LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR102418WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.309	27	42	45	rBV3	3588	6328	2.83%	0.163%
2	1.402	64	71	78	rBV	21323	21413	9.59%	0.550%
3	1.685	152	159	173	rVB	17221	22430	10.05%	0.577%
4	2.276	333	343	356	rBV	33951	53388	23.92%	1.372%
5	2.710	470	478	492	rVB4	2840	5850	2.62%	0.150%
6	4.196	925	940	967	rBV	28370	74662	33.45%	1.919%
7	4.652	1066	1082	1099	rBV3	24296	58928	26.40%	1.515%
8	5.077	1202	1214	1227	rVB5	4449	10050	4.50%	0.258%
9	5.341	1275	1296	1313	rBV2	53894	147255	65.96%	3.785%
10	5.890	1454	1467	1485	rBV	47950	93104	41.71%	2.393%
11	6.334	1593	1605	1616	rBV	34696	69074	30.94%	1.776%
12	6.392	1616	1623	1635	rVB4	6087	12301	5.51%	0.316%
13	6.736	1718	1730	1743	rBV3	9269	18718	8.38%	0.481%
14	7.051	1816	1828	1837	rBV5	2094	3616	1.62%	0.093%
15	7.231	1873	1884	1902	rBV3	18898	42348	18.97%	1.089%
16	7.434	1938	1947	1960	rVB5	1950	4002	1.79%	0.103%
17	7.566	1969	1988	2002	rBV	70705	122423	54.84%	3.147%
18	7.710	2023	2033	2047	rVB2	12588	22697	10.17%	0.583%
19	7.855	2069	2078	2087	rBV3	12933	21075	9.44%	0.542%
20	7.919	2087	2098	2112	rVB	62402	110798	49.63%	2.848%
21	8.048	2128	2138	2148	rVB4	3548	6119	2.74%	0.157%
22	8.109	2148	2157	2167	rBV5	2988	5563	2.49%	0.143%
23	8.183	2167	2180	2188	rBV	20321	42676	19.12%	1.097%
24	8.315	2212	2221	2240	rBV	114242	194055	86.93%	4.988%
25	8.488	2267	2275	2288	rVB4	13421	24086	10.79%	0.619%
26	8.652	2311	2326	2346	rBV3	15334	32216	14.43%	0.828%
27	8.848	2378	2387	2397	rBV4	5323	8774	3.93%	0.226%
28	9.090	2448	2462	2478	rBV	72964	119322	53.45%	3.067%
29	9.189	2478	2493	2501	rVV3	9320	17863	8.00%	0.459%
30	9.247	2501	2511	2525	rVV4	8982	17009	7.62%	0.437%
31	9.366	2536	2548	2568	rVB4	38619	102013	45.70%	2.622%
32	9.488	2575	2586	2595	rVB4	5911	10210	4.57%	0.262%
33	9.569	2600	2611	2623	rVB2	32340	55086	24.68%	1.416%
34	9.746	2642	2666	2677	rBV2	72834	155115	69.49%	3.987%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR102418WMA.M
Title : TRACE VOA SOM01.0

35	9.803	2677	2684	2696	rVB	13600	21479	9.62%	0.552%
36	9.909	2704	2717	2725	rBV5	19741	47902	21.46%	1.231%
37	9.955	2725	2731	2742	rVB	17656	27903	12.50%	0.717%
38	10.051	2747	2761	2774	rBV6	20117	44644	20.00%	1.148%
39	10.118	2774	2782	2797	rVB2	14929	24350	10.91%	0.626%
40	10.209	2797	2810	2824	rBV7	15860	42272	18.94%	1.087%
41	10.376	2846	2862	2870	rBV3	40270	74730	33.48%	1.921%
42	10.434	2870	2880	2892	rVV5	35099	83231	37.28%	2.140%
43	10.495	2892	2899	2908	rVV4	15804	25552	11.45%	0.657%
44	10.559	2908	2919	2926	rVV9	5016	12745	5.71%	0.328%
45	10.620	2926	2938	2954	rVV4	21764	72859	32.64%	1.873%
46	10.697	2954	2962	2973	rVV7	11627	24385	10.92%	0.627%
47	10.771	2973	2985	2992	rVV5	8843	17112	7.67%	0.440%
48	10.807	2993	2996	3002	rVV4	4183	5615	2.52%	0.144%
49	10.864	3004	3014	3024	rVB10	10019	19612	8.79%	0.504%
50	10.983	3030	3051	3066	rBV5	14975	36912	16.54%	0.949%
51	11.064	3066	3076	3078	rVV4	6101	8592	3.85%	0.221%
52	11.099	3079	3087	3095	rVV3	24532	40240	18.03%	1.034%
53	11.147	3095	3102	3113	rVB6	7548	13636	6.11%	0.351%
54	11.276	3130	3142	3153	rBV6	31484	62071	27.81%	1.596%
55	11.411	3177	3184	3195	rVB7	2039	4228	1.89%	0.109%
56	11.485	3196	3207	3218	rBV	76007	121667	54.50%	3.128%
57	11.543	3218	3225	3234	rVV4	8813	15144	6.78%	0.389%
58	11.604	3235	3244	3260	rVB4	10934	21513	9.64%	0.553%
59	11.765	3286	3294	3305	rBV3	7504	10927	4.89%	0.281%
60	11.864	3311	3325	3342	rVB2	133261	223234	100.00%	5.739%
61	12.003	3357	3368	3375	rVB4	4125	6576	2.95%	0.169%
62	12.115	3396	3403	3410	rVV7	4214	7081	3.17%	0.182%
63	12.225	3420	3437	3448	rVB6	15690	36474	16.34%	0.938%
64	12.295	3448	3459	3470	rBV5	41051	74619	33.43%	1.918%
65	12.360	3470	3479	3485	rBV5	5550	7171	3.21%	0.184%
66	12.434	3486	3502	3510	rBV	50087	78615	35.22%	2.021%
67	12.488	3510	3519	3526	rBV3	20594	36354	16.29%	0.935%
68	12.536	3526	3534	3548	rVB	120851	188495	84.44%	4.846%
69	12.620	3551	3560	3567	rBV	25546	43370	19.43%	1.115%
70	12.790	3600	3613	3624	rBV	44706	66603	29.84%	1.712%
71	12.922	3636	3654	3664	rBV2	71164	121065	54.23%	3.112%

