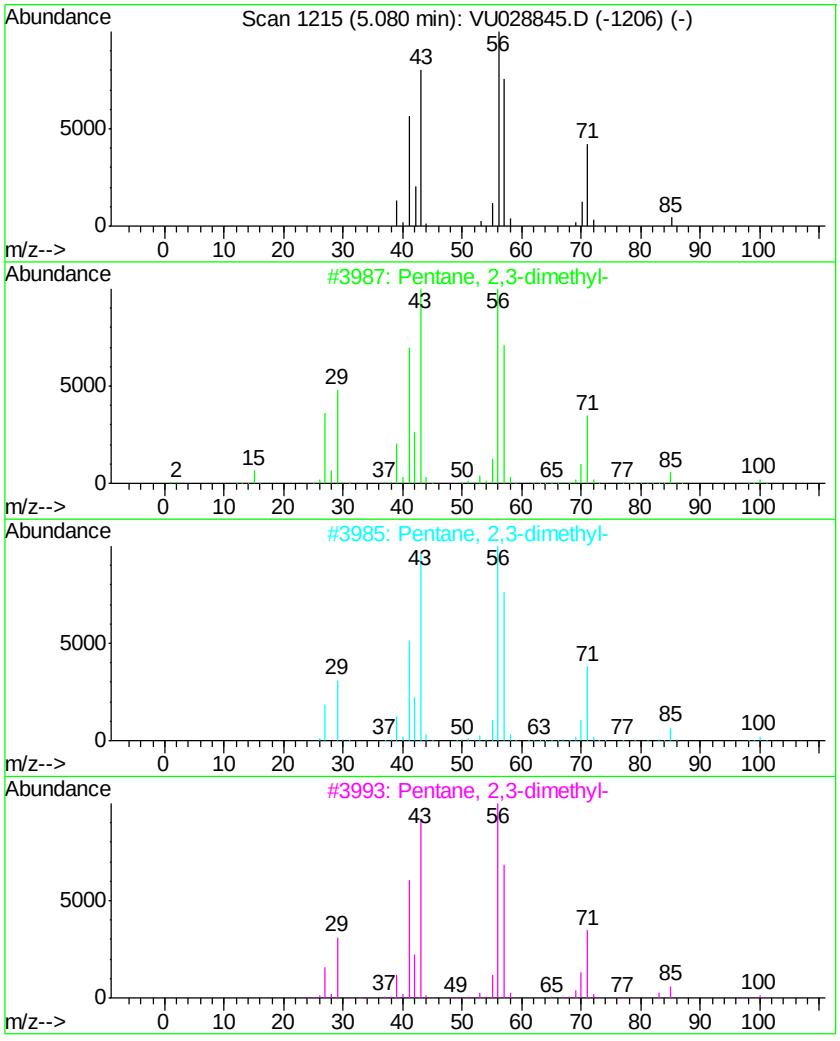
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

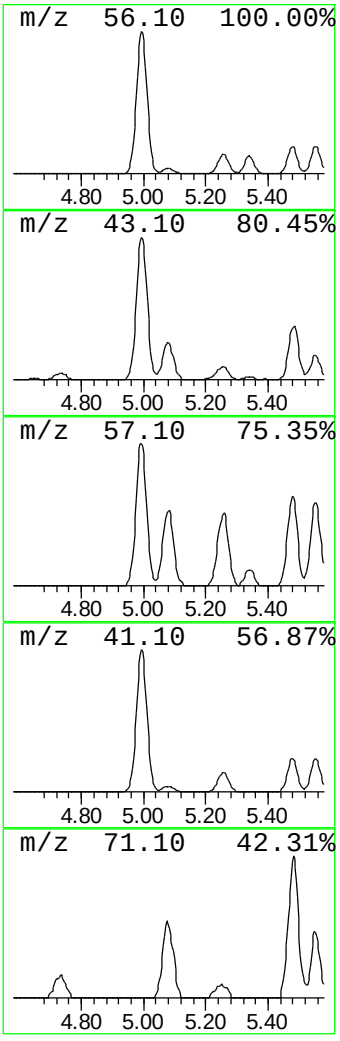
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	6.07 ug/L	53150	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	72
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	64
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	59
5	Ethane, isocyanato-	71	C3H5NO	000109-90-0	50





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

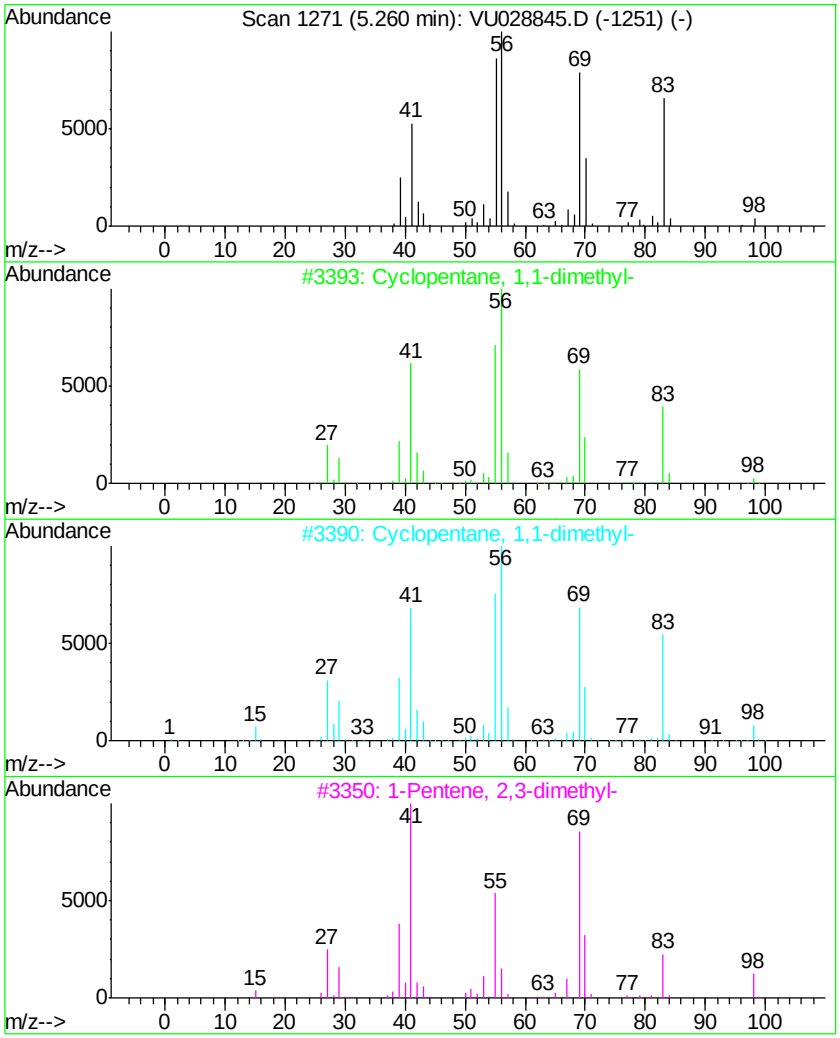
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

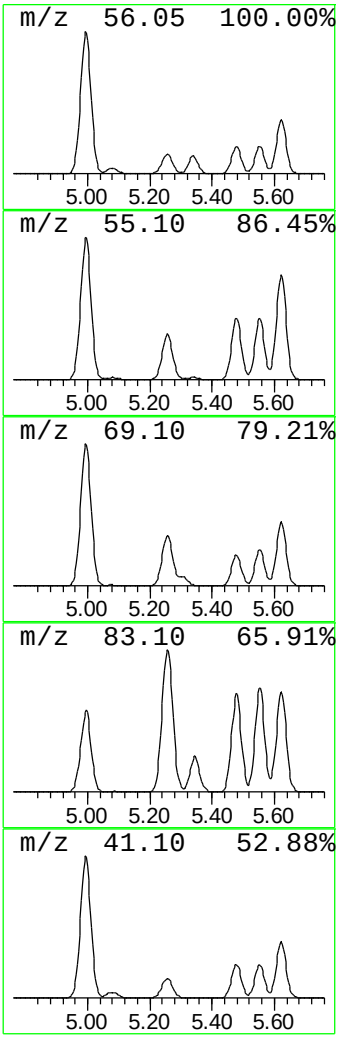
****

Peak Number 6 (DEL) Alkane: Cyclic5.26 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.26	29.65 ug/L	259723	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	91
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
3	1-Pentene, 2,3-dimethyl-	98	C7H14	003404-72-6	43
4	2-Heptene, (E)-	98	C7H14	014686-13-6	43
5	(Z)-Hex-2-ene, 5-methyl-	98	C7H14	013151-17-2	43





Library Search Compound Report

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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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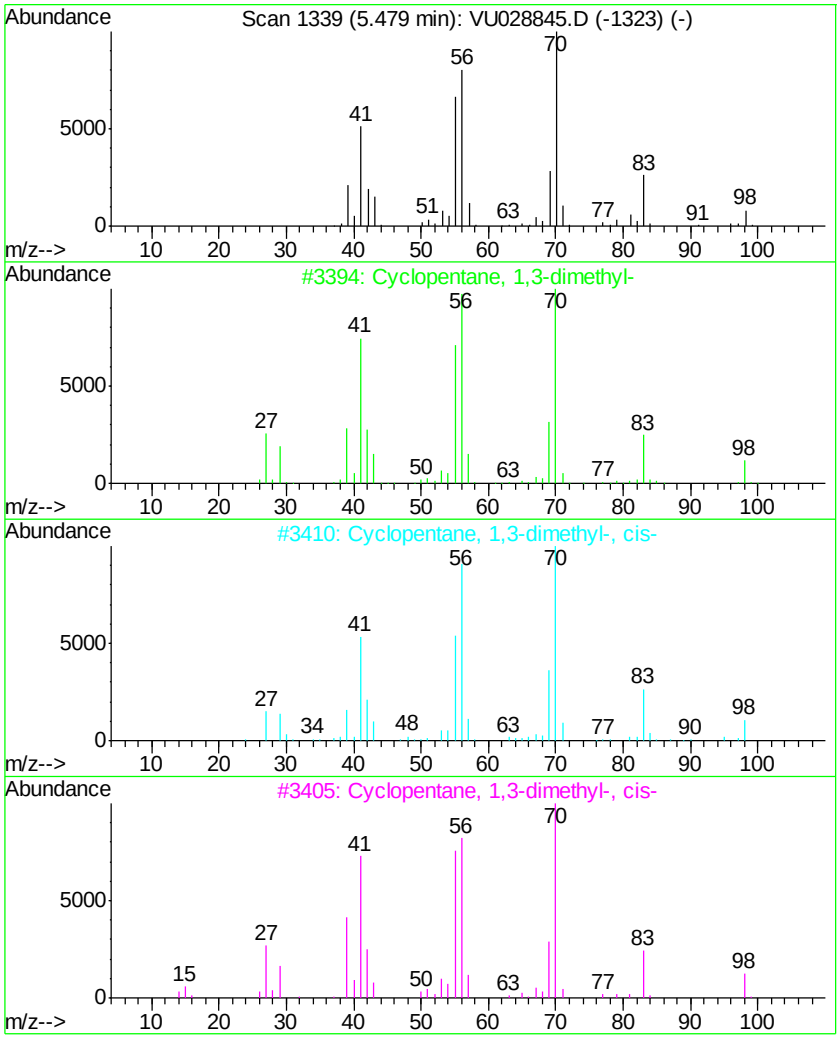
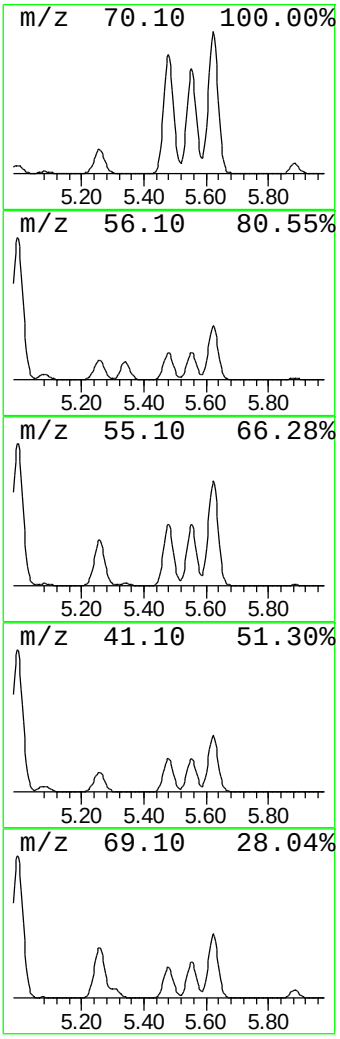
Peak Number 7 (DEL) Alkane: Cyclic5.48 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.48	43.73 ug/L	383103	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	91
2	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	80
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	78
5	Cyclobutanone, 2,2-dimethyl-	98	C6H10O	001192-14-9	78





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Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

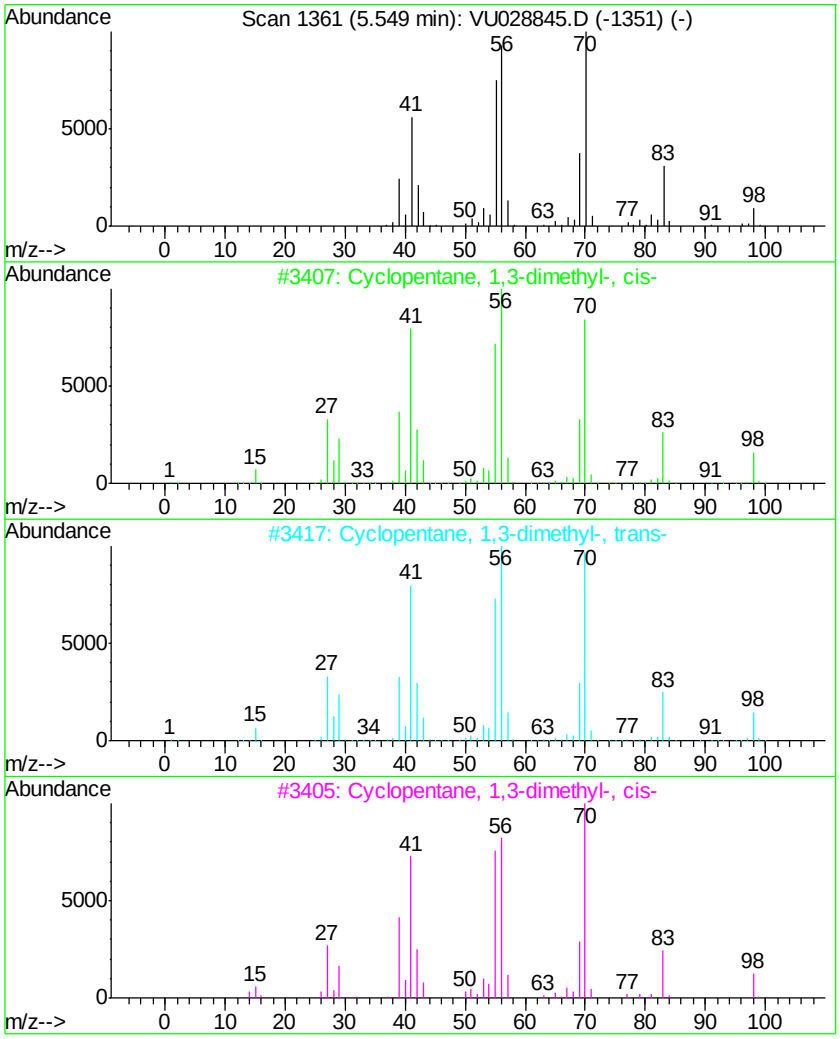
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

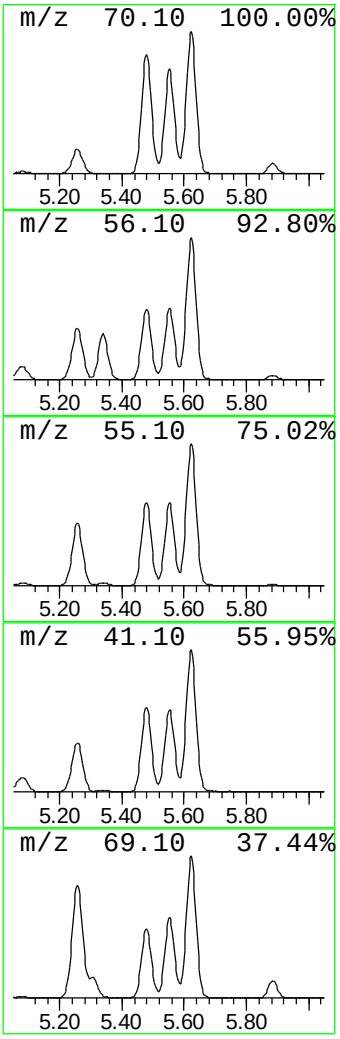
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 (DEL) Alkane: Cyclic5.55 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	40.16 ug/L	351813	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	94
2	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	91
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	91
4	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	90
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	86





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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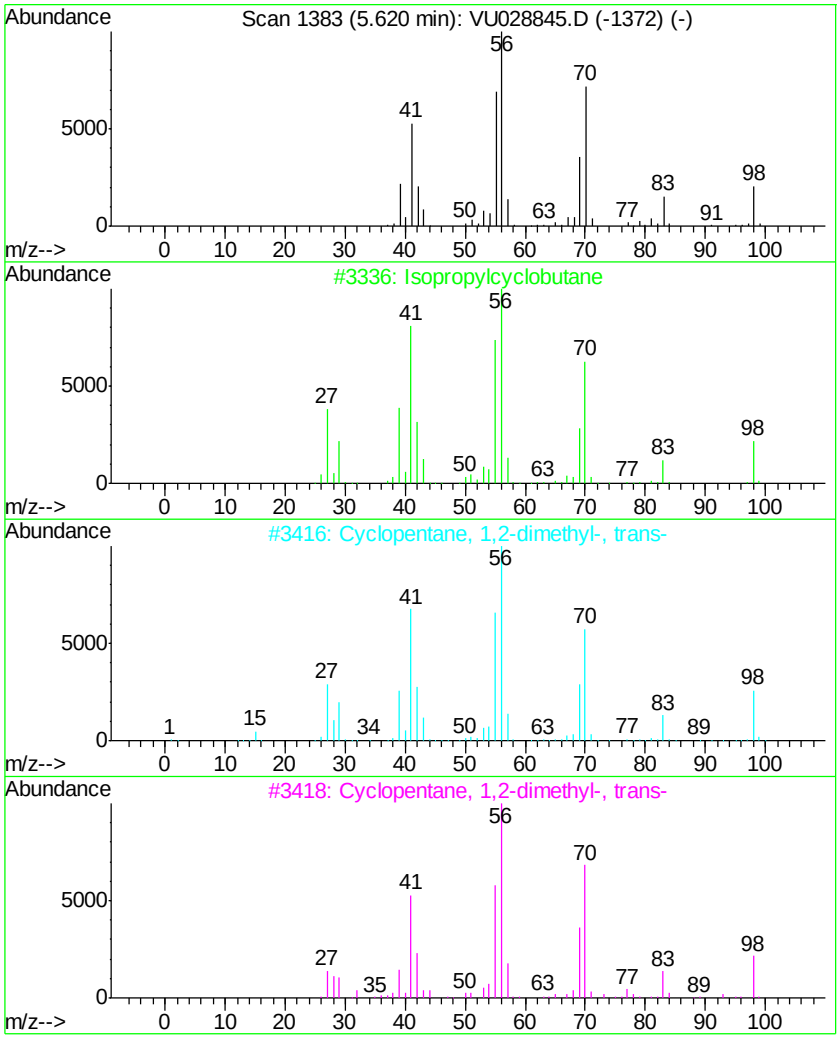
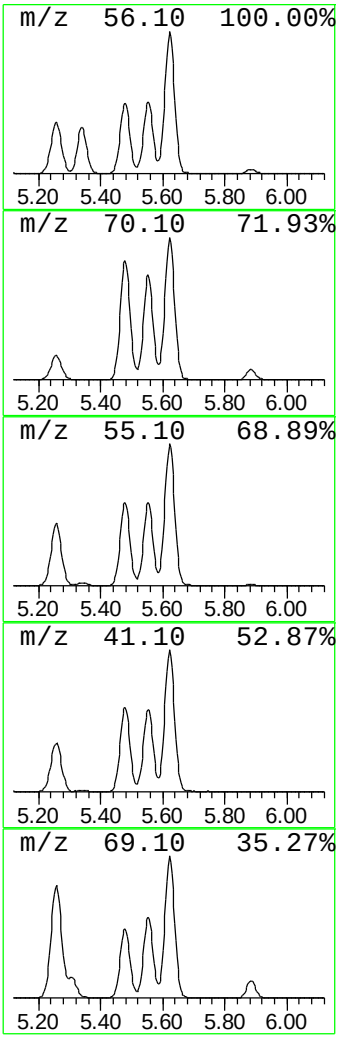
Peak Number 9 (DEL) Alkane: Cyclic5.62 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.62	70.05 ug/L	613632	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropylcyclobutane	98	C7H14	000872-56-0	94
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
3	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
4	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	87
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	76





Library Search Compound Report

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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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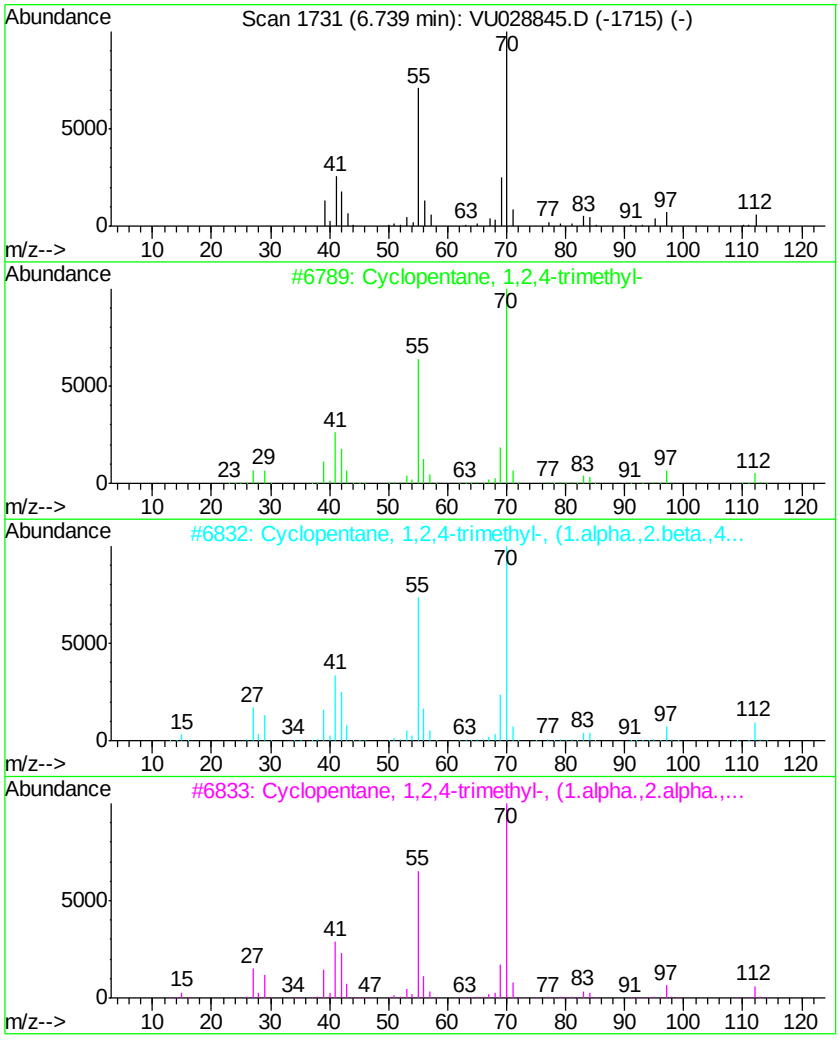
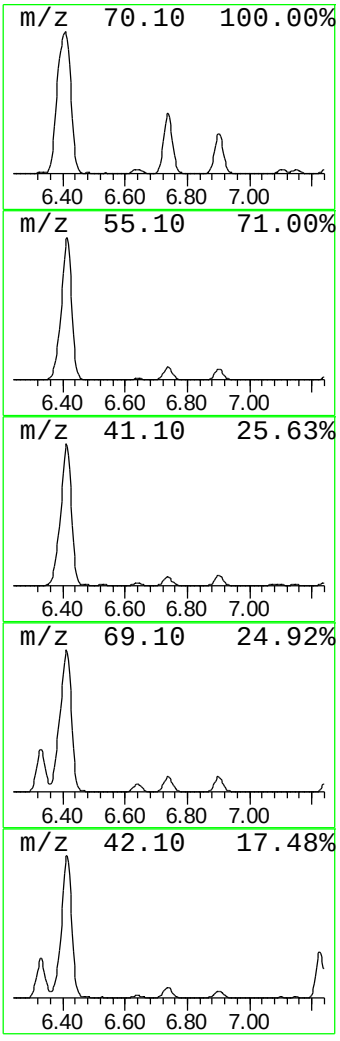
Peak Number 10 (DEL) Alkane: Cyclic6.74 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	12.49 ug/L	109420	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	91
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	83
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	80
5	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	78





