LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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	115998	113596	15.22%	1.096%
2	1.672	147	155	171	rVB	83610	104297	13.97%	1.006%
3	1.749	174	179	193	rVB2	9246	12805	1.72%	0.124%
4	1.938	235	238	250	rVB4	2988	3626	0.49%	0.035%
5	2.189	310	316	325	rVB5	2546	3611	0.48%	0.035%
6	2.270	330	341	354	rBV	163861	243562	32.63%	2.350%
7	2.450	386	397	414	rBV	24378	44542	5.97%	0.430%
8	2.839	505	518	530	rVB	6339	13055	1.75%	0.126%
9	2.993	555	566	578	rVB2	3710	7542	1.01%	0.073%
10	4.176	919	934	968	rBV	84121	233022	31.21%	2.248%
11	4.646	1061	1080	1100	rBV	125258	287099	38.46%	2.770%
12	5.080	1203	1215	1229	rVB5	4557	10609	1.42%	0.102%
13	5.257	1257	1270	1273	rBV4	4337	7765	1.04%	0.075%
14	5.337	1274	1295	1320	rVB2	256128	746546	100.00%	7.202%
15	5.485	1329	1341	1352	rVV6	5452	11241	1.51%	0.108%
16	5.552	1352	1362	1376	rVB6	4030	8761	1.17%	0.085%
17	5.884	1451	1465	1491	rBV	245038	481873	64.55%	4.648%
18	6.331	1589	1604	1616	rBV	174376	347278	46.52%	3.350%
19	6.533	1657	1667	1677	rVB3	2211	3827	0.51%	0.037%
20	6.739	1716	1731	1742	rBV2	20240	40051	5.36%	0.386%
21	6.903	1770	1782	1794	rBV3	19551	37468	5.02%	0.361%
22	7.102	1835	1844	1850	rBV5	2739	4127	0.55%	0.040%
23	7.151	1851	1859	1869	rVB4	4117	7355	0.99%	0.071%
24	7.228	1870	1883	1900	rBV	98681	191479	25.65%	1.847%
25	7.376	1918	1929	1937	rBV3	3252	5664	0.76%	0.055%
26	7.440	1937	1949	1964	rVB4	6694	13935	1.87%	0.134%
27	7.565	1964	1988	2005	rBV	345640	648625	86.88%	6.257%
28	7.707	2020	2032	2042	rBV4	26181	56884	7.62%	0.549%
29	7.848	2065	2076	2087	rBV	72338	120272	16.11%	1.160%
30	7.916	2087	2097	2114	rVB2	58504	108158	14.49%	1.043%
31	8.044	2117	2137	2148	rBV4	26539	52197	6.99%	0.504%
32	8.102	2148	2155	2164	rVB6	2480	4056	0.54%	0.039%
33	8.160	2164	2173	2184	rBV7	3412	7600	1.02%	0.073%
34	8.221	2187	2192	2200	rVB5	3041	4438	0.59%	0.043%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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	8.308	2207	2219	2238	rBV	282723	491139	65.79%	4.738%
36	8.488	2264	2275	2293	rVB3	24370	48906	6.55%	0.472%
37	8.604	2299	2311	2322	rBV	51822	95190	12.75%	0.918%
38	8.758	2345	2359	2368	rBV5	11758	21750	2.91%	0.210%
39	8.816	2368	2377	2378	rBV4	3985	4600	0.62%	0.044%
40	8.845	2380	2386	2409	rVB4	14499	28985	3.88%	0.280%
41	8.974	2419	2426	2433	rBV6	1644	2355	0.32%	0.023%
42	9.025	2433	2442	2450	rBV7	3044	5868	0.79%	0.057%
43	9.089	2450	2462	2478	rBV	345418	569319	76.26%	5.492%
44	9.186	2487	2492	2502	rVB	25375	39246	5.26%	0.379%
45	9.244	2503	2510	2525	rVB6	10314	19579	2.62%	0.189%
46	9.359	2527	2546	2552	rBV8	17857	45509	6.10%	0.439%
47	9.443	2567	2572	2591	rVB4	7778	14977	2.01%	0.144%
48	9.568	2601	2611	2623	rBV3	11571	18926	2.54%	0.183%
49	9.720	2640	2658	2675	rBV6	20732	57475	7.70%	0.554%
50	9.951	2710	2730	2740	rBV3	36274	72999	9.78%	0.704%
51	10.047	2749	2760	2769	rBV5	18270	36276	4.86%	0.350%
52	10.166	2786	2797	2808	rBV	94597	145517	19.49%	1.404%
53	10.375	2851	2862	2869	rBV2	20641	33535	4.49%	0.323%
54	10.430	2869	2879	2890	rVV	253242	406527	54.45%	3.922%
55	10.491	2891	2898	2911	rVB4	25404	43557	5.83%	0.420%
56	10.588	2917	2928	2952	rBV	129549	212551	28.47%	2.050%
57	10.703	2957	2964	2972	rVB9	5685	8988	1.20%	0.087%
58	10.813	2990	2998	3006	rVB6	2770	4494	0.60%	0.043%
59	10.864	3006	3014	3022	rVB5	4753	7168	0.96%	0.069%
60	10.980	3040	3050	3065	rVB6	13710	27197	3.64%	0.262%
61	11.099	3081	3087	3094	rVV3	4001	5896	0.79%	0.057%
62	11.289	3129	3146	3149	rBV2	23541	37674	5.05%	0.363%
63	11.324	3150	3157	3171	rVB	71812	113682	15.23%	1.097%
64	11.395	3172	3179	3186	rVV6	4758	7017	0.94%	0.068%
65	11.482	3195	3206	3222	rBV	336355	517759	69.35%	4.995%
66	11.617	3239	3248	3258	rBV10	4001	8139	1.09%	0.079%
67	11.687	3260	3270	3281	rVB	27744	43685	5.85%	0.421%
68	11.774	3282	3297	3307	rBV3	95873	200666	26.88%	1.936%
69	11.858	3312	3323	3344	rVB	359125	620384	83.10%	5.985%
70	11.980	3350	3361	3374	rBV2	45143	72414	9.70%	0.699%
71	12.250	3438	3445	3449	rBV	35568	47204	6.32%	0.455%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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	12.282	3450	3455	3466	rVB	80749	116982	15.67%	1.128%
73	12.353	3467	3477	3497	rBV2	170722	360074	48.23%	3.474%
74	12.536	3520	3534	3547	rVB3	34586	61031	8.18%	0.589%
75	12.649	3550	3569	3581	rBV2	69566	147284	19.73%	1.421%
76	12.719	3586	3591	3599	rVV4	12135	17929	2.40%	0.173%
77	12.787	3603	3612	3622	rVB3	31569	50721	6.79%	0.489%
78	12.877	3635	3640	3646	rBV2	8676	10581	1.42%	0.102%
79	12.922	3646	3654	3662	rBV2	51469	86090	11.53%	0.830%
80	13.121	3707	3716	3733	rVB2	169349	265893	35.62%	2.565%
81	13.195	3734	3739	3746	rVB3	12520	15481	2.07%	0.149%
82	13.237	3747	3752	3756	rBV2	5749	7549	1.01%	0.073%
83	13.404	3797	3804	3812	rBV2	29830	46742	6.26%	0.451%
84	13.456	3813	3820	3828	rVB2	43126	65680	8.80%	0.634%
85	13.510	3828	3837	3844	rBV2	92309	138733	18.58%	1.338%
86	13.729	3898	3905	3914	rVB5	19393	30351	4.07%	0.293%
87	13.784	3918	3922	3933	rVB2	19844	28656	3.84%	0.276%
88	13.854	3935	3944	3958	rVB3	37303	64280	8.61%	0.620%
89	13.951	3959	3974	3985	rBV4	40270	83645	11.20%	0.807%
90	14.333	4085	4093	4111	rVB5	44958	113918	15.26%	1.099%
91	14.475	4132	4137	4146	rVB2	32735	44599	5.97%	0.430%
92	14.607	4171	4178	4189	rBV3	16760	26648	3.57%	0.257%
93	14.678	4190	4200	4227	rVB2	104462	204768	27.43%	1.975%
94	14.861	4251	4257	4271	rBV7	13733	30512	4.09%	0.294%
95	15.009	4298	4303	4309	rBV3	7405	10105	1.35%	0.097%
96	15.063	4312	4320	4333	rVB2	48899	91699	12.28%	0.885%
97	15.726	4520	4526	4537	rVB5	15019	23515	3.15%	0.227%
98	16.060	4621	4630	4639	rBV2	40687	69202	9.27%	0.668%
99	16.259	4686	4692	4696	rBV5	10866	14381	1.93%	0.139%
100	16.433	4740	4746	4759	rVB3	9265	15142	2.03%	0.146%

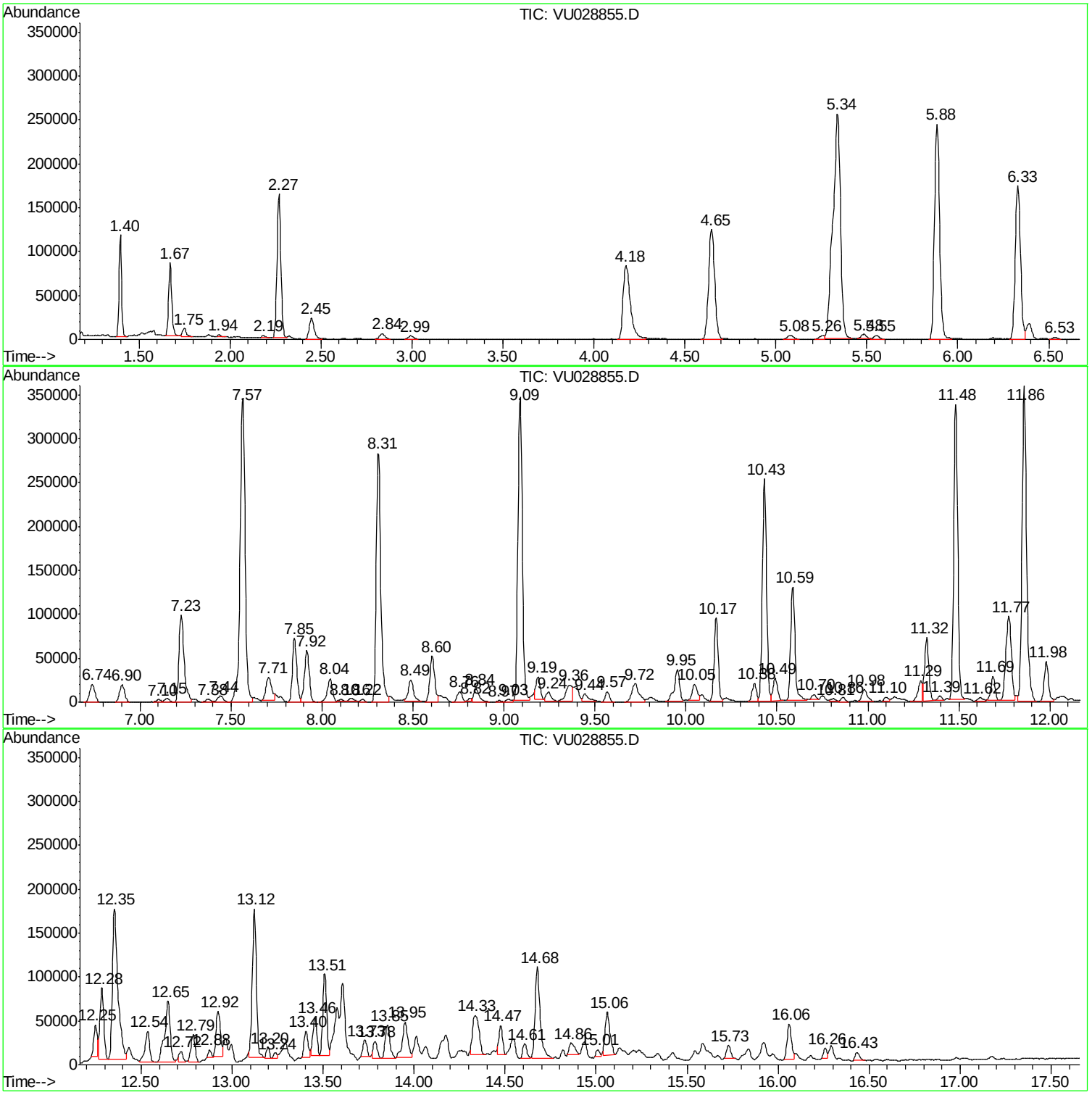
Sum of corrected areas: 10366310

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F9F72

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 : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

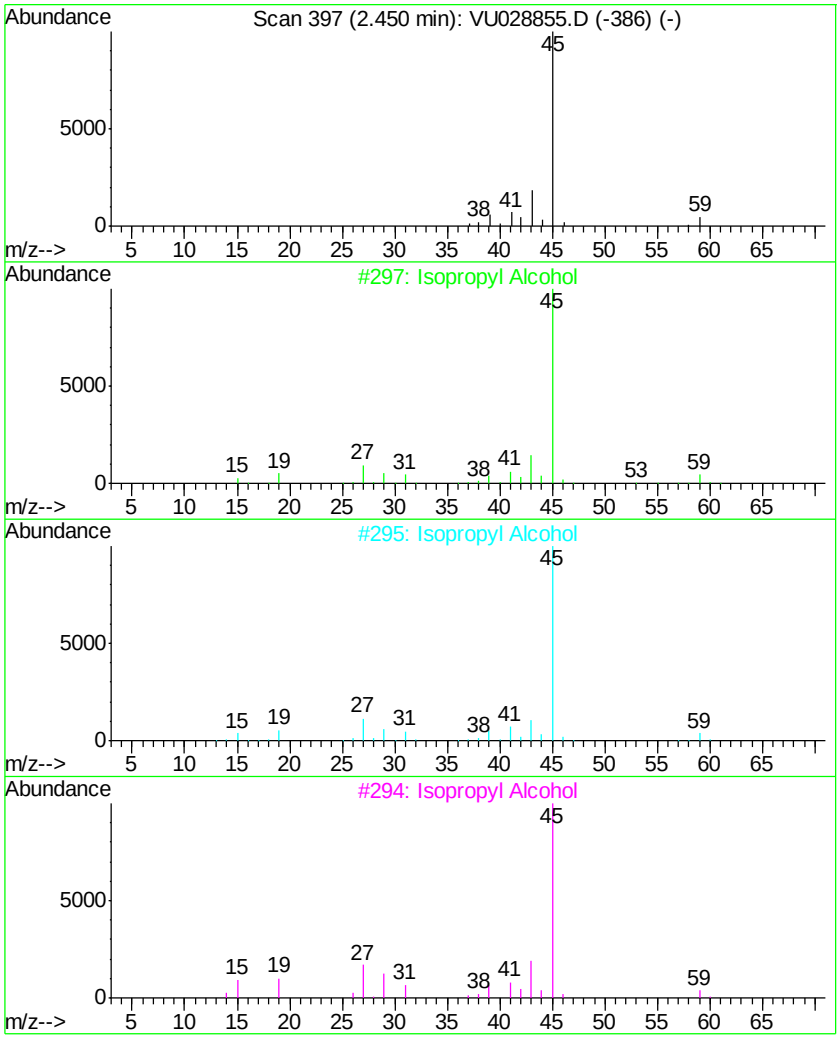
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

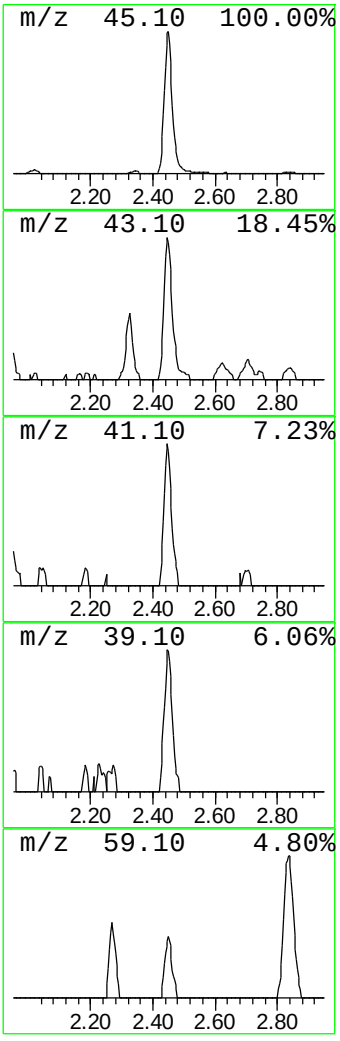
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.45	4.62 ug/L	44542	1,4-Difluorobenzene	5.89

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





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

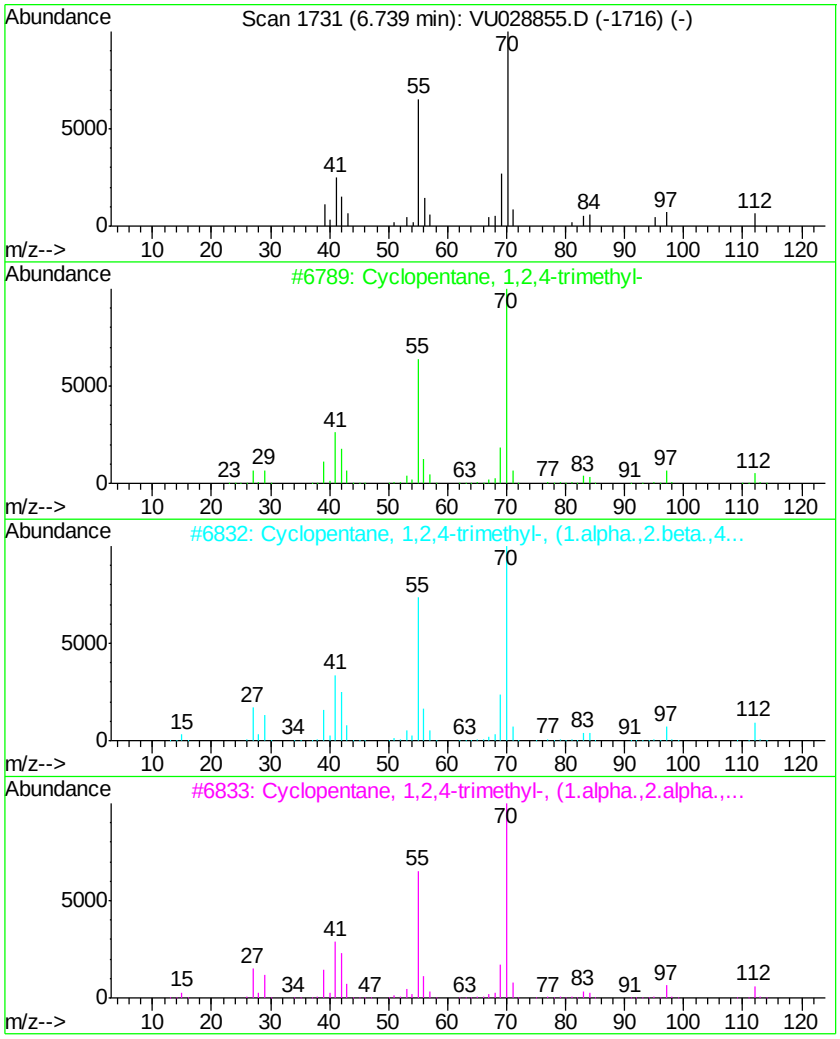
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

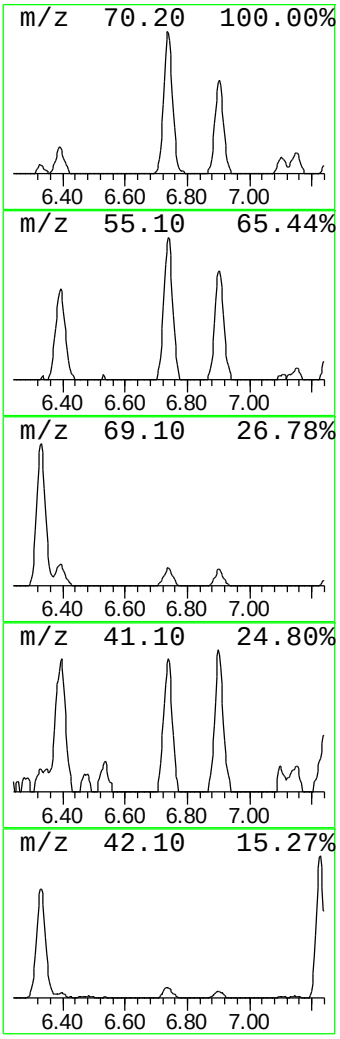
****

Peak Number 2 (DEL) Alkane: Cyclic6.74 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	4.16 ug/L	40051	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	91
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	87
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	86
5	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