LSC Area Percent Report

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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR102418WMA.M
Title : TRACE VOA SOM01.0

72	12.996	3664	3677	3689	rVB	61299	93663	41.96%	2.408%
73	13.067	3689	3699	3709	rBV2	18817	29749	13.33%	0.765%
74	13.199	3730	3740	3749	rVB3	13893	20887	9.36%	0.537%
75	13.260	3749	3759	3766	rBV6	3512	6356	2.85%	0.163%
76	13.430	3799	3812	3825	rVB9	5544	14444	6.47%	0.371%
77	13.504	3825	3835	3841	rBV3	8955	13681	6.13%	0.352%
78	13.552	3841	3850	3875	rVV3	31895	64683	28.98%	1.663%
79	13.729	3895	3905	3912	rBV4	7836	12943	5.80%	0.333%
80	13.787	3915	3923	3937	rVV2	7798	14931	6.69%	0.384%
81	13.855	3937	3944	3957	rVB4	7543	12545	5.62%	0.322%
82	13.951	3965	3974	3985	rVB4	11164	16228	7.27%	0.417%
83	14.015	3985	3994	4003	rBV4	5090	8277	3.71%	0.213%
84	14.179	4036	4045	4053	rVB4	9207	13608	6.10%	0.350%
85	14.279	4061	4076	4087	rBB	24028	41555	18.61%	1.068%
86	14.498	4129	4144	4151	rBV6	7137	14136	6.33%	0.363%
87	14.543	4151	4158	4169	rVB6	3944	6868	3.08%	0.177%
88	14.694	4197	4205	4209	rBV3	2439	3056	1.37%	0.079%
89	15.080	4311	4325	4335	rBV5	5268	10078	4.51%	0.259%
90	15.880	4563	4574	4585	rVB3	7843	12816	5.74%	0.329%

Sum of corrected areas: 3890049

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
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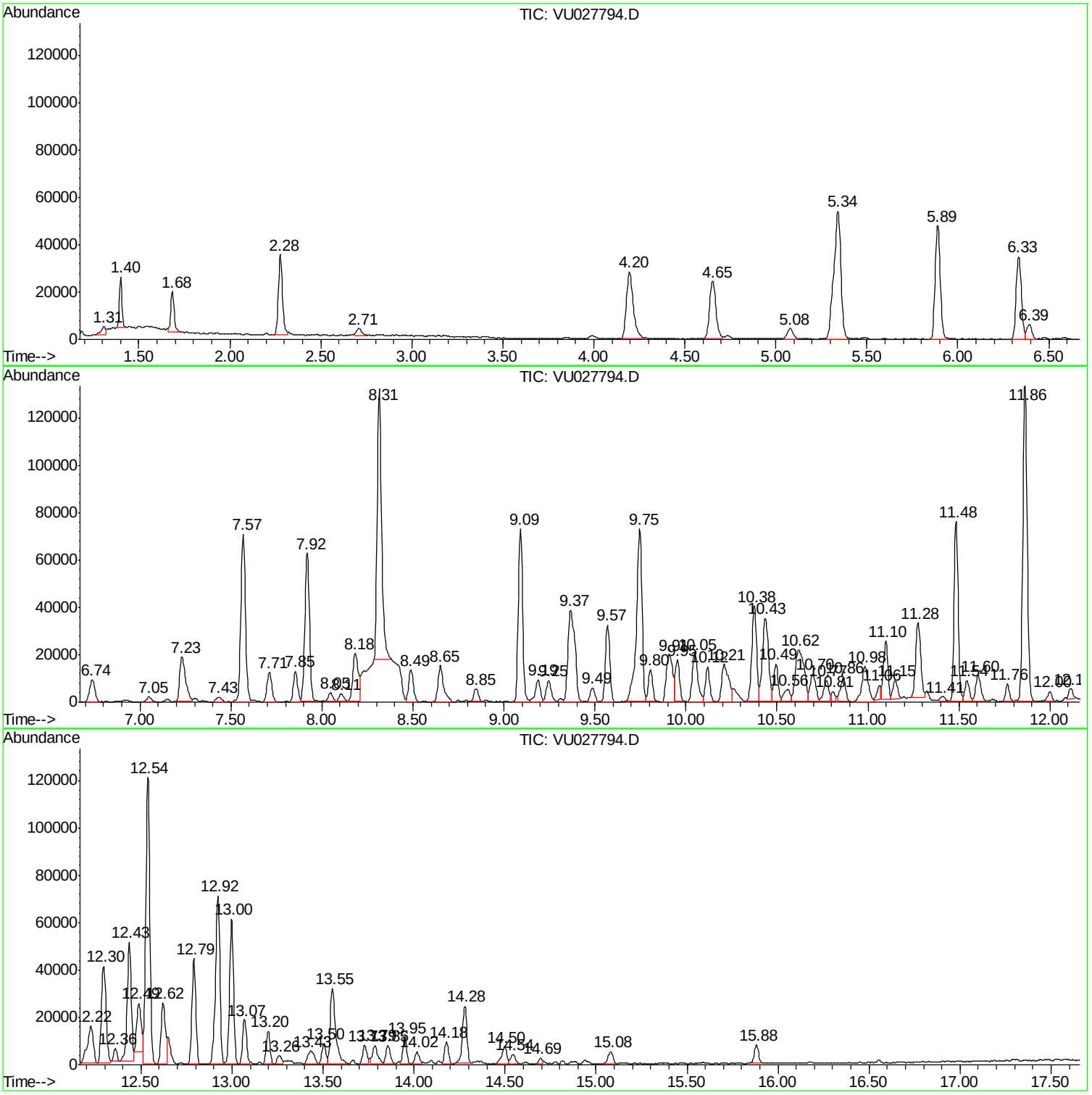
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