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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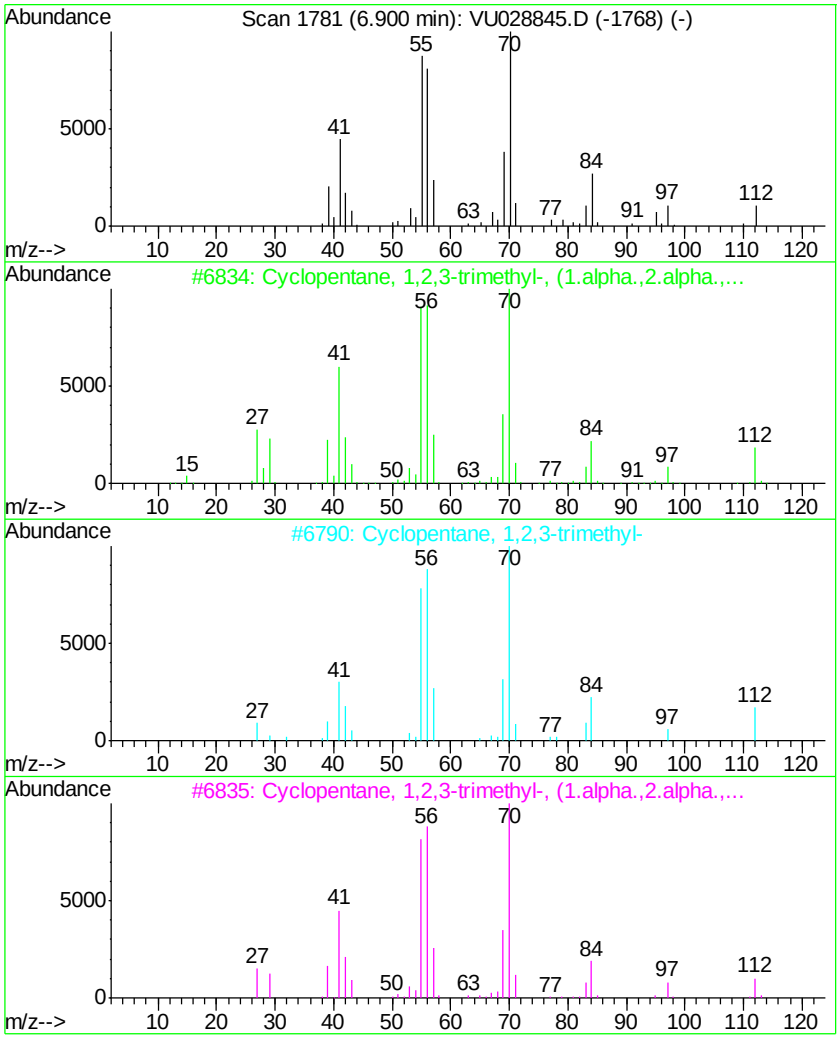
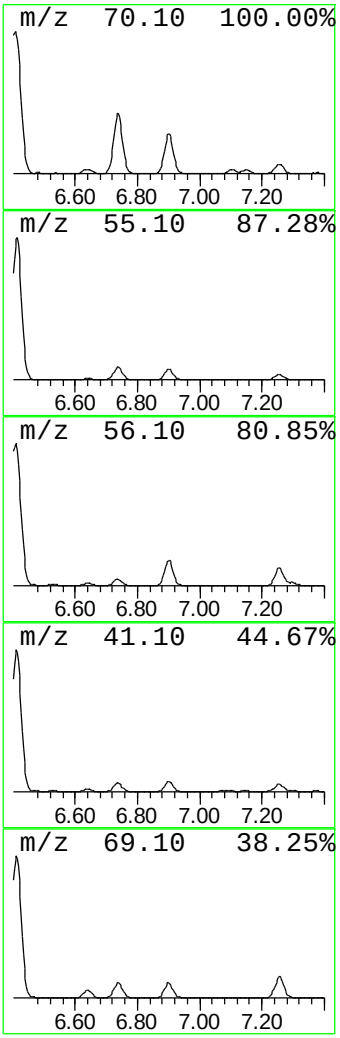
Peak Number 11 (DEL) Alkane: Cyclic6.90 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	13.01 ug/L	113978	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
2	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	91
3	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
4	cis-1-Butyl-2-methylcyclopropane	112	C8H16	038851-69-3	72
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	72





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Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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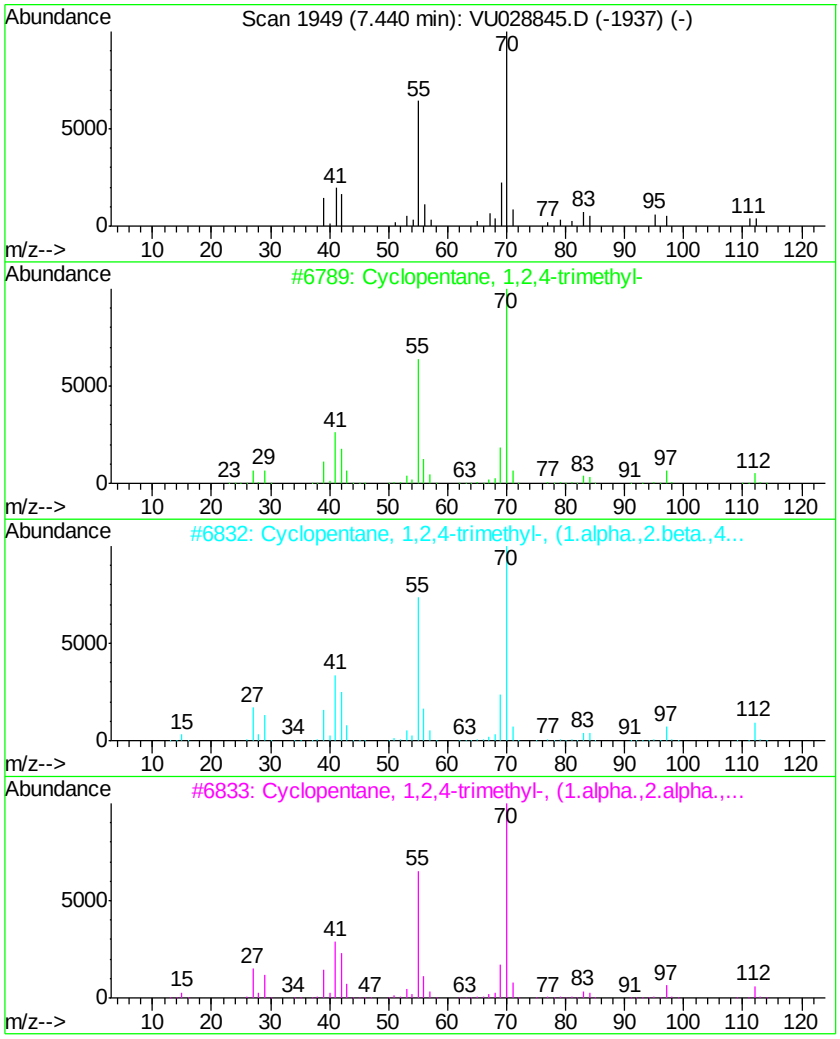
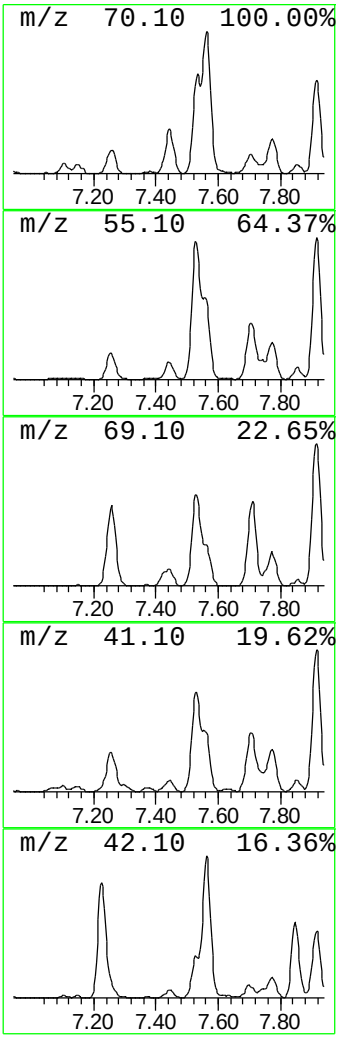
Peak Number 13 (DEL) Alkane: Cyclic7.44 Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	3.63 ug/L	31776	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	91
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	87
4	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	80
5	Heptane, 3-methylene-	112	C8H16	001632-16-2	72





Library Search Compound Report

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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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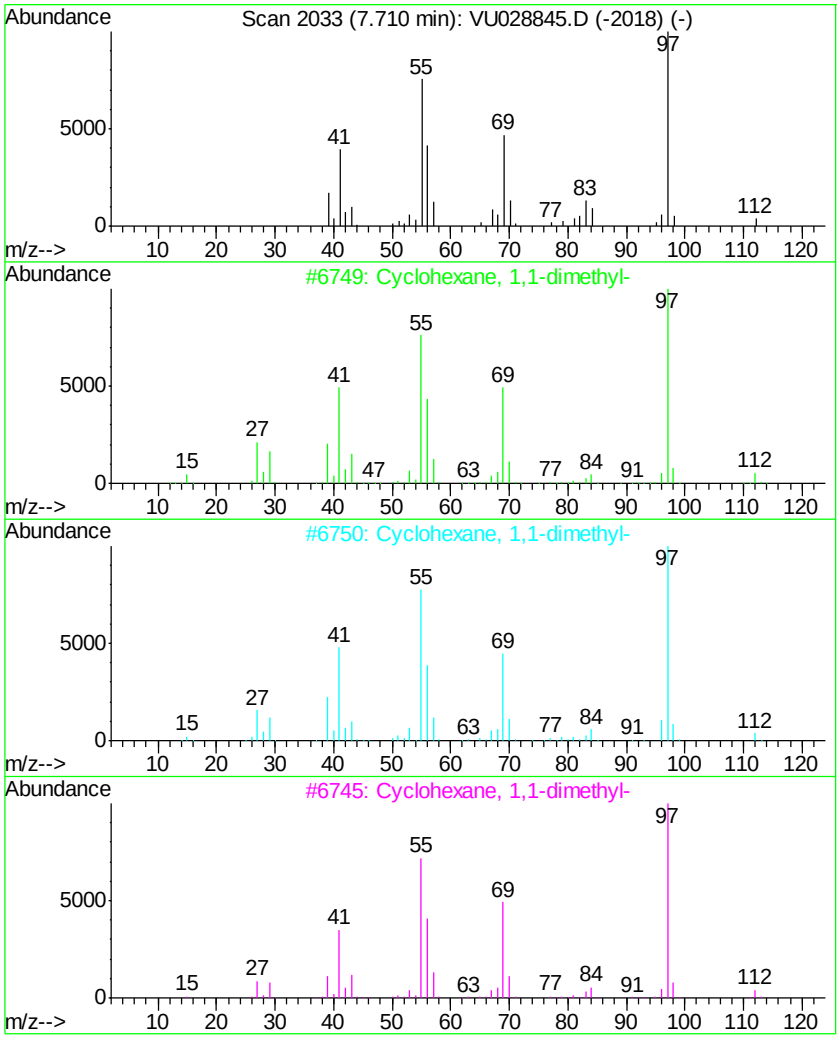
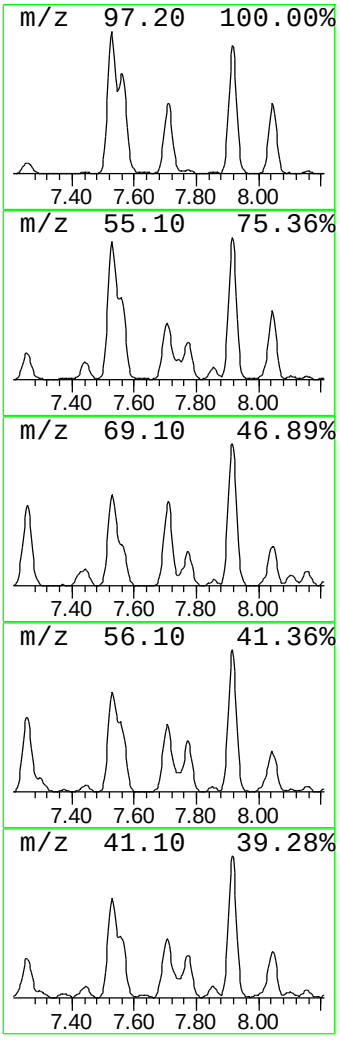
Peak Number 14 (DEL) Alkane: Cyclic7.71 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.71	13.70 ug/L	144501	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	93
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	93
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	90
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	72
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	72





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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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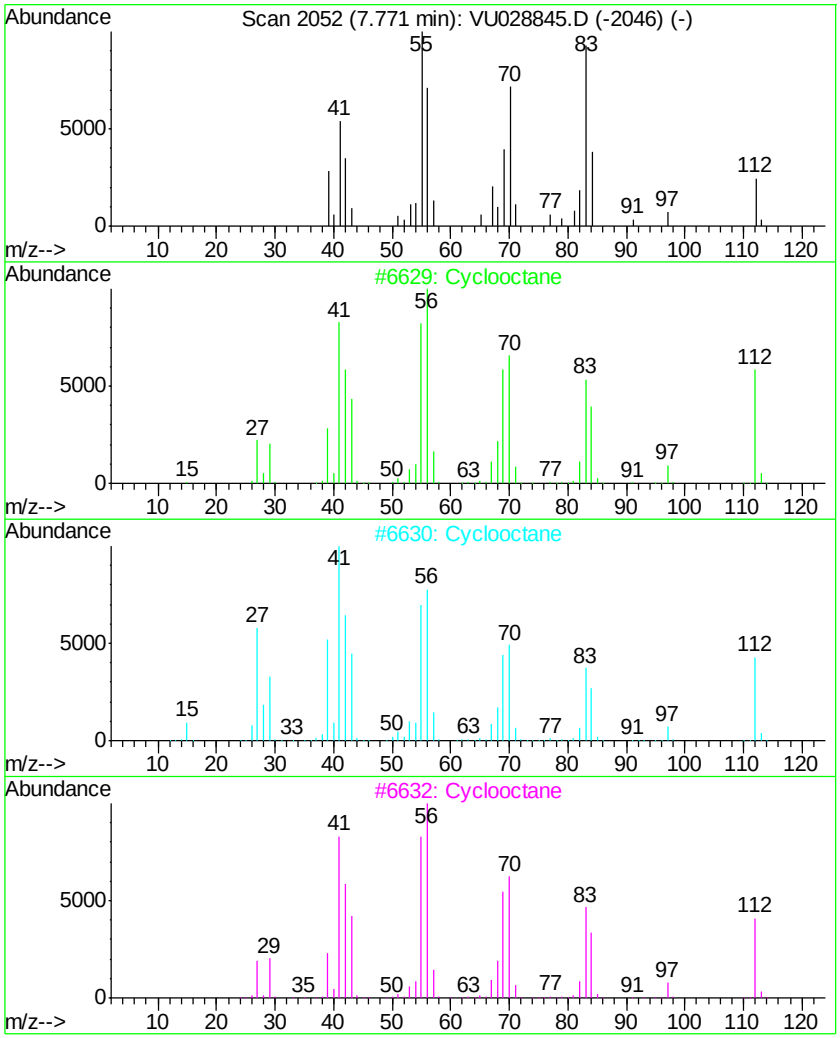
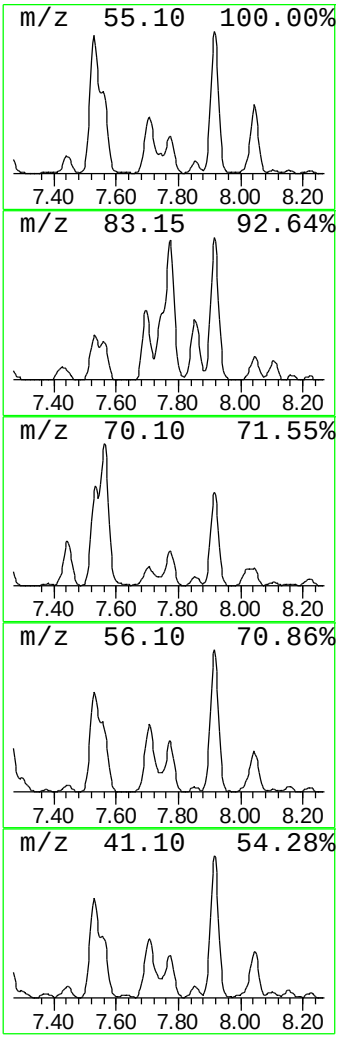
Peak Number 15 (DEL) Alkane: Cyclic7.77 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.77	7.72 ug/L	81379	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctane	112	C8H16	000292-64-8	68
2	Cyclooctane	112	C8H16	000292-64-8	58
3	Cyclooctane	112	C8H16	000292-64-8	55
4	cis-1-Butyl-2-methylcyclopropane	112	C8H16	038851-69-3	52
5	3-Heptene, 3-methyl-	112	C8H16	007300-03-0	49





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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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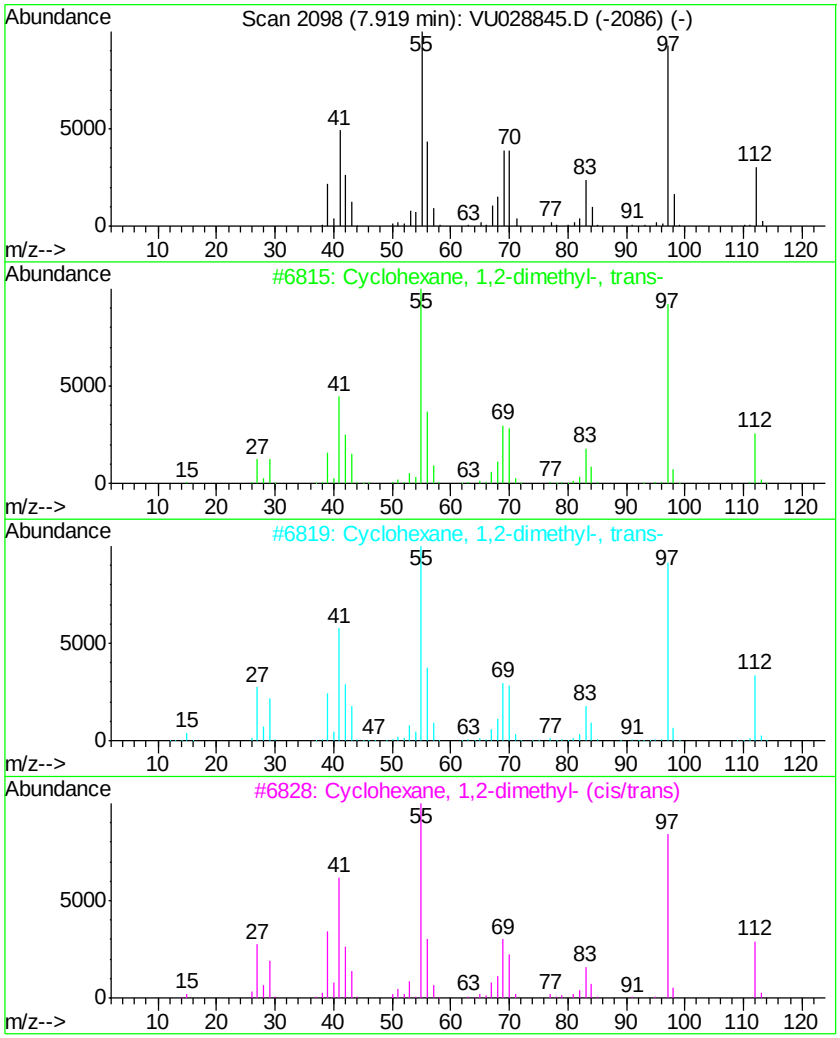
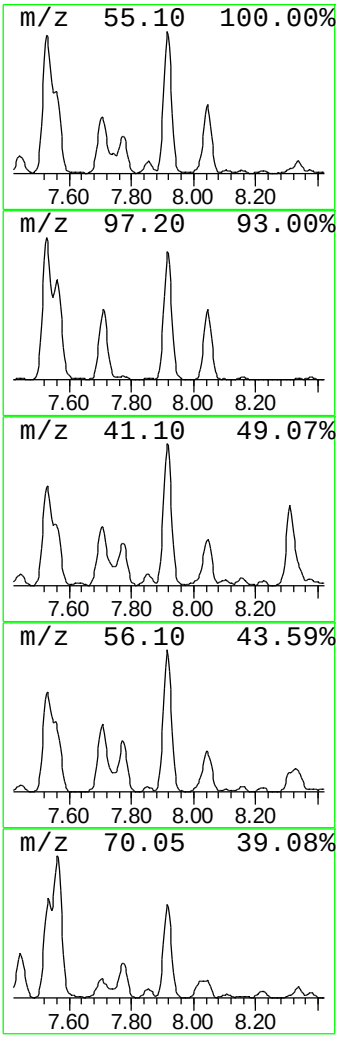
Peak Number 16 (DEL) Alkane: Cyclic7.92 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	26.78 ug/L	282380	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	81





Library Search Compound Report

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Data File : VU028845.D
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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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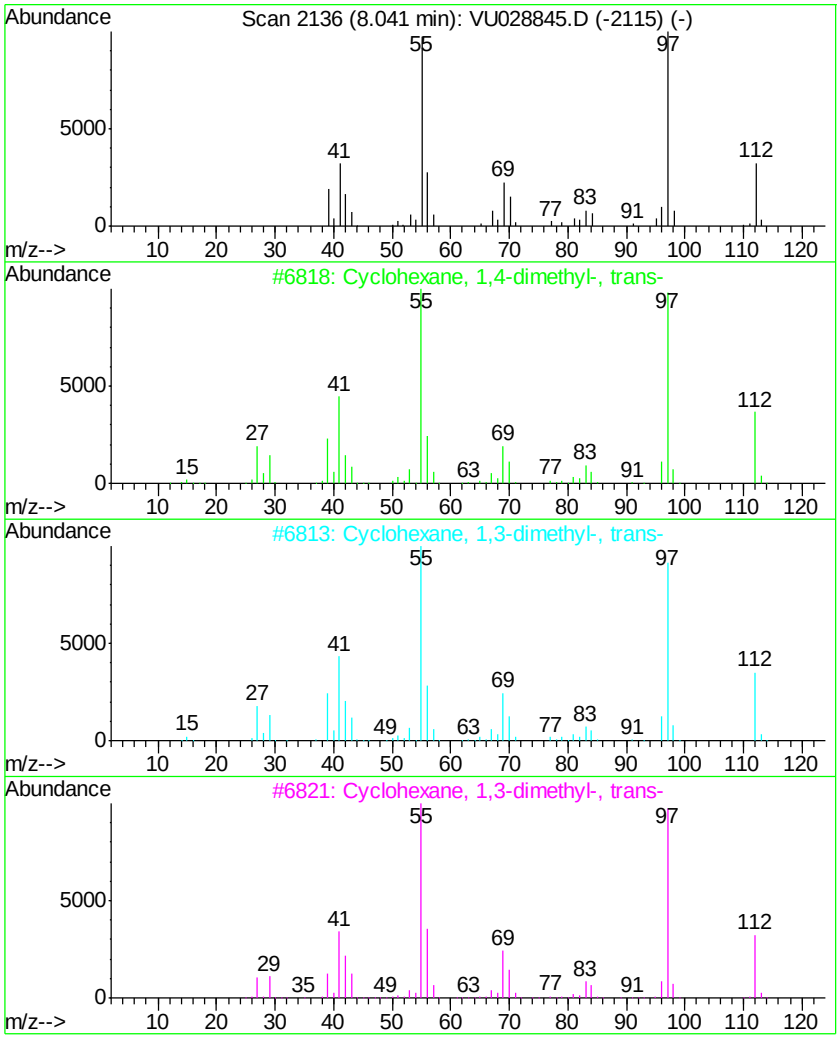
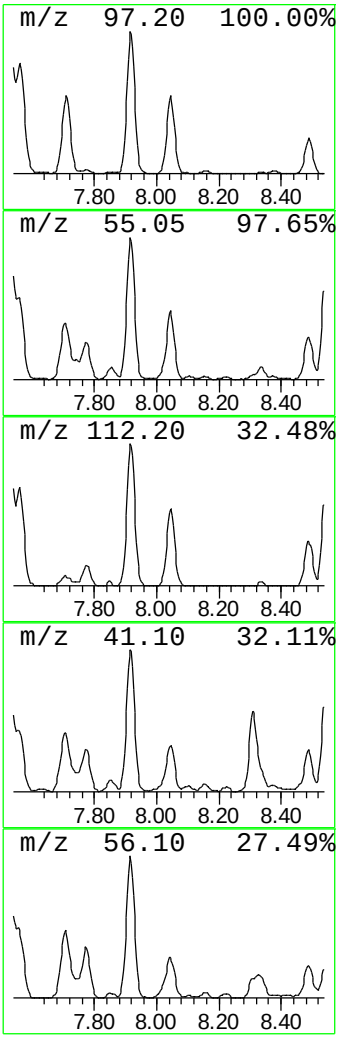
Peak Number 17 (DEL) Alkane: Cyclic8.04 Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	10.81 ug/L	113998	Chlorobenzene-d5	9.09