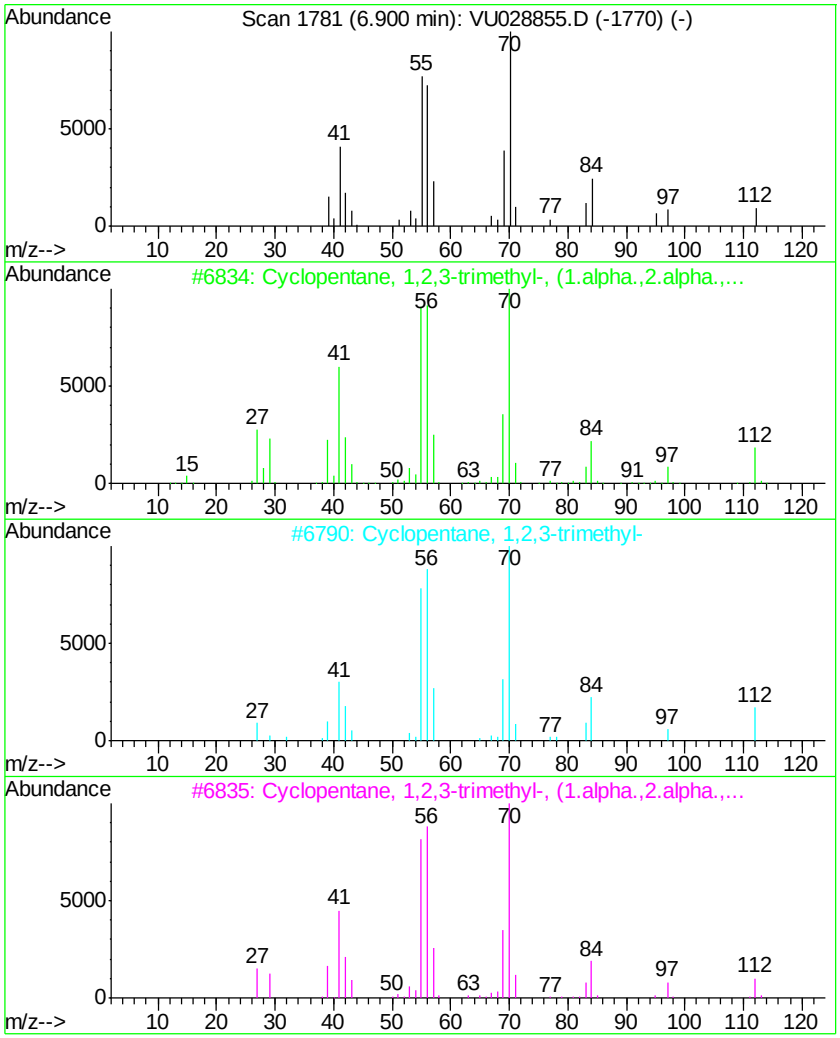
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

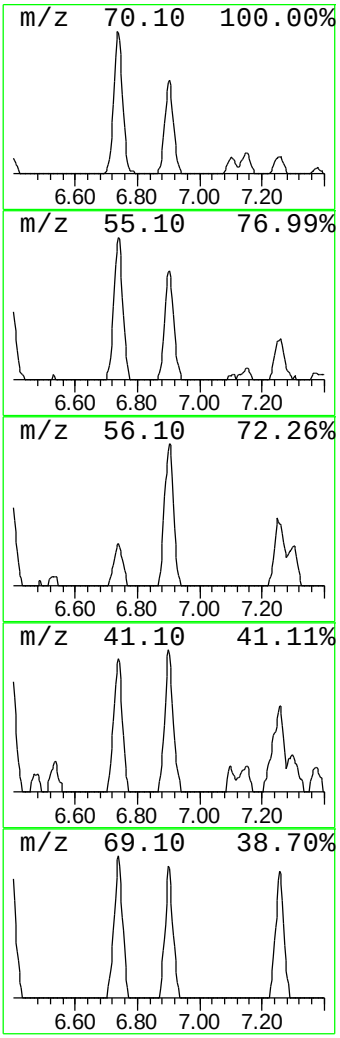
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Cyclic6.90 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	3.89 ug/L	37468	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
2	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	91
3	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	64
5	2H-Pyran-2,6(3H)-dione, dihydro-...	142	C7H10O3	004160-82-1	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

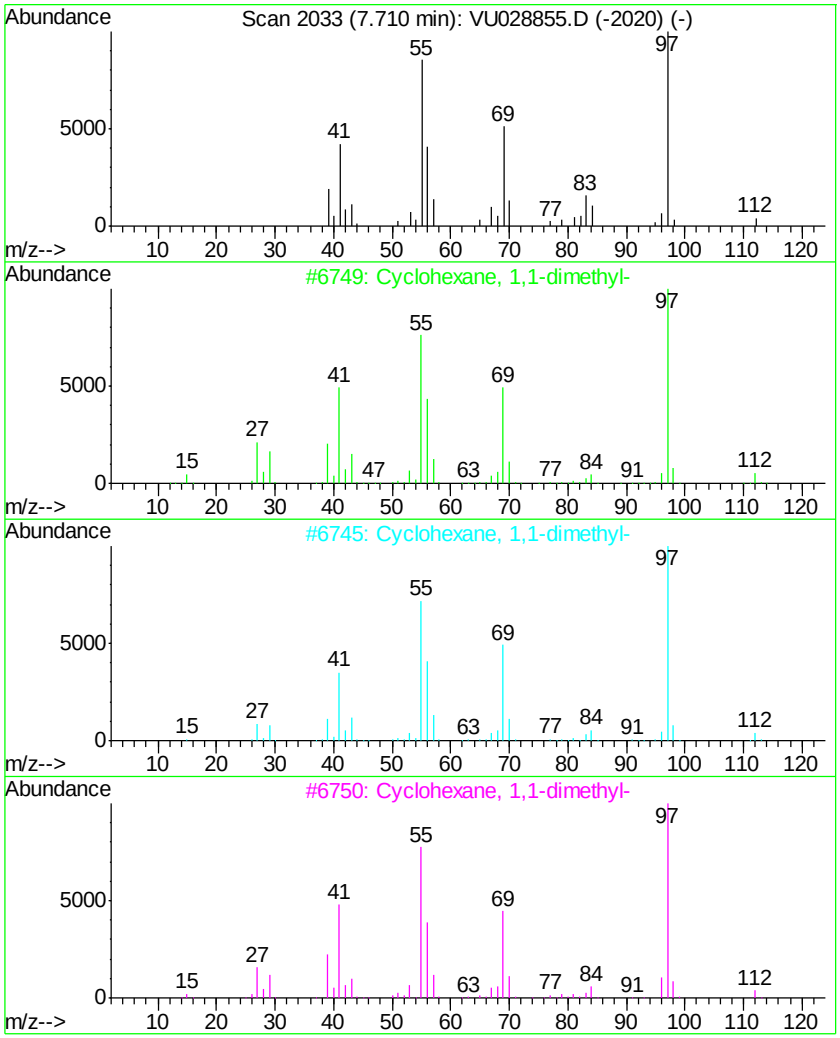
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

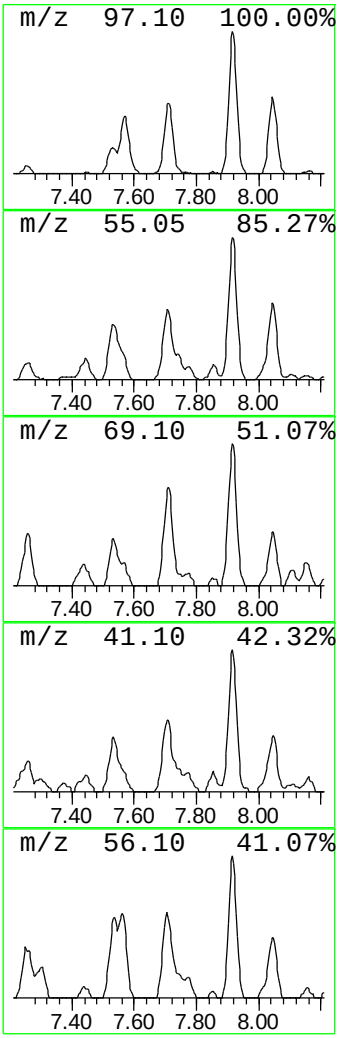
****

Peak Number 5 (DEL) Alkane: Cyclic7.71 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.71	5.00 ug/L	56884	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	87
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	87
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	81
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	59
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

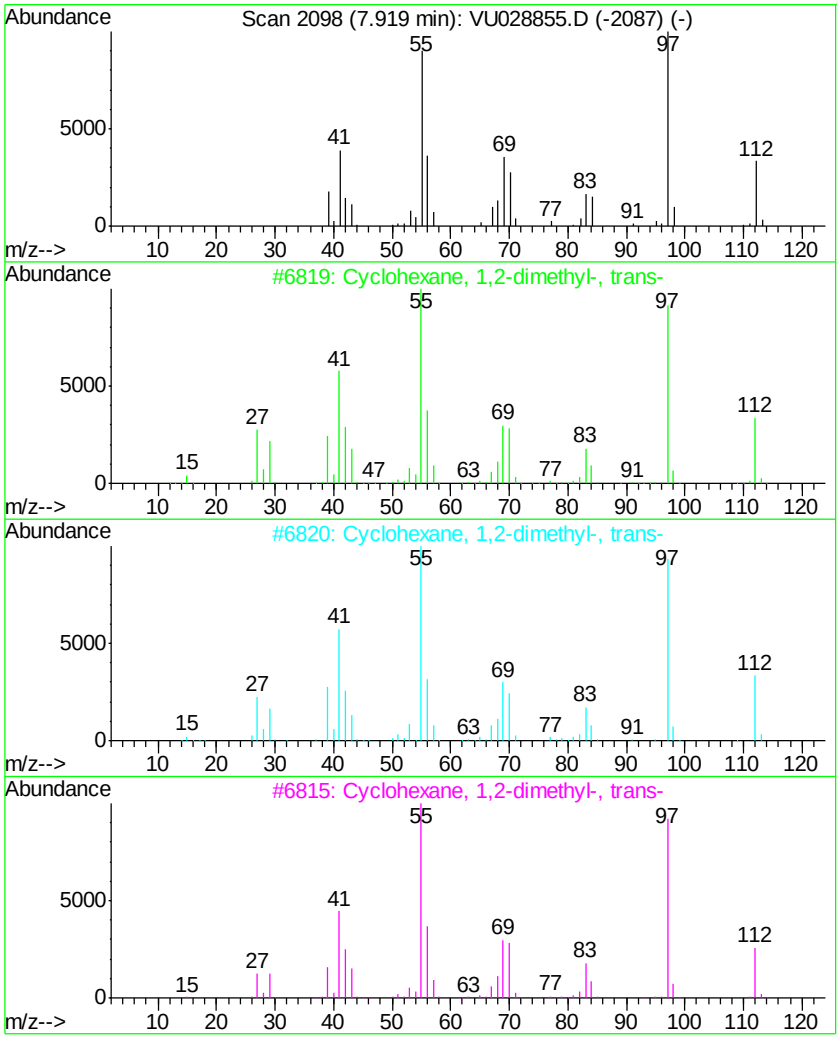
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

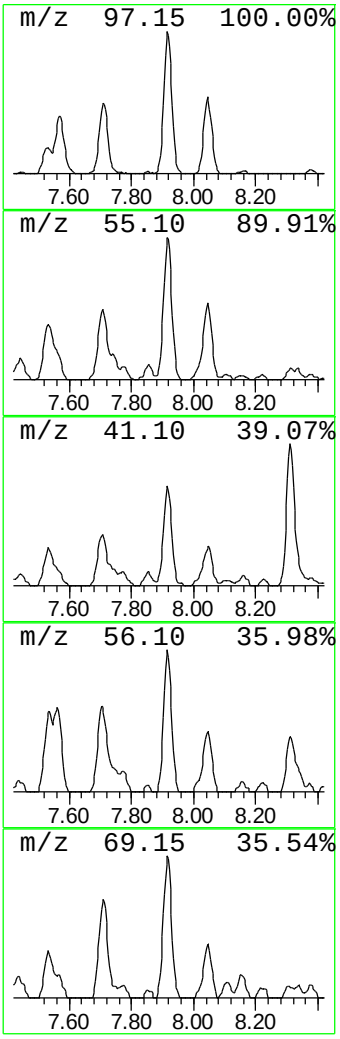
****

Peak Number 6 (DEL) Alkane: Cyclic7.92 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	9.50 ug/L	108158	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

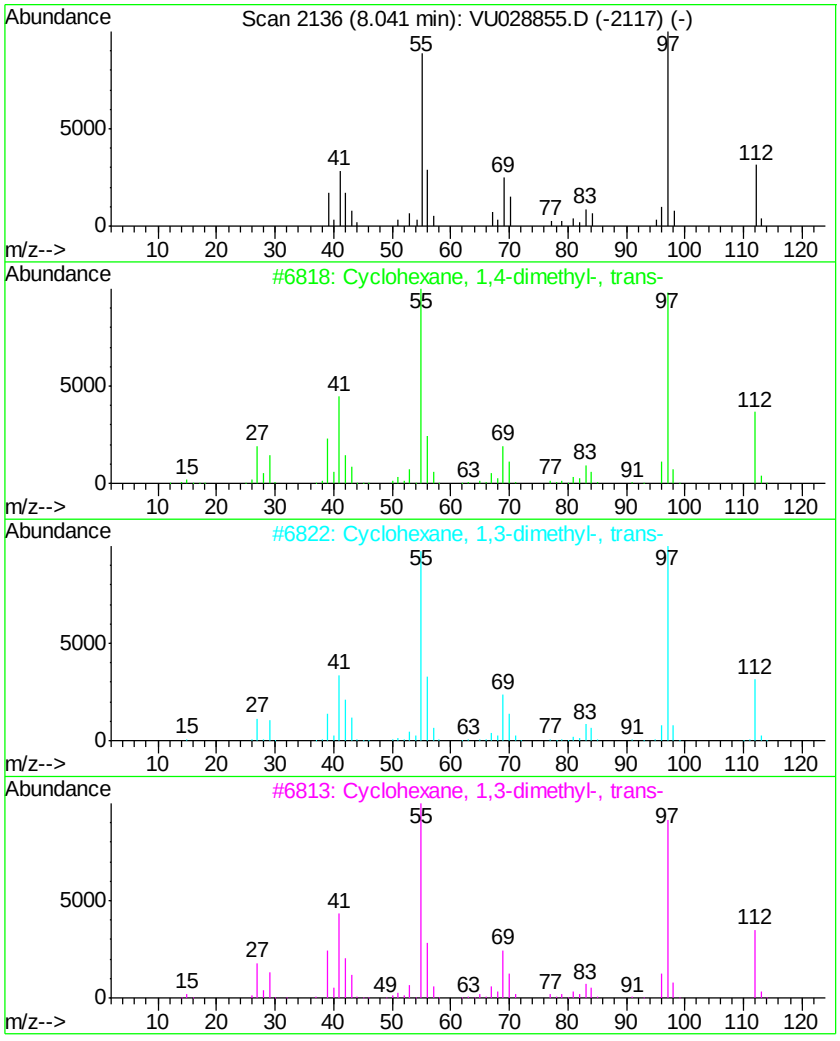
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

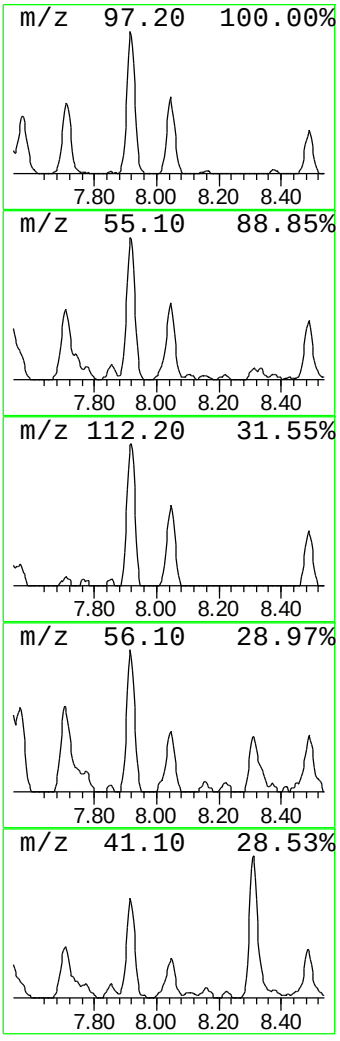
****

Peak Number 7 (DEL) Alkane: Cyclic8.04 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	4.58 ug/L	52197	Chlorobenzene-d5	9.09

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





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Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

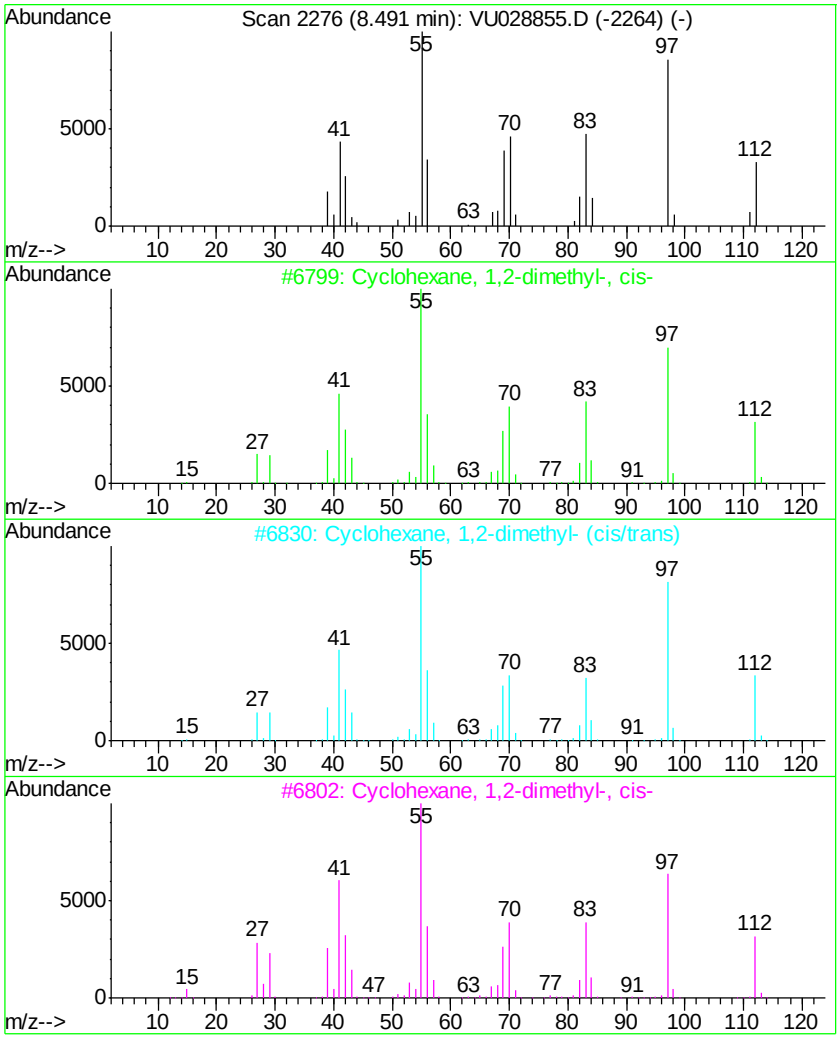
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

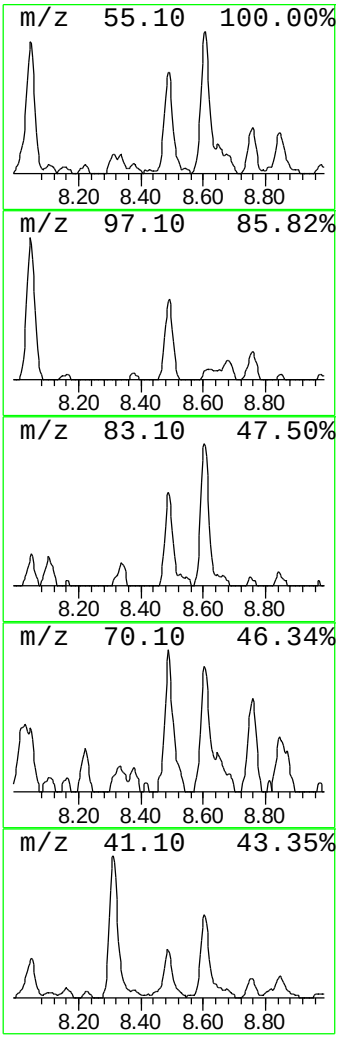
****

Peak Number 8 (DEL) Alkane: Cyclic8.49 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.49	4.30 ug/L	48906	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	95
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	87
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

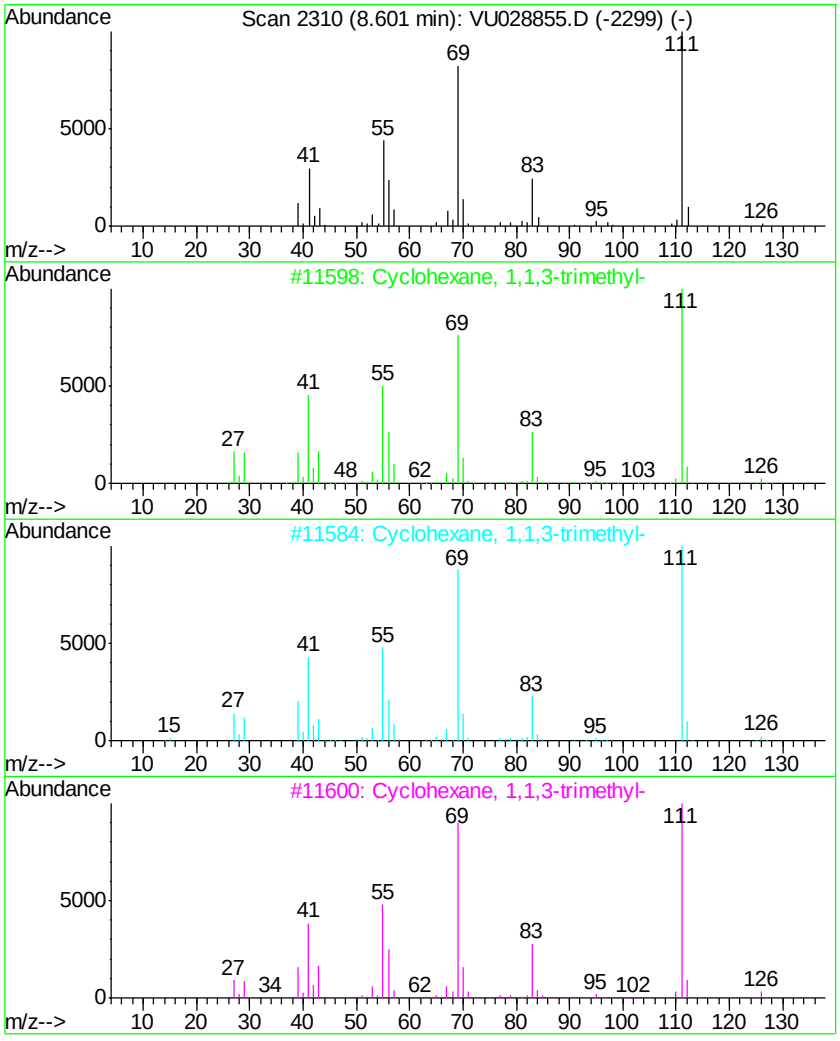
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