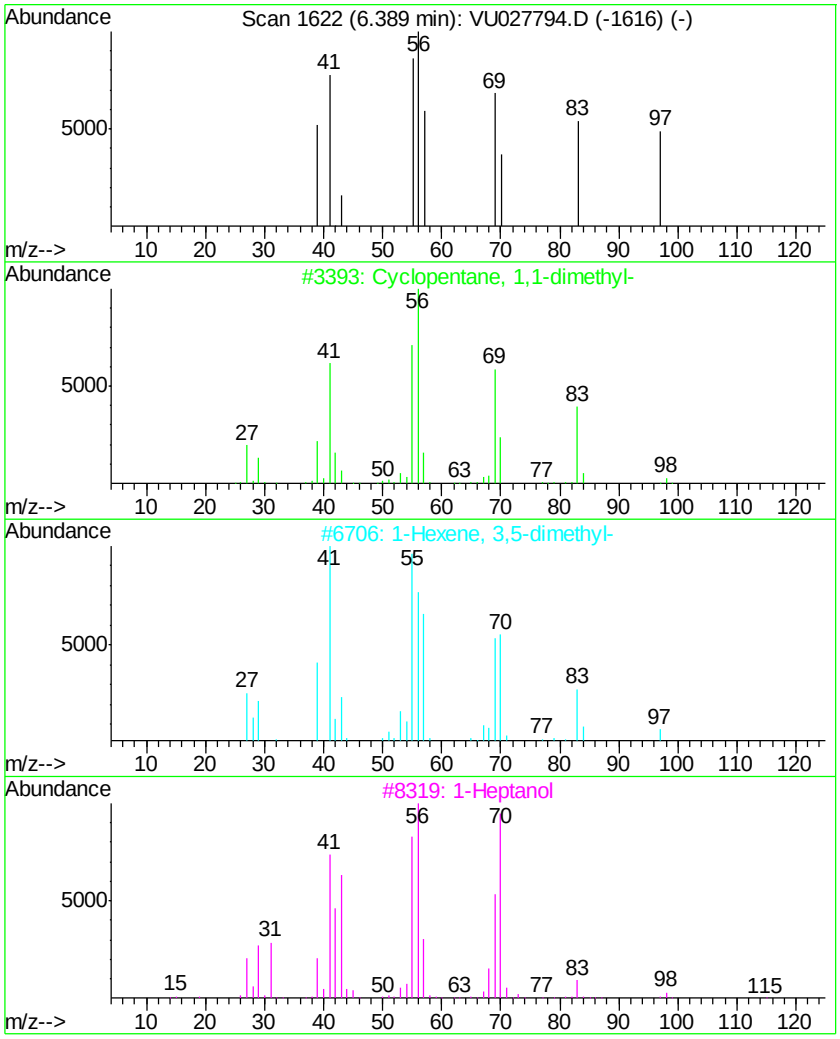
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

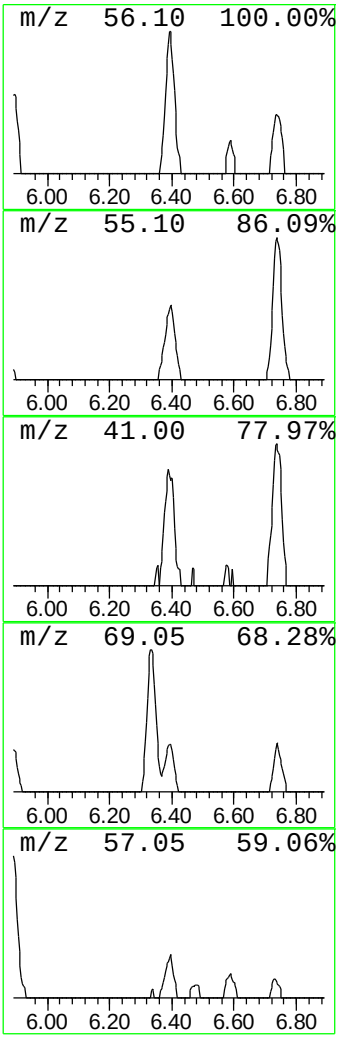
****

Peak Number 2 (DEL) Alkane: Cyclic6.39 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.39	0.66 ug/L	12301	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	50
2	1-Hexene, 3,5-dimethyl-	112	C8H16	007423-69-0	33
3	1-Heptanol	116	C7H16O	000111-70-6	17
4	1-Propenylaziridine	83	C5H9N	1000192-51-0	10
5	Cyclopropanecarboxaldehyde	70	C4H6O	001489-69-6	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