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





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

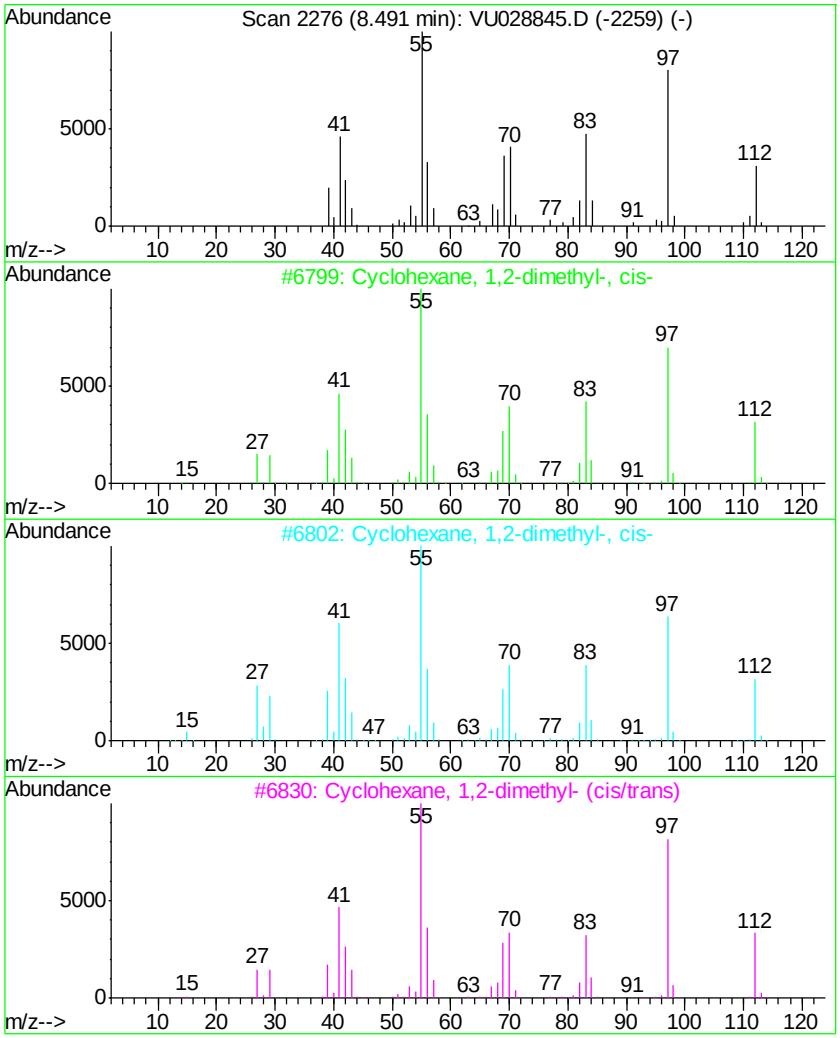
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

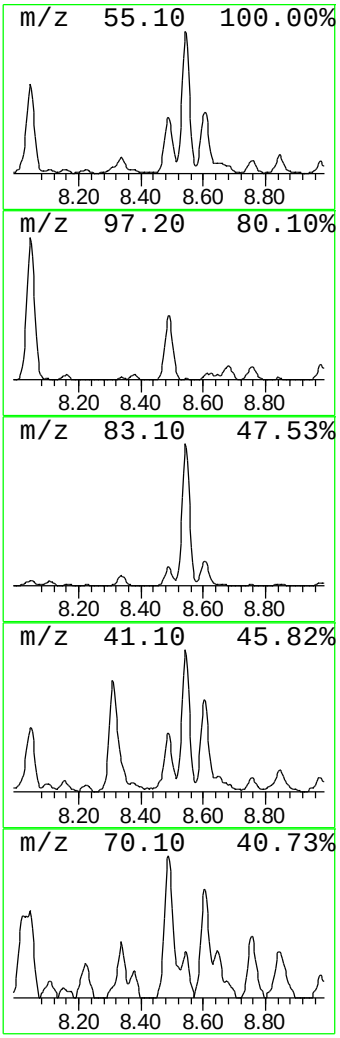
****

Peak Number 18 (DEL) Alkane: Cyclic8.49 Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.49	8.00 ug/L	84335	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	96
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	95
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	95
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	94
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	81





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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

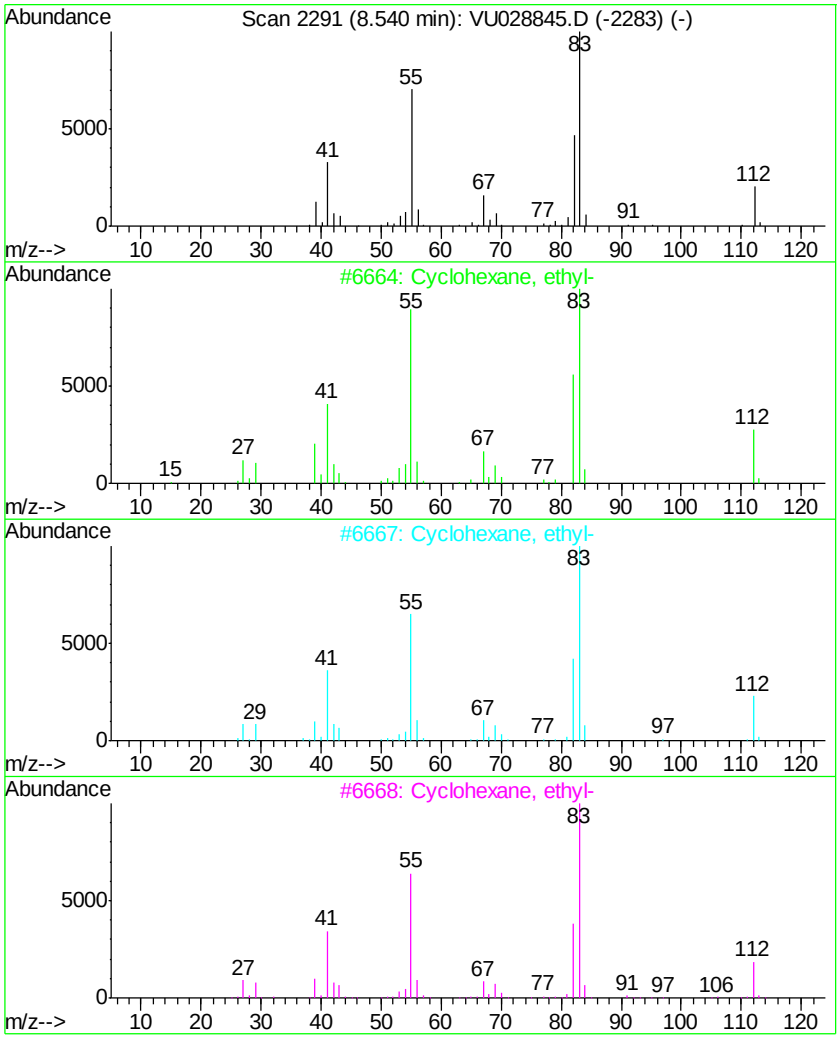
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

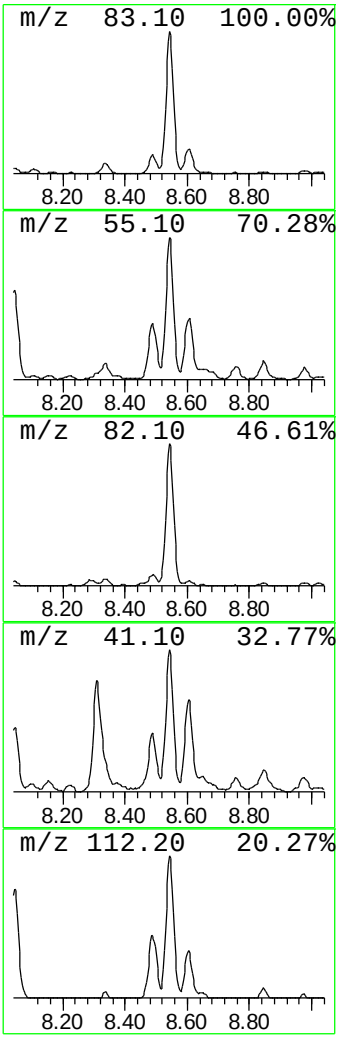
****

Peak Number 19 (DEL) Alkane: Cyclic8.54 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	14.97 ug/L	157901	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	3,4-Dimethyl-2-hexene	112	C8H16	002213-37-8	58





Library Search Compound Report

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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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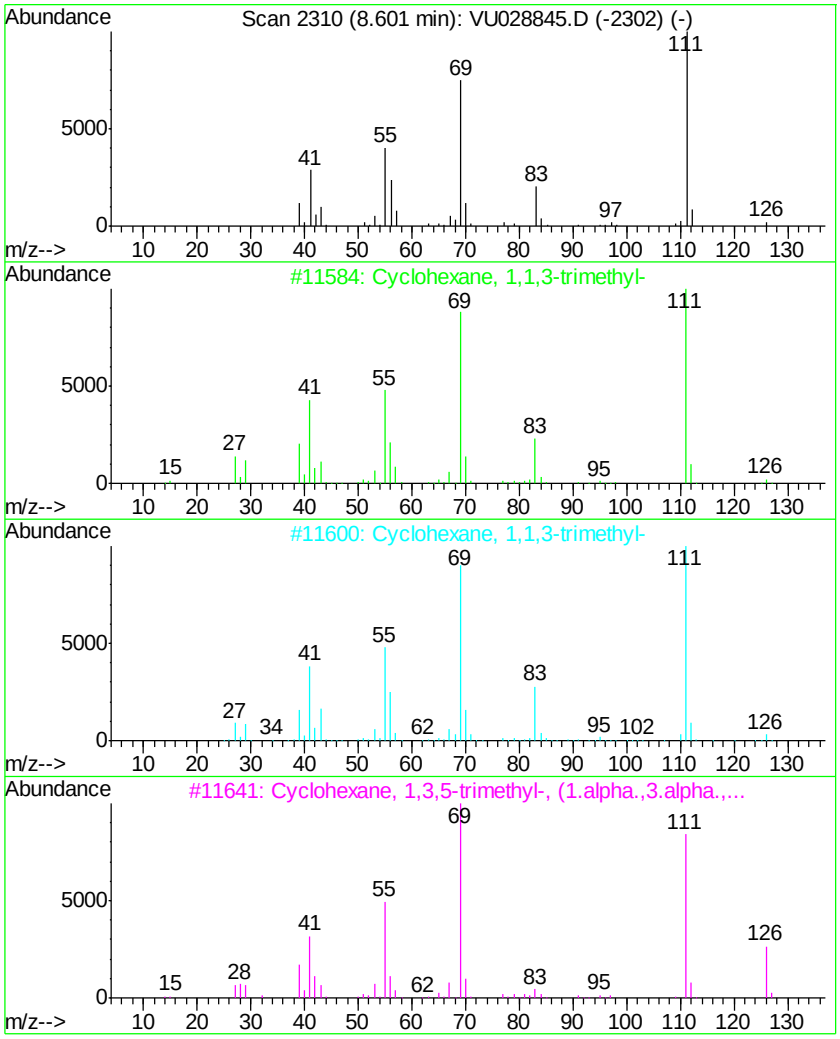
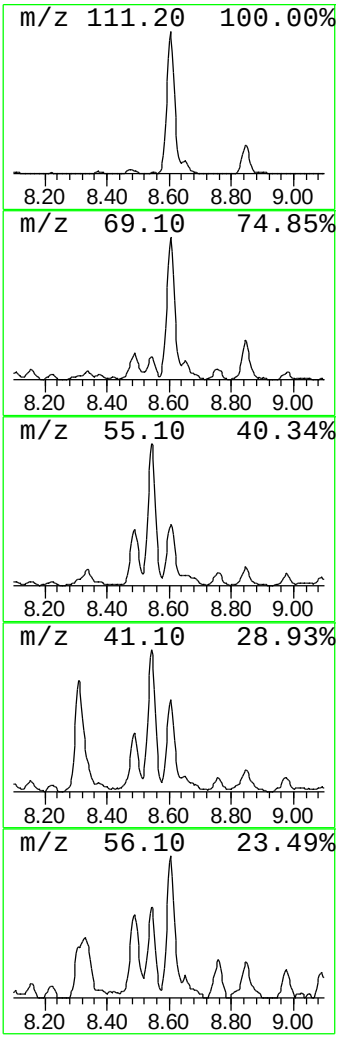
Peak Number 20 (DEL) Alkane: Cyclic8.60 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	10.88 ug/L	114758	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	94
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	83
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	64
4	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	56
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	53





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Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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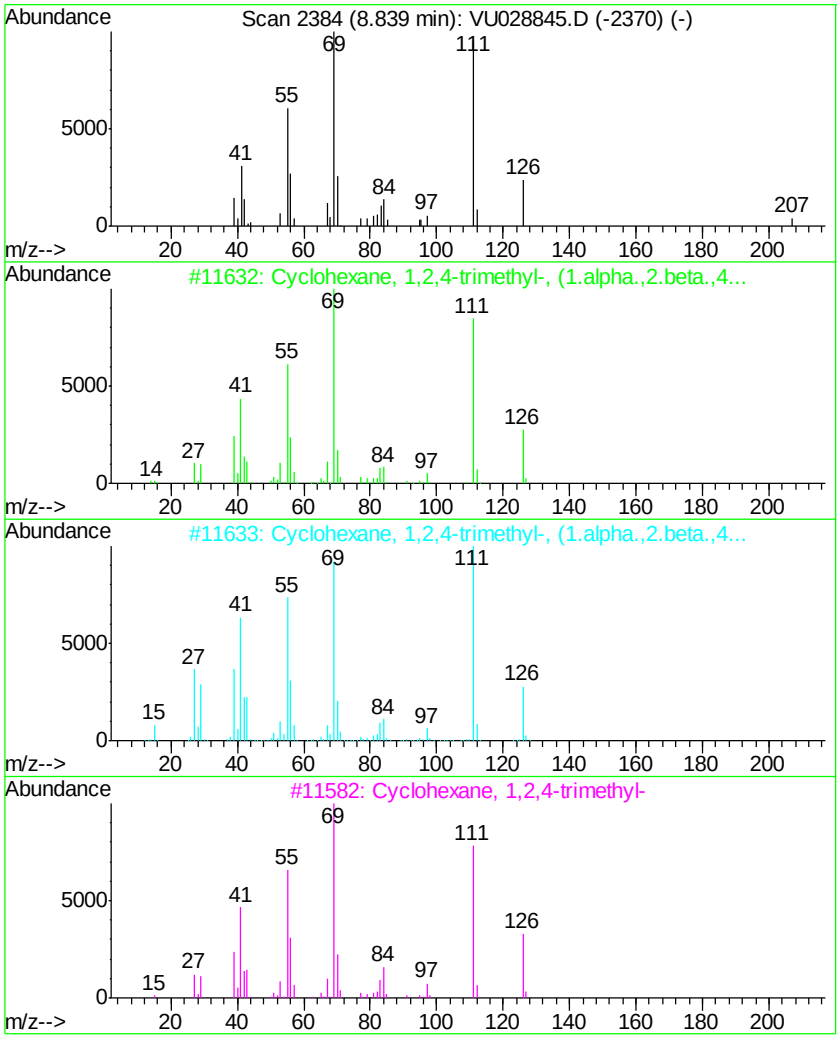
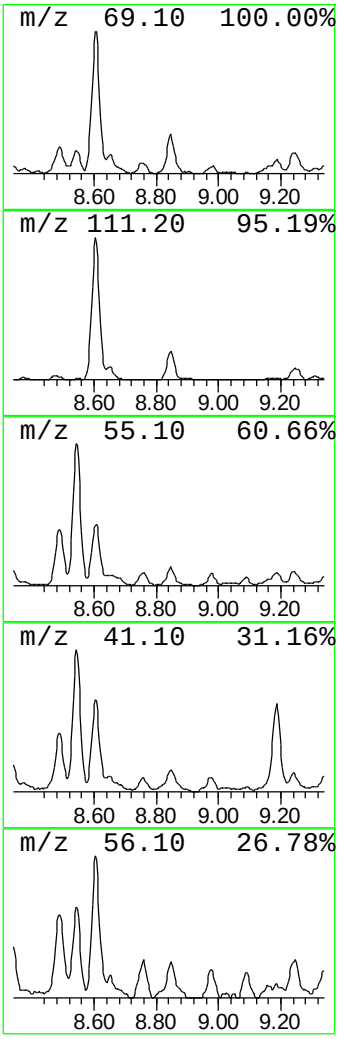
Peak Number 21 (DEL) Alkane: Cyclic8.84 Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.84	3.85 ug/L	40574	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	87
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	87
4	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	83
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	83





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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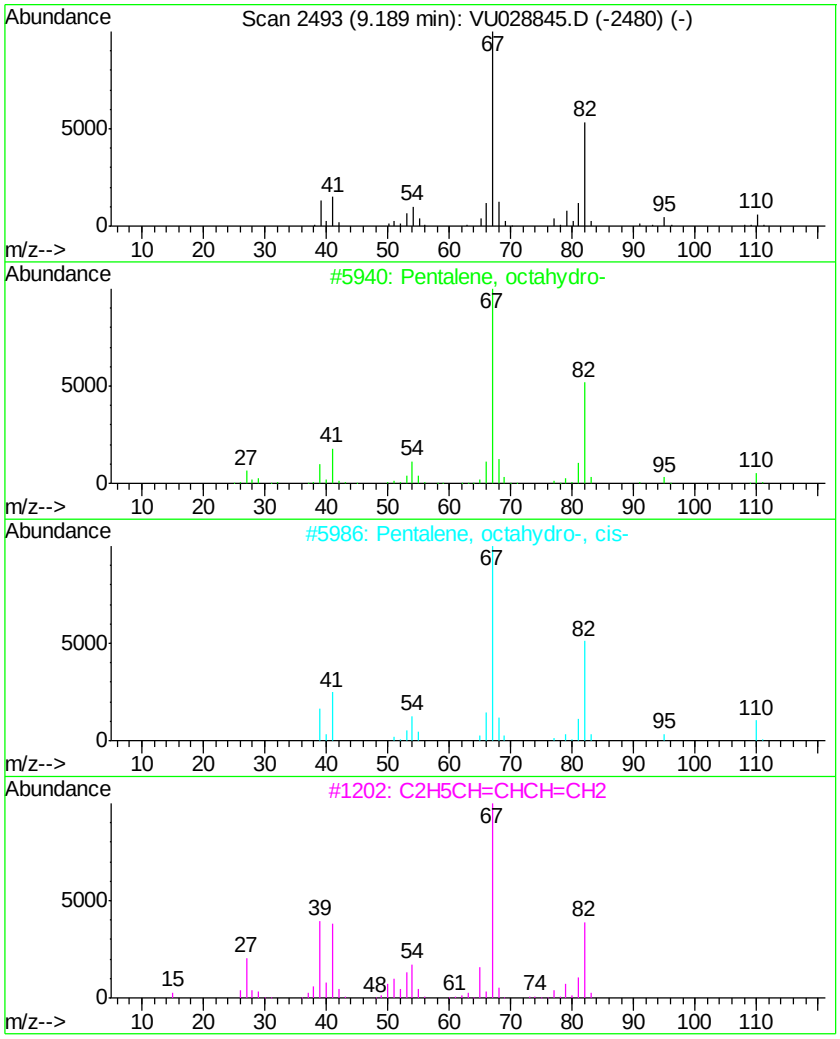
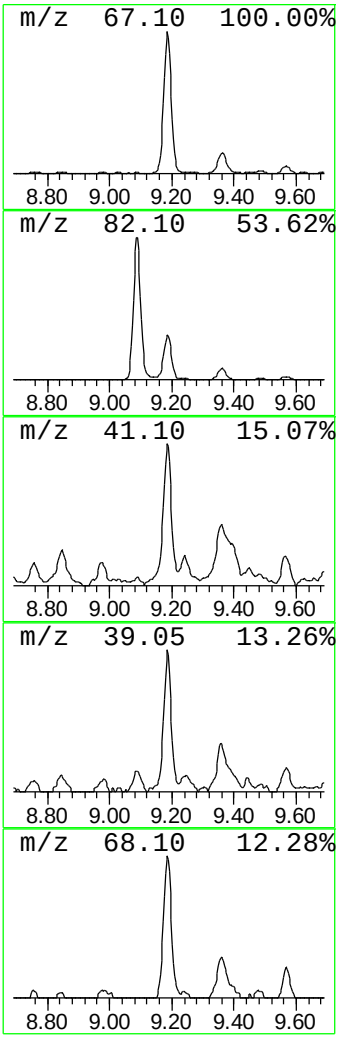
Peak Number 22 Pentalene, octahydro- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.19	15.59 ug/L	164358	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-	110	C8H14	000694-72-4	91
2	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	91
3	C2H5CH=CHCH=CH2	82	C6H10	000592-48-3	72
4	4-Methyl-2-pentyne	82	C6H10	021020-27-9	72
5	1,4-Hexadiene	82	C6H10	000592-45-0	72





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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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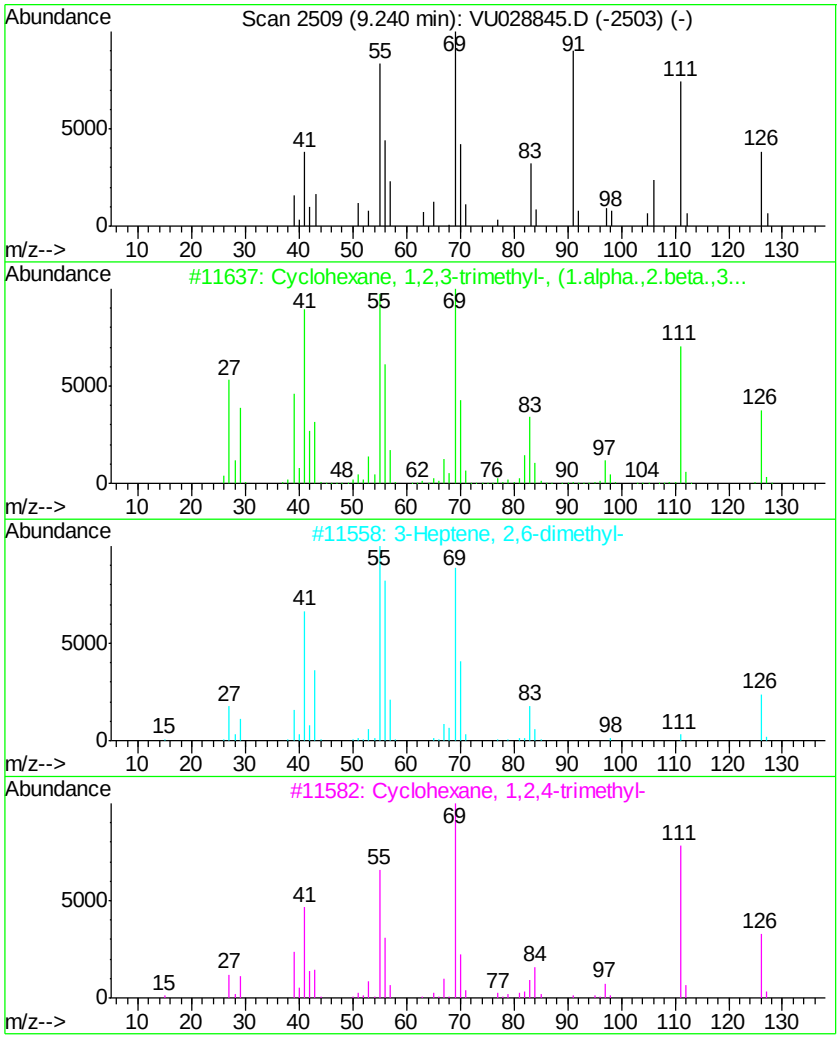
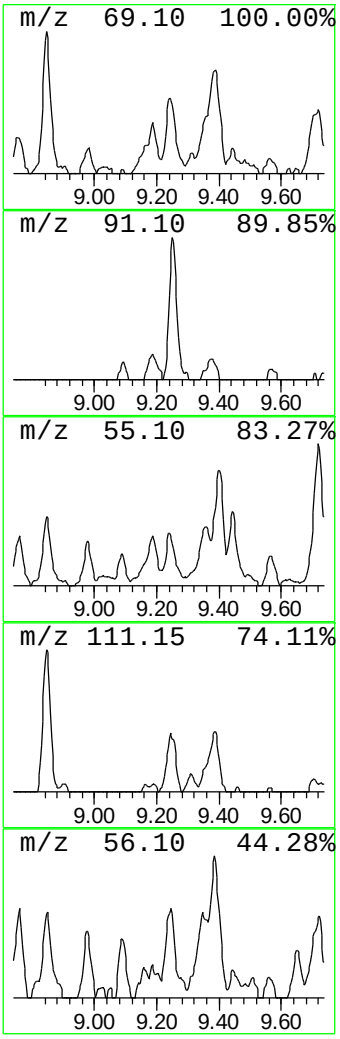
Peak Number 23 (DEL) Alkane: Cyclic9.24 Concentration Rank 75

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	3.08 ug/L	32467	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	001678-81-5	59
2	3-Heptene, 2,6-dimethyl-	126	C9H18	002738-18-3	53
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	53
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	53
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	50





Library Search Compound Report

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Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