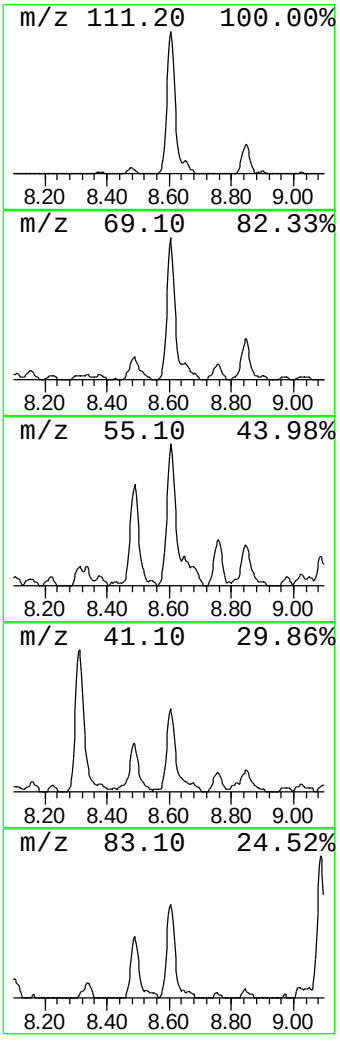
****

Peak Number 9 (DEL) Alkane: Cyclic8.60 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	8.36 ug/L	95190	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	91
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	81
5	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	64





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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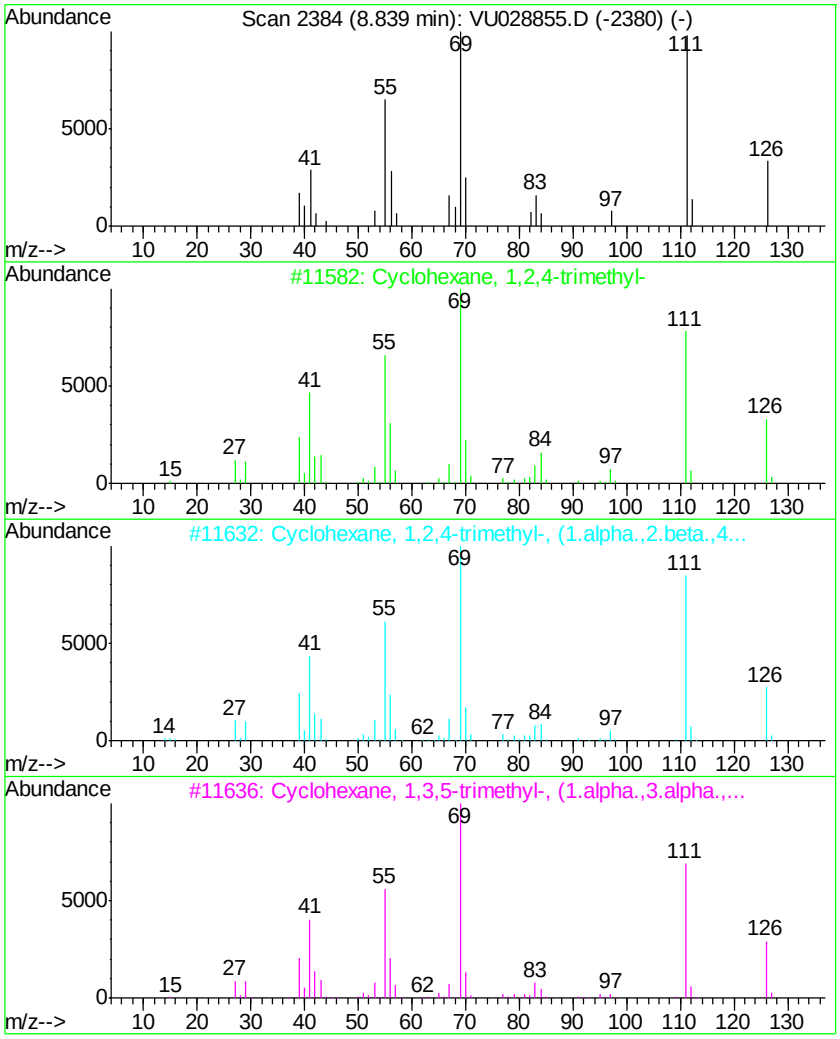
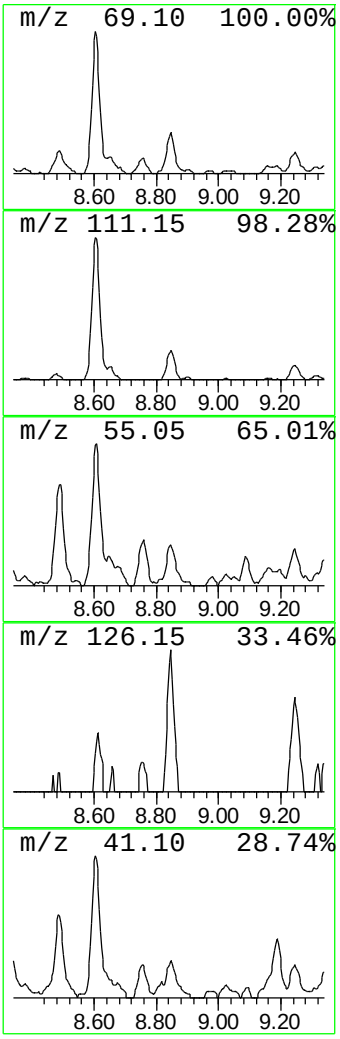
Peak Number 10 (DEL) Alkane: Cyclic8.84 Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.84	2.55 ug/L	28985	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	91
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	90
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	86
4	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	86
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	83





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

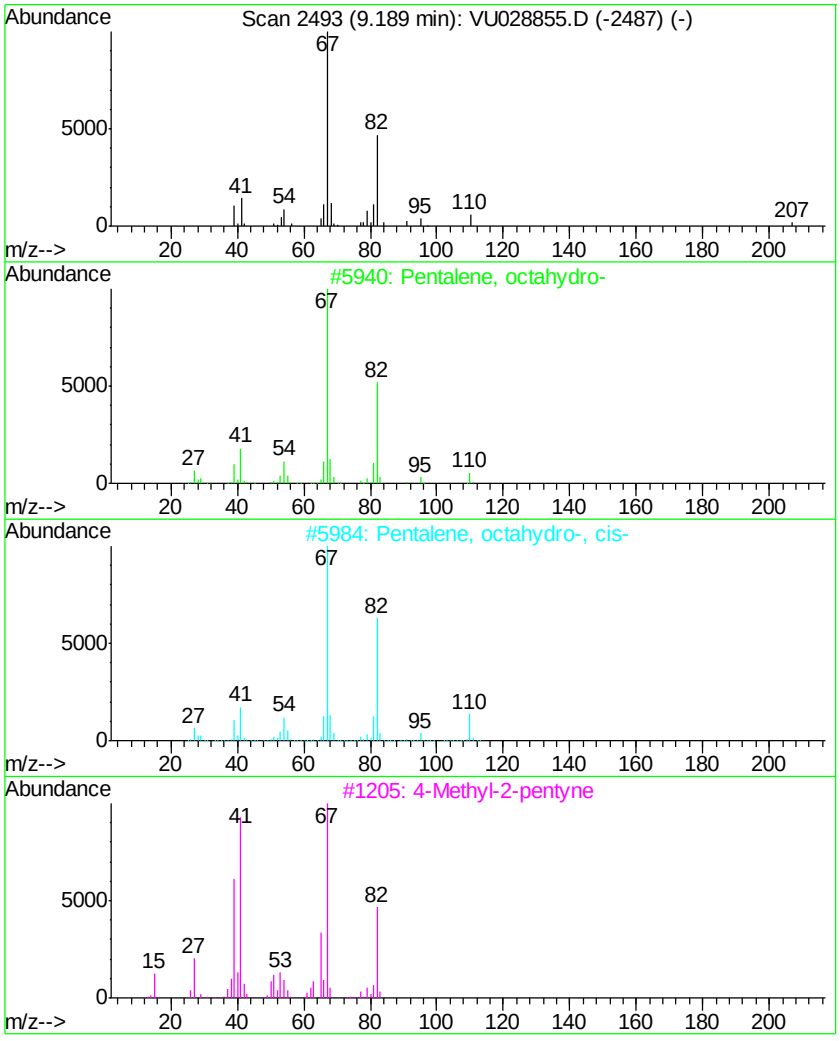
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

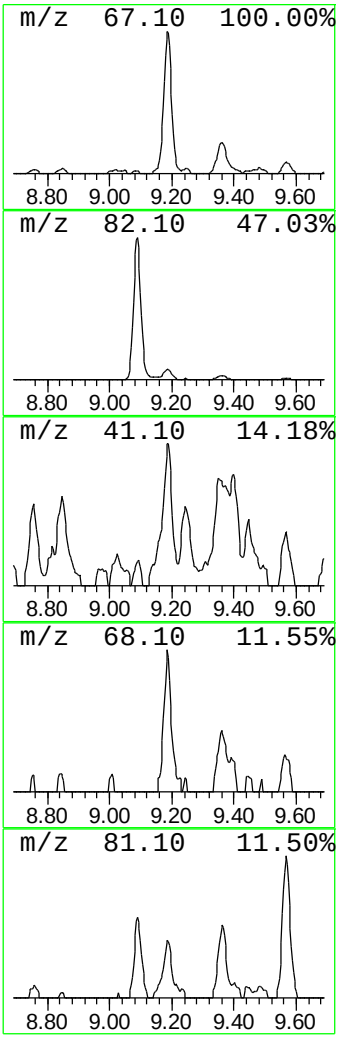
****

Peak Number 11 Pentalene, octahydro- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.19	3.45 ug/L	39246	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-	110	C8H14	000694-72-4	87
2	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	74
3	4-Methyl-2-pentyne	82	C6H10	021020-27-9	72
4	1,4-Hexadiene	82	C6H10	000592-45-0	72
5	trans-1,4-Hexadiene	82	C6H10	007319-00-8	64





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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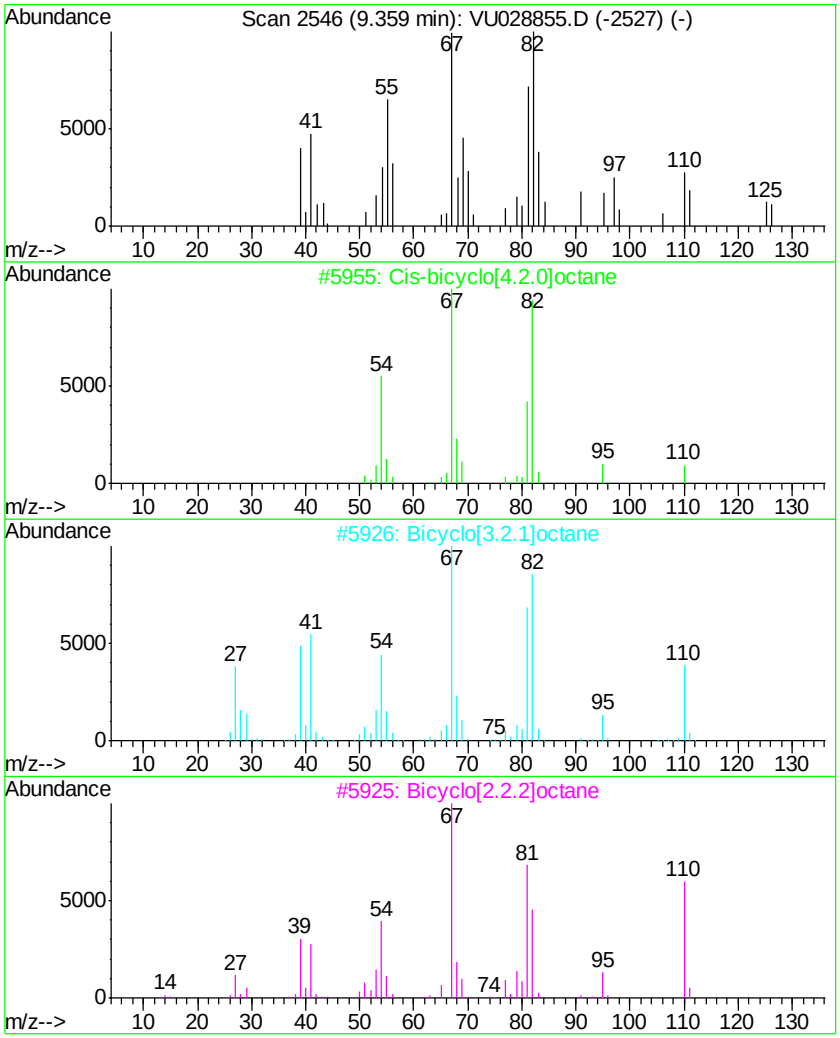
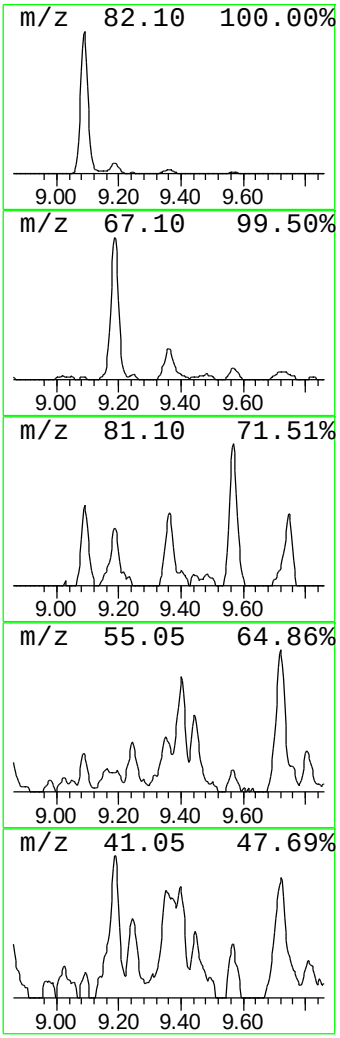
Peak Number 12 Cis-bicyclo[4.2.0]octane Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	4.00 ug/L	45509	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cis-bicyclo[4.2.0]octane	110	C8H14	028282-35-1	62
2	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	62
3	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	55
4	Acetic acid, trifluoro-, cyclohe...	196	C8H11F3O2	001549-45-7	50
5	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	49





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Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

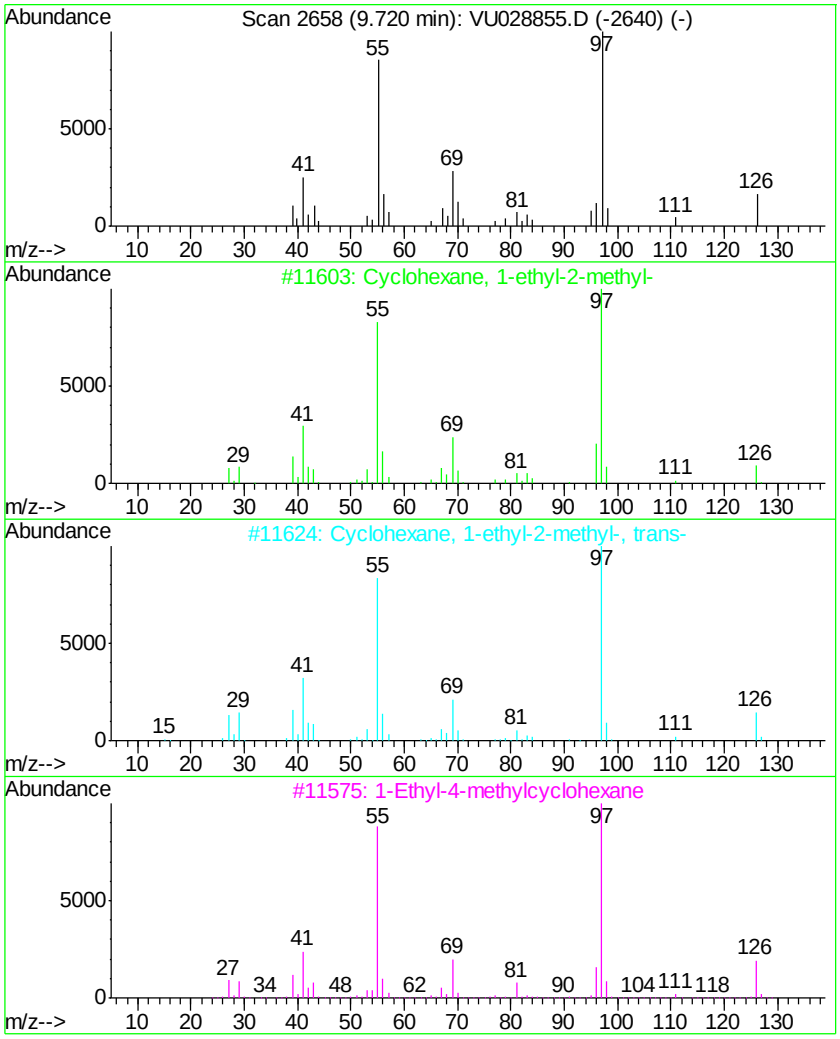
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

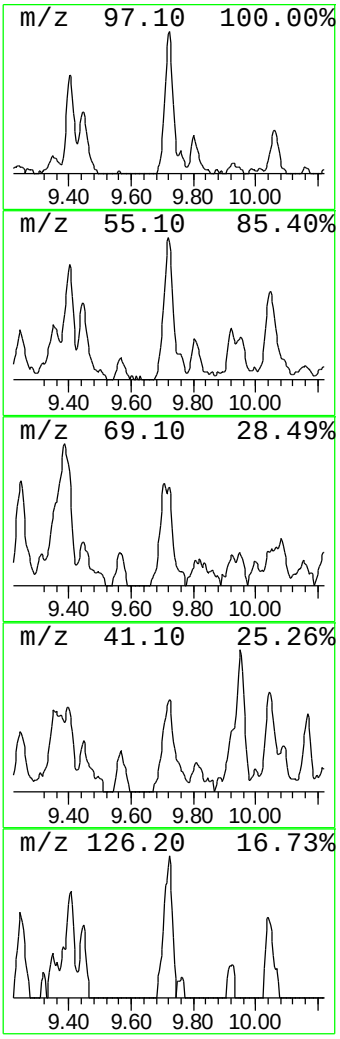
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 (DEL) Alkane: Cyclic9.72 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	5.05 ug/L	57475	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	90
2	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	87
3	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	83
4	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	80
5	Sulfurous acid, cyclohexylmethyl...	388	C22H44O3S	1000309-22-3	72





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

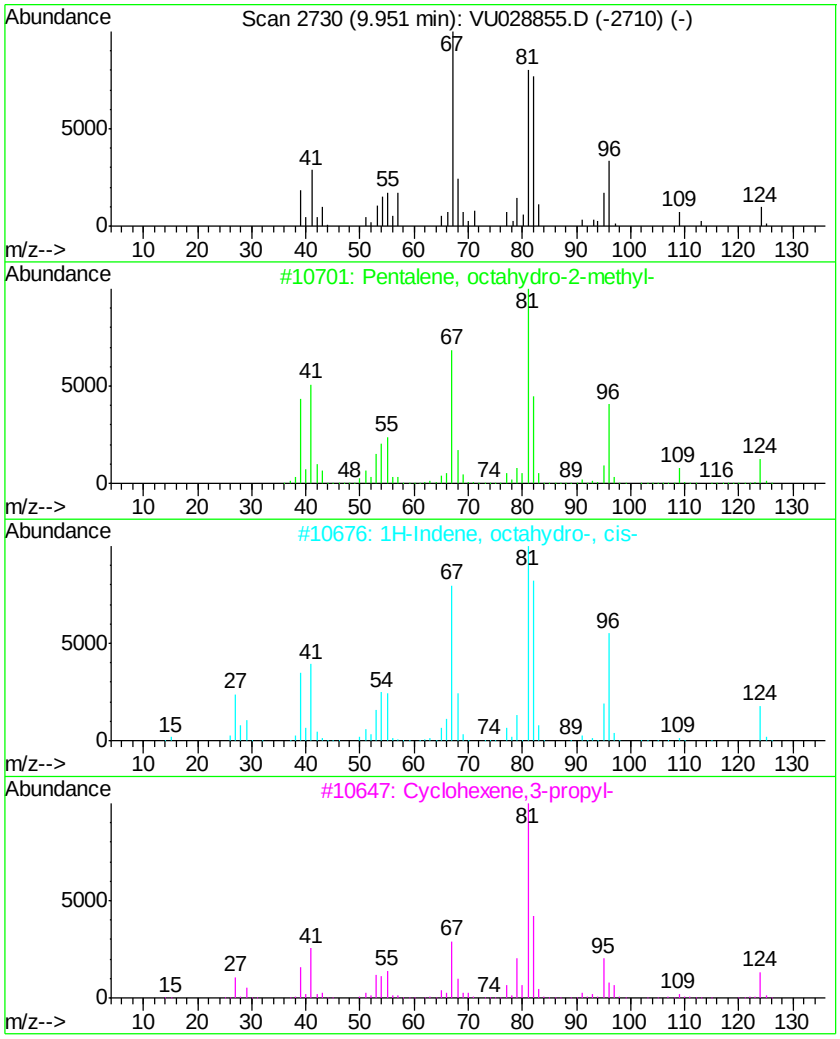
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