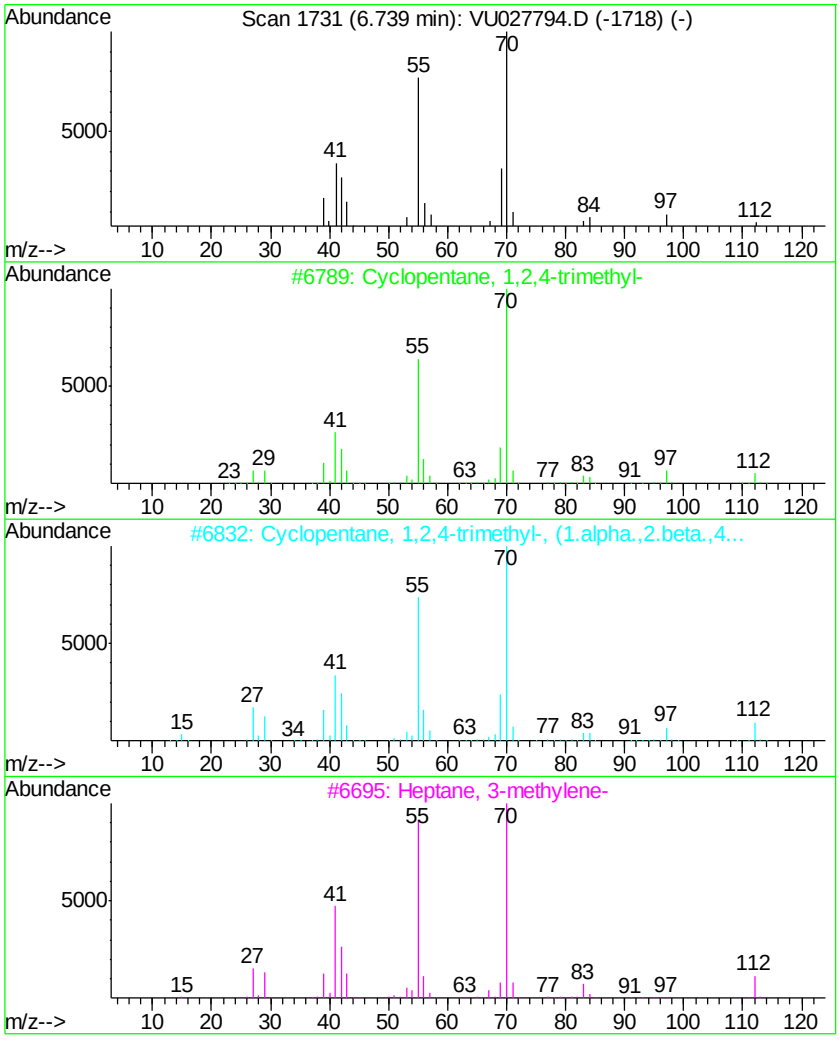
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

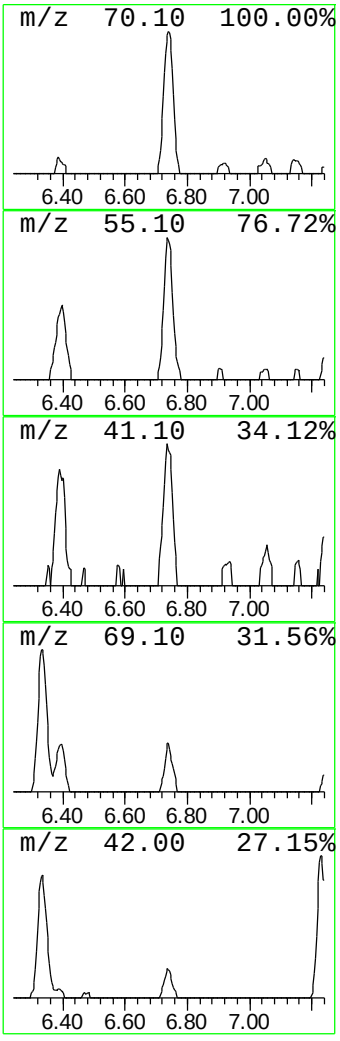
****

Peak Number 3 (DEL) Alkane: Cyclic6.74 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	1.01 ug/L	18718	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	90
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	83
3	Heptane, 3-methylene-	112	C8H16	001632-16-2	80
4	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	72
5	Octane, 3-methyl-6-methylene-	140	C10H20	074630-07-2	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

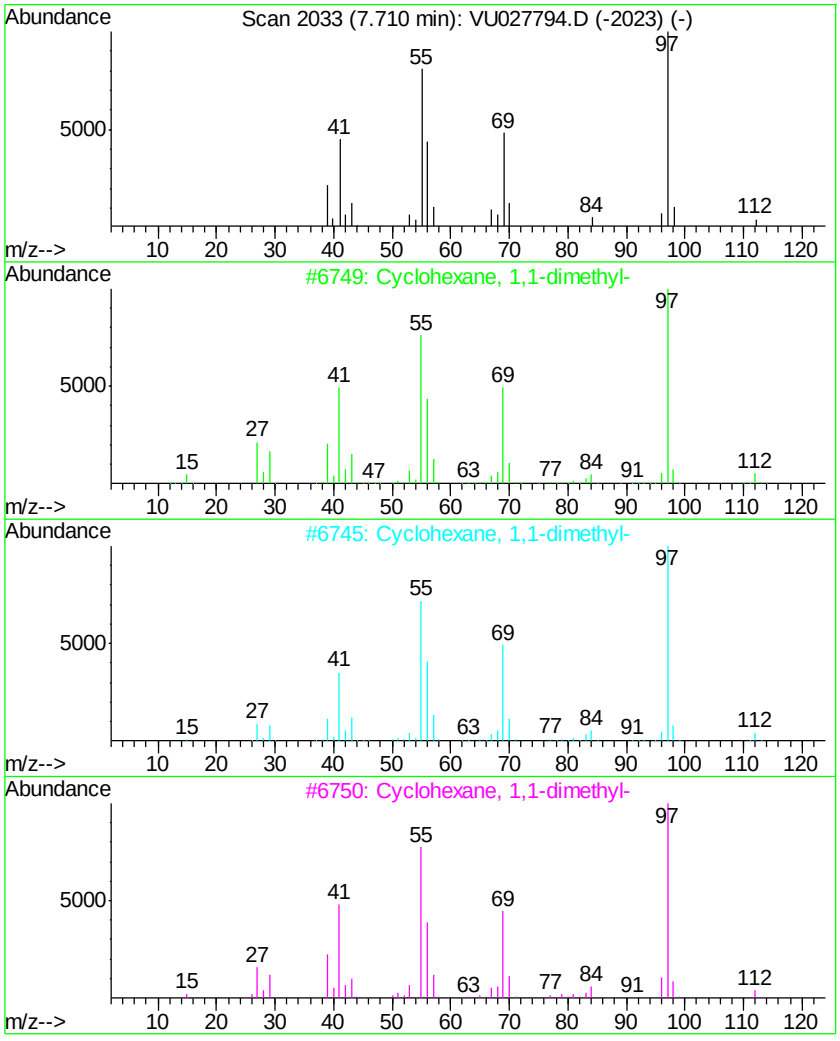
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