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Quant Title : VOC Analysis

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

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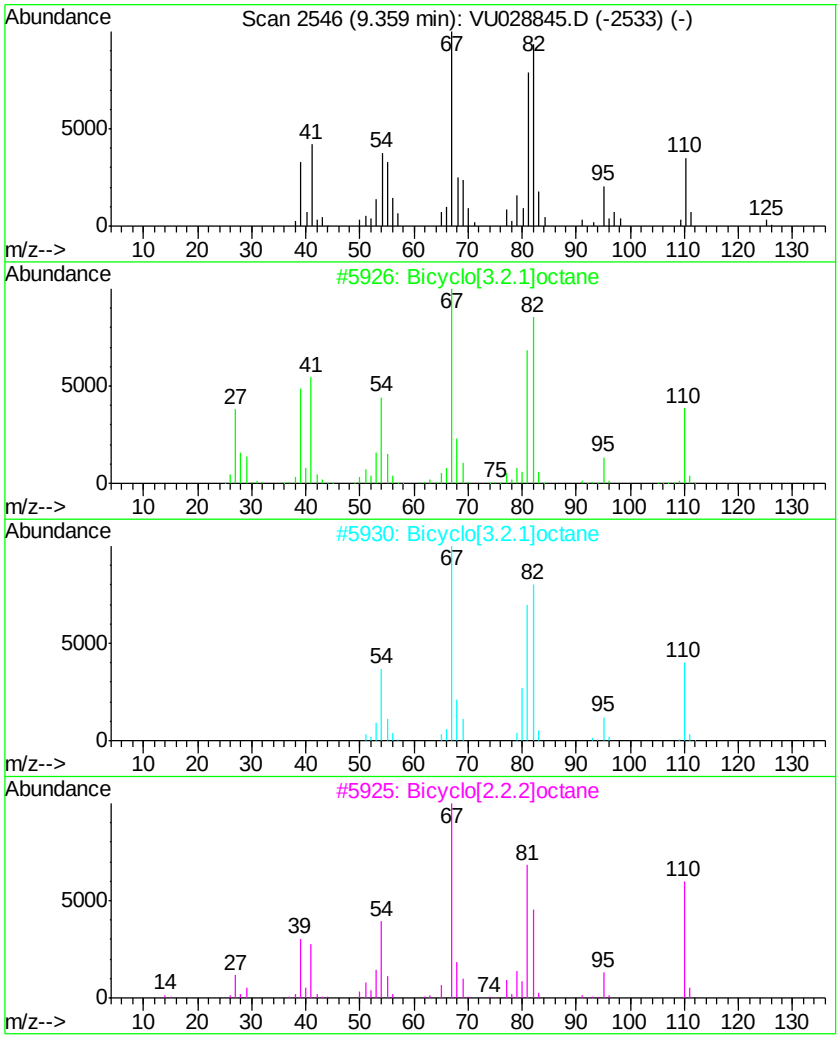
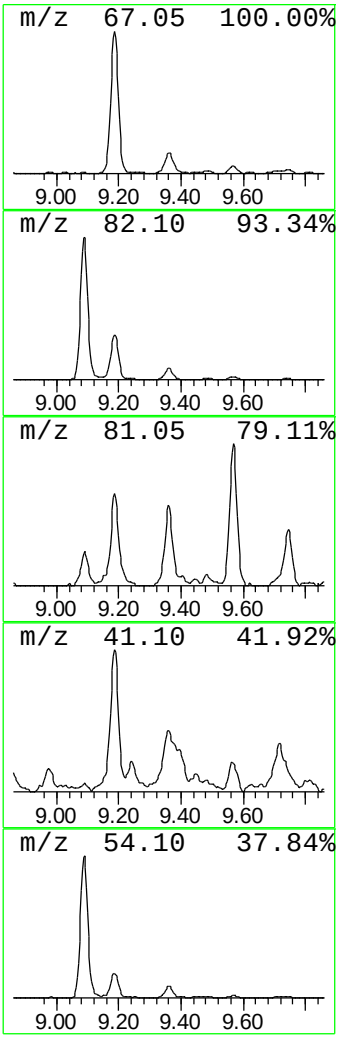
Peak Number 24 Bicyclo[3.2.1]octane Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	7.80 ug/L	82263	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	91
2	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	86
3	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	72
4	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	72
5	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	64





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Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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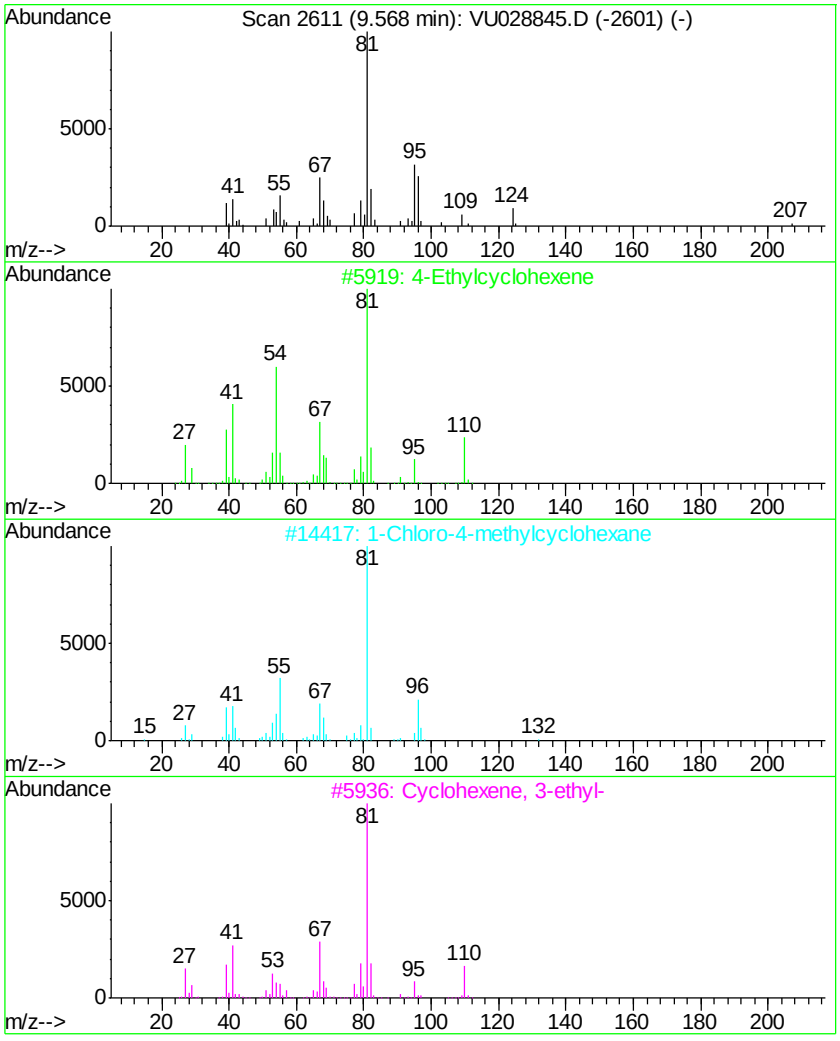
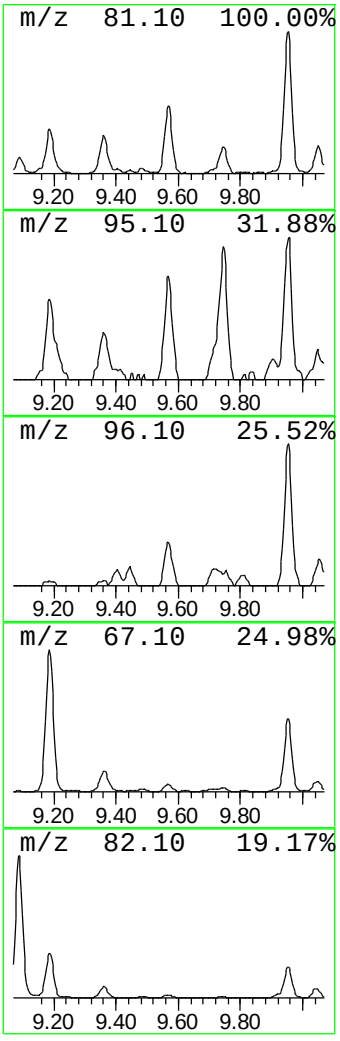
Peak Number 25 4-Ethylcyclohexene Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	4.00 ug/L	42165	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Ethylcyclohexene	110	C8H14	003742-42-5	59
2	1-Chloro-4-methylcyclohexane	132	C7H13Cl	000931-68-0	59
3	Cyclohexene, 3-ethyl-	110	C8H14	002808-71-1	59
4	Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	53
5	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	50





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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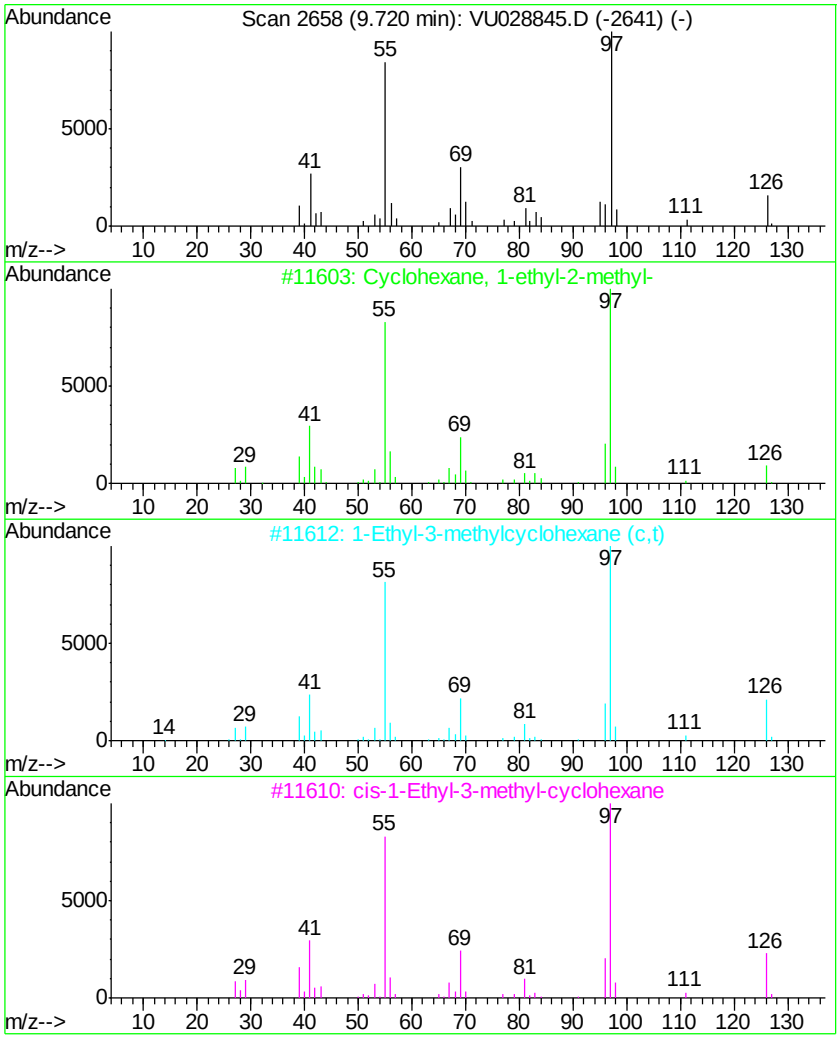
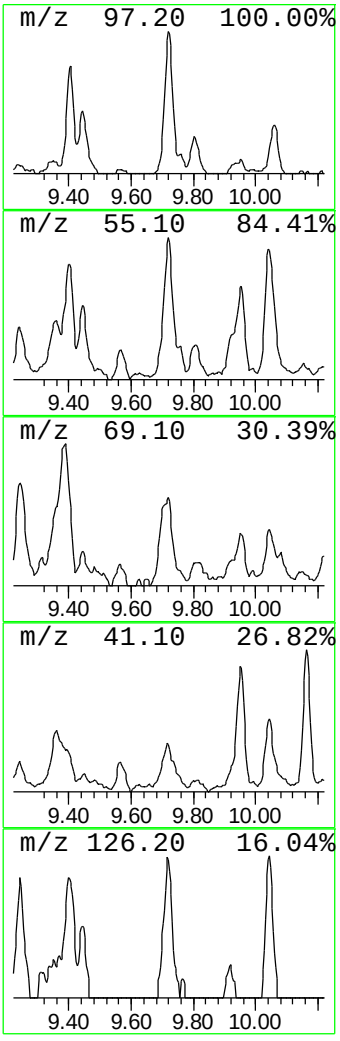
Peak Number 26 (DEL) Alkane: Cyclic9.72 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	7.29 ug/L	76824	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	87
2	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	81
3	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	81
4	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	81
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	74





Library Search Compound Report

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Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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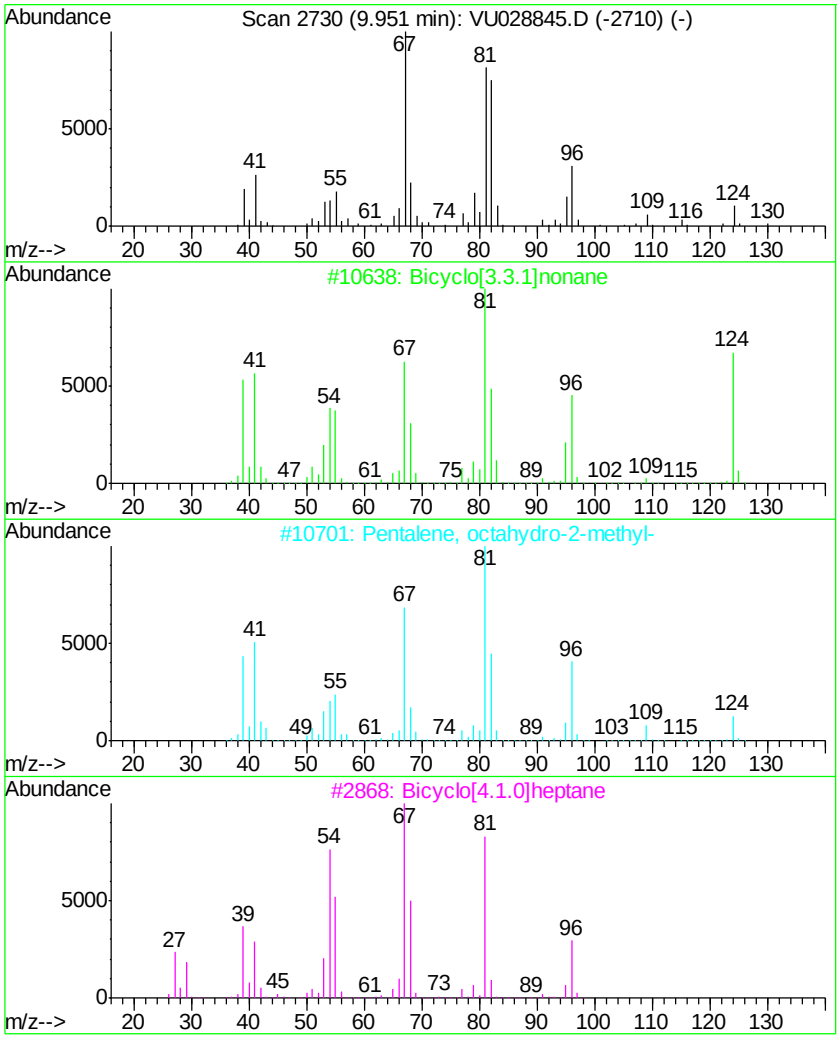
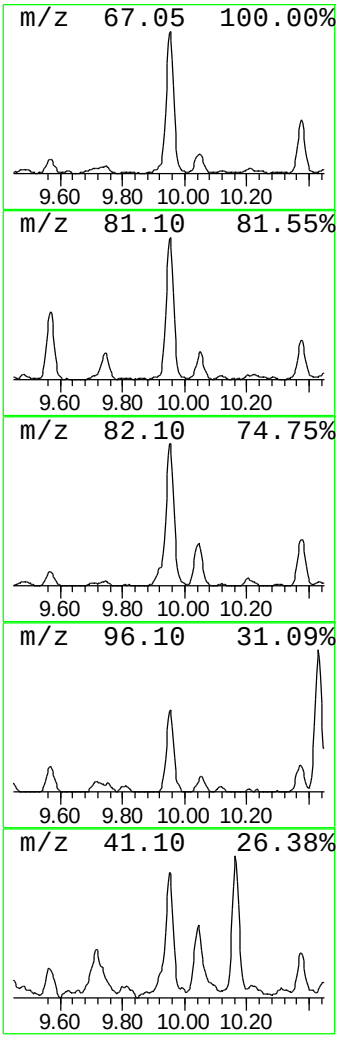
Peak Number 27 Bicyclo[3.3.1]nonane Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	17.13 ug/L	180590	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.3.1]nonane	124	C9H16	000280-65-9	64
2	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	49
3	Bicyclo[4.1.0]heptane	96	C7H12	000286-08-8	47
4	Pentalene, octahydro-1-methyl-	124	C9H16	032273-77-1	45
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	38





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Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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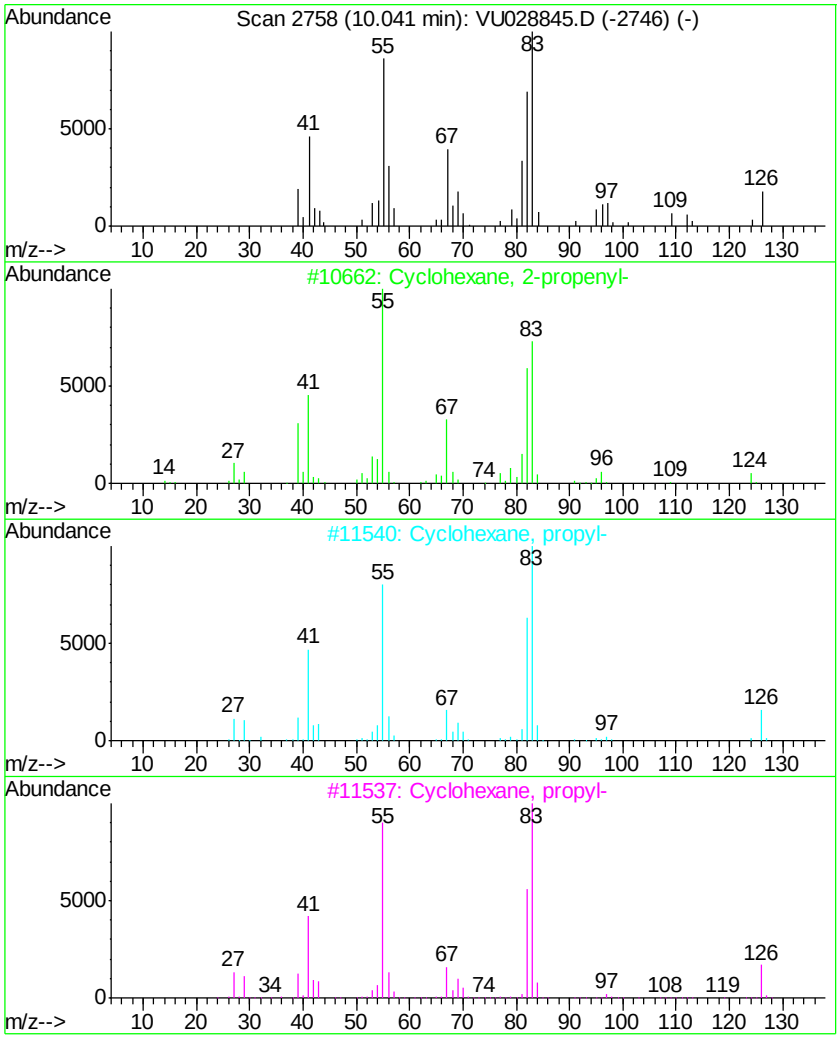
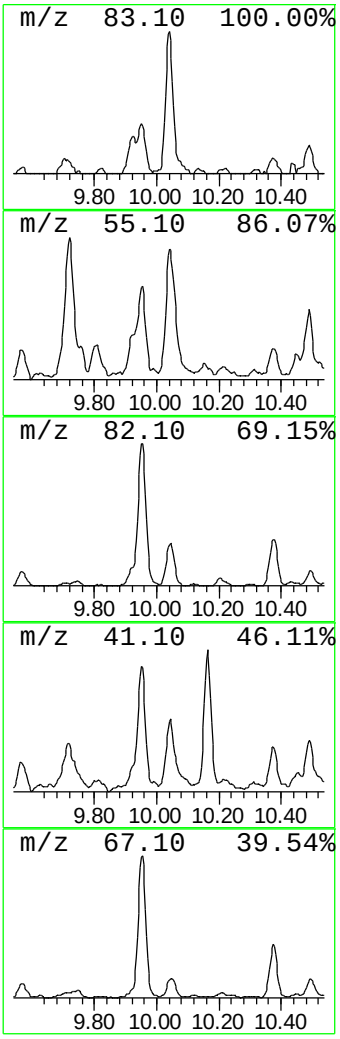
Peak Number 28 (DEL) Alkane: Cyclic10.04 Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	7.32 ug/L	77231	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	76
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	64
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	58
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	58
5	Cyclohexane, undecyl-	238	C17H34	054105-66-7	53





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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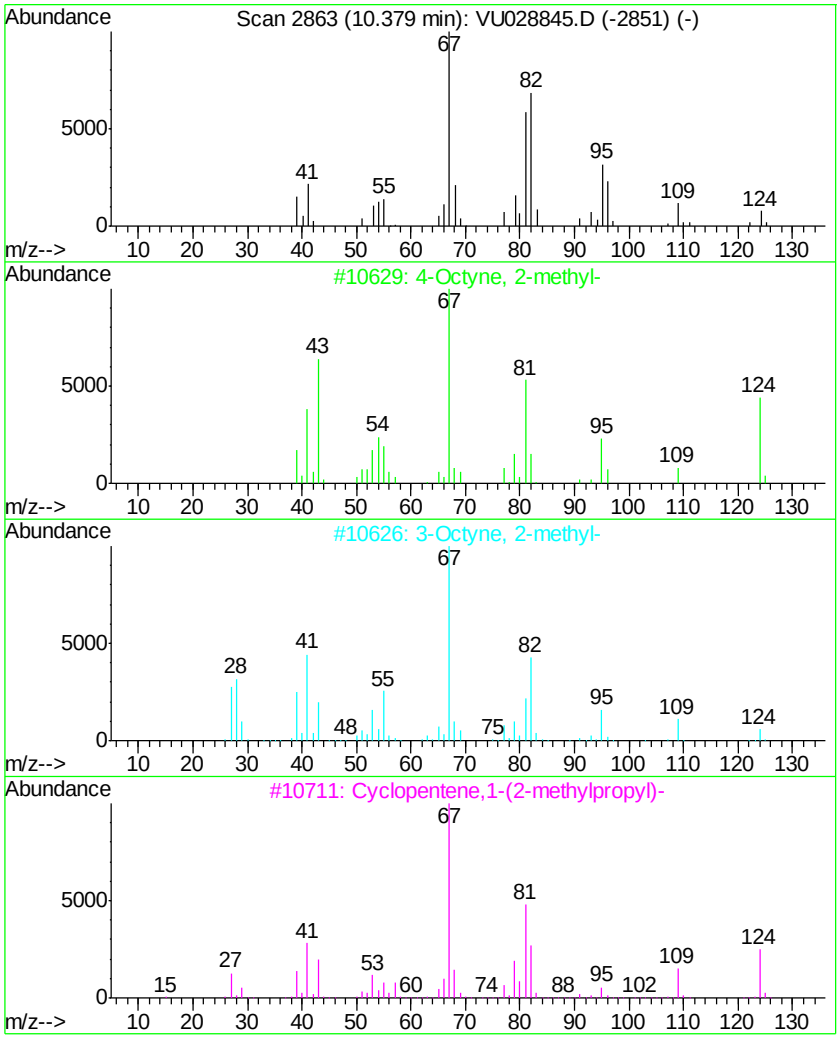
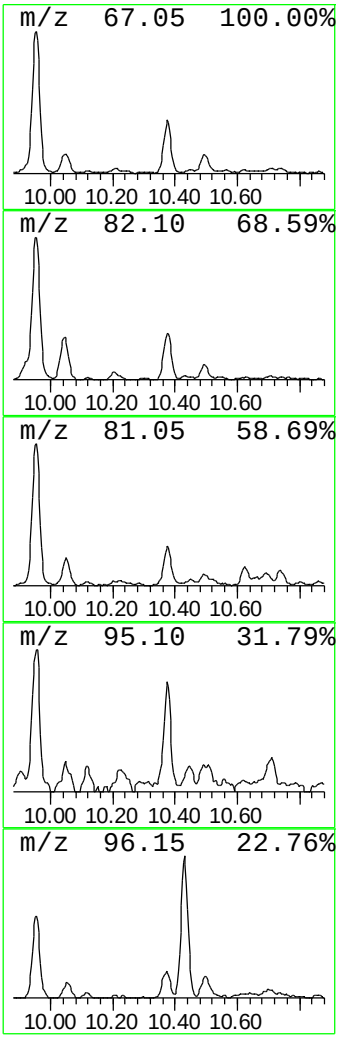
Peak Number 29 4-Octyne, 2-methyl- Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.38	5.32 ug/L	53854	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Octyne, 2-methyl-	124	C9H16	010306-94-2	52
2	3-Octyne, 2-methyl-	124	C9H16	055402-15-8	50
3	Cyclopentene,1-(2-methylpropyl)-	124	C9H16	053098-47-8	50
4	2-Ethylidenecyclohexanone	124	C8H12O	001122-24-3	50
5	4-Methyl-2-pentyne	82	C6H10	021020-27-9	49





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

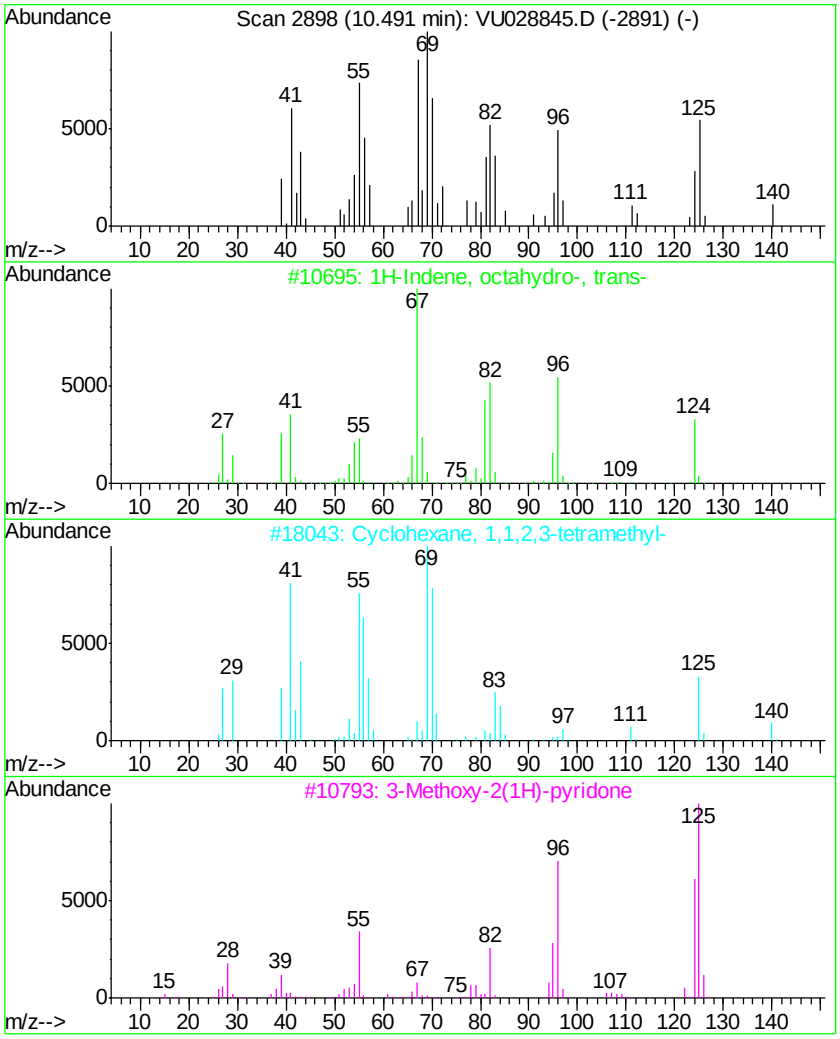
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