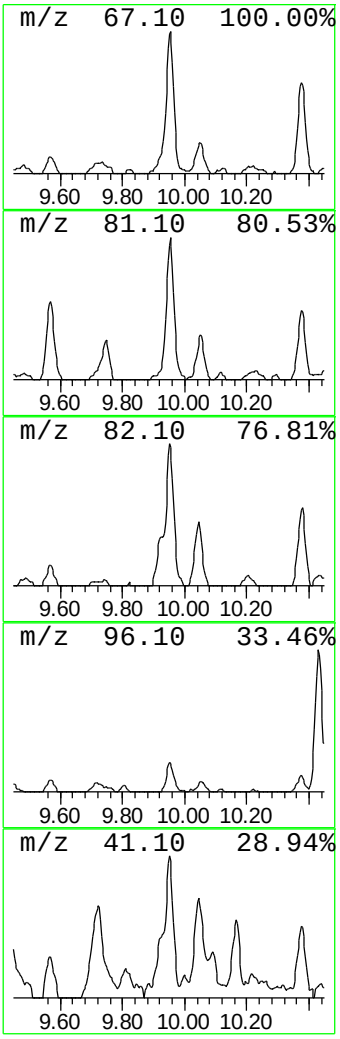
****

Peak Number 14 Pentalene, octahydro-2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	6.41 ug/L	72999	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	53
2	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	52
3	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	43
4	C2H5CH=CHCH=CH2	82	C6H10	000592-48-3	43
5	Bicyclo[2.2.1]heptane, 2-ethyl-	124	C9H16	002146-41-0	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
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Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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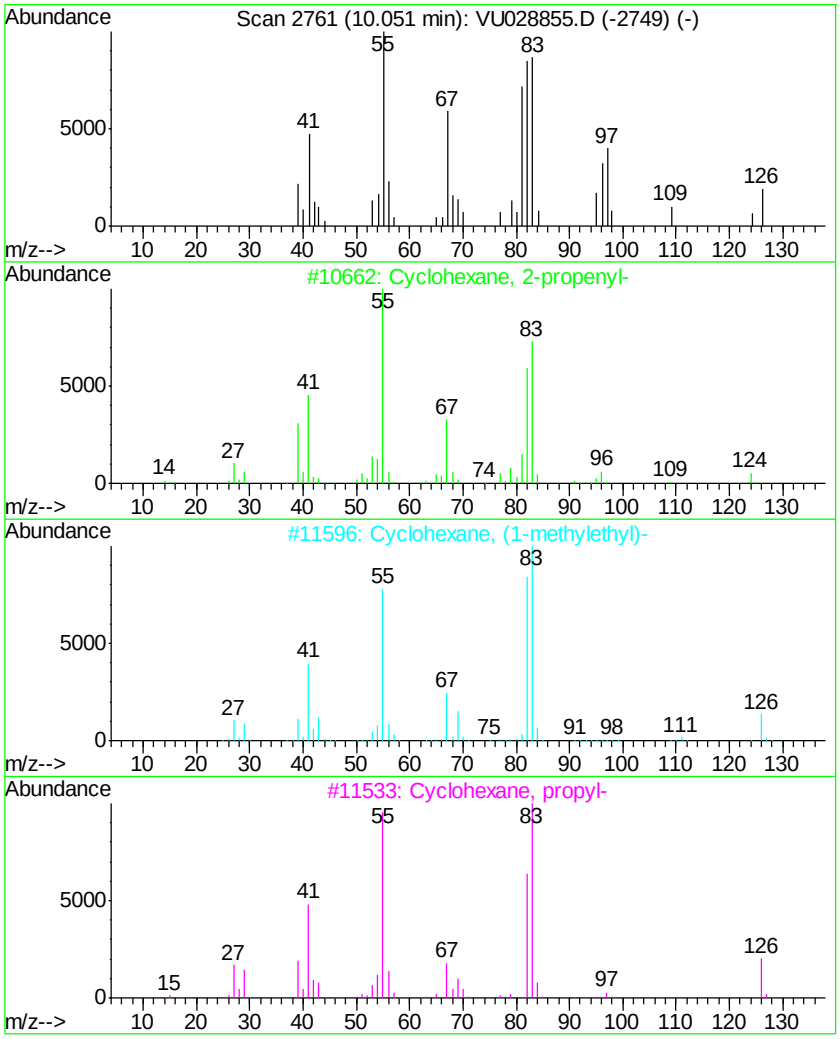
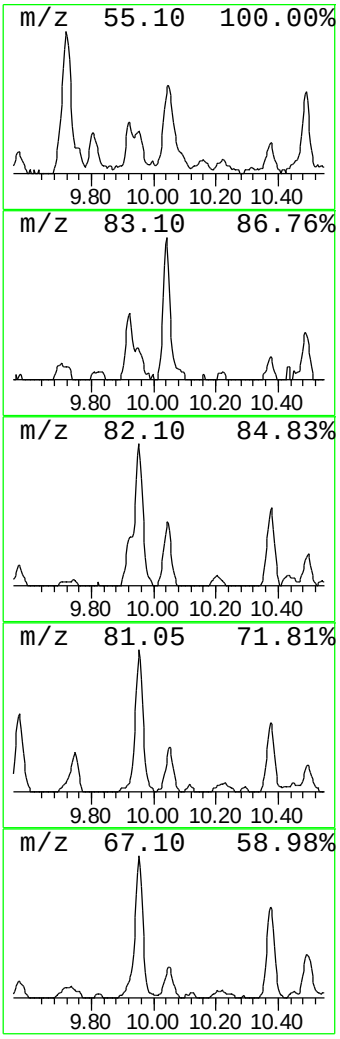
Peak Number 15 Cyclohexane, 2-propenyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.05	3.19 ug/L	36276	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	62
2	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	52
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	52
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	52
5	Cyclohexanemethanol	114	C7H14O	000100-49-2	47





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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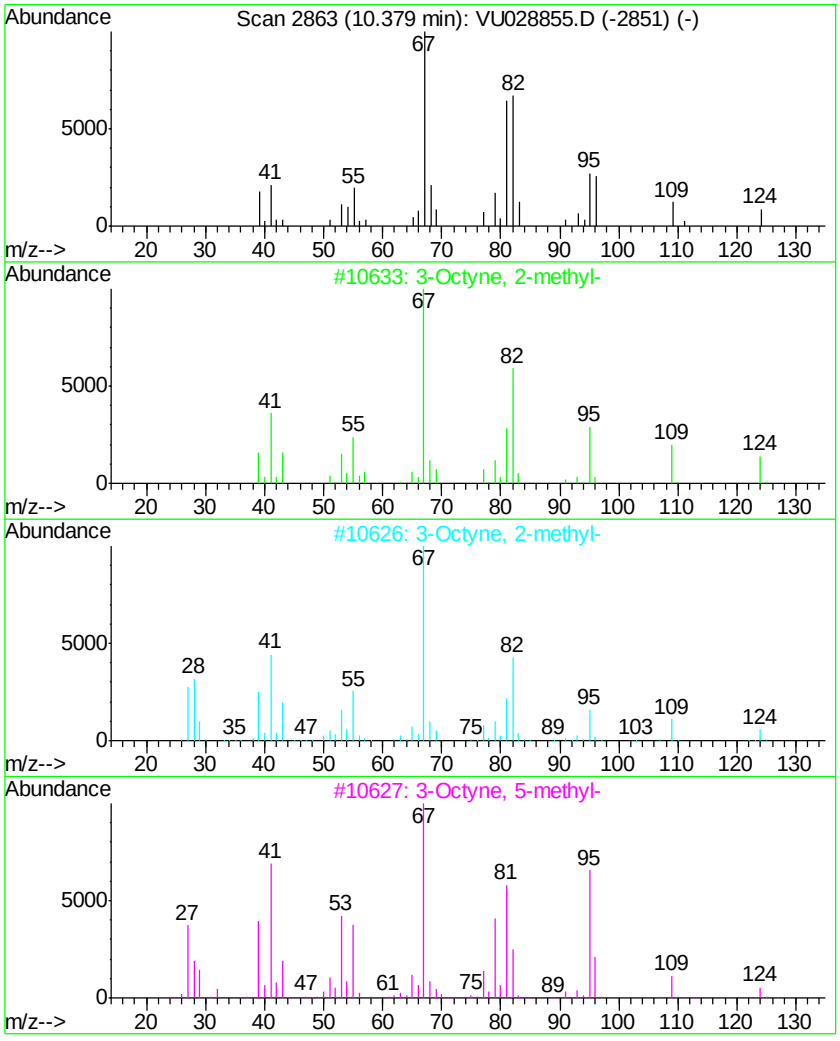
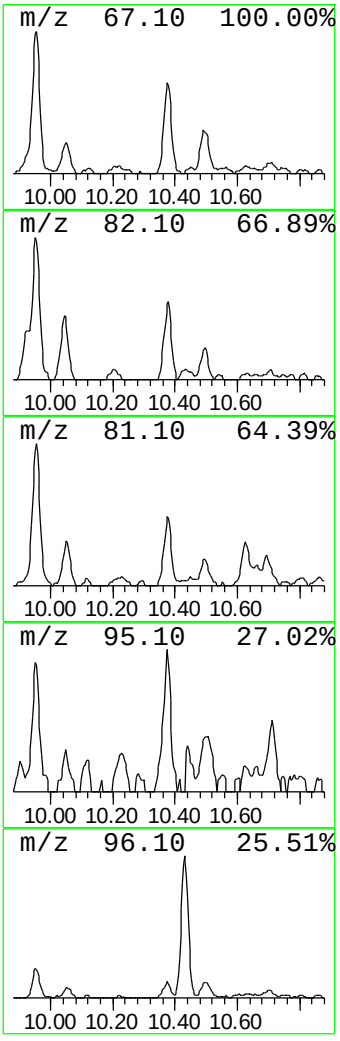
Peak Number 16 3-Octyne, 2-methyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.38	3.24 ug/L	33535	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Octyne, 2-methyl-	124	C9H16	055402-15-8	64
2	3-Octyne, 2-methyl-	124	C9H16	055402-15-8	50
3	3-Octyne, 5-methyl-	124	C9H16	062108-33-2	50
4	Cyclooctene, 3-methyl-	124	C9H16	013152-05-1	49
5	2-Ethylidenecyclohexanone	124	C8H12O	001122-24-3	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

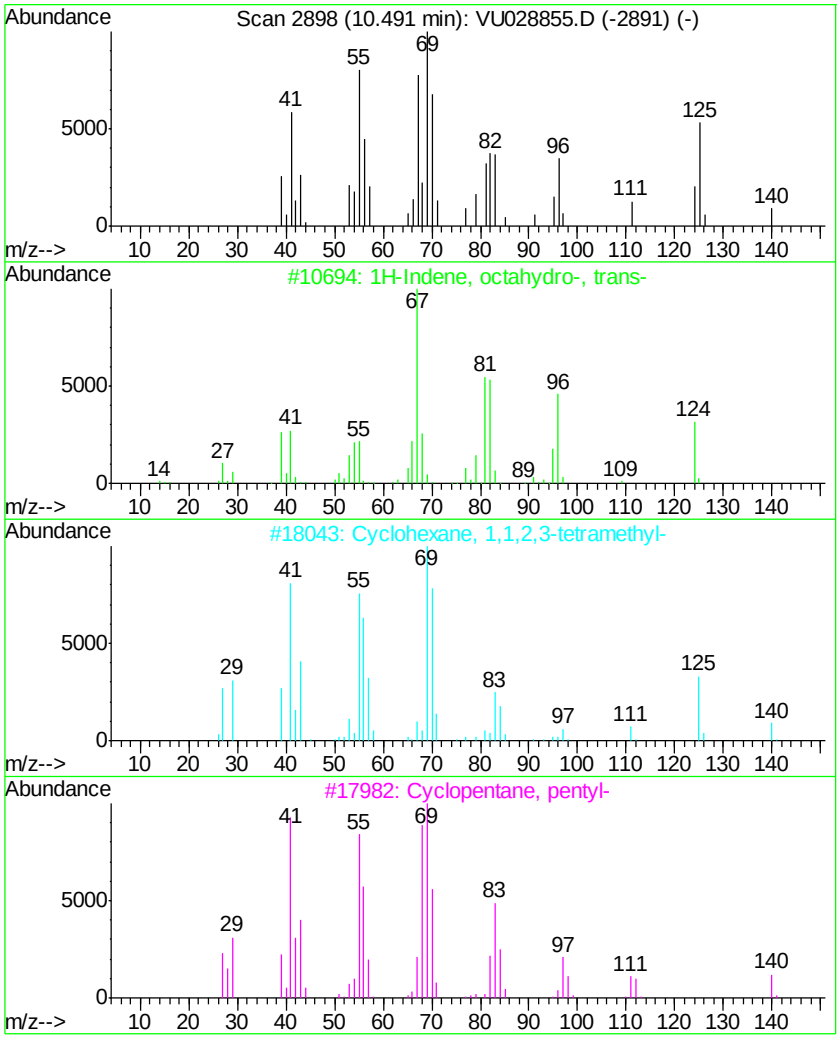
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

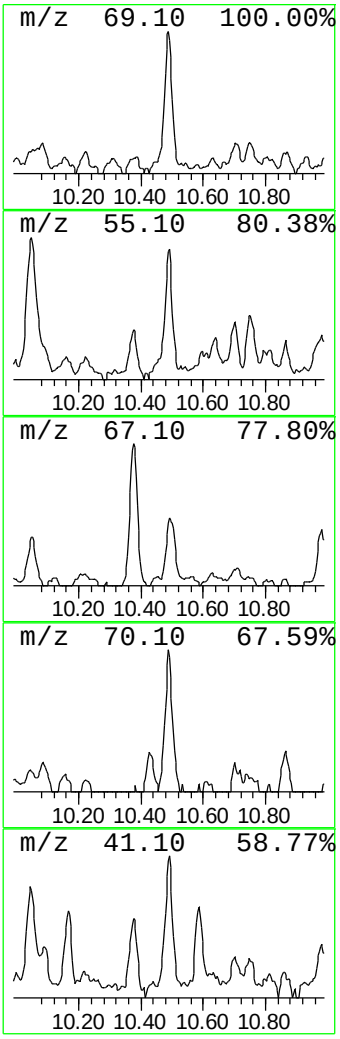
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 1H-Indene, octahydro-, trans- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	4.21 ug/L	43557	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	74
2	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	49
3	Cyclopentane, pentyl-	140	C10H20	003741-00-2	46
4	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	35
5	4-Octene, 2,6-dimethyl-, [S-(Z)]-	140	C10H20	062960-77-4	35





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

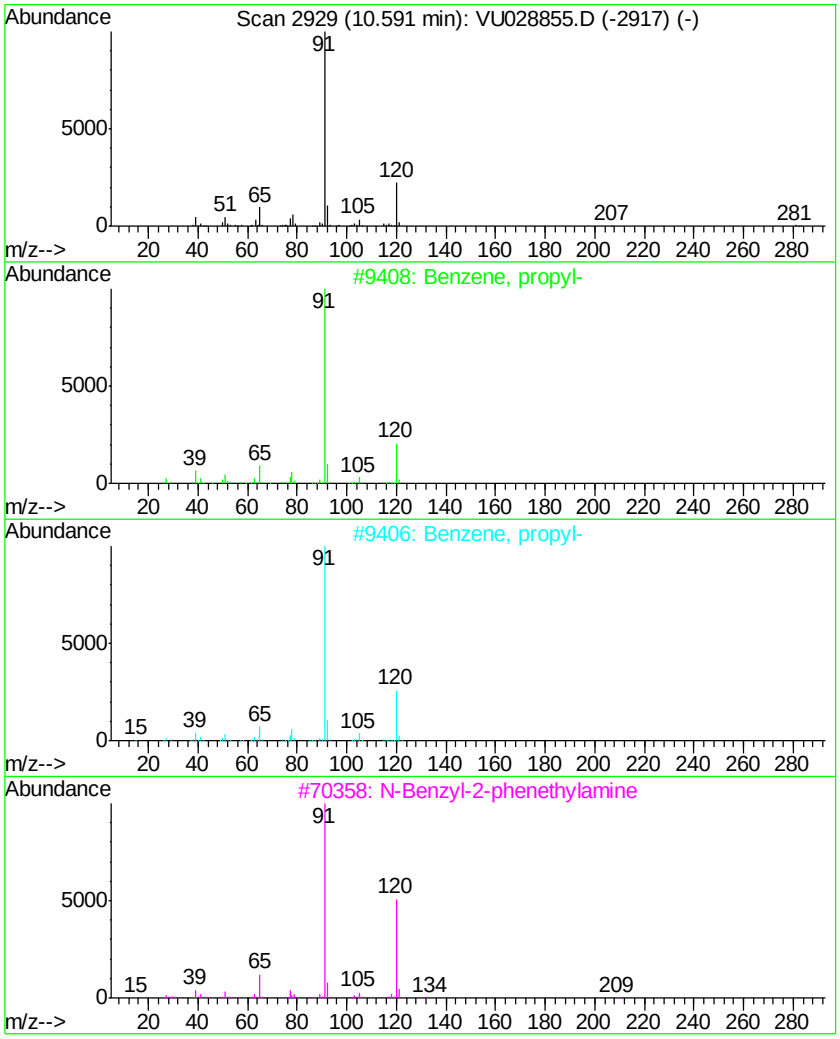
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

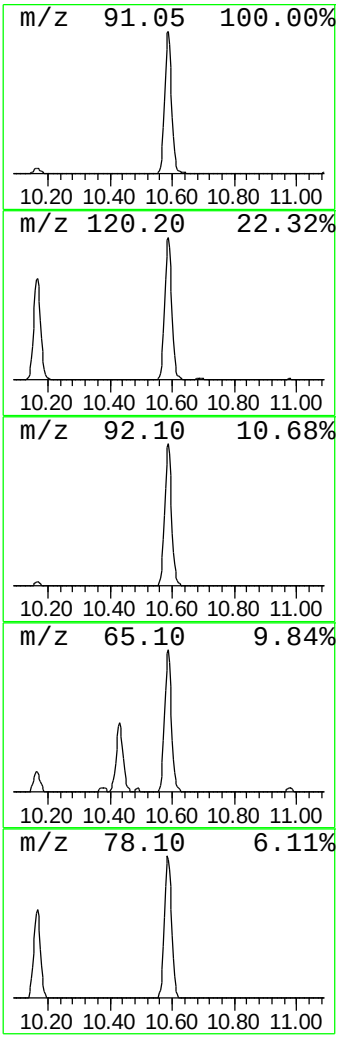
****

Peak Number 18 Benzene, propyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.59	20.53 ug/L	212551	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	87
2	Benzene, propyl-	120	C9H12	000103-65-1	87
3	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	78
4	Benzene, propyl-	120	C9H12	000103-65-1	76
5	Benzene, (ethenyloxy)-	120	C8H8O	000766-94-9	58





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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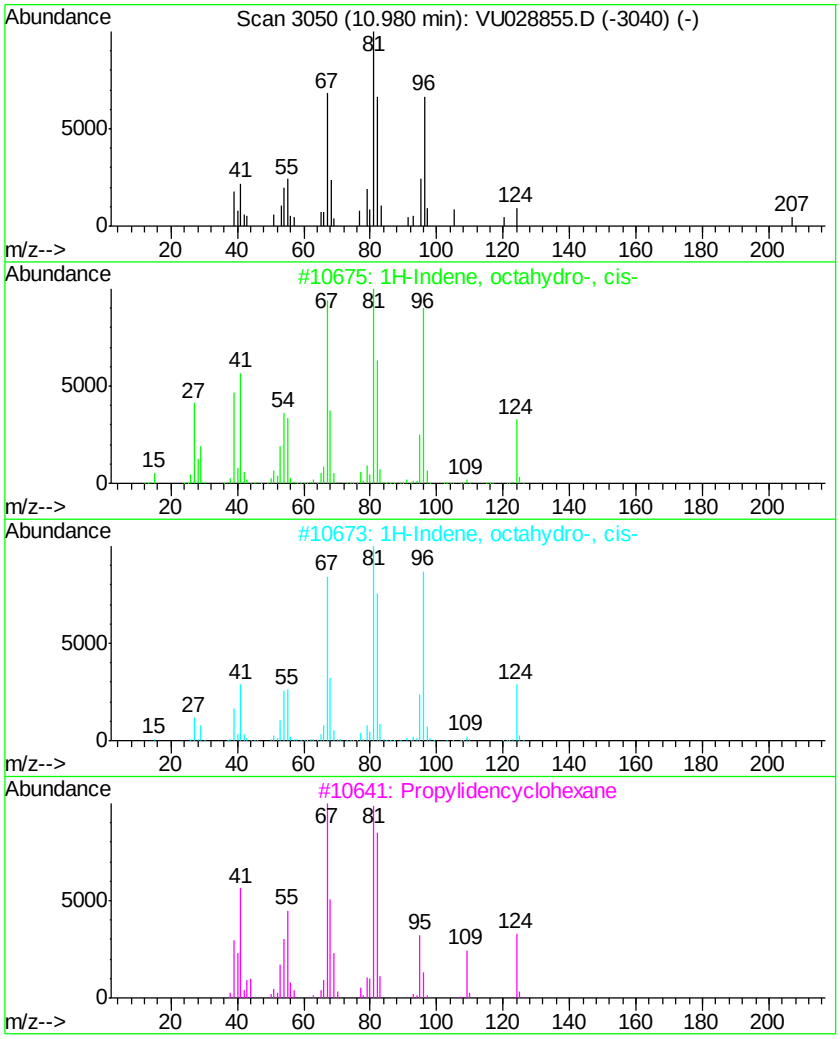
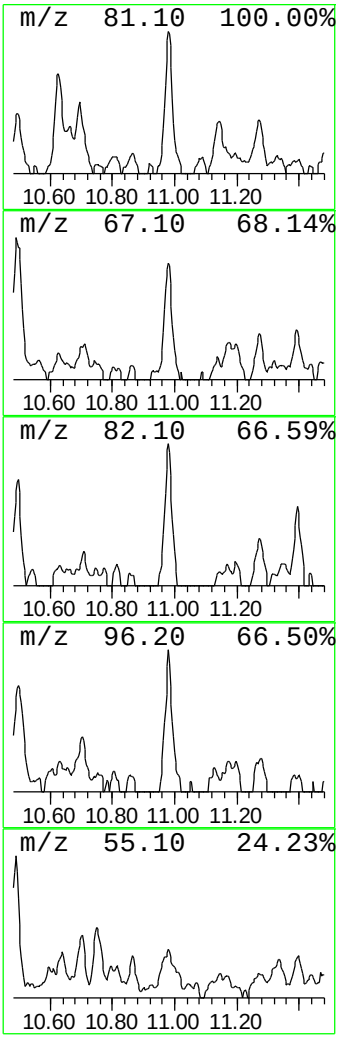
Peak Number 19 1H-Indene, octahydro-, cis- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.98	2.63 ug/L	27197	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	91
2	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	90
3	Propylidencyclohexane	124	C9H16	002129-93-3	76
4	Cyclohexene,1-propyl-	124	C9H16	002539-75-5	59
5	Bicyclo[3.3.1]nonane	124	C9H16	000280-65-9	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