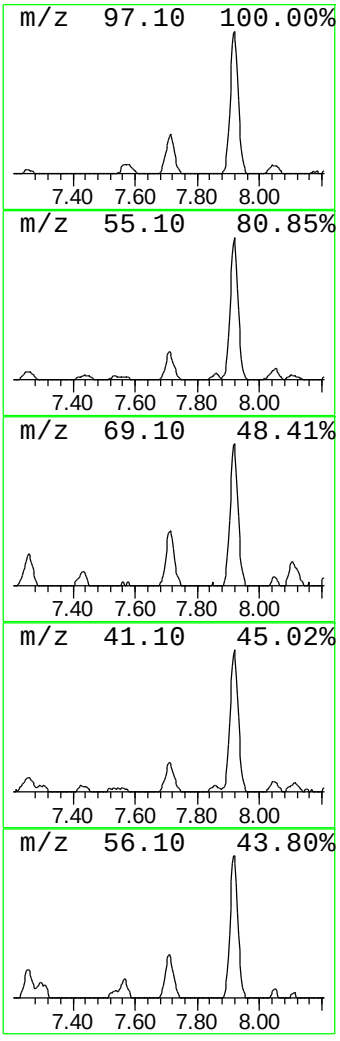
****

Peak Number 5 (DEL) Alkane: Cyclic7.71 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.71	0.95 ug/L	22697	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	95
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	95
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	94
4	1H-Pyrazole, 4,5-dihydro-3,5,5-t...	112	C6H12N2	003975-85-7	59
5	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

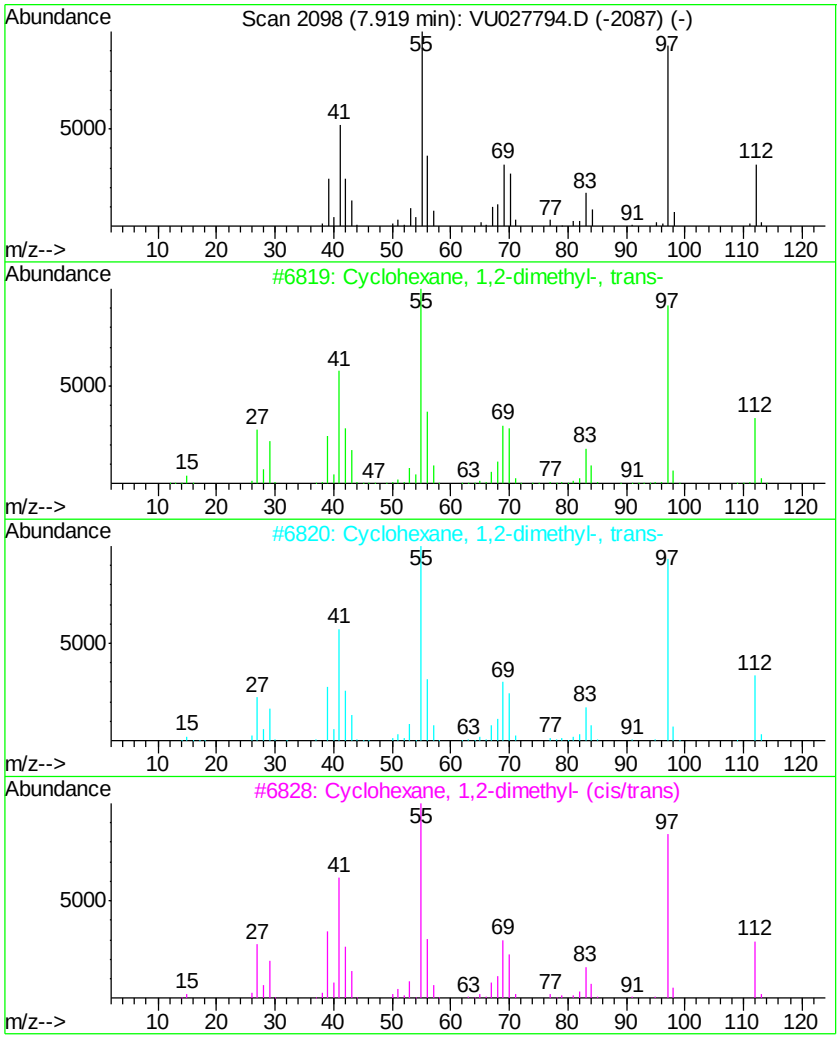
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

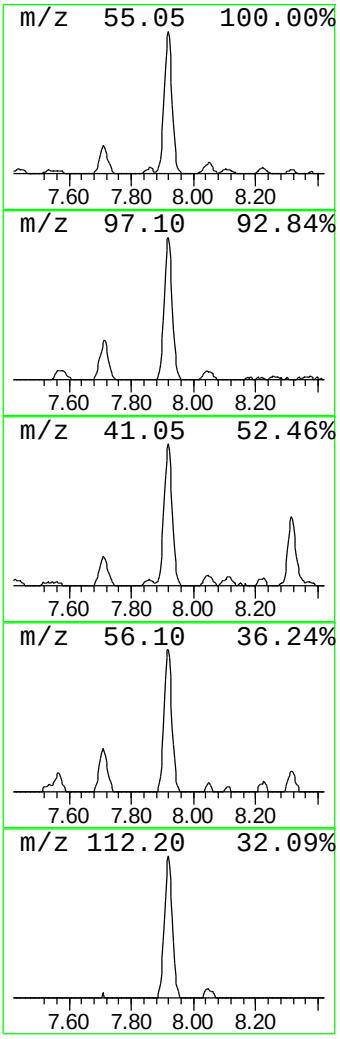
****

Peak Number 6 (DEL) Alkane: Cyclic7.92 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	4.64 ug/L	110798	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	96
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	96
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