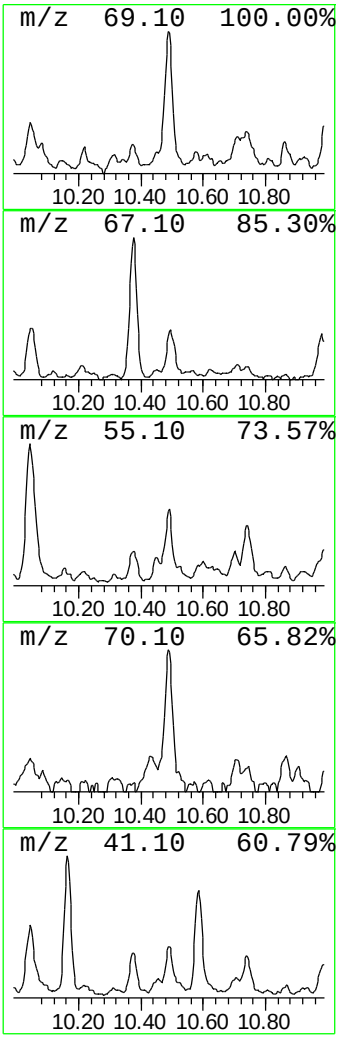
****

Peak Number 30 unknown-01 Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	5.46 ug/L	55357	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	46
2	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	46
3	3-Methoxy-2(1H)-pyridone	125	C6H7NO2	020928-63-6	30
4	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	30
5	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	30





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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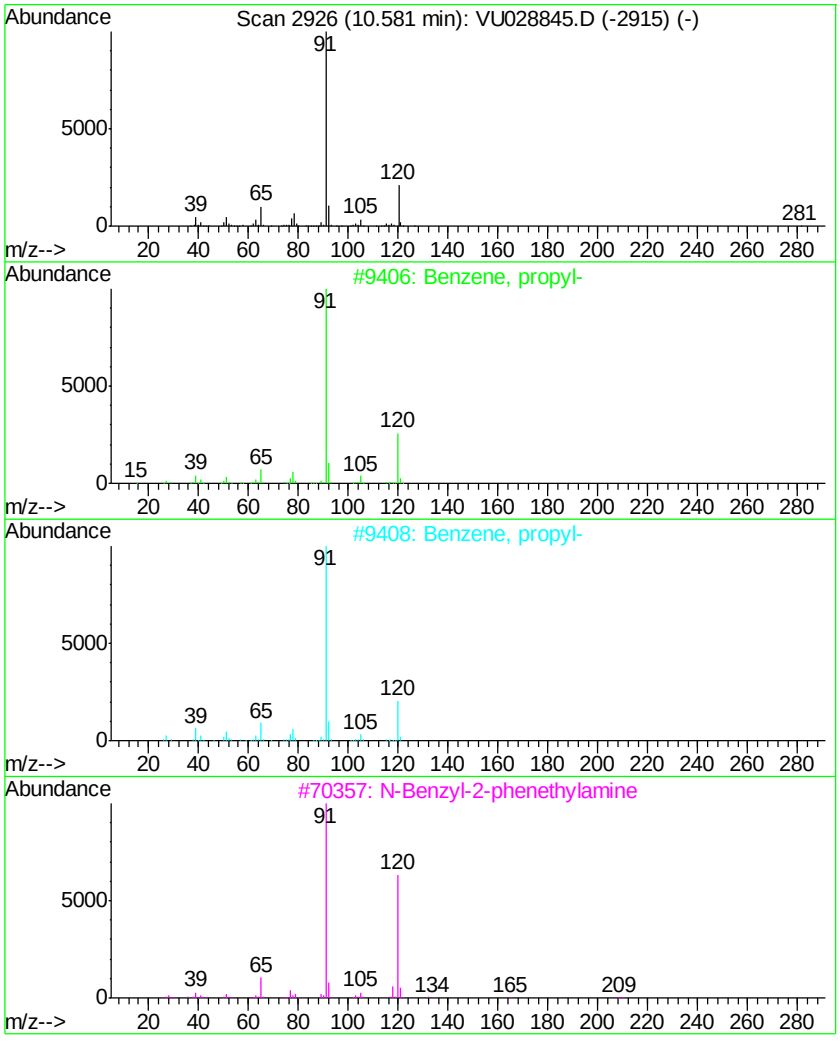
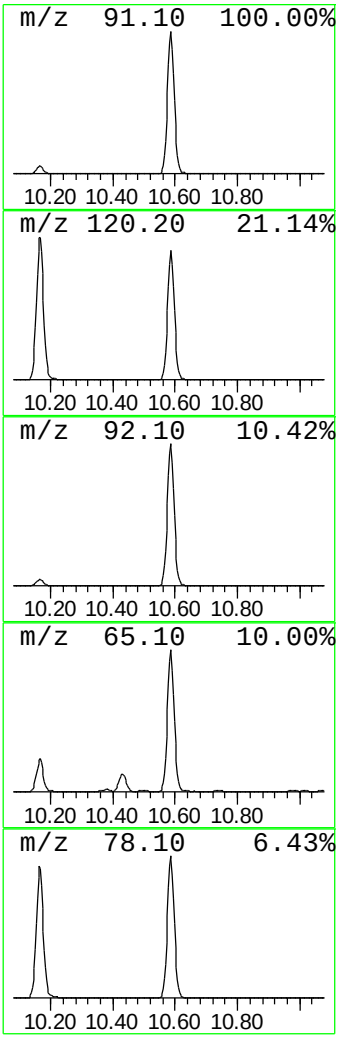
Peak Number 31 Benzene, propyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	69.93 ug/L	708325	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	Benzene, propyl-	120	C9H12	000103-65-1	90
3	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	72
4	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	72
5	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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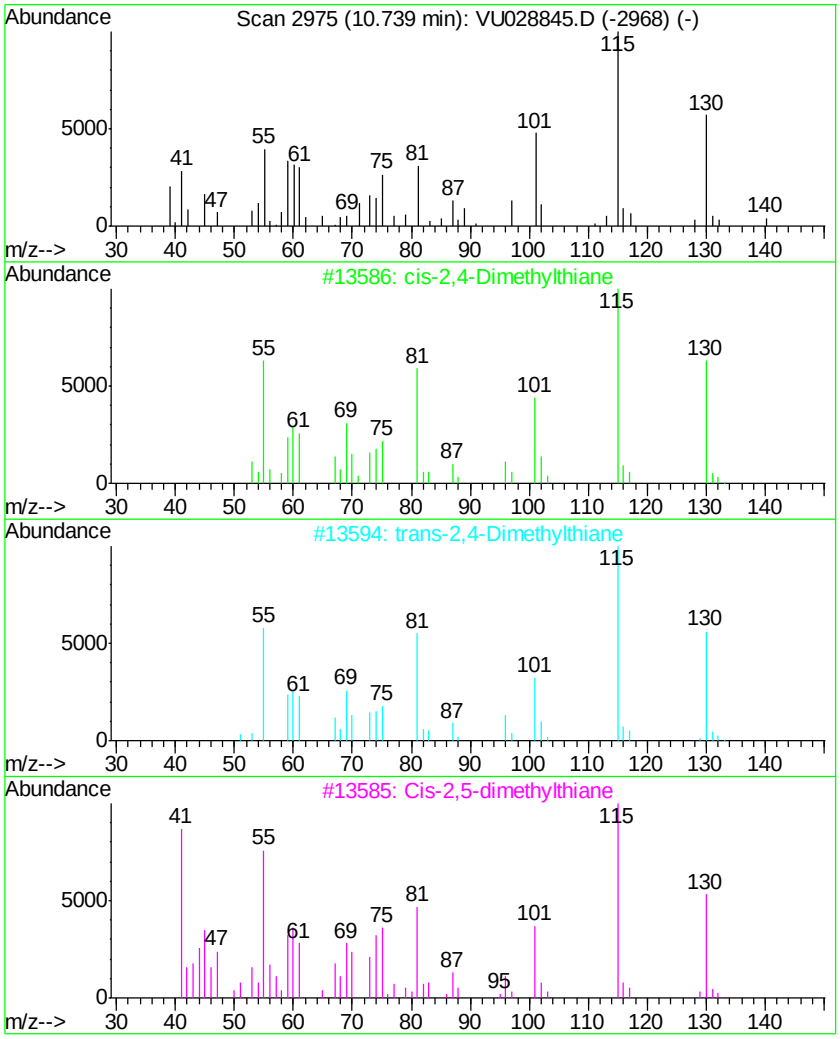
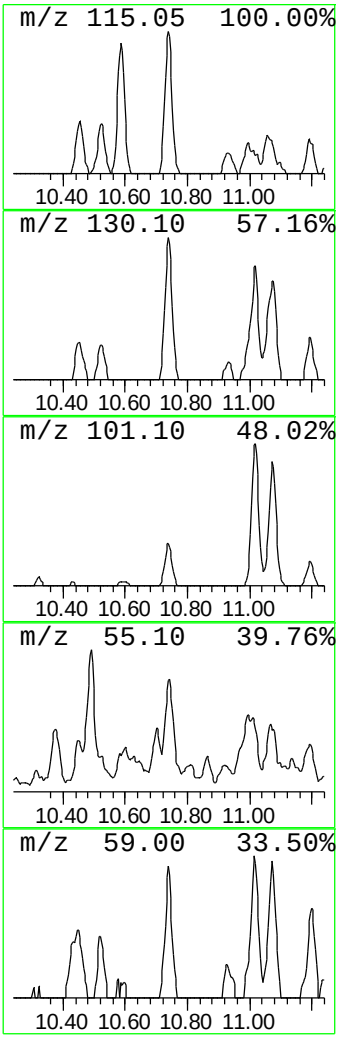
Peak Number 32 cis-2,4-Dimethylthiane Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.74	4.97 ug/L	50317	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-2,4-Dimethylthiane	130	C7H14S	061568-43-2	95
2	trans-2,4-Dimethylthiane	130	C7H14S	061568-42-1	94
3	Cis-2,5-dimethylthiane	130	C7H14S	1000215-06-6	81
4	Cis-2,3-dimethylthiane	130	C7H14S	1000215-06-5	58
5	Benzene, 1-butynyl-	130	C10H10	000622-76-4	46





Library Search Compound Report

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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

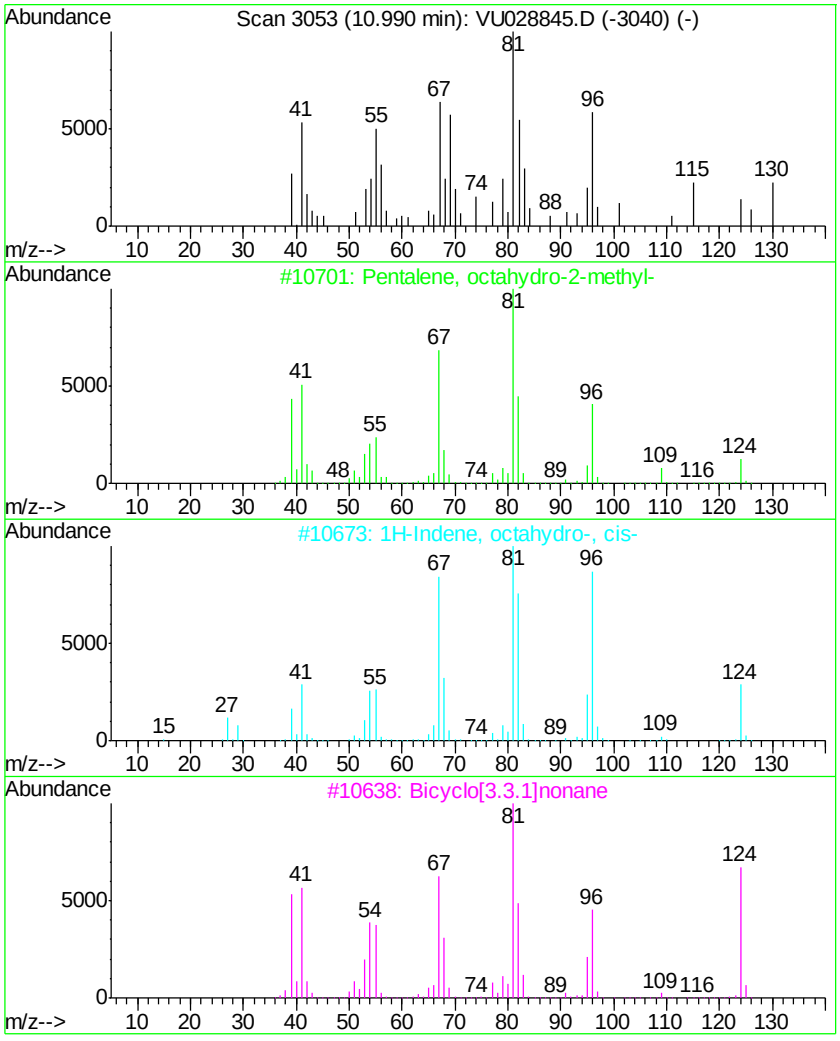
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

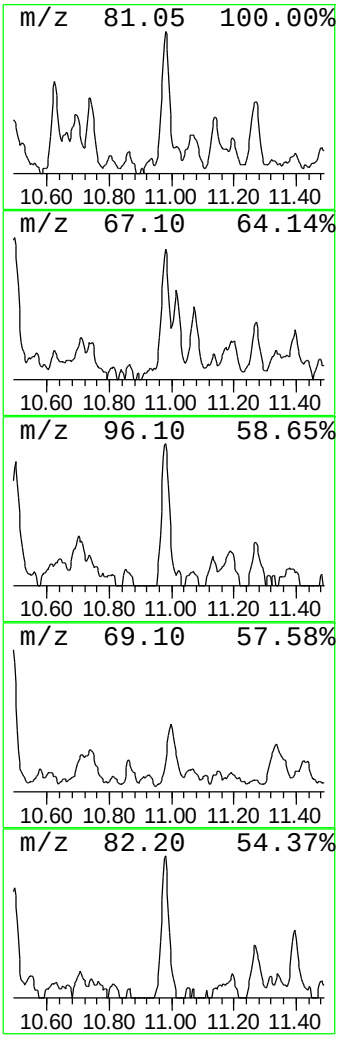
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 Pentalene, octahydro-2-methyl- Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	3.21 ug/L	32547	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	90
2	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	81
3	Bicyclo[3.3.1]nonane	124	C9H16	000280-65-9	74
4	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	52
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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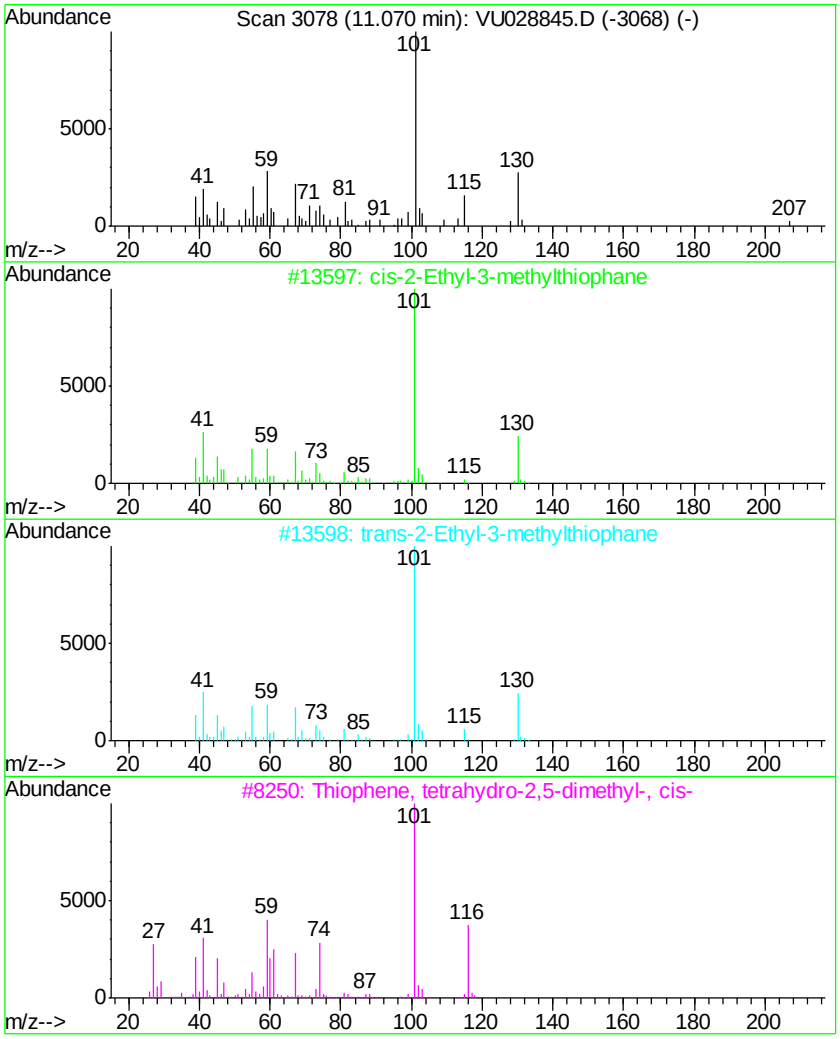
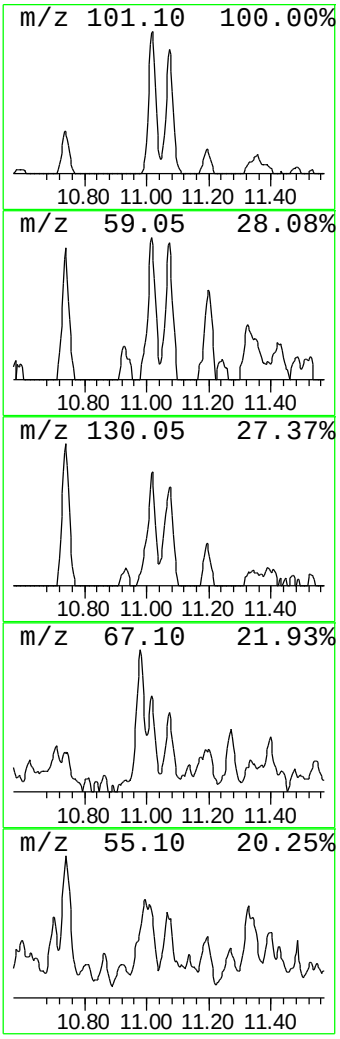
Peak Number 34 cis-2-Ethyl-3-methylthiophane Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.07	4.24 ug/L	42999	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-2-Ethyl-3-methylthiophane	130	C7H14S	061568-37-4	83
2	trans-2-Ethyl-3-methylthiophane	130	C7H14S	061568-36-3	68
3	Thiophene, tetrahydro-2,5-dimeth...	116	C6H12S	005161-13-7	50
4	2-Amino-2-thiazoline-4-carboxyli...	146	C4H6N2O2S	002150-55-2	49
5	2-methyl-2-(2-methyl-3-thienylth...	230	C10H14S3	1000365-97-2	45





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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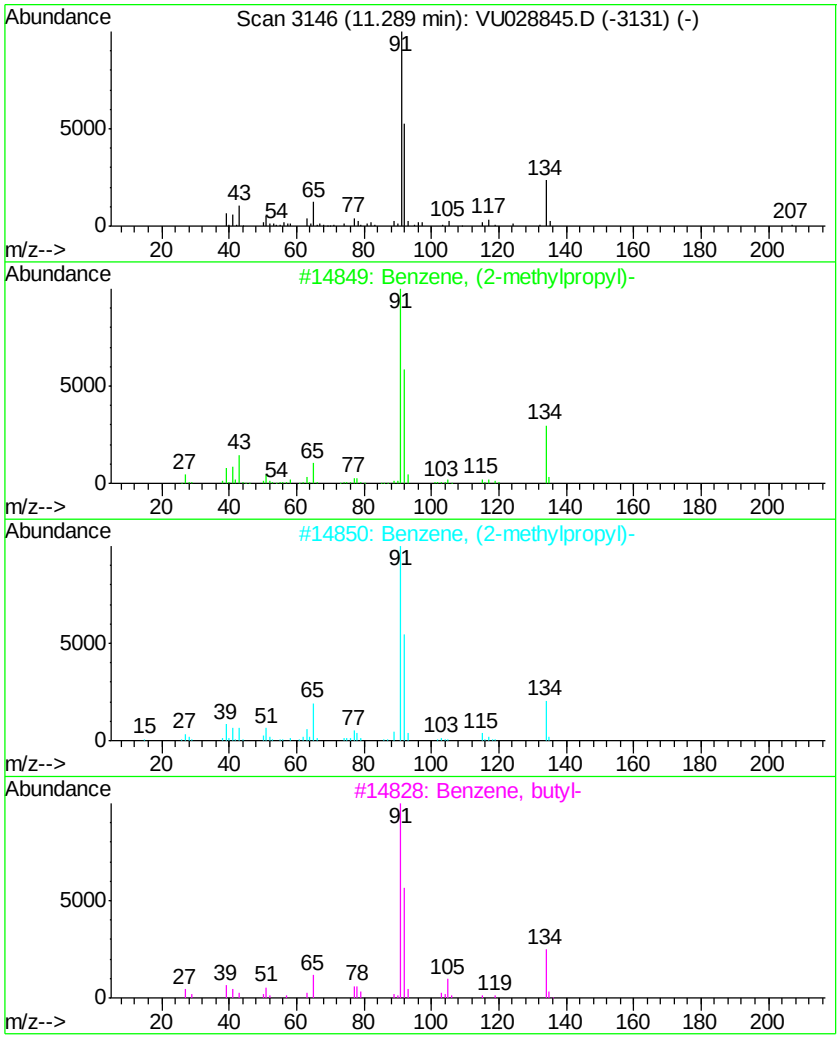
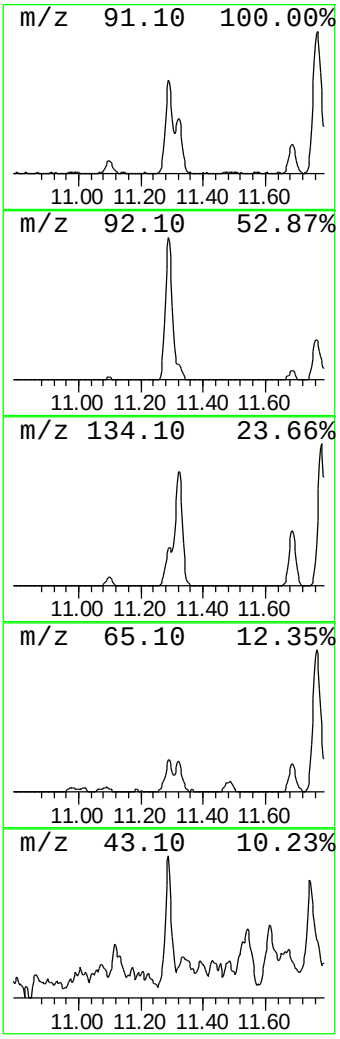
Peak Number 35 Benzene, (2-methylpropyl)- Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	5.85 ug/L	59300	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	86
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	86
3	Benzene, butyl-	134	C10H14	000104-51-8	80
4	Benzene, butyl-	134	C10H14	000104-51-8	80
5	Benzene, butyl-	134	C10H14	000104-51-8	72