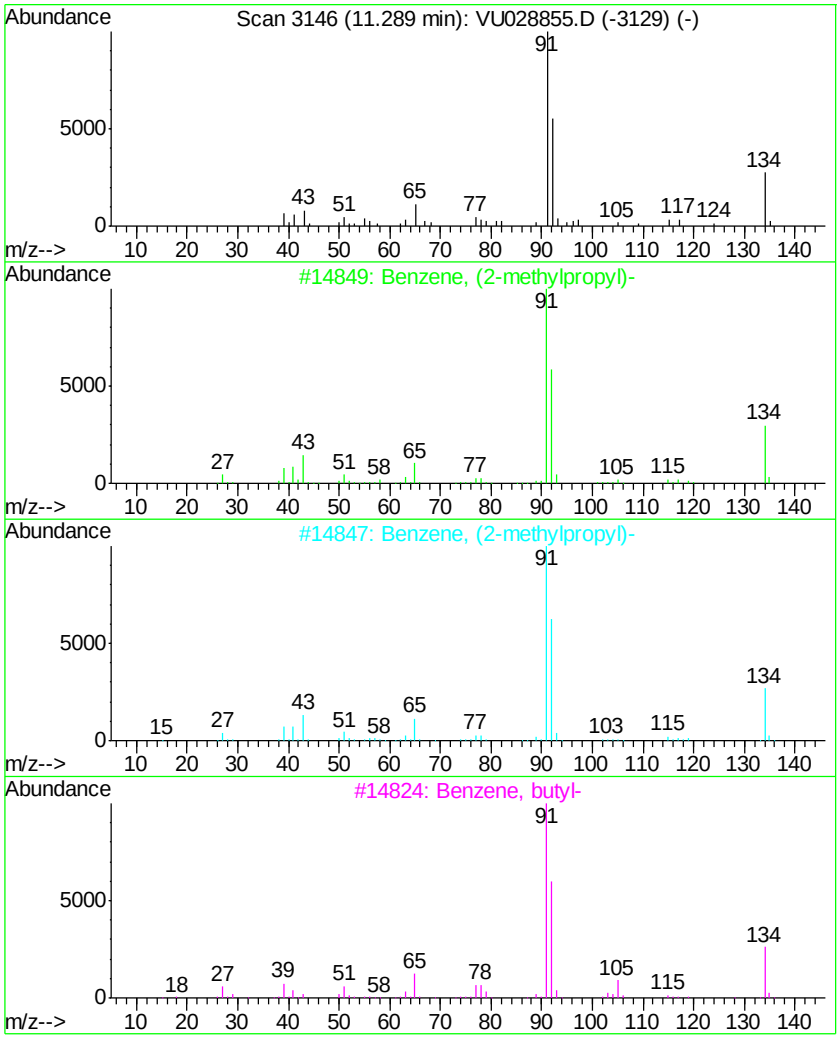
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

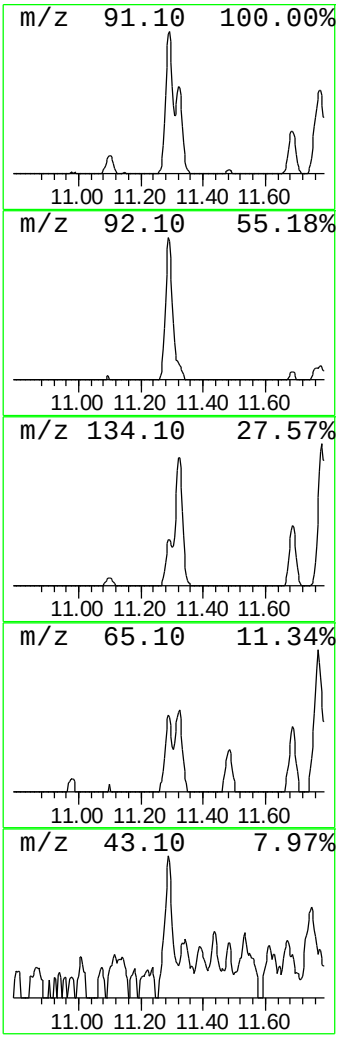
****

Peak Number 20 Benzene, (2-methylpropyl)- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	3.64 ug/L	37674	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	90
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	87
3	Benzene, butyl-	134	C10H14	000104-51-8	80
4	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	78
5	Benzene, butyl-	134	C10H14	000104-51-8	72





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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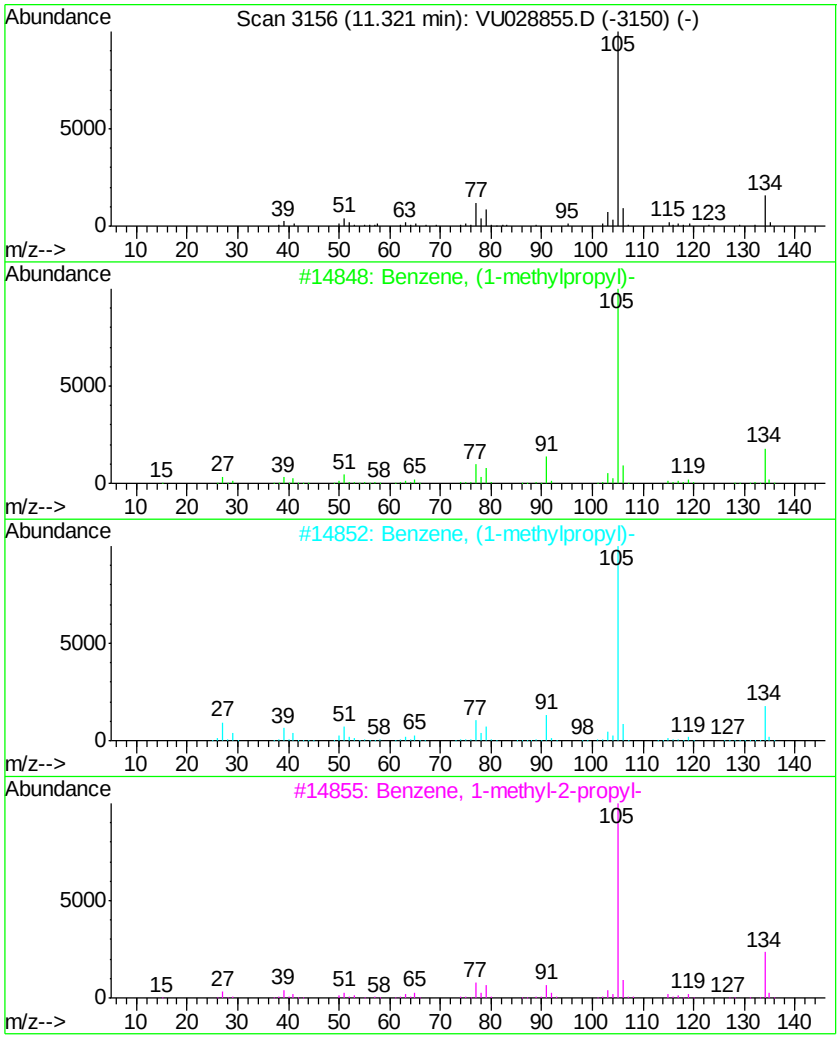
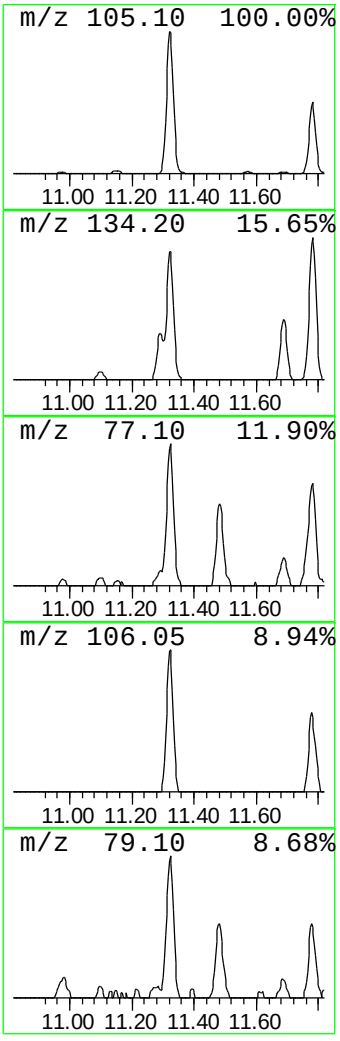
Peak Number 21 Benzene, (1-methylpropyl)- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	10.98 ug/L	113682	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
4	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	87
5	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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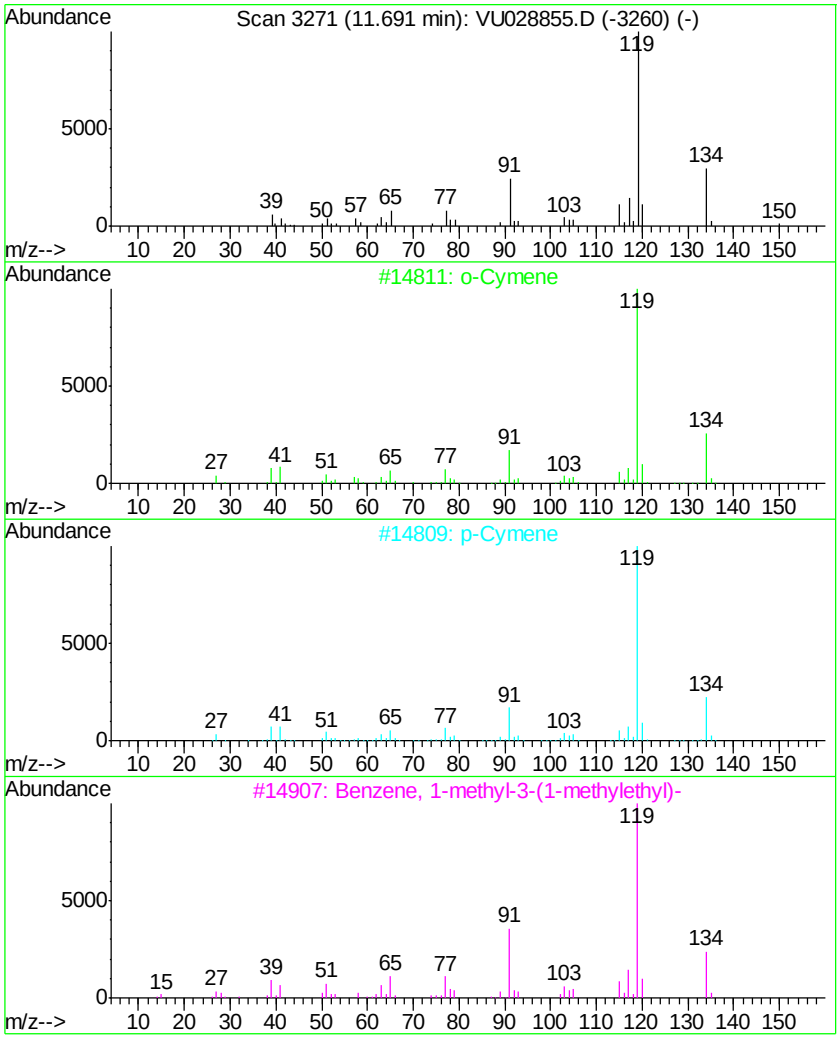
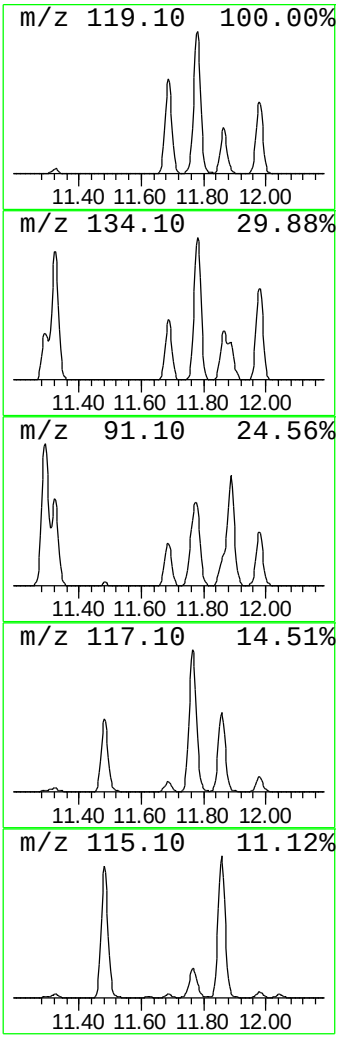
Peak Number 22 o-Cymene Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	4.22 ug/L	43685	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	97
2	p-Cymene	134	C10H14	000099-87-6	95
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
4	p-Cymene	134	C10H14	000099-87-6	95
5	o-Cymene	134	C10H14	000527-84-4	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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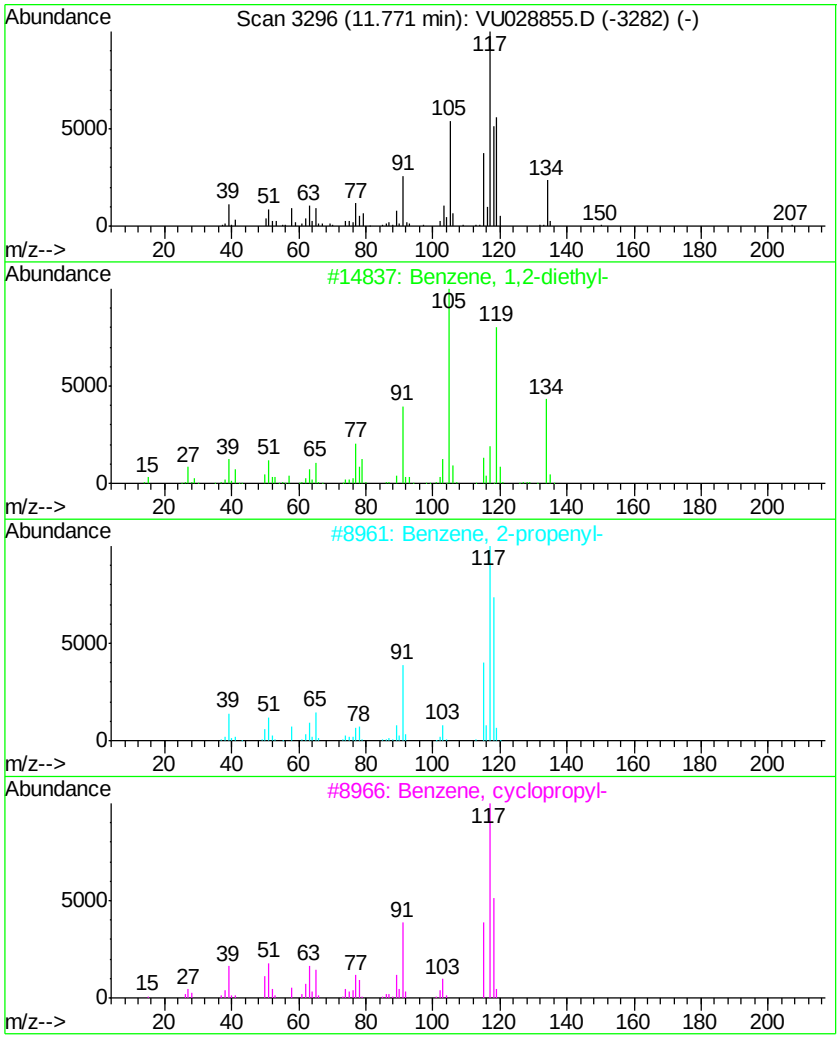
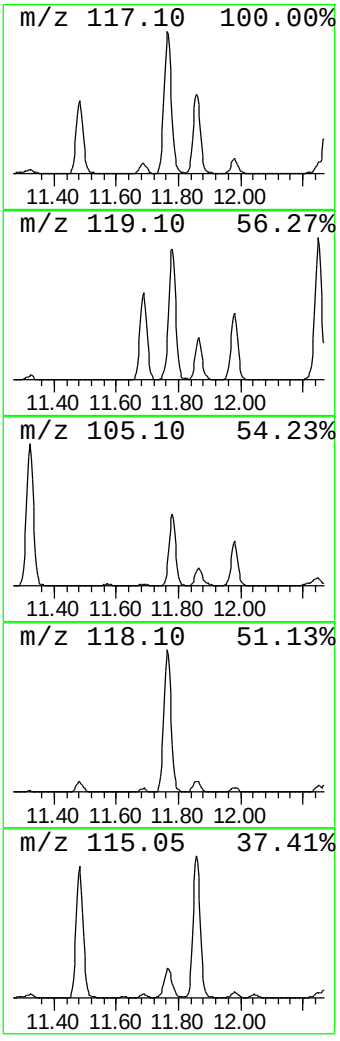
Peak Number 23 Benzene, 1,2-diethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	19.38 ug/L	200666	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	86
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	83
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	59
4	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	50
5	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	50





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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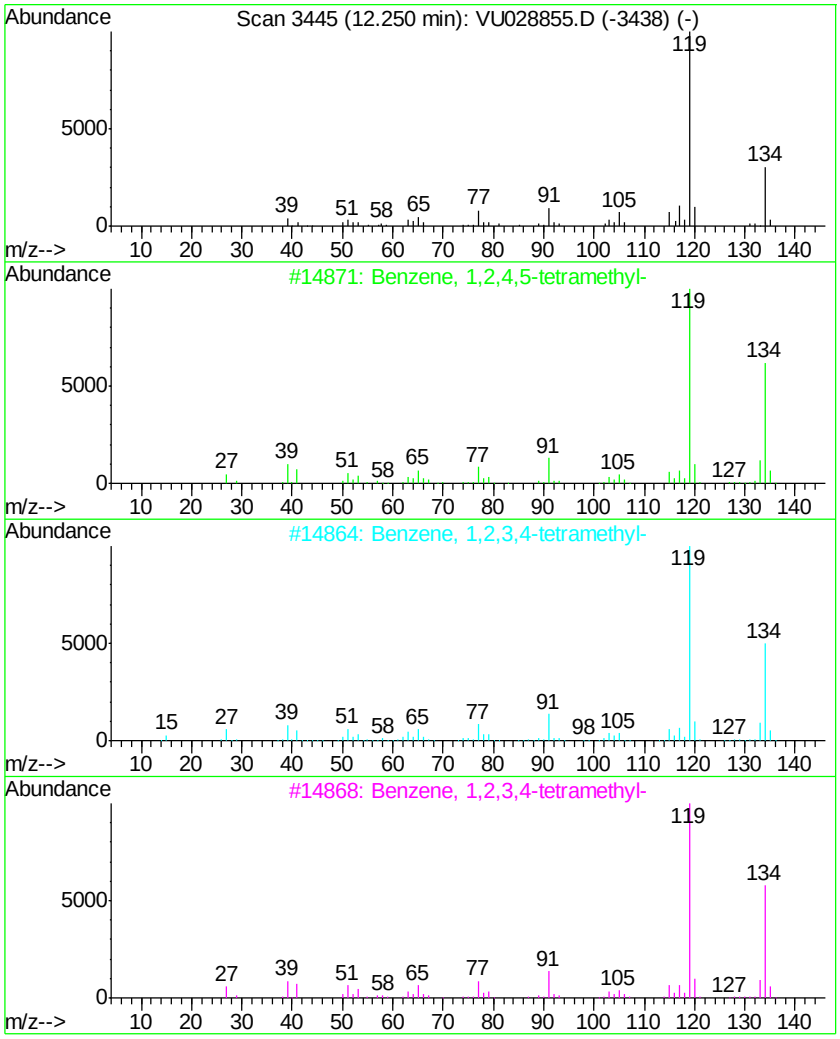
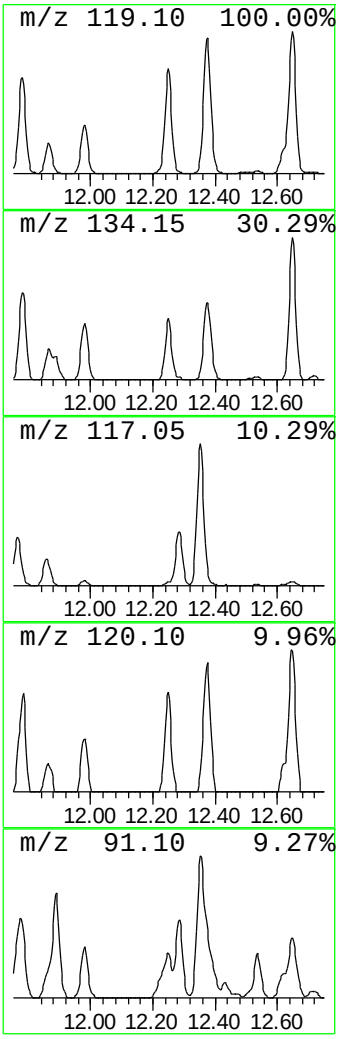
Peak Number 25 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	4.56 ug/L	47204	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	91
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
4	p-Cymene	134	C10H14	000099-87-6	91
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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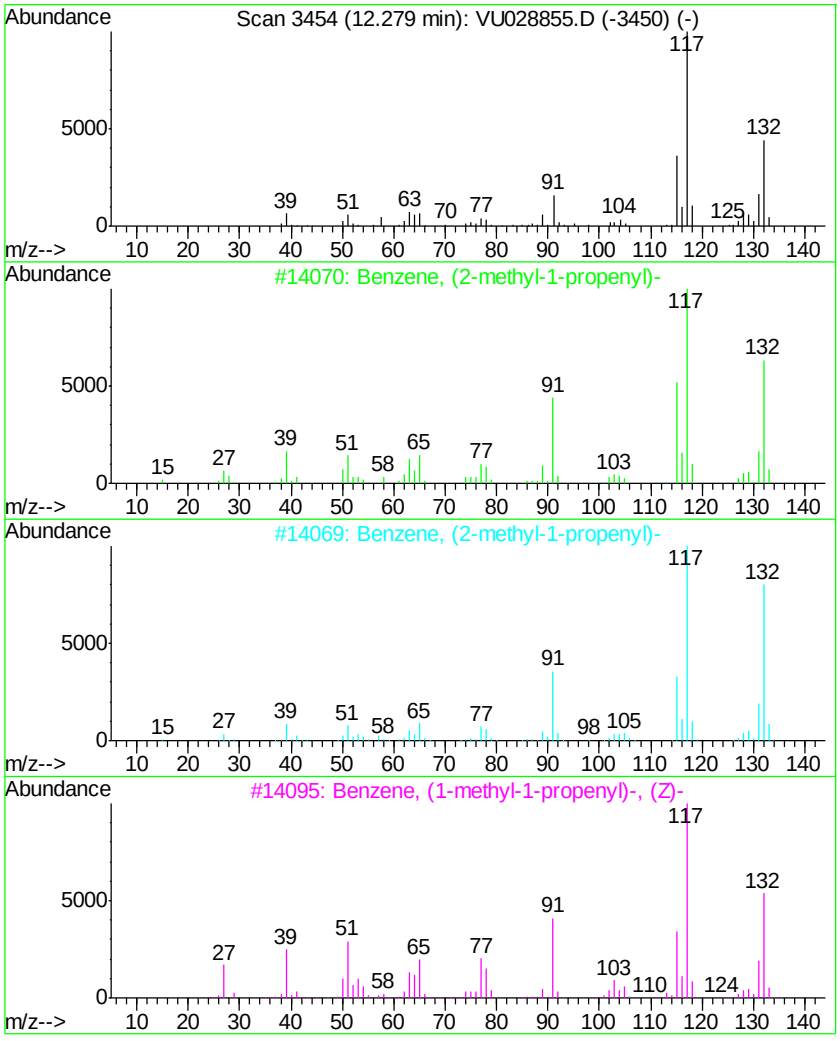
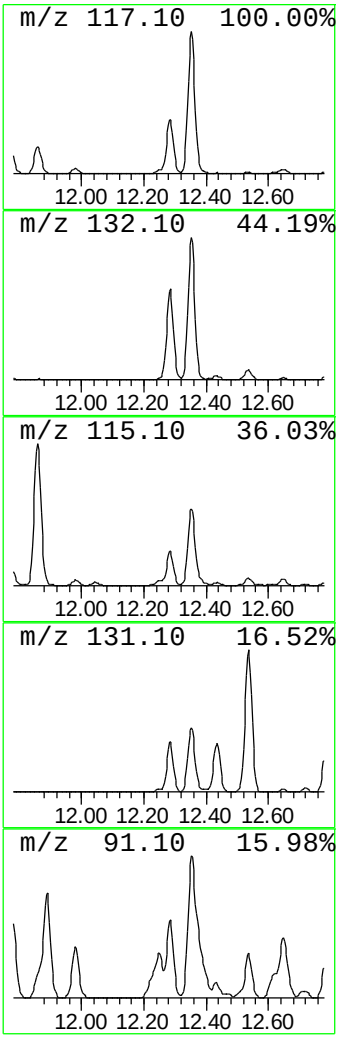
Peak Number 26 Benzene, (2-methyl-1-propen... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	11.30 ug/L	116982	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	91
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	90
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	90
5	Indan, 1-methyl-	132	C10H12	000767-58-8	90