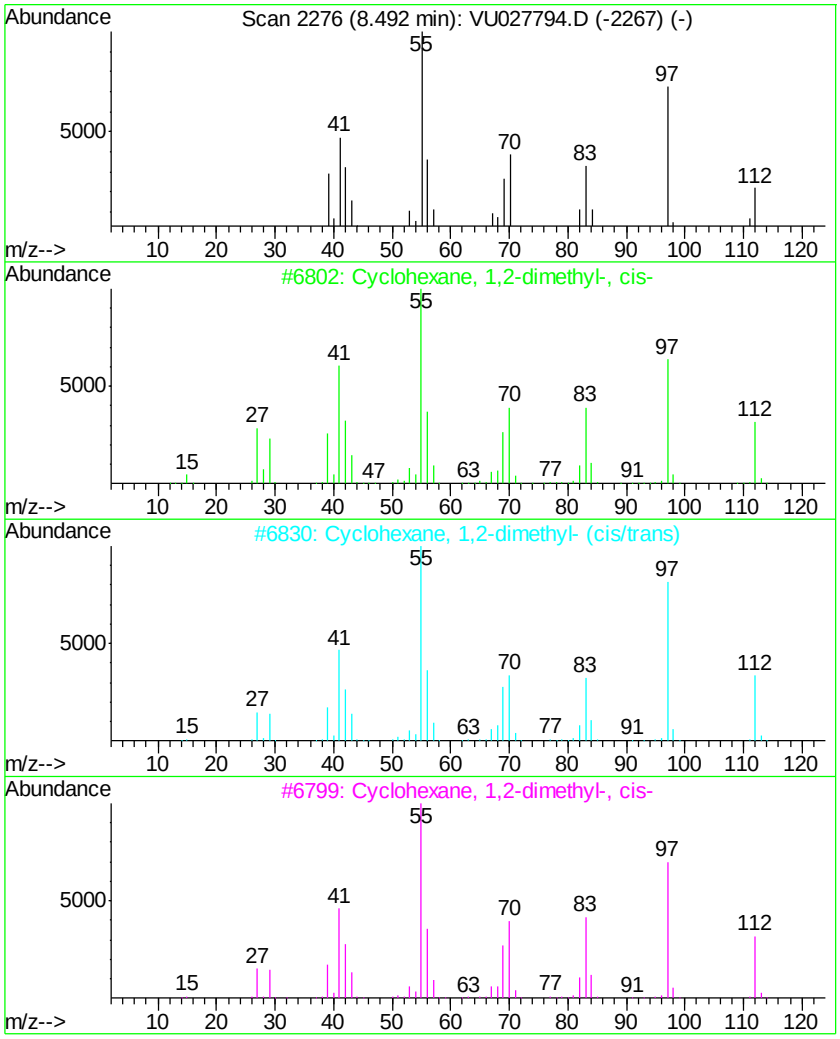
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

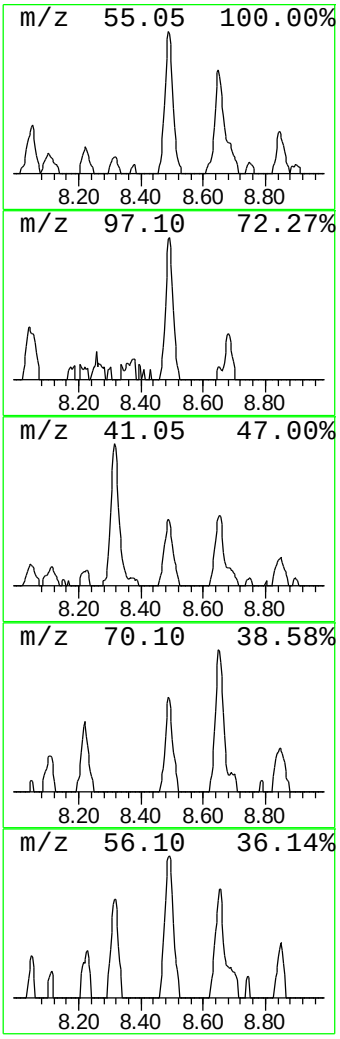
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.49	1.01 ug/L	24086	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-, trans-	112	C8H16	006876-23-9	76
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

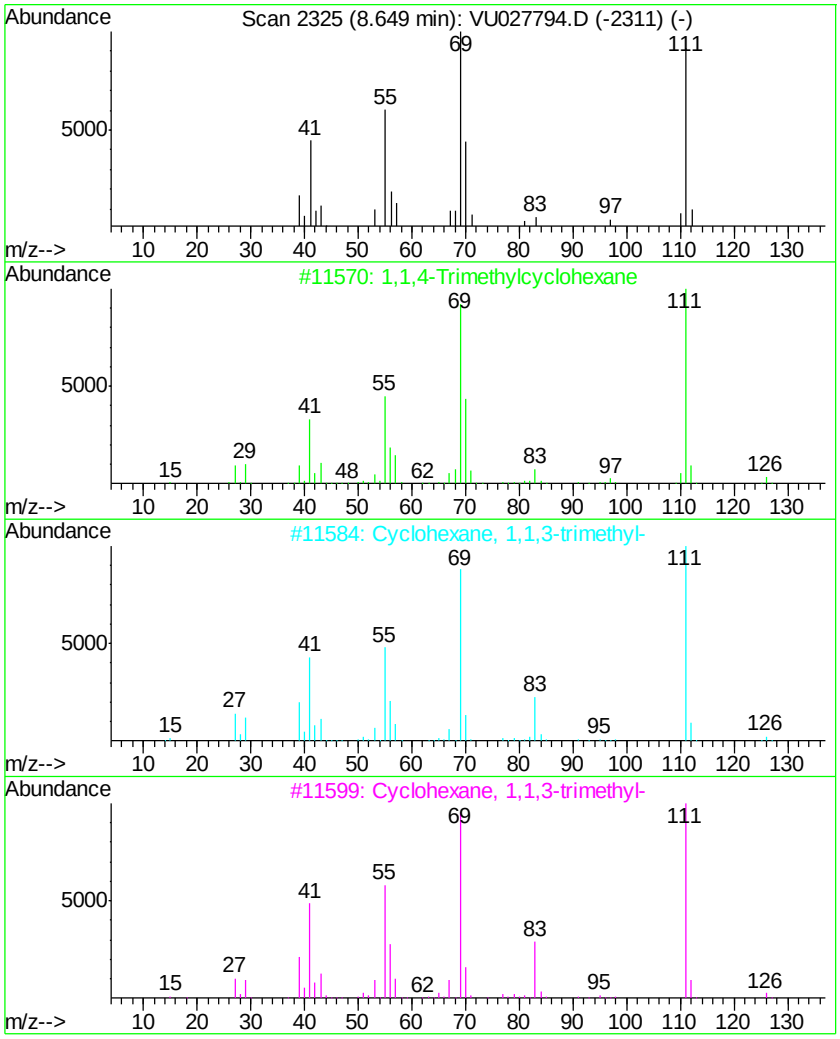
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