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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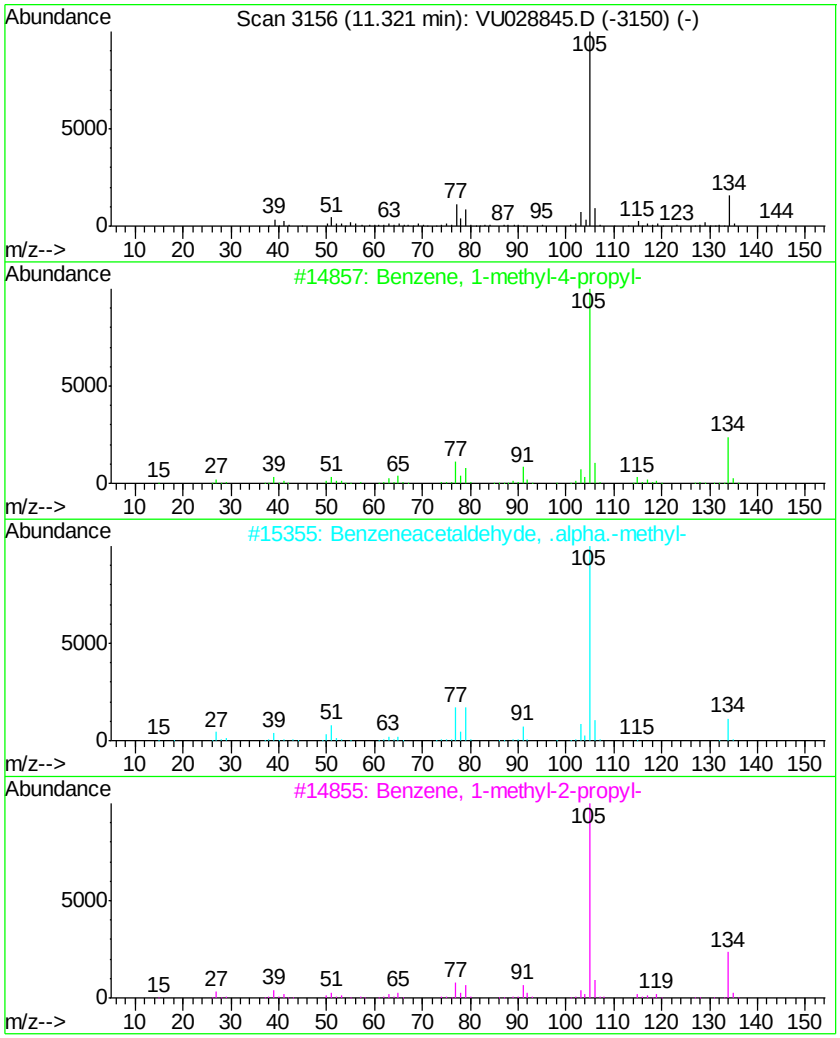
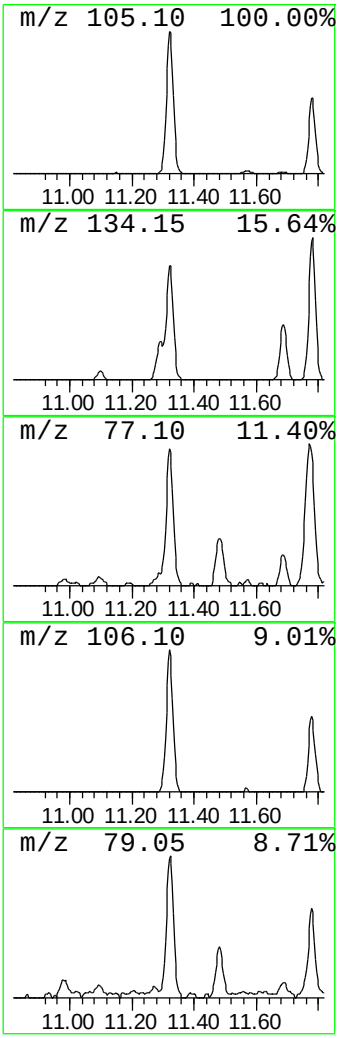
Peak Number 36 Benzene, 1-methyl-4-propyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	19.47 ug/L	197176	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	87
2	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	74
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	72
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	72
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	72





Library Search Compound Report

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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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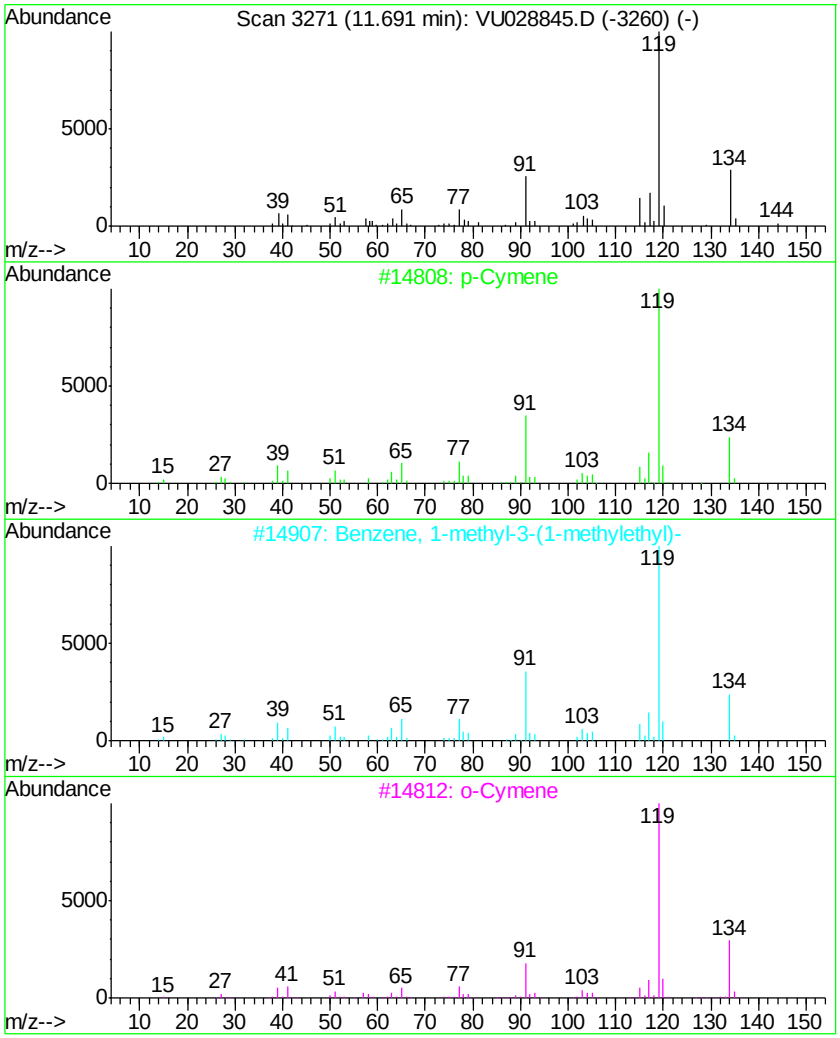
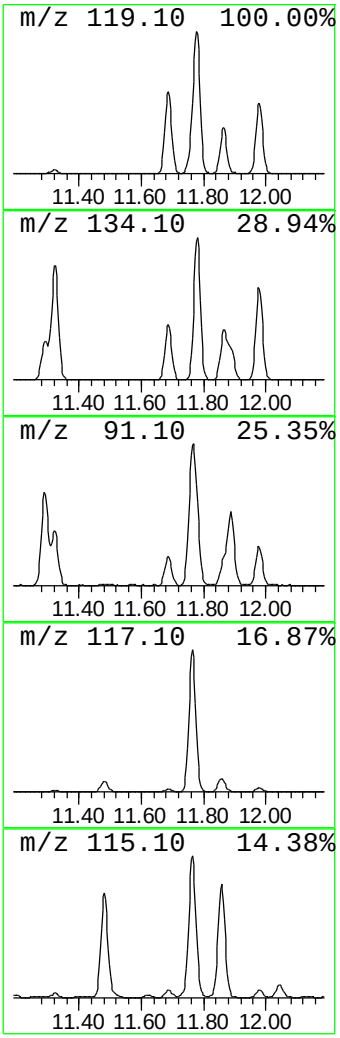
Peak Number 37 p-Cymene Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	7.63 ug/L	77310	1,4-Dichlorobenzene-d4	11.48

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





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Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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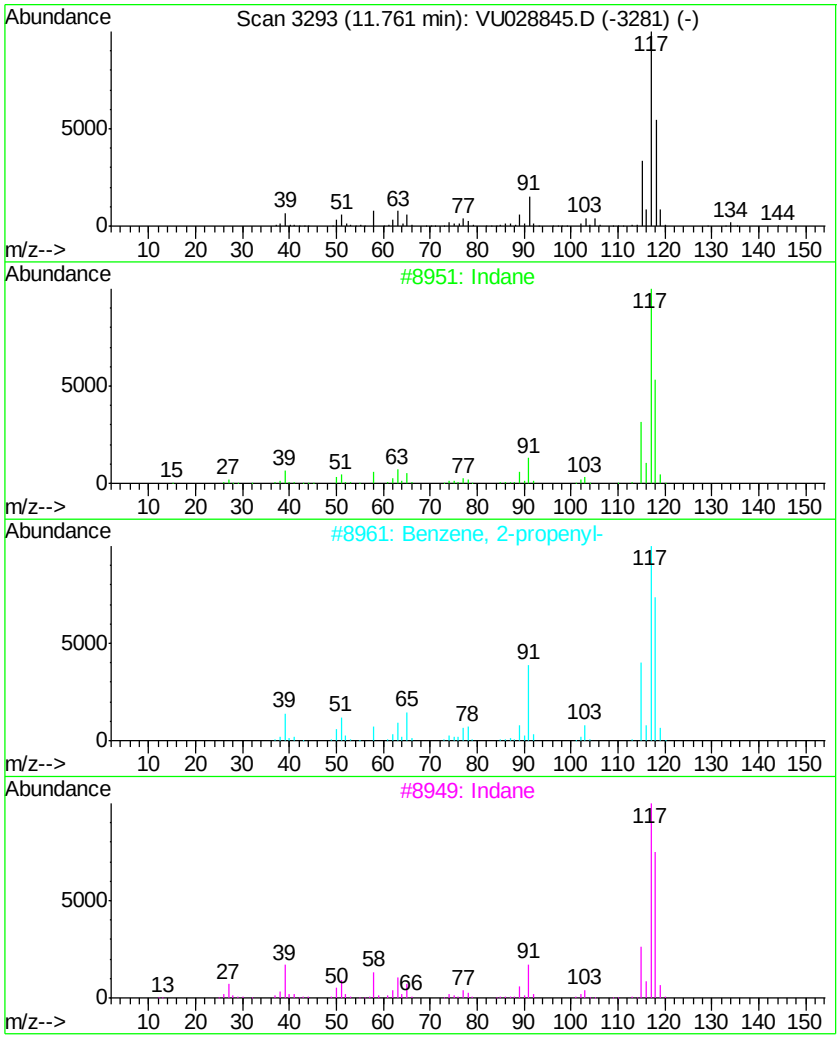
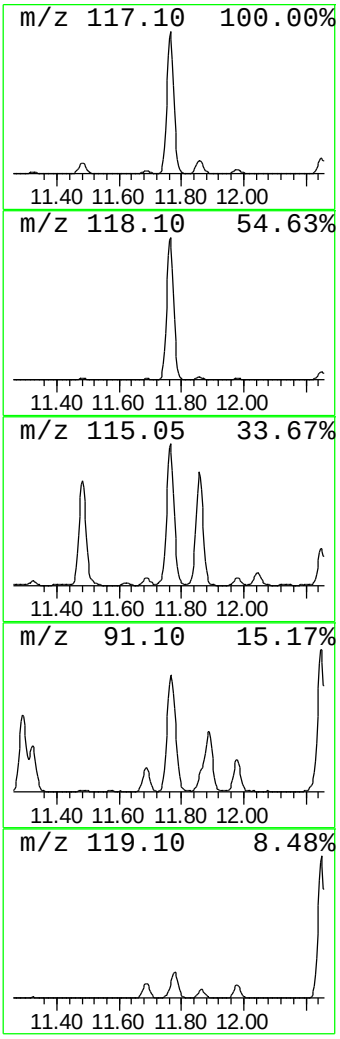
Peak Number 38 Indane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	73.79 ug/L	747510	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	90
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	87
3	Indane	118	C9H10	000496-11-7	81
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	74
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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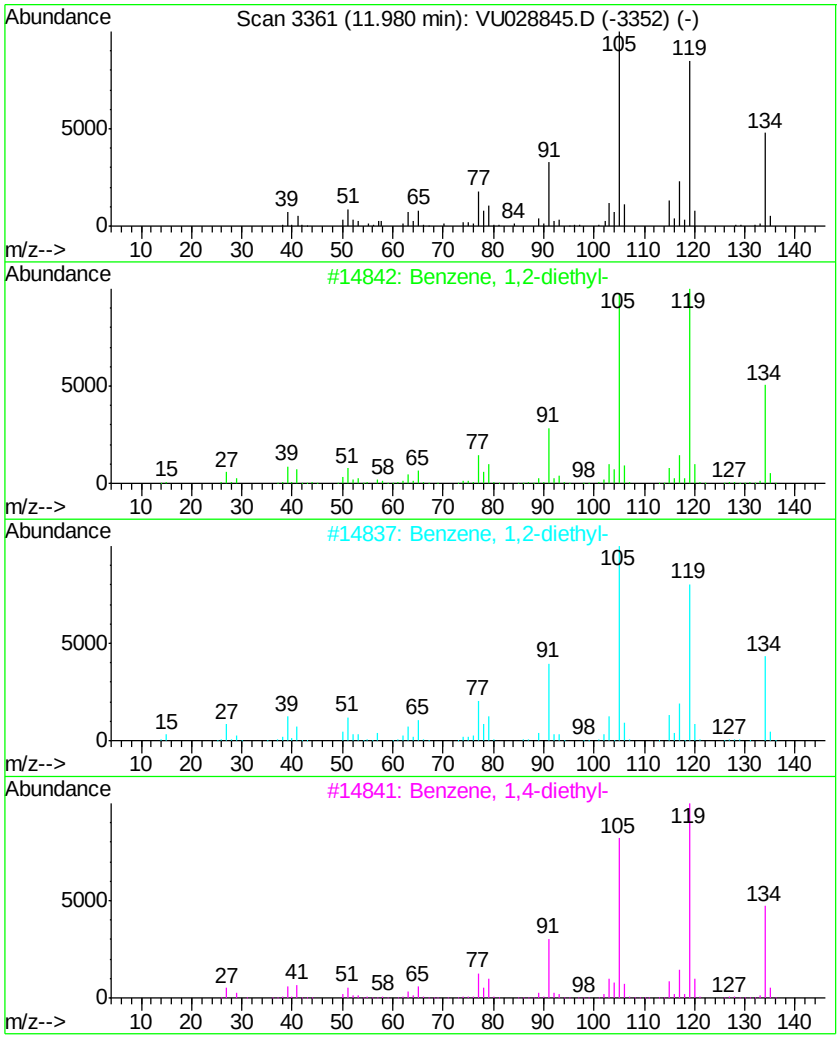
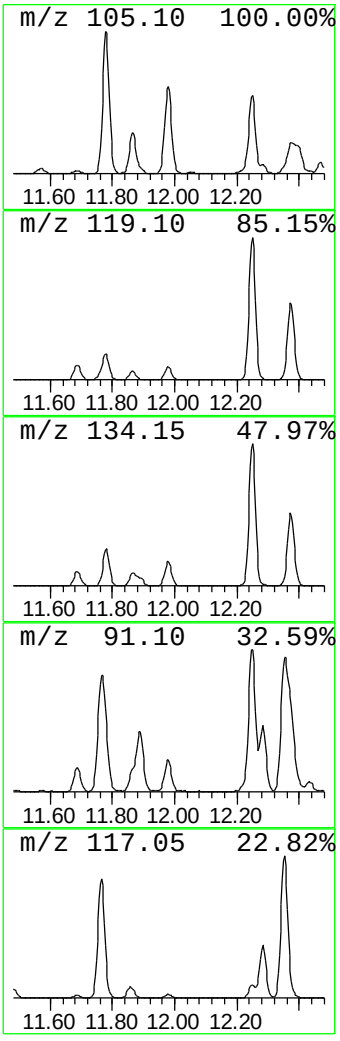
Peak Number 39 Benzene, 1,2-diethyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	11.23 ug/L	113802	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	97
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	94
3	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	93
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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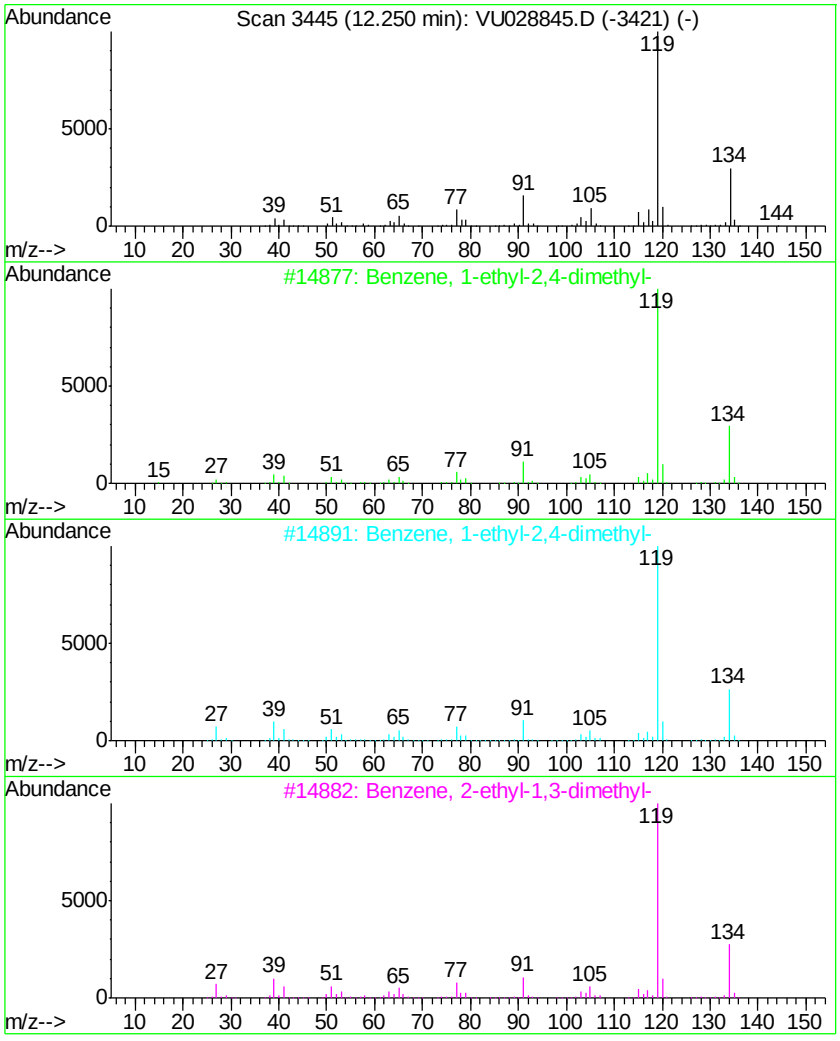
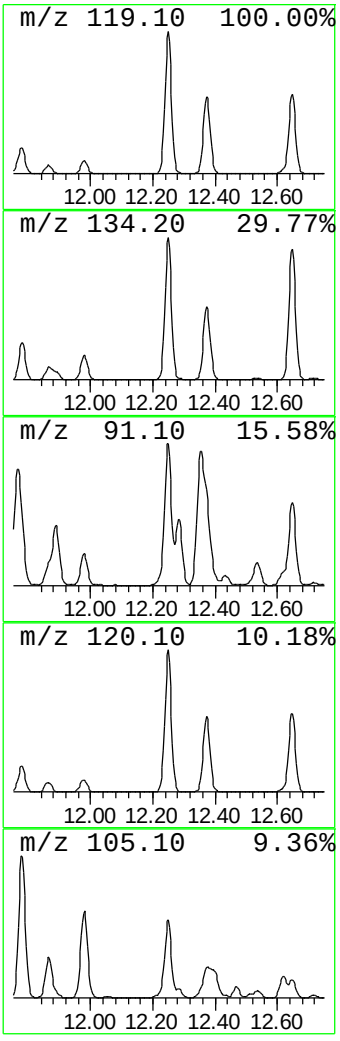
Peak Number 40 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	63.97 ug/L	647998	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	97
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
5	o-Cymene	134	C10H14	000527-84-4	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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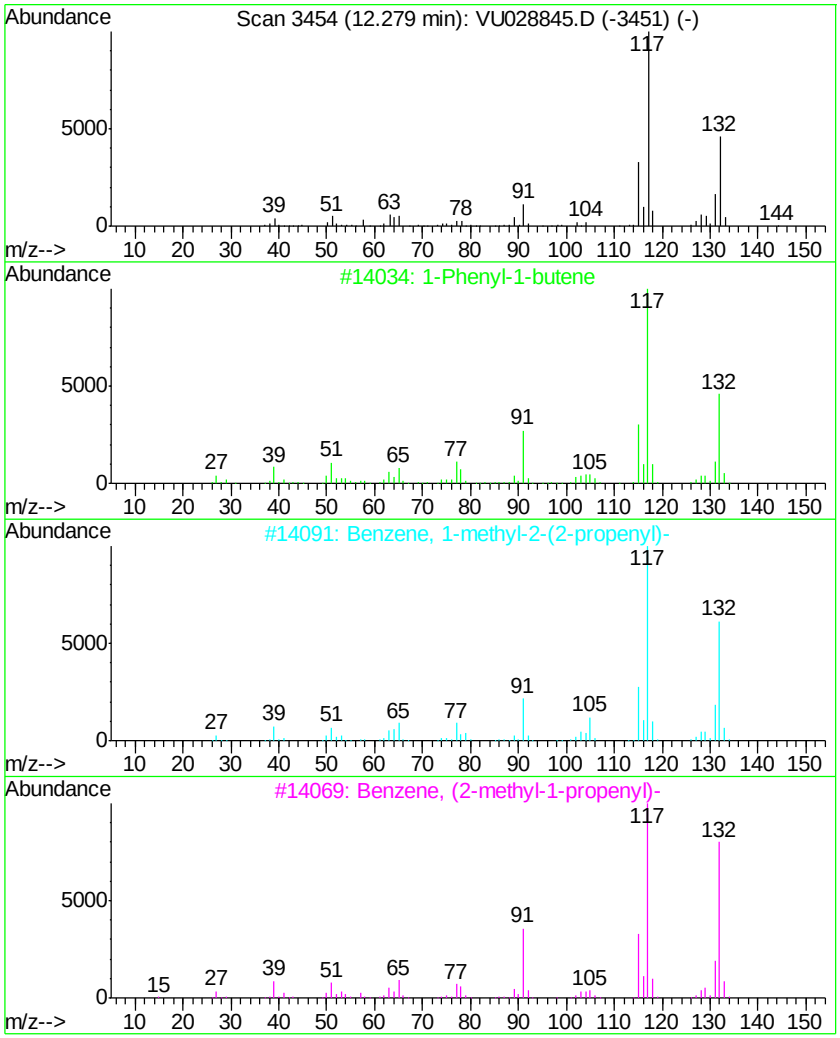
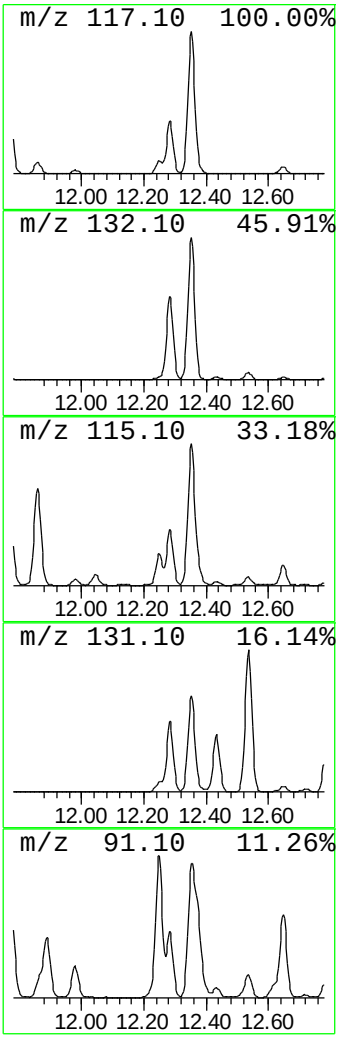
Peak Number 41 1-Phenyl-1-butene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	29.93 ug/L	303208	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	90
2	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	87
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
4	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	87
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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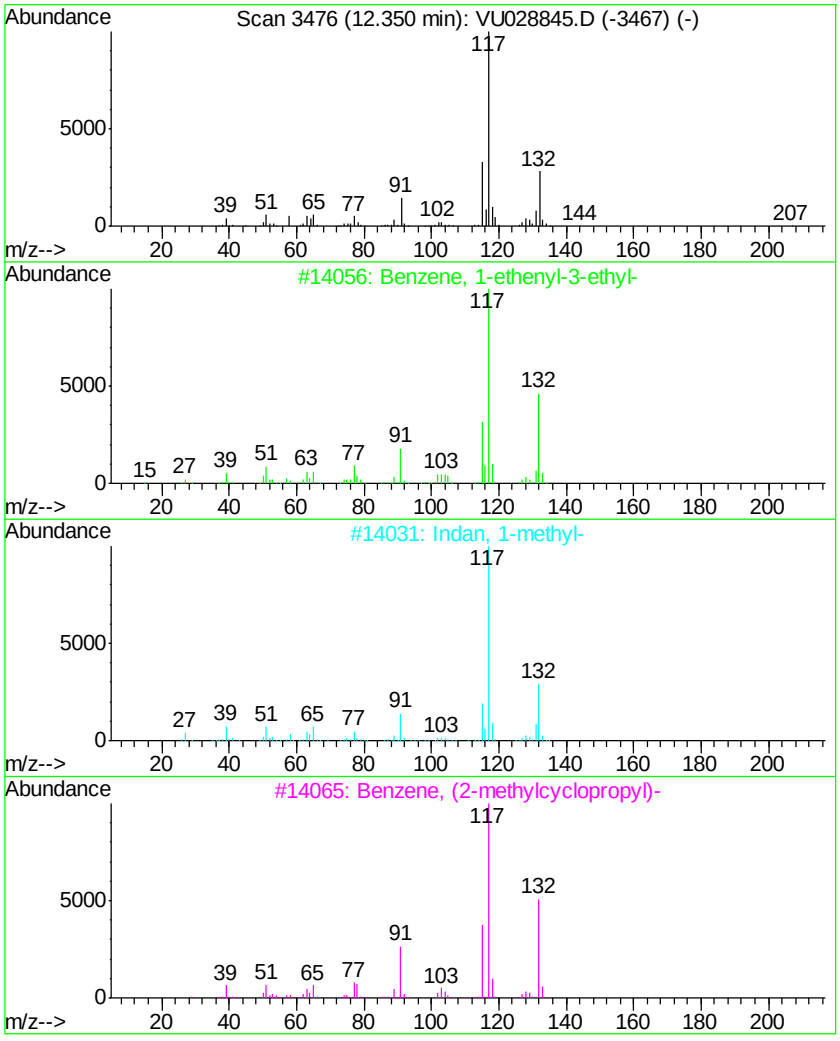
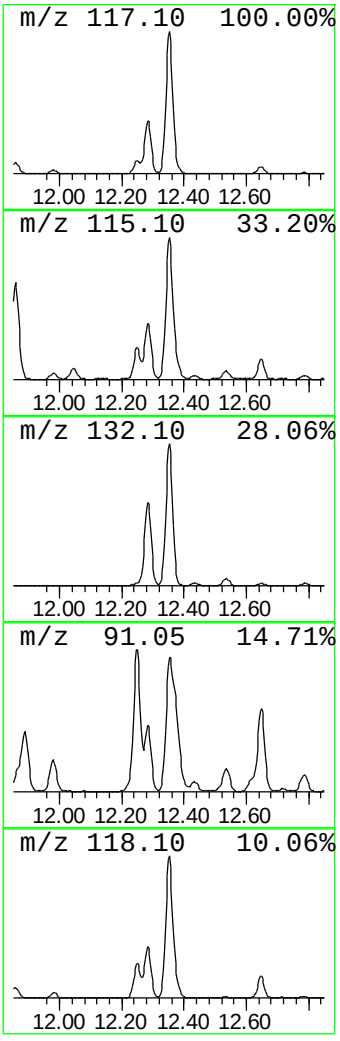
Peak Number 42 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	101.47 ug/L	1027890	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
2	Indan, 1-methyl-	132	C10H12	000767-58-8	87
3	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	87
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	83