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Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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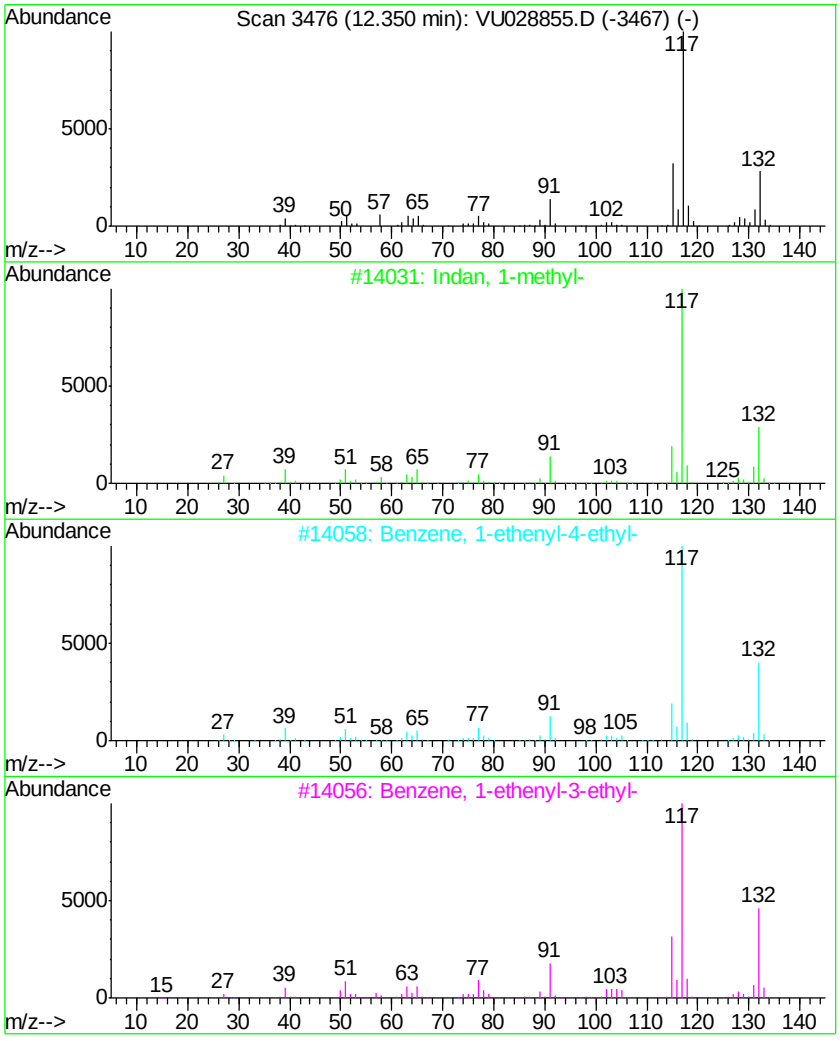
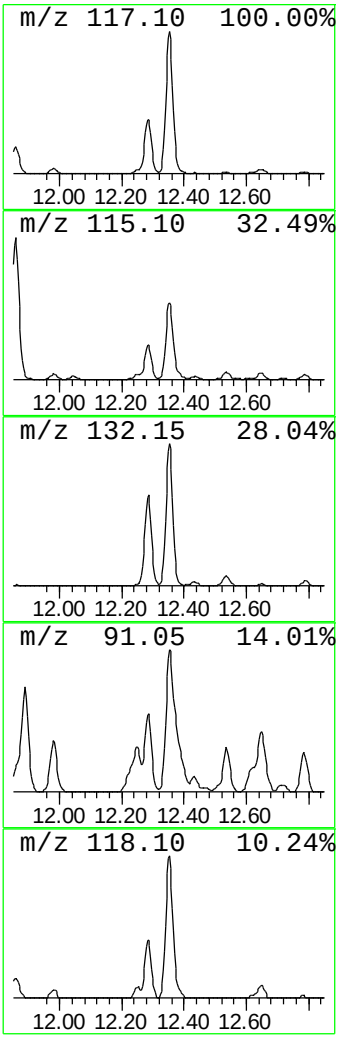
Peak Number 27 Indan, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	34.77 ug/L	360074	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	87
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	86





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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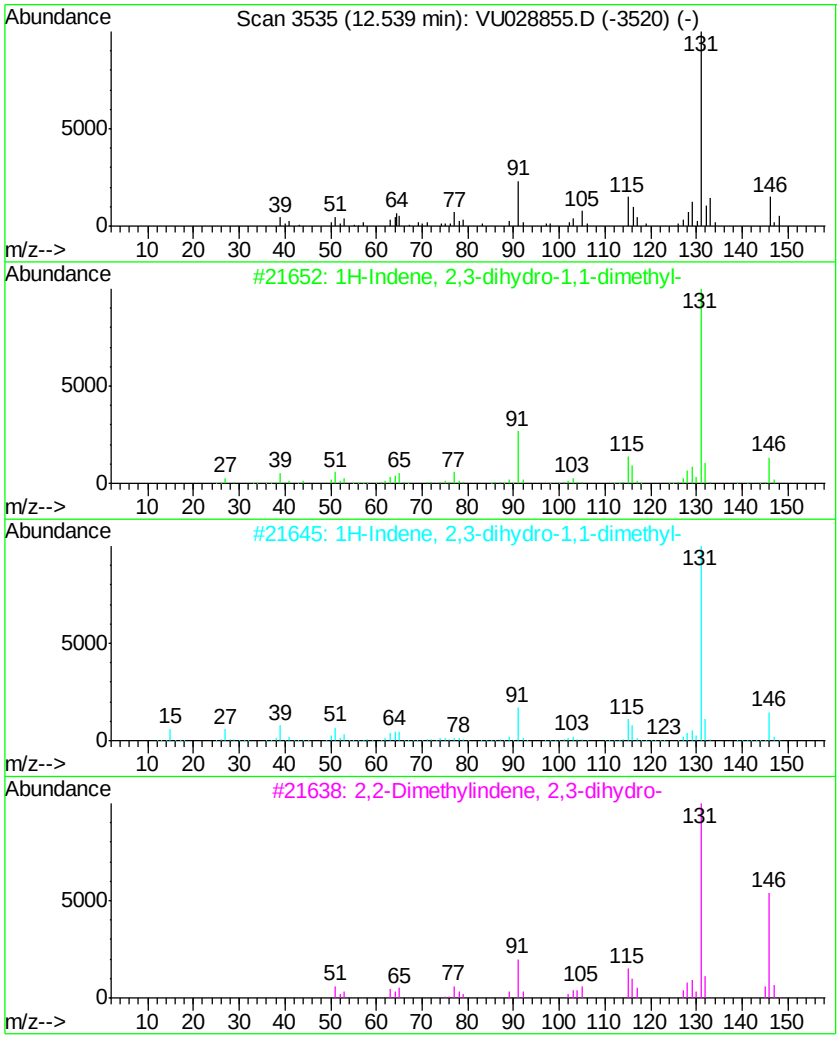
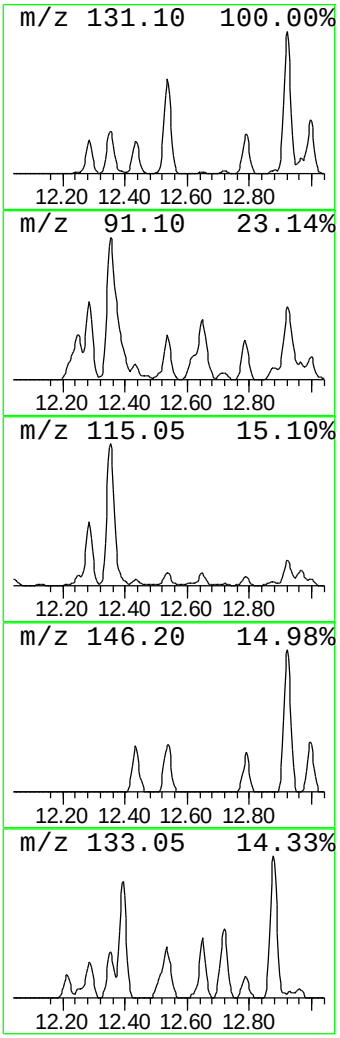
Peak Number 28 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	5.89 ug/L	61031	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	93
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90
4	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	83
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	80





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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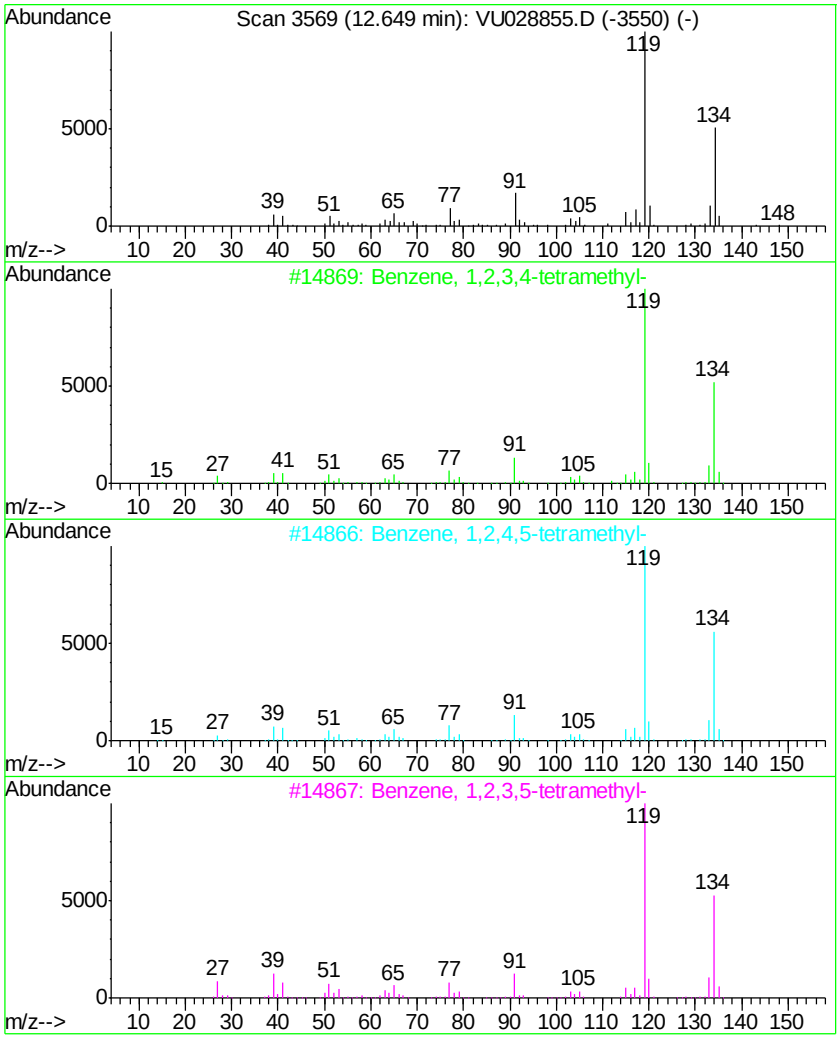
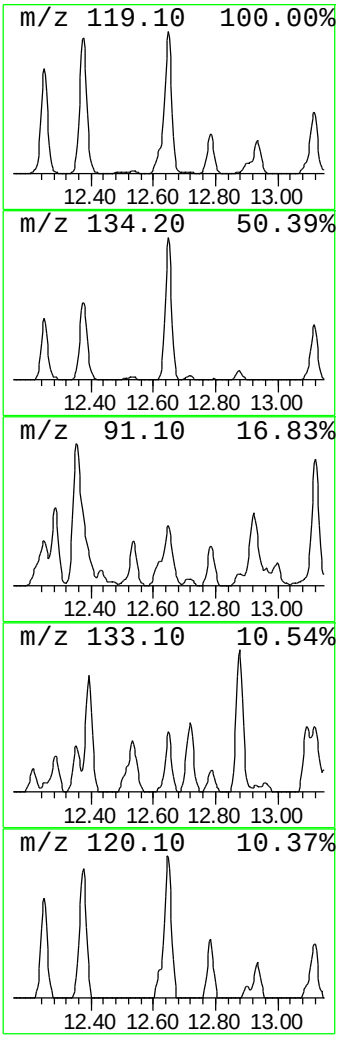
Peak Number 29 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	14.22 ug/L	147284	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	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

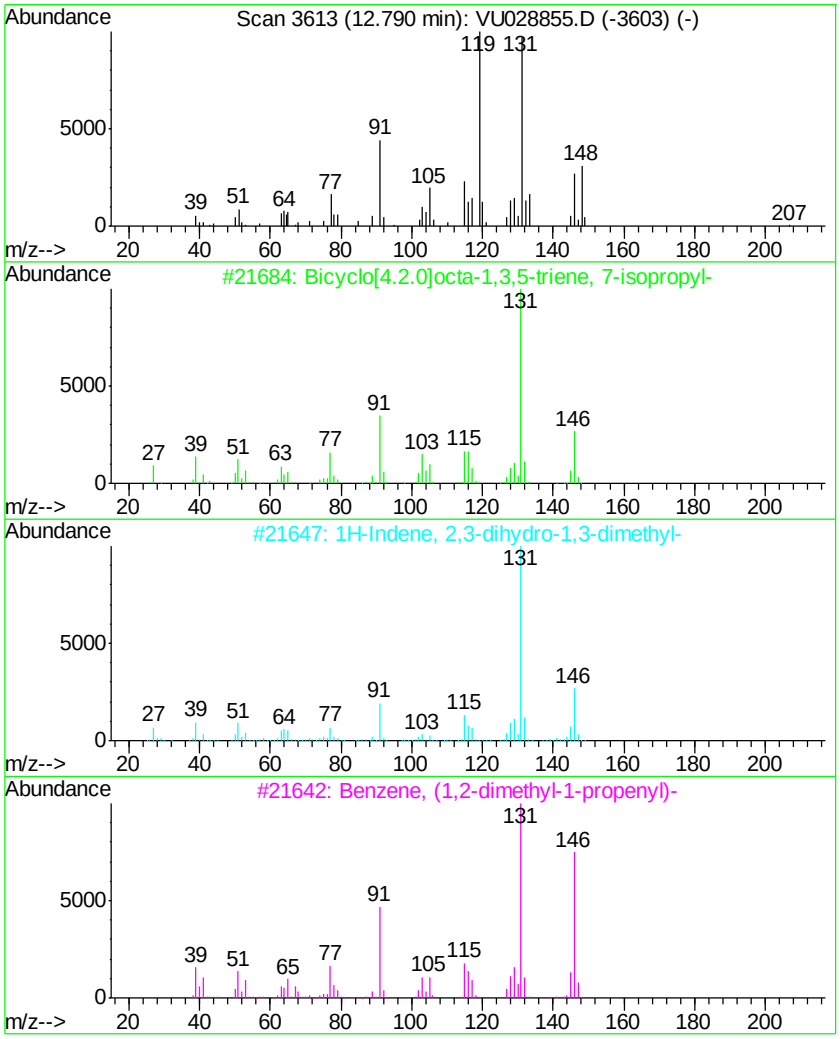
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

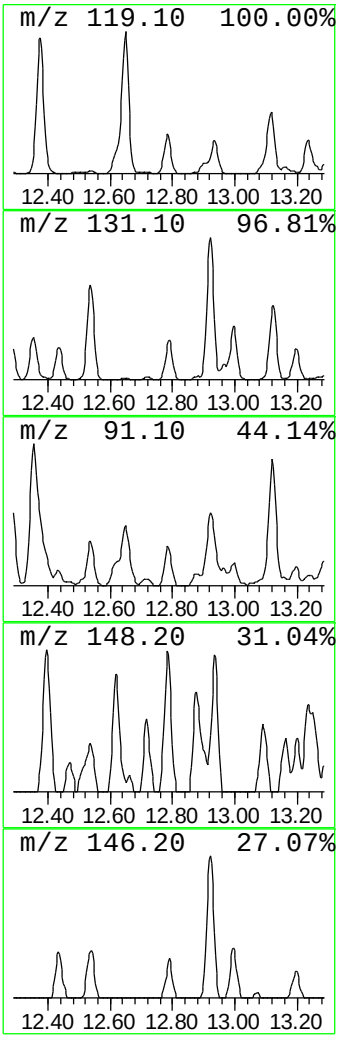
****

Peak Number 30 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	4.90 ug/L	50721	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	89
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	89
3	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	89
4	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	89
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	89





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

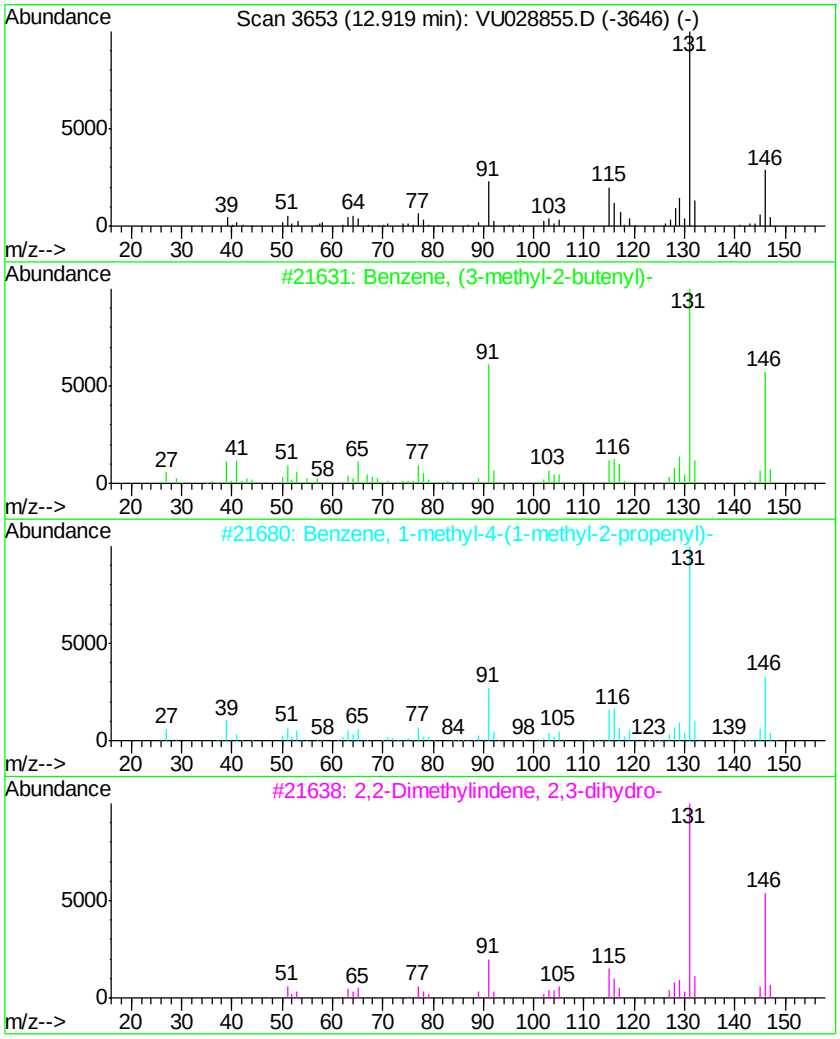
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