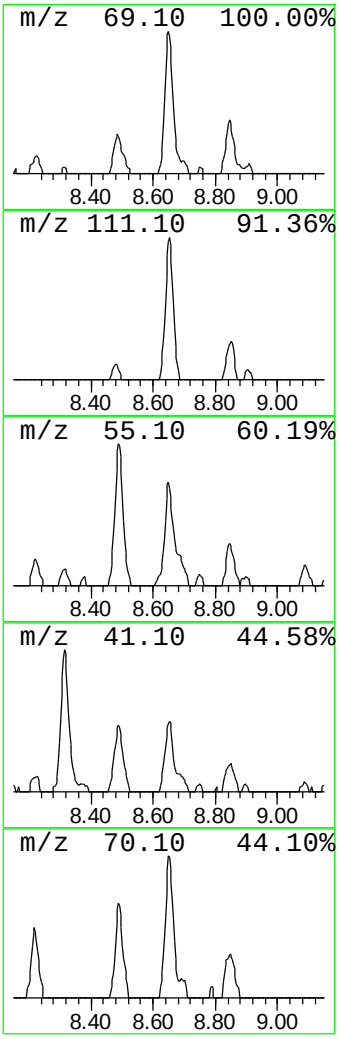
****

Peak Number 9 (DEL) Alkane: Cyclic8.65 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.65	1.35 ug/L	32216	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	95
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	81
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	81
4	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	72
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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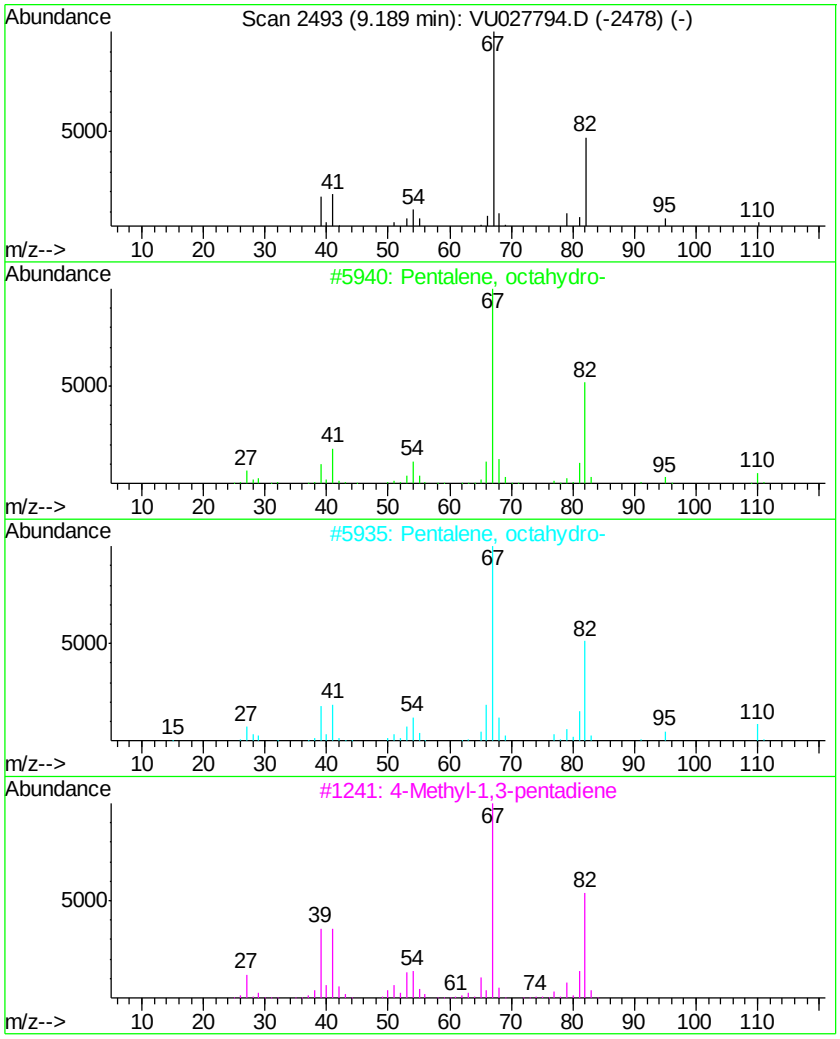
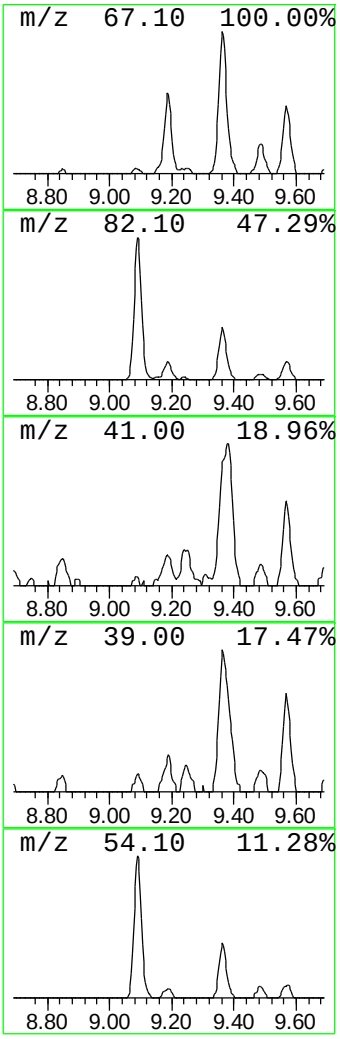
Peak Number 10 Pentalene, octahydro- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.19	0.75 ug/L	17863	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-	110	C8H14	000694-72-4	90
2	Pentalene, octahydro-	110	C8H14	000694-72-4	72
3	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	64
4	4-Methyl-2-pentyne	82	C6H10	021020-27-9	64
5	1,3-Pentadiene, 3-methyl-, (Z)-	82	C6H10	002787-45-3	64