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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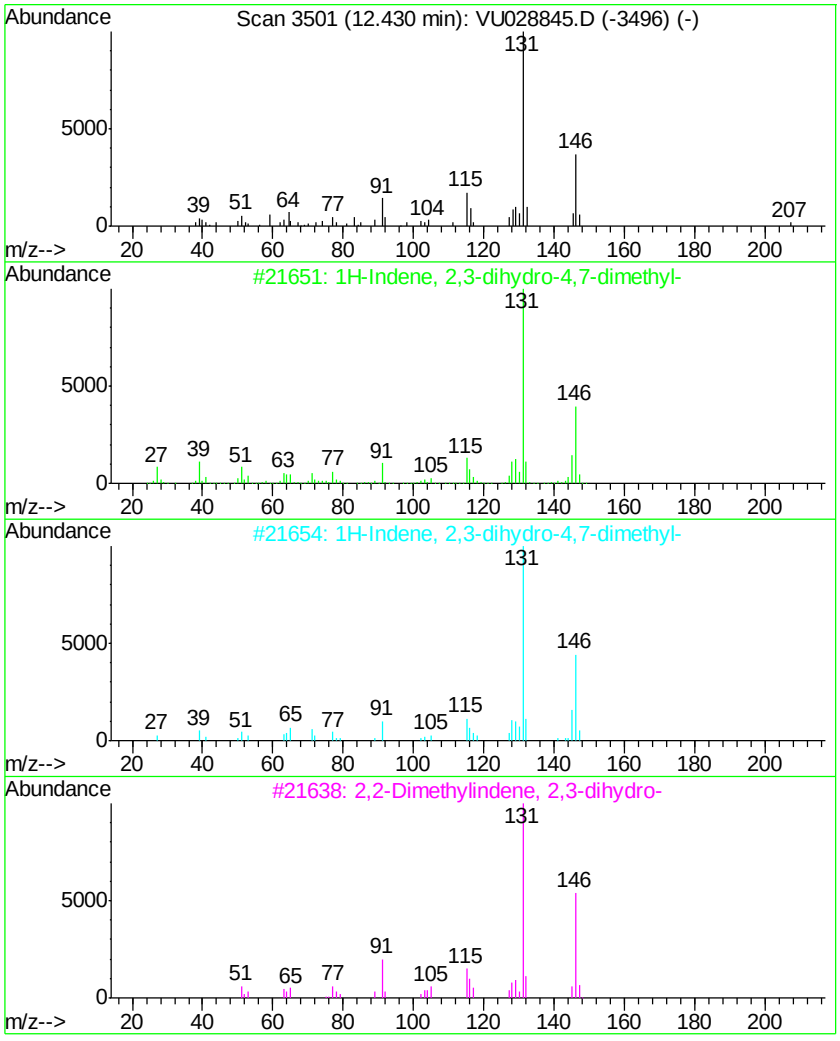
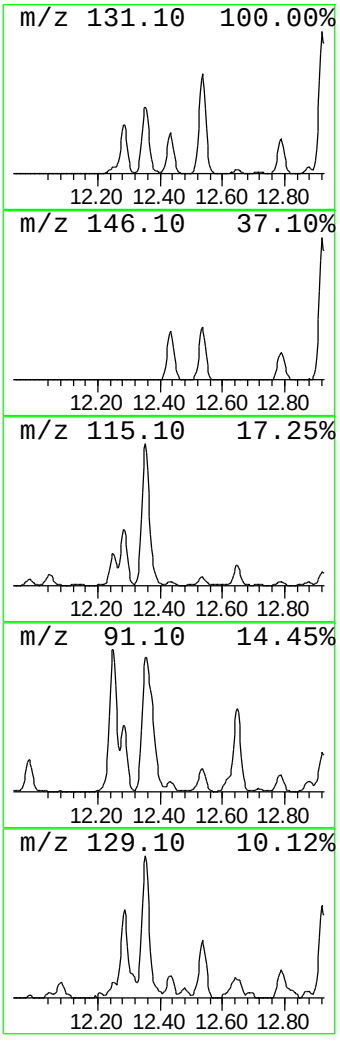
Peak Number 43 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	3.86 ug/L	39088	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	93
4	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	91
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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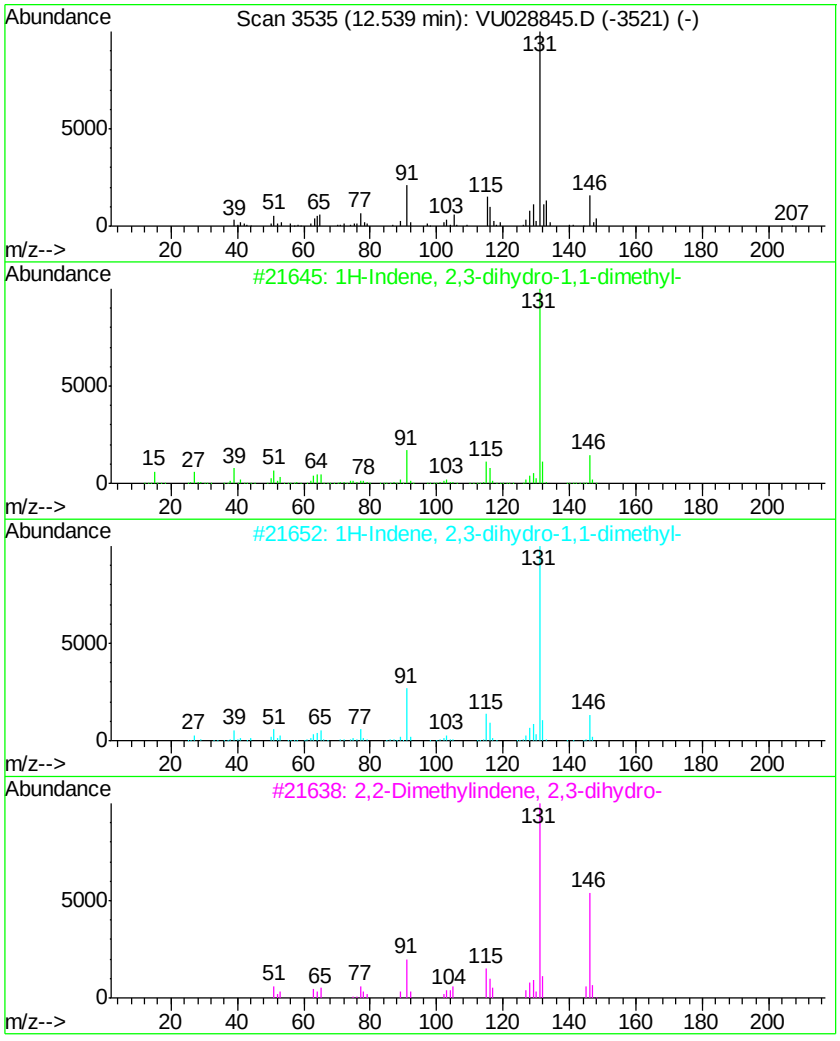
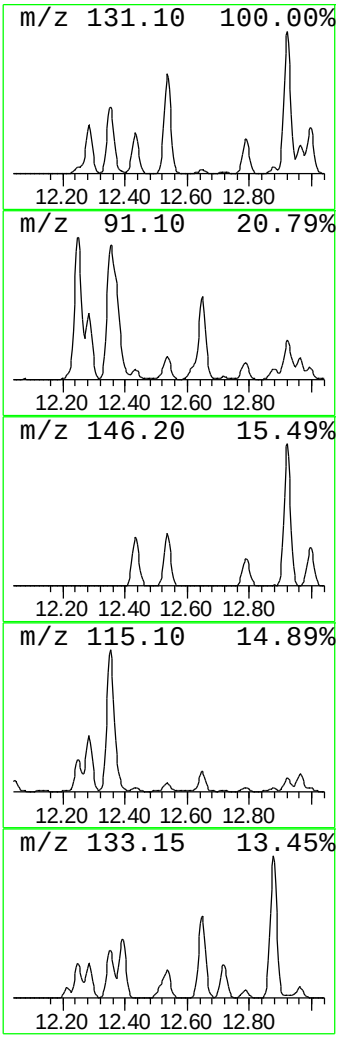
Peak Number 44 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	9.76 ug/L	98828	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	94
2	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	94
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	90
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	83





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

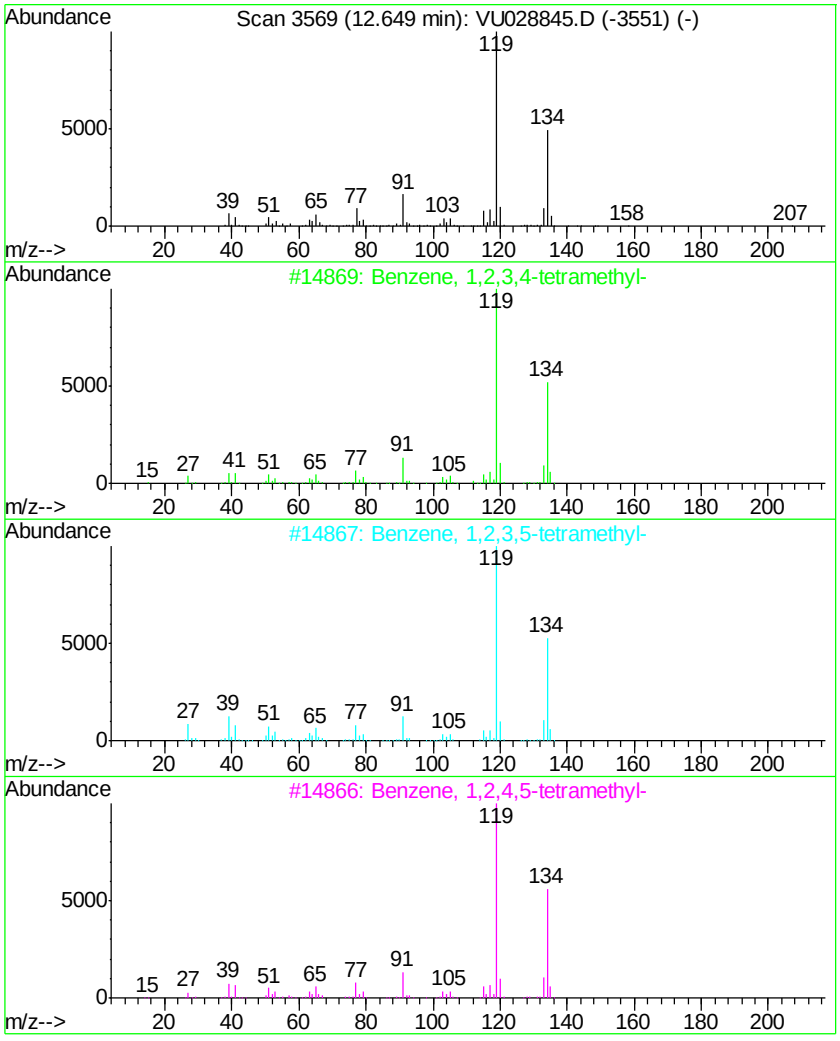
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

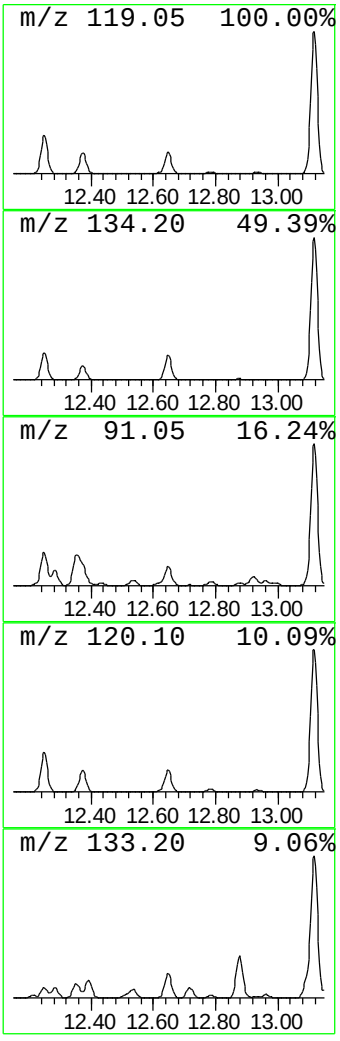
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 45 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	44.60 ug/L	451771	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

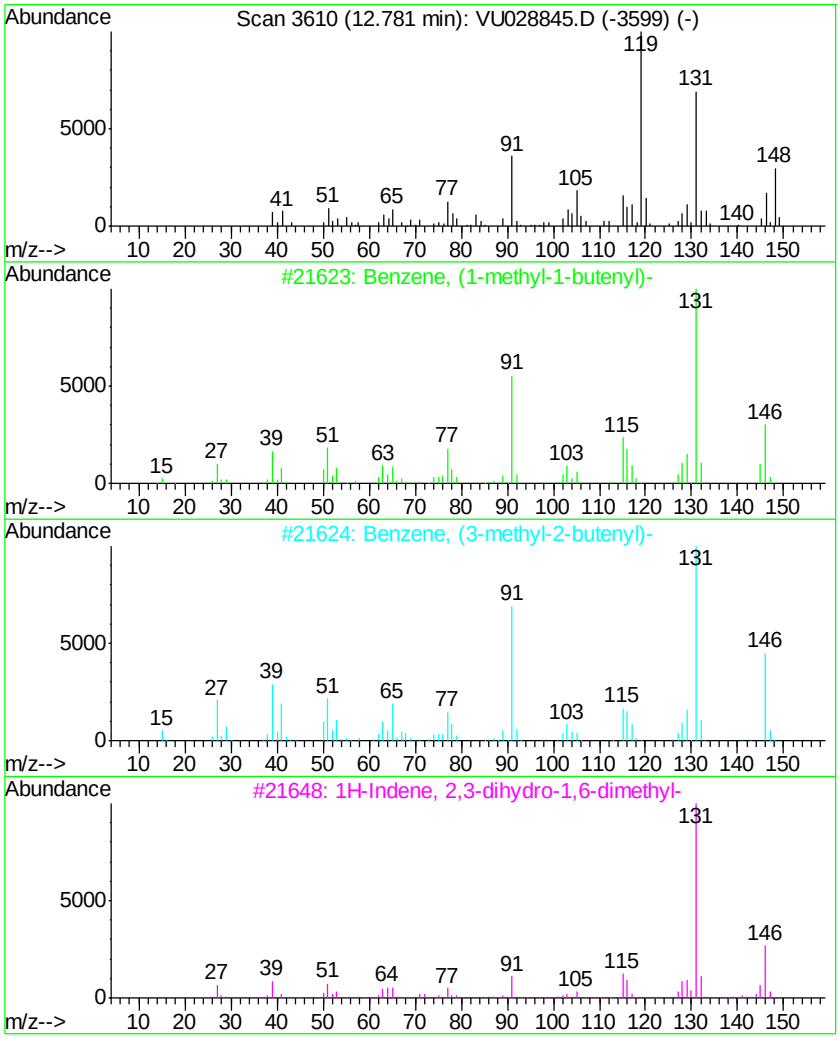
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

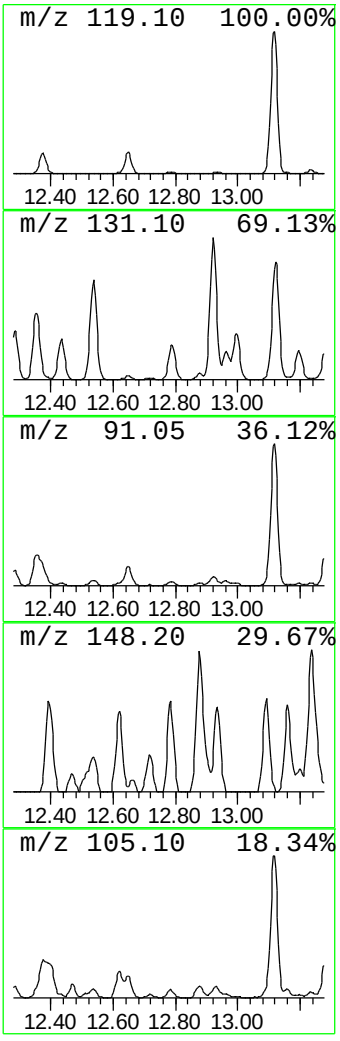
****

Peak Number 46 Benzene, (1-methyl-1-butenyl)- Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	6.92 ug/L	70106	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	89
2	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	89
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	86
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	64
5	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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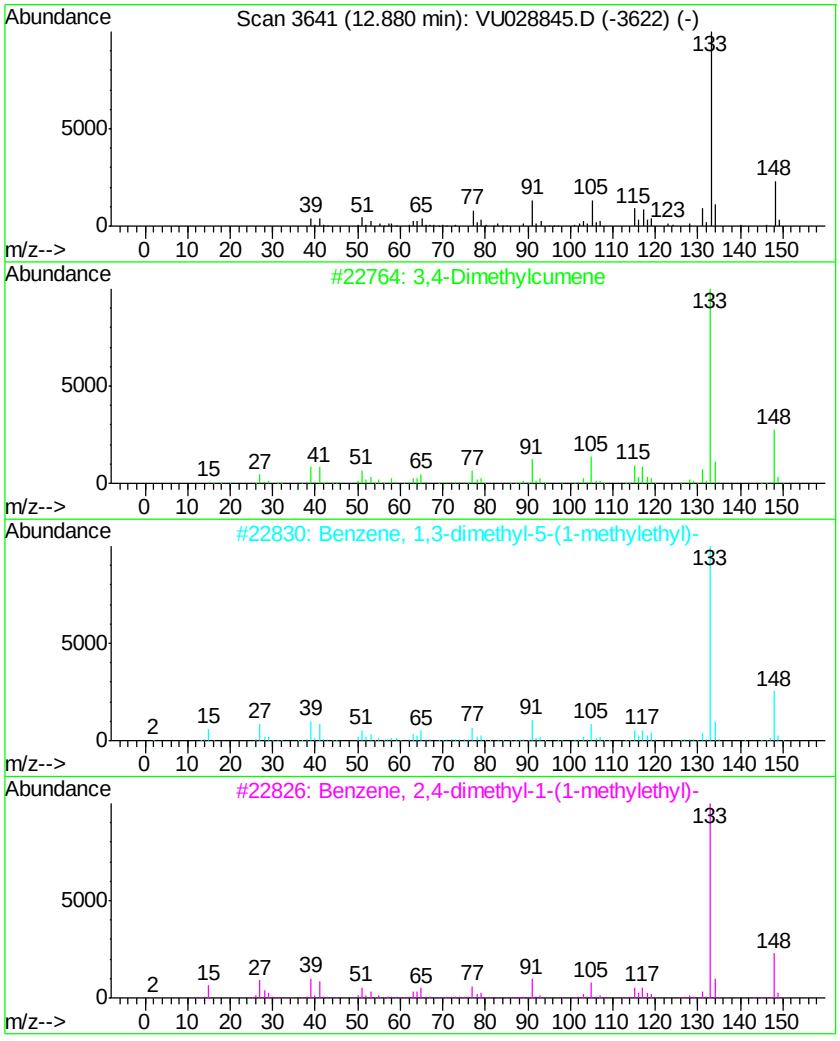
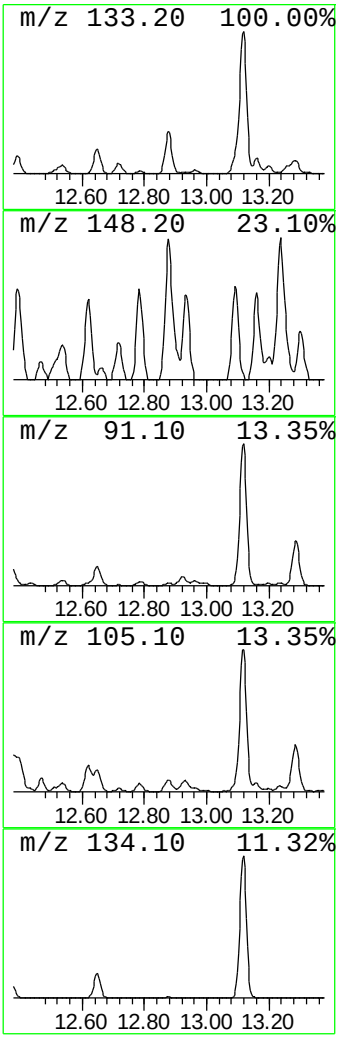
Peak Number 47 3,4-Dimethylcumene Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.88	7.51 ug/L	76096	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dimethylcumene	148	C11H16	1000370-34-1	94
2	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	94
3	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	94
4	Benzene, 1-ethyl-2,4,5-trimethyl-	148	C11H16	017851-27-3	91
5	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	90





Library Search Compound Report

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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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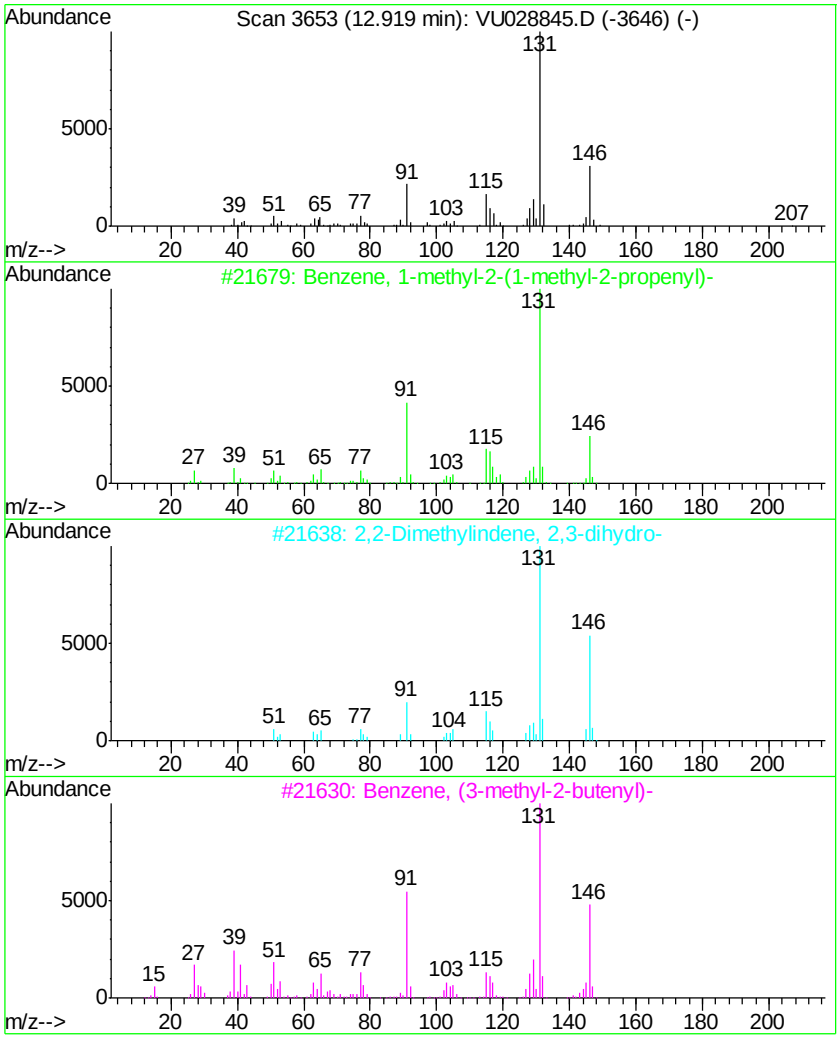
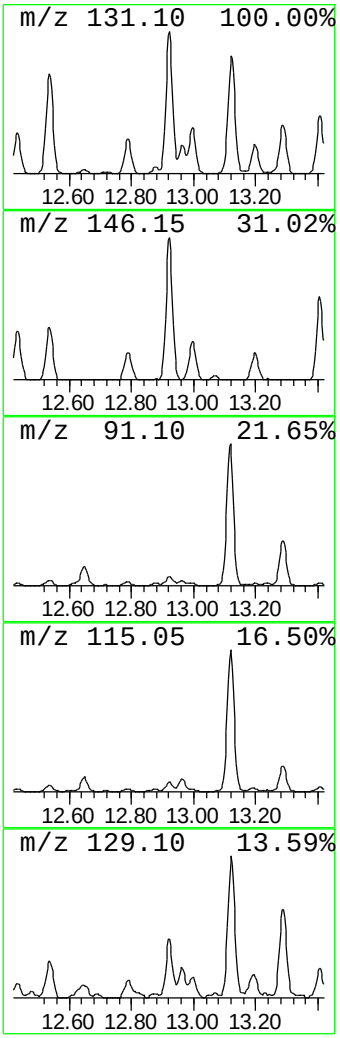
Peak Number 48 Benzene, 1-methyl-2-(1-meth... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	12.02 ug/L	121753	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	95
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	94
4	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	93
5	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	93