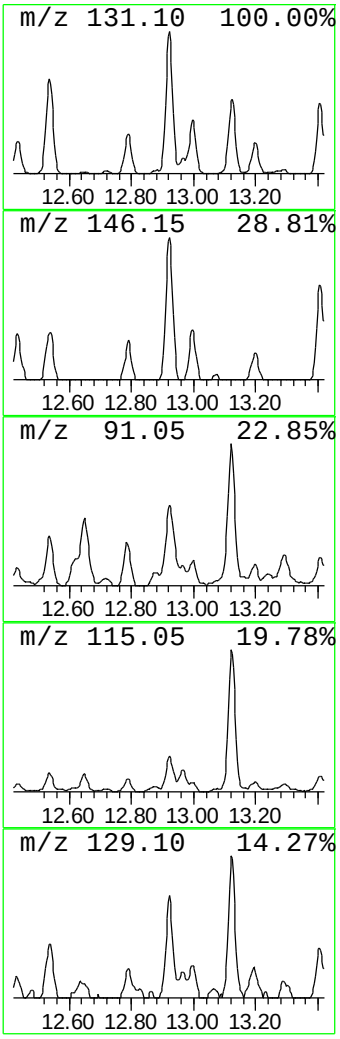
****

Peak Number 31 Benzene, (3-methyl-2-butenyl)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	8.31 ug/L	86090	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	94
2	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	94
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
4	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	94
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	93





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

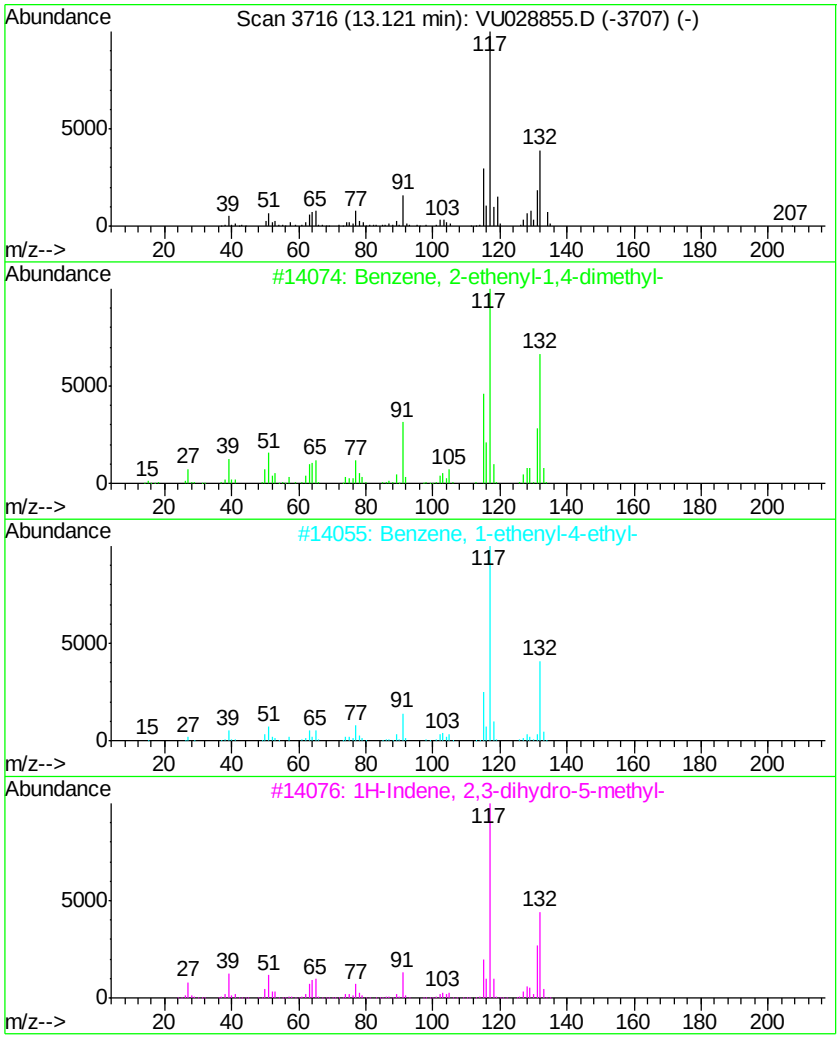
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

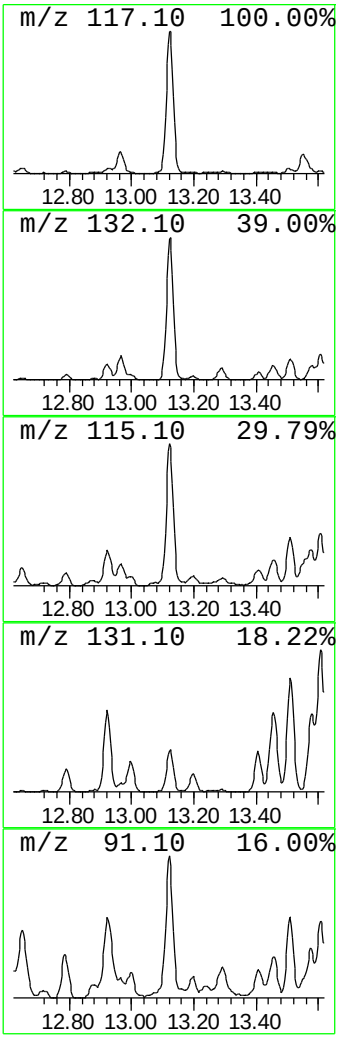
****

Peak Number 32 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	25.68 ug/L	265893	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
5	Indan, 1-methyl-	132	C10H12	000767-58-8	87





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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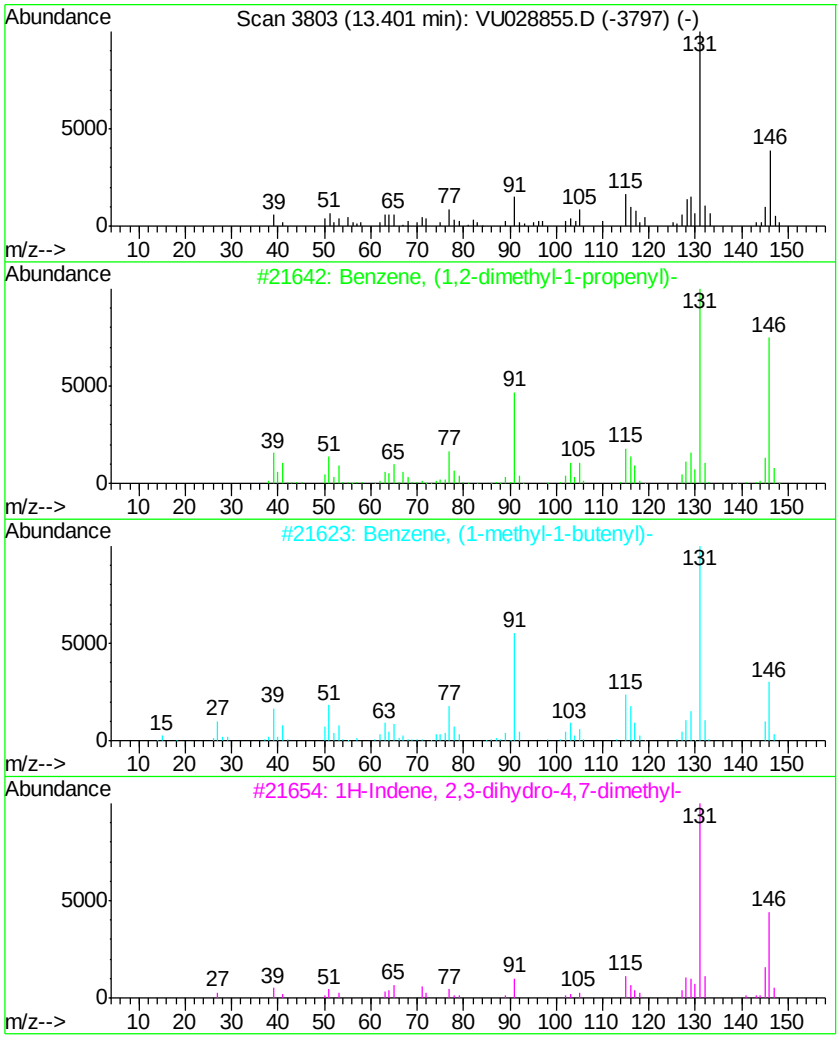
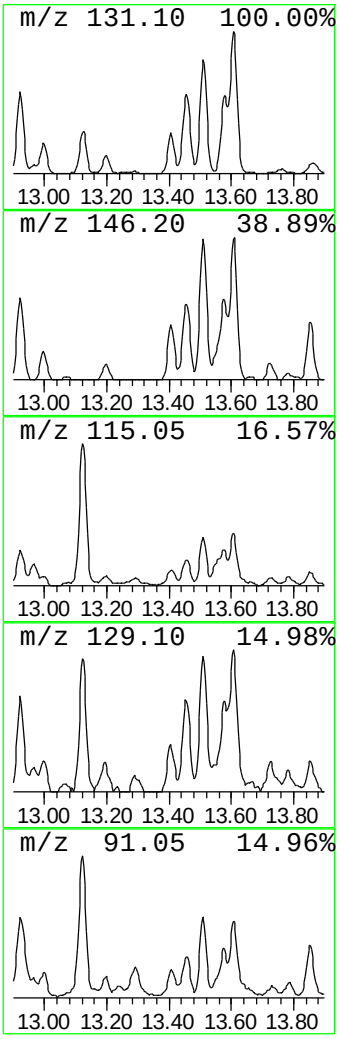
Peak Number 33 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	4.51 ug/L	46742	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	97
2	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	95
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	95
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	94
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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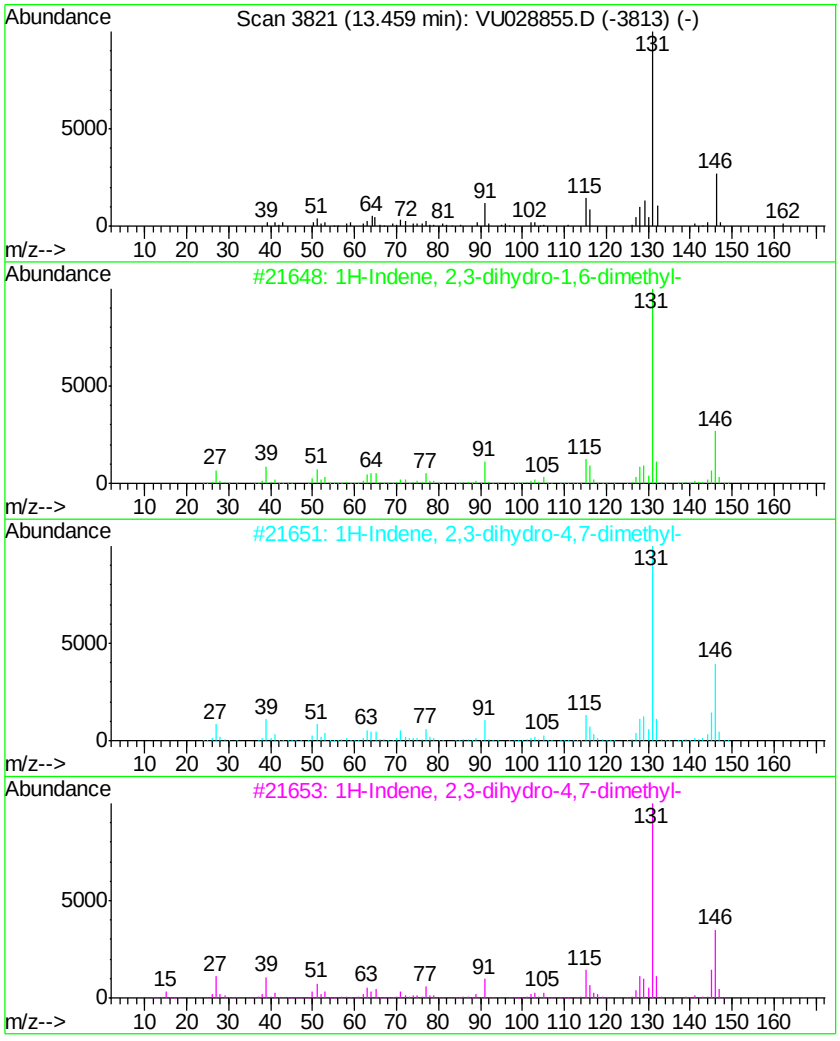
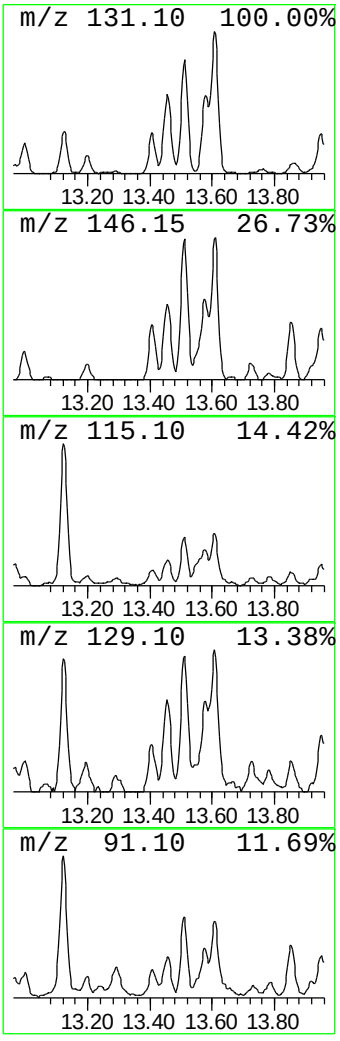
Peak Number 34 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	6.34 ug/L	65680	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	94
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	94
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	91
4	1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	90
5	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90





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Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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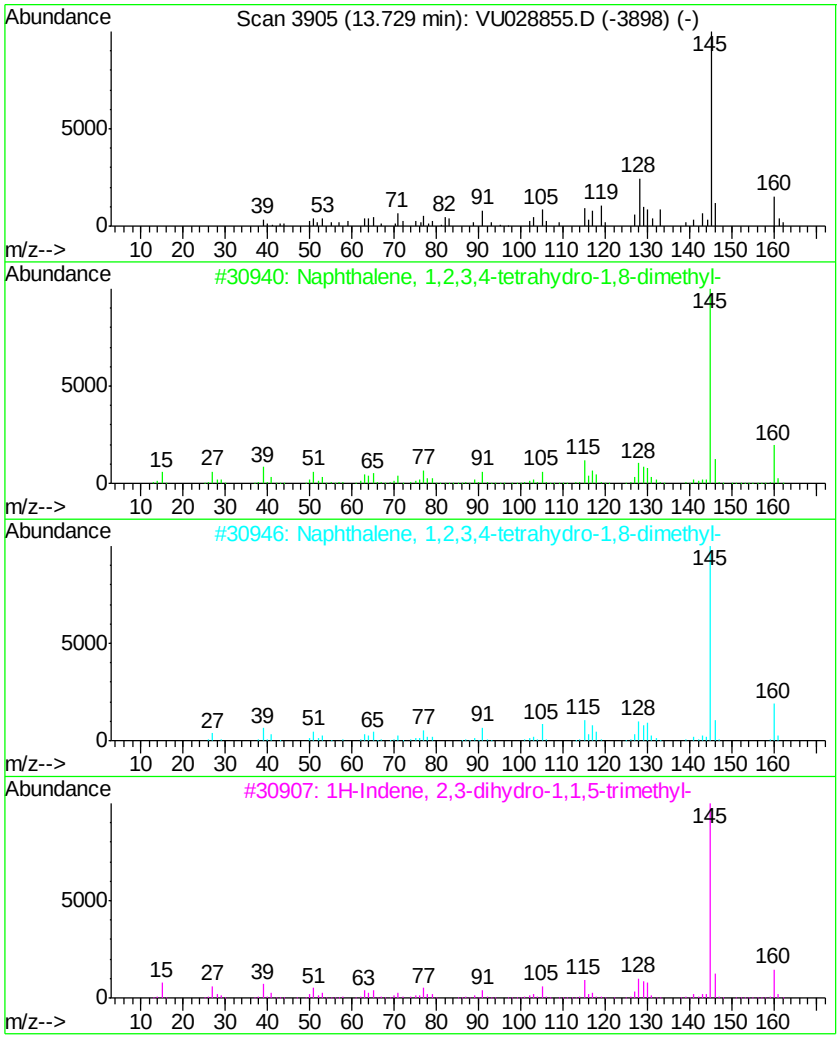
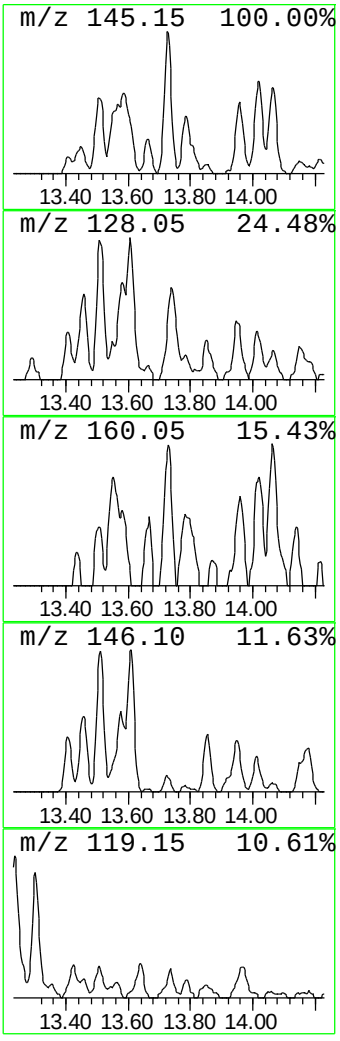
Peak Number 36 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	2.93 ug/L	30351	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	025419-33-4	76
2	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	025419-33-4	74
3	1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	74
4	Benzene, 1-(2-butenyl)-2,3-dimet...	160	C12H16	054340-85-1	74
5	Benzene, 1,3,5-trimethyl-2-(1-me...	160	C12H16	014679-13-1	72





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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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

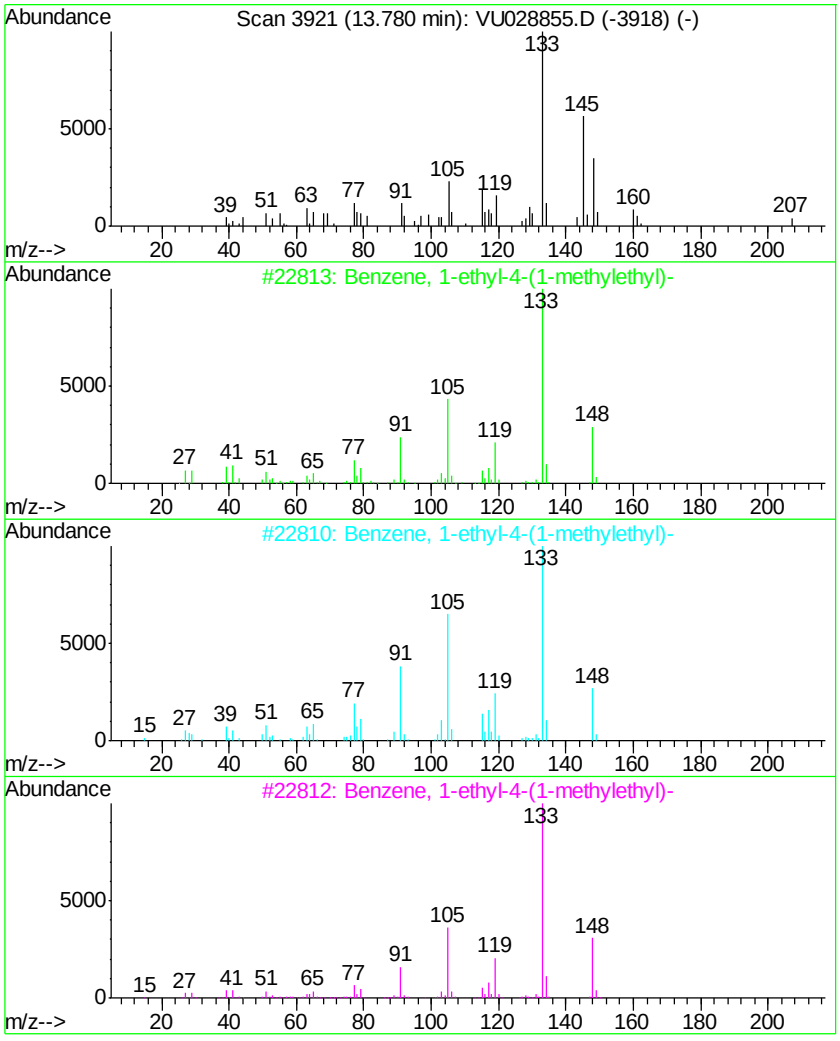
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

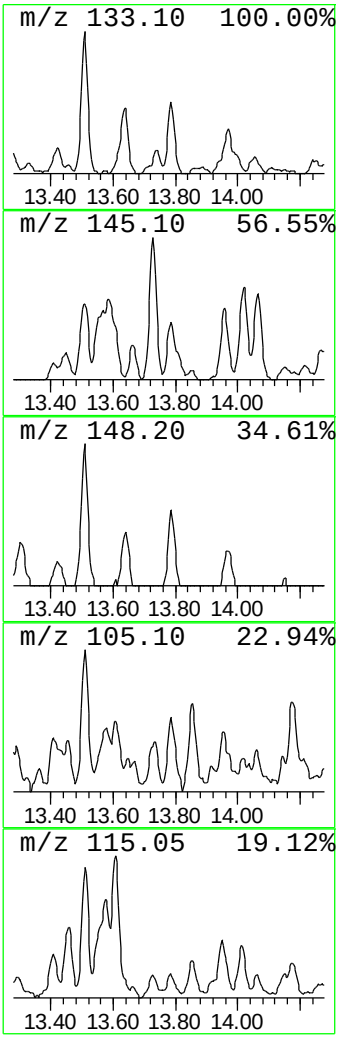
****

Peak Number 37 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.78	2.77 ug/L	28656	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	64
2	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	62
3	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	59
4	1,5,6,7-Tetramethylbicyclo[3.2.0...	148	C11H16	134329-46-7	58
5	Benzene, 1-ethyl-2,4,5-trimethyl-	148	C11H16	017851-27-3	58





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Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

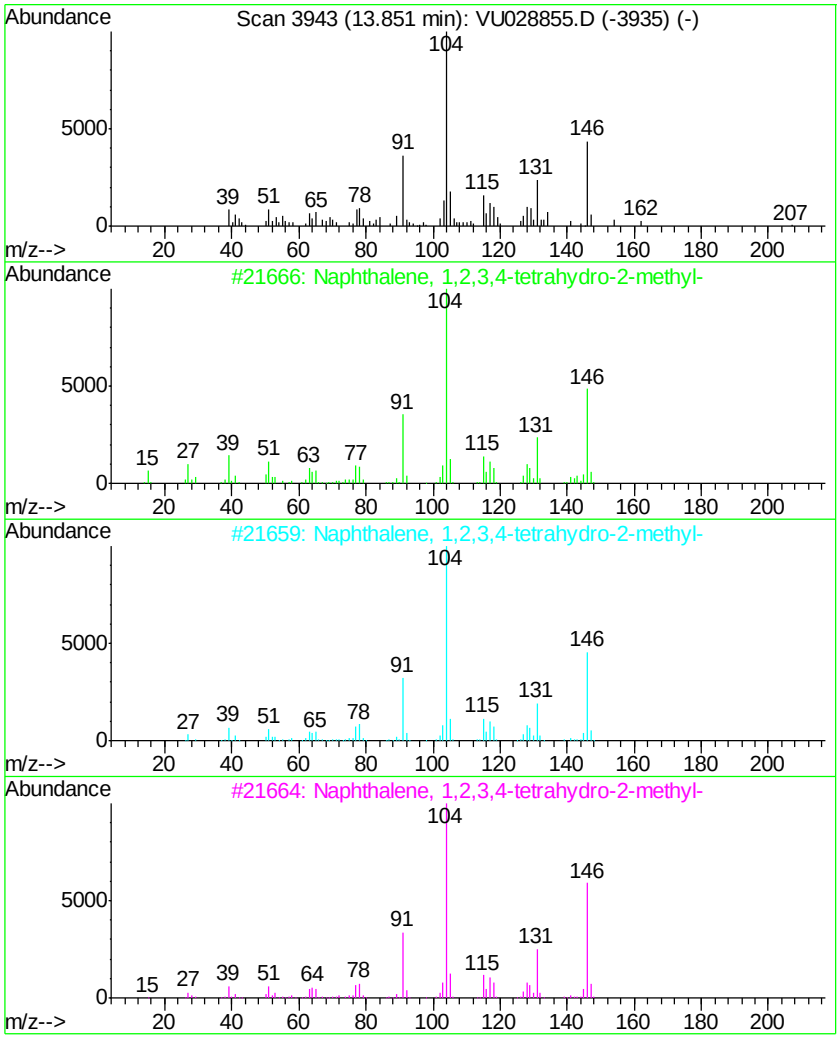
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

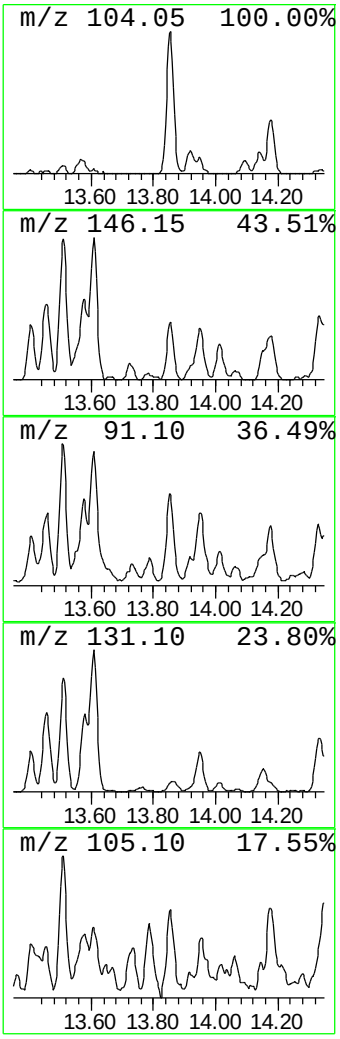
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 38 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	6.21 ug/L	64280	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	94
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	93
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	90
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	90
5	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	64





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Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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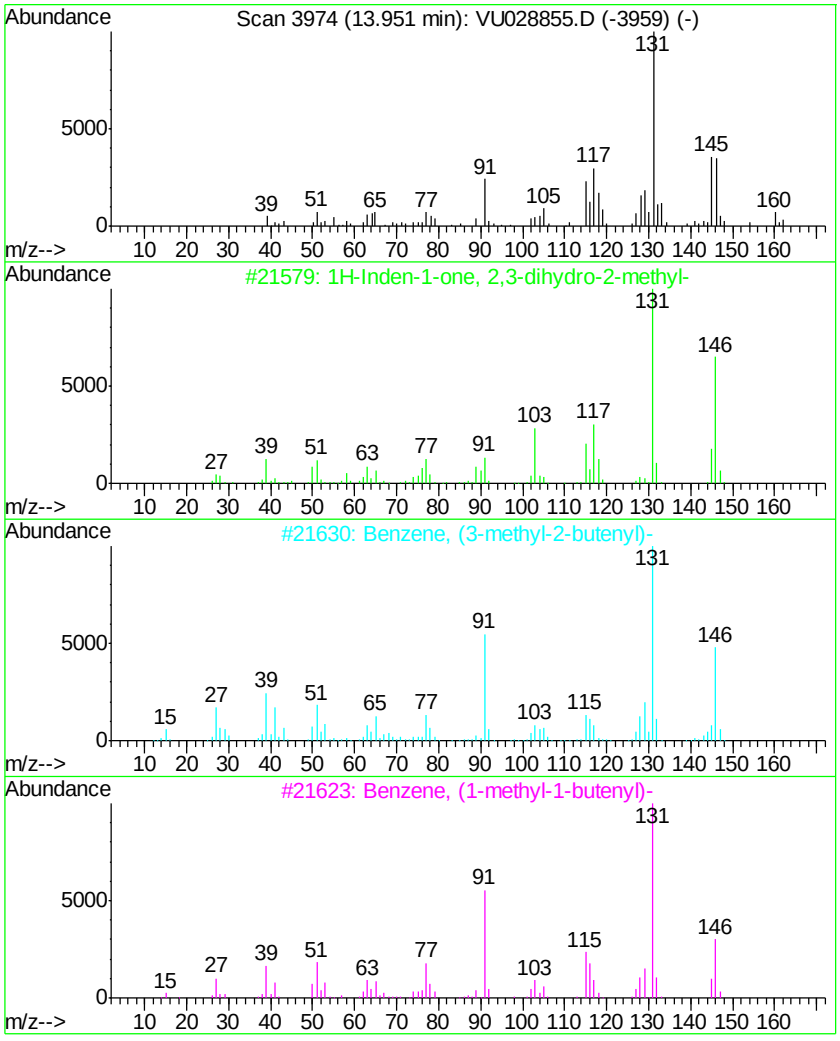
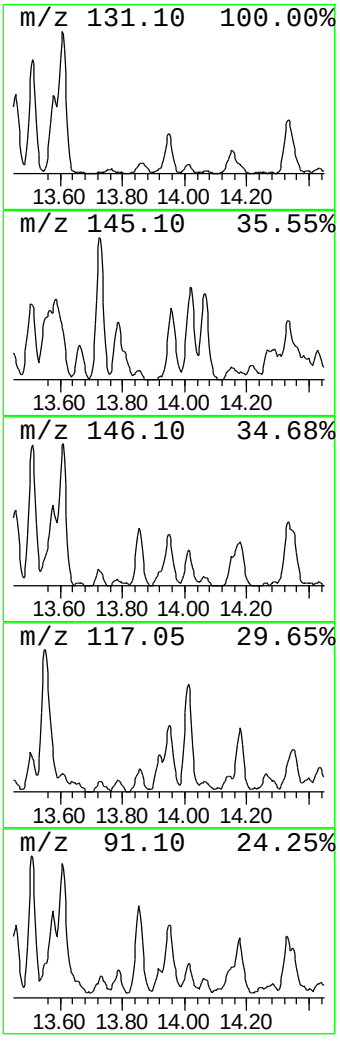
Peak Number 39 1H-Inden-1-one, 2,3-dihydro... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	8.08 ug/L	83645	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Inden-1-one, 2,3-dihydro-2-me...	146	C10H10O	017496-14-9	81
2	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	76
3	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	76
4	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	76
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	76





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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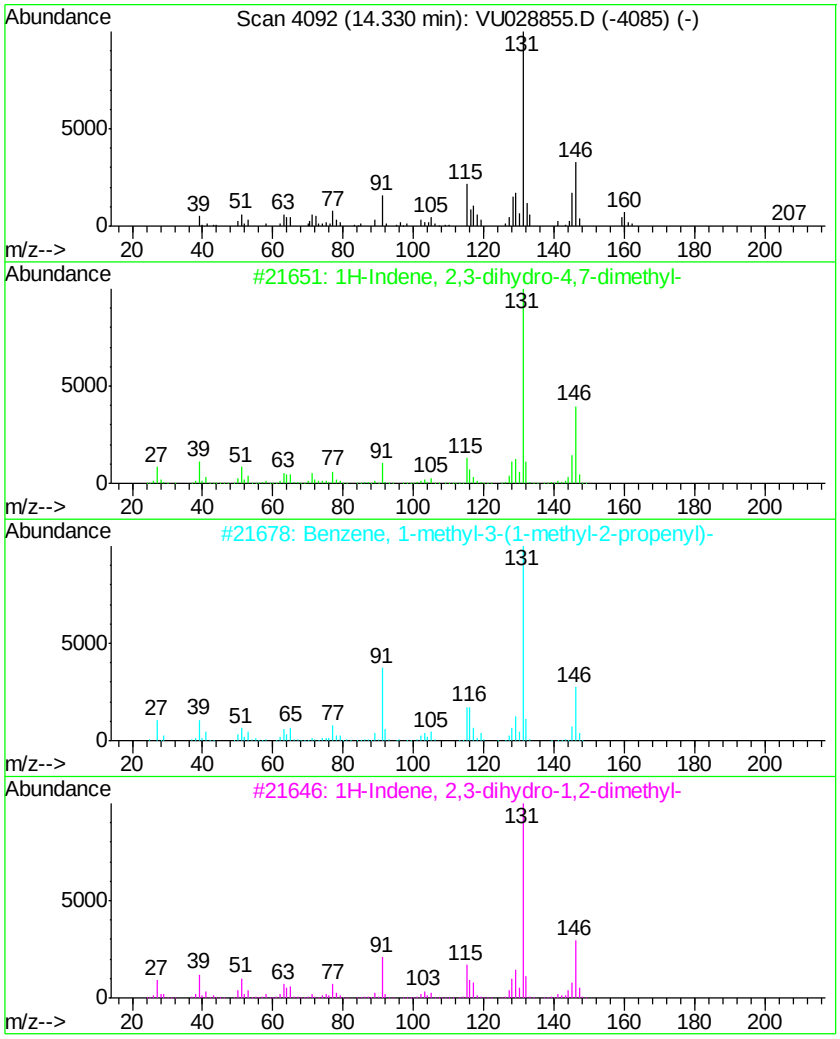
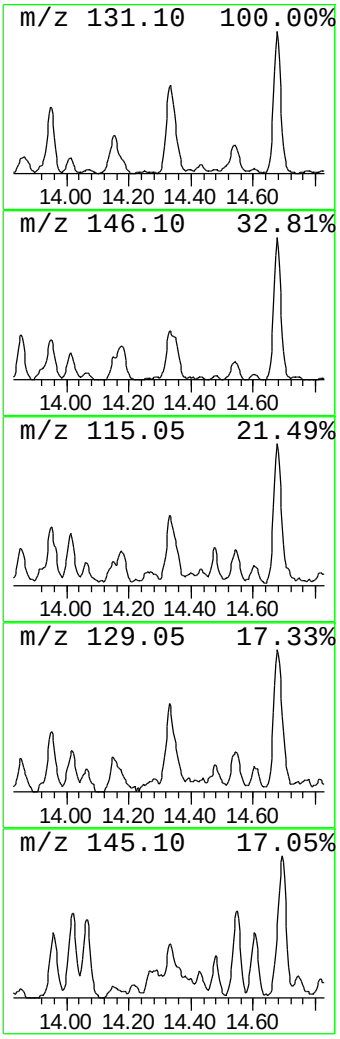
Peak Number 40 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.33	11.00 ug/L	113918	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	94
2	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	90
3	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	90
4	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	90
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122018\
Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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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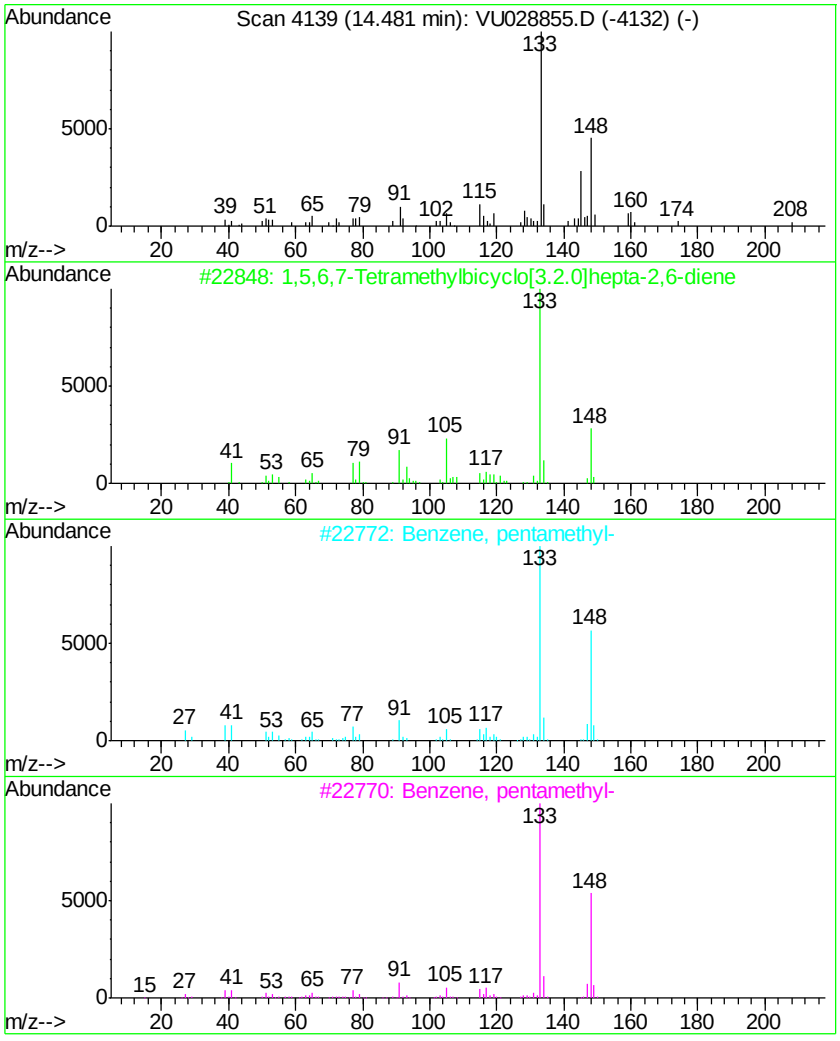
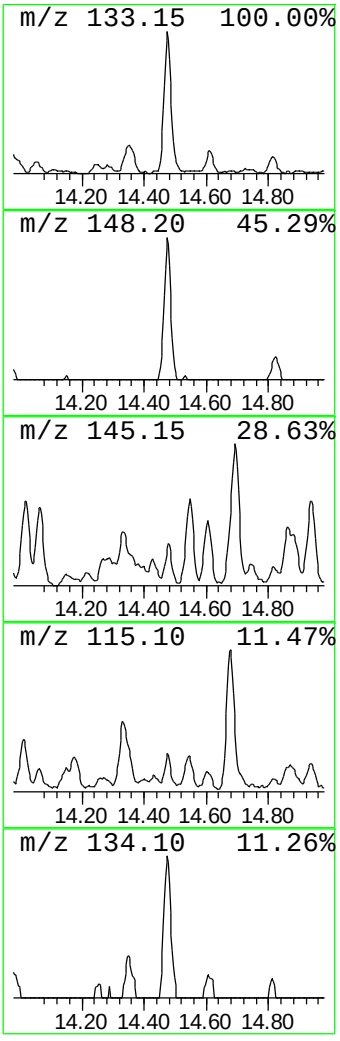
Peak Number 41 1,5,6,7-Tetramethylbicyclo[... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	4.31 ug/L	44599	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5,6,7-Tetramethylbicyclo[3.2.0...	148	C11H16	134329-46-7	81
2	Benzene, pentamethyl-	148	C11H16	000700-12-9	81
3	Benzene, pentamethyl-	148	C11H16	000700-12-9	81
4	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	72
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	72





Tentatively Identified Compound (LSC) summary

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Data File : VU028855.D
Acq On : 21 Dec 2018 03:33
Operator : MD/SY
Sample : J6513-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F72

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
Isopropyl Alcohol	2.45	4.6	ug/L	44542	1	5.89	481873	50.0
(DEL) Alkane: Cyc...	6.74	4.2	ug/L	40051	1	5.89	481873	50.0
(DEL) Alkane: Cyc...	6.90	3.9	ug/L	37468	1	5.89	481873	50.0
(DEL) Alkane: Cyc...	7.71	5.0	ug/L	56884	2	9.09	569319	50.0
(DEL) Alkane: Cyc...	7.92	9.5	ug/L	108158	2	9.09	569319	50.0
(DEL) Alkane: Cyc...	8.04	4.6	ug/L	52197	2	9.09	569319	50.0
(DEL) Alkane: Cyc...	8.49	4.3	ug/L	48906	2	9.09	569319	50.0
(DEL) Alkane: Cyc...	8.60	8.4	ug/L	95190	2	9.09	569319	50.0
(DEL) Alkane: Cyc...	8.84	2.5	ug/L	28985	2	9.09	569319	50.0
Pentalene, octahy...	9.19	3.5	ug/L	39246	2	9.09	569319	50.0
Cis-bicyclo[4.2.0...	9.36	4.0	ug/L	45509	2	9.09	569319	50.0
(DEL) Alkane: Cyc...	9.72	5.0	ug/L	57475	2	9.09	569319	50.0
Pentalene, octahy...	9.95	6.4	ug/L	72999	2	9.09	569319	50.0
Cyclohexane, 2-pr...	10.05	3.2	ug/L	36276	2	9.09	569319	50.0
3-Octyne, 2-methyl-	10.38	3.2	ug/L	33535	3	11.48	517759	50.0
1H-Indene, octahy...	10.49	4.2	ug/L	43557	3	11.48	517759	50.0
Benzene, propyl-	10.59	20.5	ug/L	212551	3	11.48	517759	50.0
1H-Indene, octahy...	10.98	2.6	ug/L	27197	3	11.48	517759	50.0
Benzene, (2-methy...	11.29	3.6	ug/L	37674	3	11.48	517759	50.0
Benzene, (1-methy...	11.32	11.0	ug/L	113682	3	11.48	517759	50.0
o-Cymene	11.69	4.2	ug/L	43685	3	11.48	517759	50.0
Benzene, 1,2-diet...	11.77	19.4	ug/L	200666	3	11.48	517759	50.0
Benzene, 1,2,4,5-...	12.25	4.6	ug/L	47204	3	11.48	517759	50.0
Benzene, (2-methy...	12.28	11.3	ug/L	116982	3	11.48	517759	50.0
Indan, 1-methyl-	12.35	34.8	ug/L	360074	3	11.48	517759	50.0
1H-Indene, 2,3-di...	12.54	5.9	ug/L	61031	3	11.48	517759	50.0
Benzene, 1,2,3,4-...	12.65	14.2	ug/L	147284	3	11.48	517759	50.0
Bicyclo[4.2.0]oct...	12.79	4.9	ug/L	50721	3	11.48	517759	50.0
Benzene, (3-methy...	12.92	8.3	ug/L	86090	3	11.48	517759	50.0
Benzene, 2-etheny...	13.12	25.7	ug/L	265893	3	11.48	517759	50.0
Benzene, (1,2-dim...	13.40	4.5	ug/L	46742	3	11.48	517759	50.0
1H-Indene, 2,3-di...	13.46	6.3	ug/L	65680	3	11.48	517759	50.0
Naphthalene, 1,2,...	13.73	2.9	ug/L	30351	3	11.48	517759	50.0
Benzene, 1-ethyl-...	13.78	2.8	ug/L	28656	3	11.48	517759	50.0
Naphthalene, 1,2,...	13.85	6.2	ug/L	64280	3	11.48	517759	50.0
1H-Inden-1-one, 2...	13.95	8.1	ug/L	83645	3	11.48	517759	50.0
1H-Indene, 2,3-di...	14.33	11.0	ug/L	113918	3	11.48	517759	50.0
1,5,6,7-Tetrameth...	14.48	4.3	ug/L	44599	3	11.48	517759	50.0