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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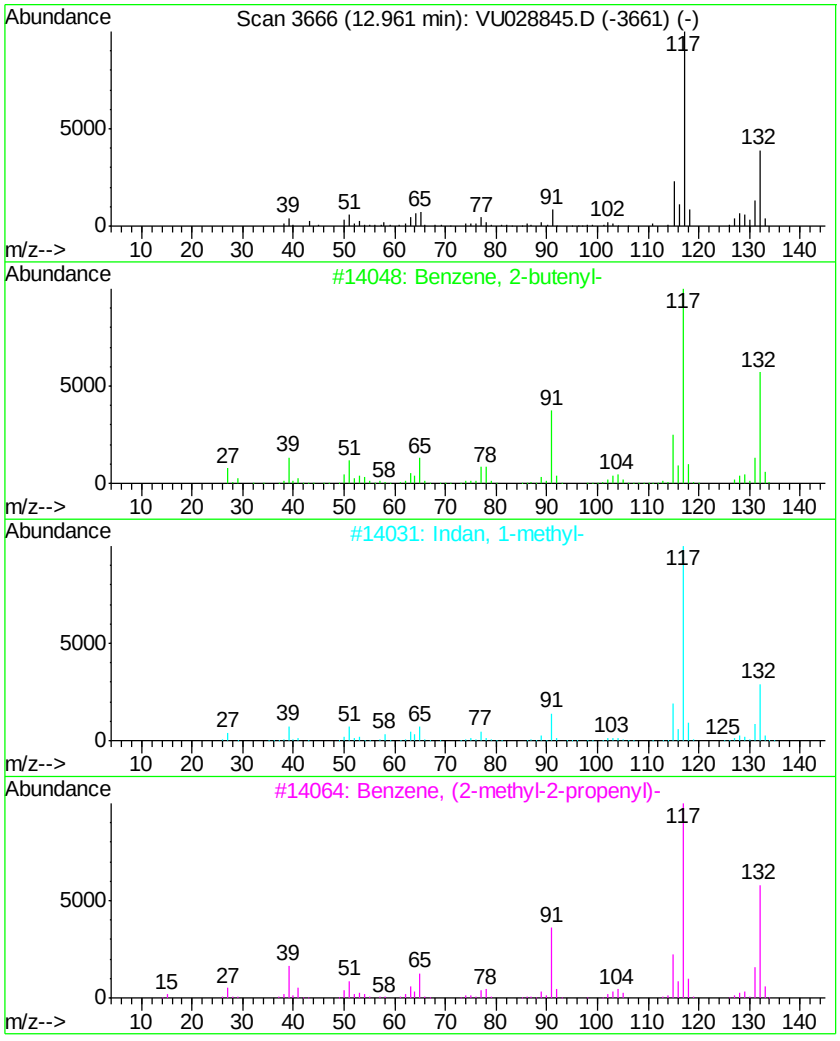
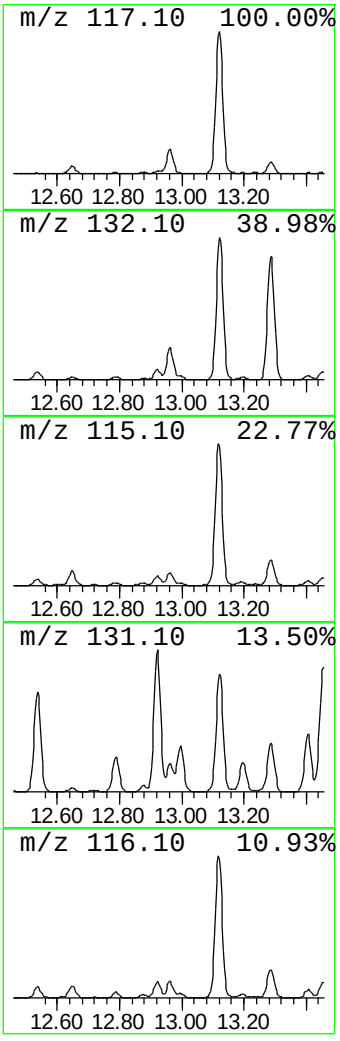
Peak Number 49 Benzene, 2-butenyl- Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	6.82 ug/L	69088	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
2	Indan, 1-methyl-	132	C10H12	000767-58-8	91
3	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	90
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	86





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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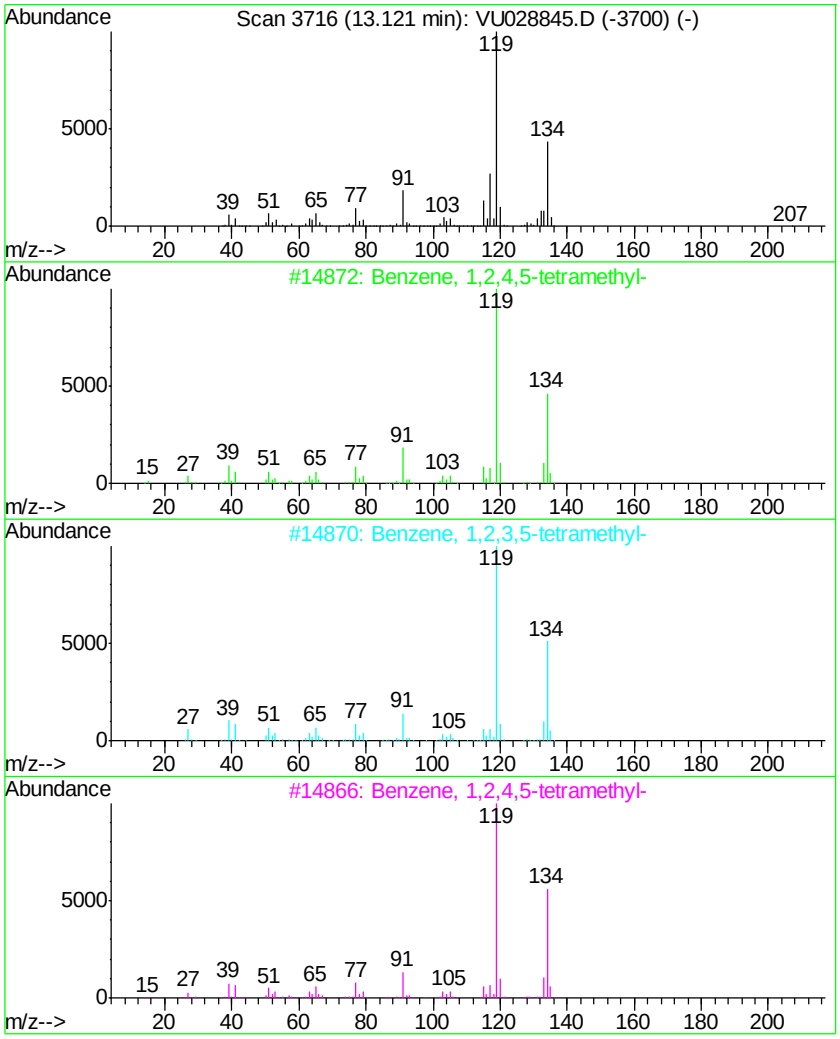
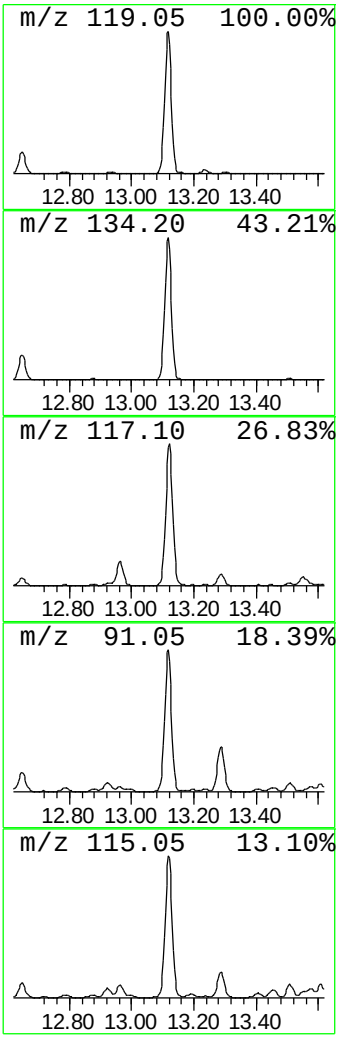
Peak Number 50 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	288.97 ug/L	2927210	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	87
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	87
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	87
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	87





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Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

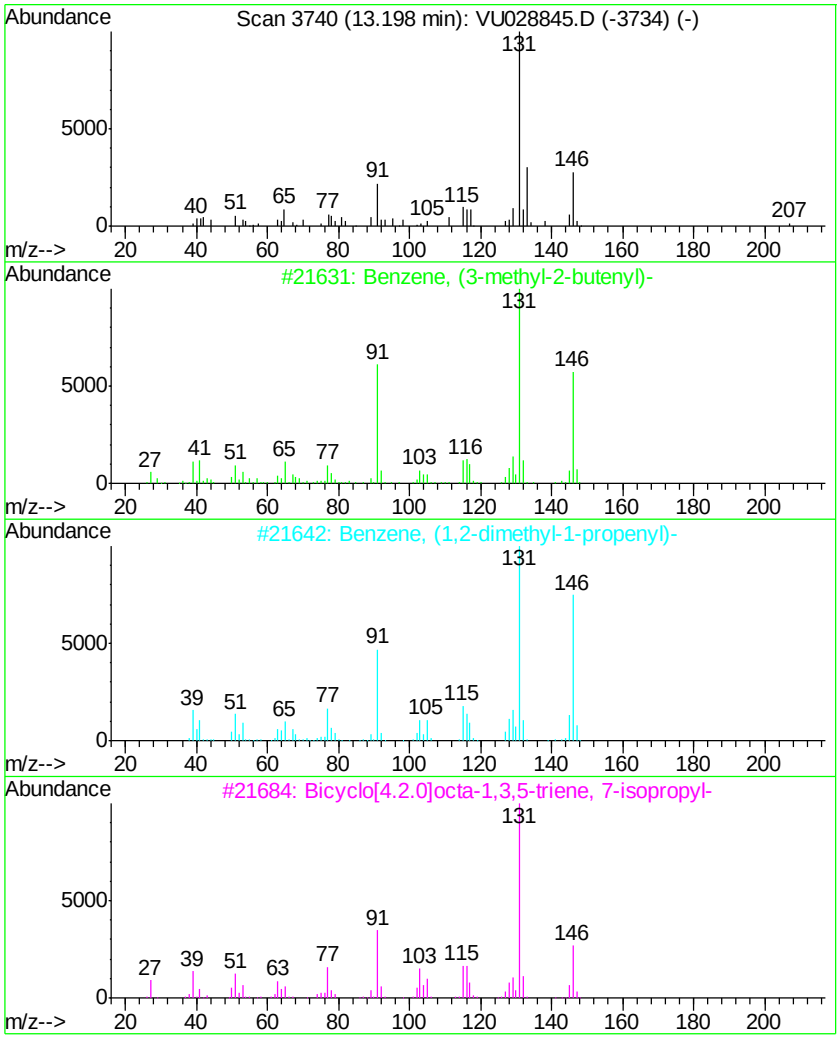
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

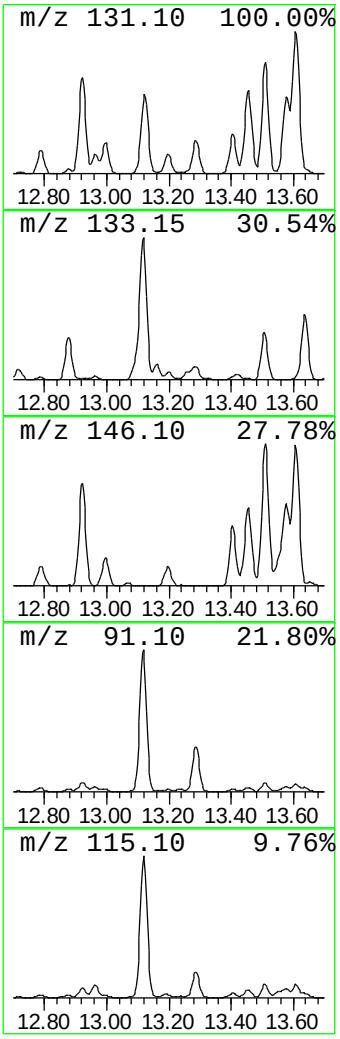
****

Peak Number 51 Benzene, (3-methyl-2-butenyl)- Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	3.41 ug/L	34555	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	83
2	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	83
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	80
4	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	80
5	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

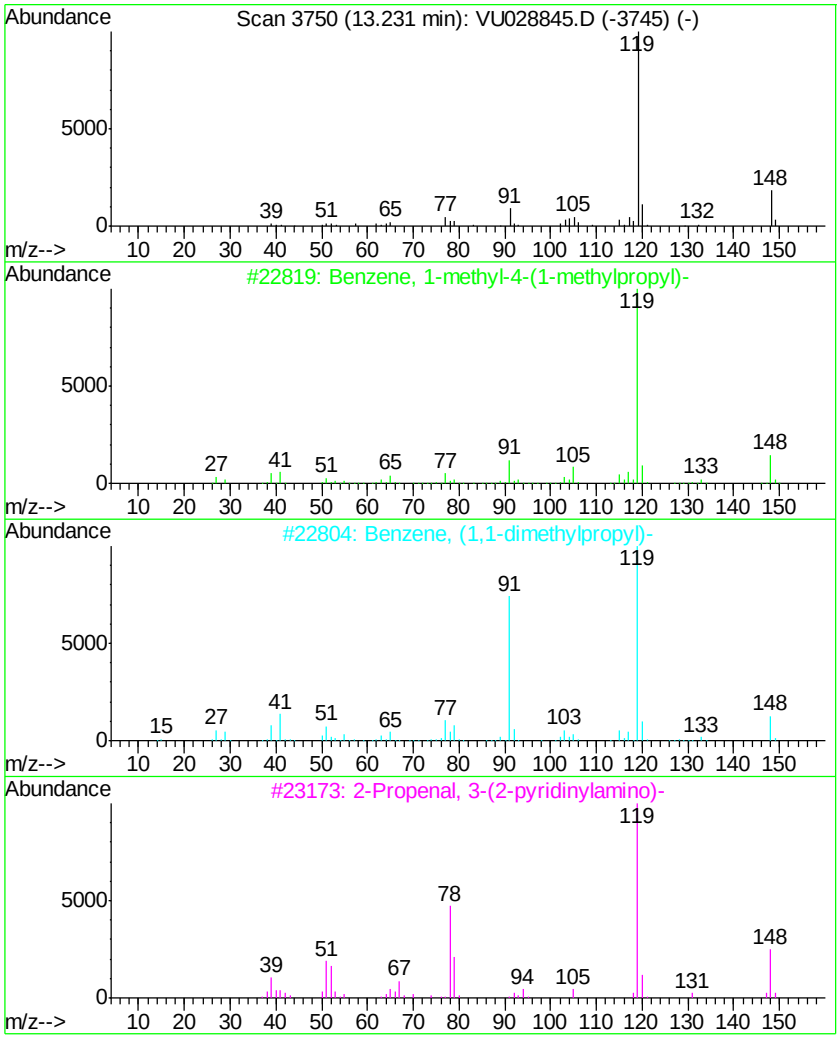
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

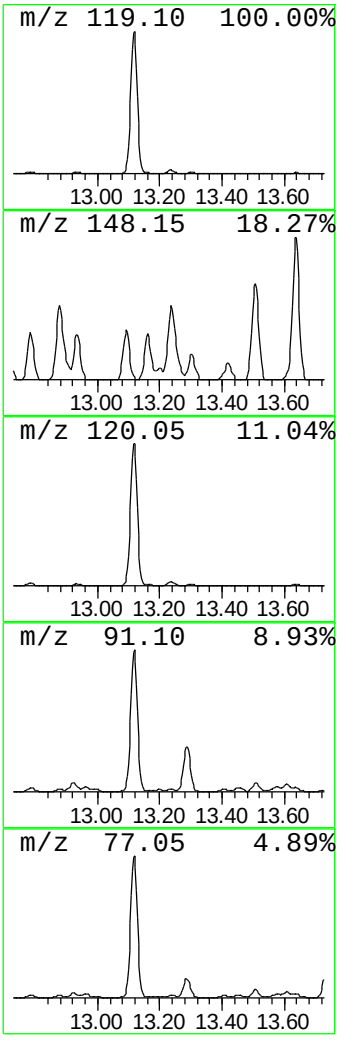
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 52 Benzene, 1-methyl-4-(1-meth... Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	4.42 ug/L	44771	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	91
2	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	78
3	2-Propenal, 3-(2-pyridinylamino)-	148	C8H8N2O	068970-82-1	72
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	64
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

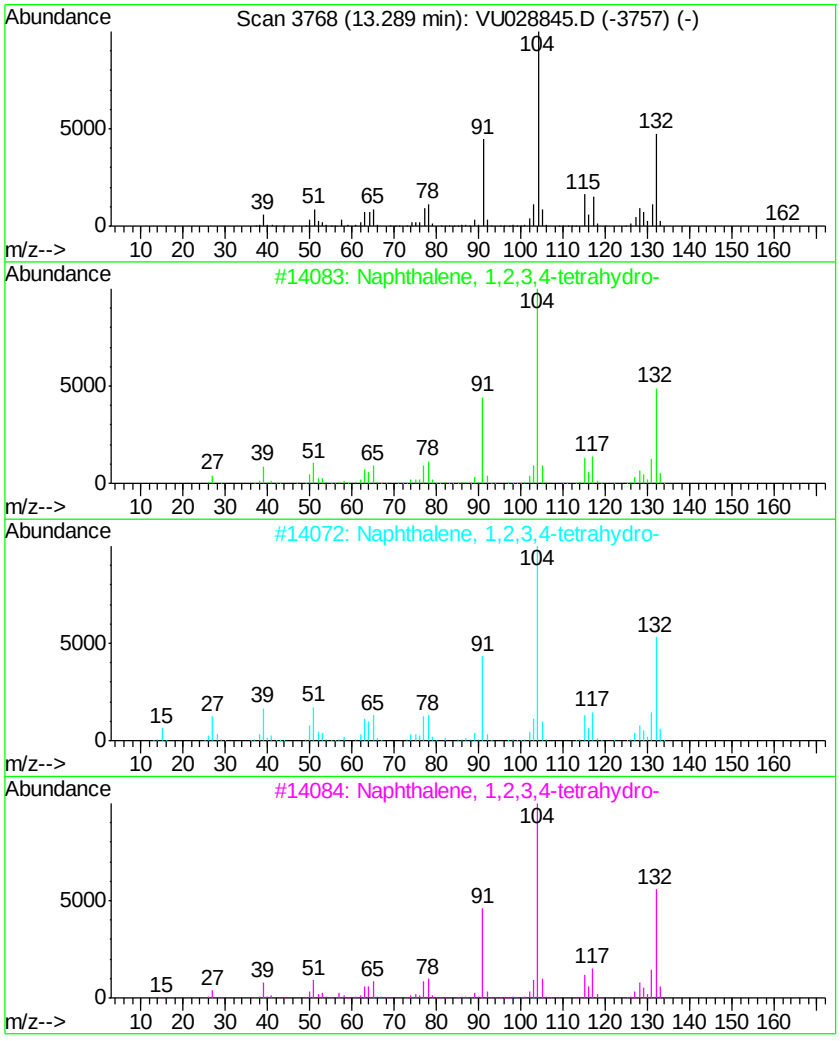
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

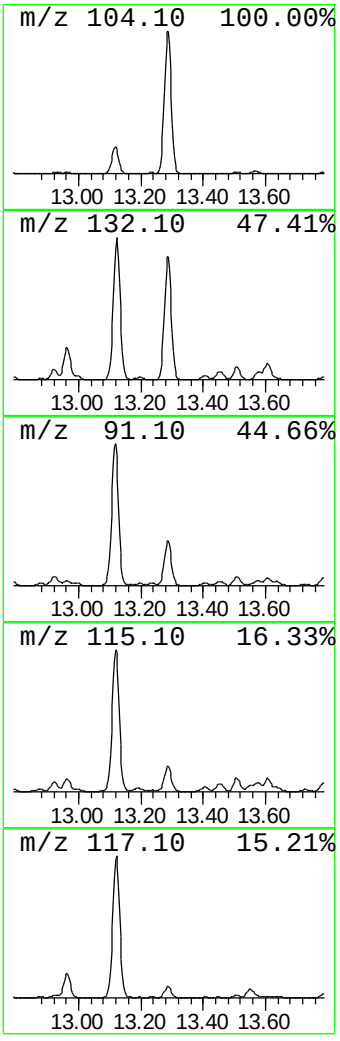
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 53 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	48.23 ug/L	488508	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	87
5	Indan, epoxide	132	C9H8O	000768-22-9	52





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028845.D
Acq On : 20 Dec 2018 23:31
Operator : MD/SY
Sample : J6513-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F52

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.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
(DEL) Alkane: Str...	1.75	15.8	ug/L	138668	1	5.88	438018	50.0
Isopropyl Alcohol	2.45	5.8	ug/L	50503	1	5.88	438018	50.0
(DEL) Alkane: Str...	2.70	2.8	ug/L	24823	1	5.88	438018	50.0
(DEL) Alkane: Str...	2.99	19.2	ug/L	168055	1	5.88	438018	50.0
(DEL) Alkane: Str...	5.08	6.1	ug/L	53150	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	5.26	29.6	ug/L	259723	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	5.48	43.7	ug/L	383103	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	5.55	40.2	ug/L	351813	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	5.62	70.0	ug/L	613632	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	6.74	12.5	ug/L	109420	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	6.90	13.0	ug/L	113978	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	7.44	3.6	ug/L	31776	1	5.88	438018	50.0
(DEL) Alkane: Cyc...	7.71	13.7	ug/L	144501	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	7.77	7.7	ug/L	81379	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	7.92	26.8	ug/L	282380	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	8.04	10.8	ug/L	113998	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	8.49	8.0	ug/L	84335	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	8.54	15.0	ug/L	157901	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	8.60	10.9	ug/L	114758	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	8.84	3.9	ug/L	40574	2	9.09	527218	50.0
Pentalene, octahy...	9.19	15.6	ug/L	164358	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	9.24	3.1	ug/L	32467	2	9.09	527218	50.0
Bicyclo[3.2.1]octane	9.36	7.8	ug/L	82263	2	9.09	527218	50.0
4-Ethylcyclohexene	9.57	4.0	ug/L	42165	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	9.72	7.3	ug/L	76824	2	9.09	527218	50.0
Bicyclo[3.3.1]nonane	9.95	17.1	ug/L	180590	2	9.09	527218	50.0
(DEL) Alkane: Cyc...	10.04	7.3	ug/L	77231	2	9.09	527218	50.0
4-Octyne, 2-methyl-	10.38	5.3	ug/L	53854	3	11.48	506485	50.0
unknown-01	10.49	5.5	ug/L	55357	3	11.48	506485	50.0
Benzene, propyl-	10.58	69.9	ug/L	708325	3	11.48	506485	50.0
cis-2,4-Dimethylt...	10.74	5.0	ug/L	50317	3	11.48	506485	50.0
Pentalene, octahy...	10.99	3.2	ug/L	32547	3	11.48	506485	50.0
cis-2-Ethyl-3-met...	11.07	4.2	ug/L	42999	3	11.48	506485	50.0
Benzene, (2-methy...	11.29	5.8	ug/L	59300	3	11.48	506485	50.0
Benzene, 1-methyl...	11.32	19.5	ug/L	197176	3	11.48	506485	50.0
p-Cymene	11.69	7.6	ug/L	77310	3	11.48	506485	50.0
Indane	11.76	73.8	ug/L	747510	3	11.48	506485	50.0
Benzene, 1,2-diet...	11.98	11.2	ug/L	113802	3	11.48	506485	50.0
Benzene, 1-ethyl-...	12.25	64.0	ug/L	647998	3	11.48	506485	50.0
1-Phenyl-1-butene	12.28	29.9	ug/L	303208	3	11.48	506485	50.0
Benzene, 1-etheny...	12.35	101.5	ug/L	1027890	3	11.48	506485	50.0
1H-Indene, 2,3-di...	12.43	3.9	ug/L	39088	3	11.48	506485	50.0
1H-Indene, 2,3-di...	12.54	9.8	ug/L	98828	3	11.48	506485	50.0
Benzene, 1,2,3,4-...	12.65	44.6	ug/L	451771	3	11.48	506485	50.0
Benzene, (1-methy...	12.78	6.9	ug/L	70106	3	11.48	506485	50.0
3,4-Dimethylcumene	12.88	7.5	ug/L	76096	3	11.48	506485	50.0
Benzene, 1-methyl...	12.92	12.0	ug/L	121753	3	11.48	506485	50.0
Benzene, 2-butenyl-	12.96	6.8	ug/L	69088	3	11.48	506485	50.0
Benzene, 1,2,4,5-...	13.12	289.0	ug/L	2927210	3	11.48	506485	50.0

Benzene, (3-methy...	13.20	3.4	ug/L	34555	3	11.48	506485	50.0
Benzene, 1-methyl...	13.23	4.4	ug/L	44771	3	11.48	506485	50.0
Naphthalene, 1,2,...	13.29	48.2	ug/L	488508	3	11.48	506485	50.0

Instrument :
MSVOA_U
ClientSampleId :
F9F52