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Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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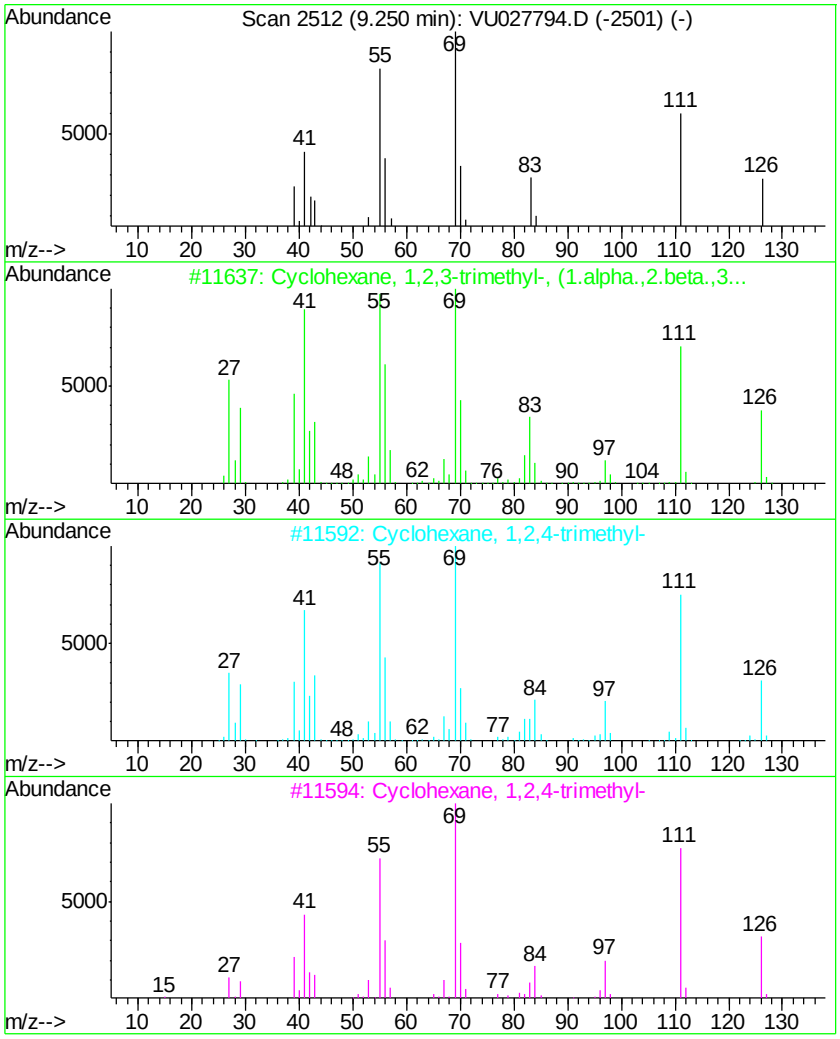
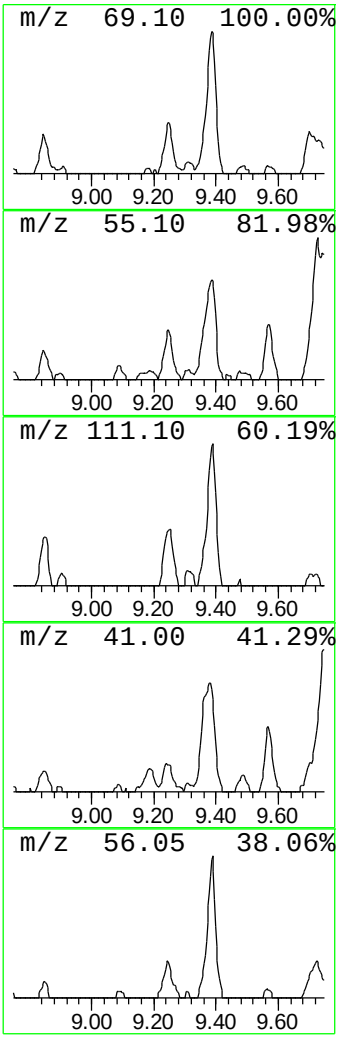
Peak Number 11 (DEL) Alkane: Cyclic9.25 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.25	0.71 ug/L	17009	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	001678-81-5	92
2	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	86
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	86
4	Cyclohexane, 1,2,3-trimethyl-, (...	126	C9H18	007667-55-2	74
5	Cyclohexane, 1,2,3-trimethyl-	126	C9H18	001678-97-3	72





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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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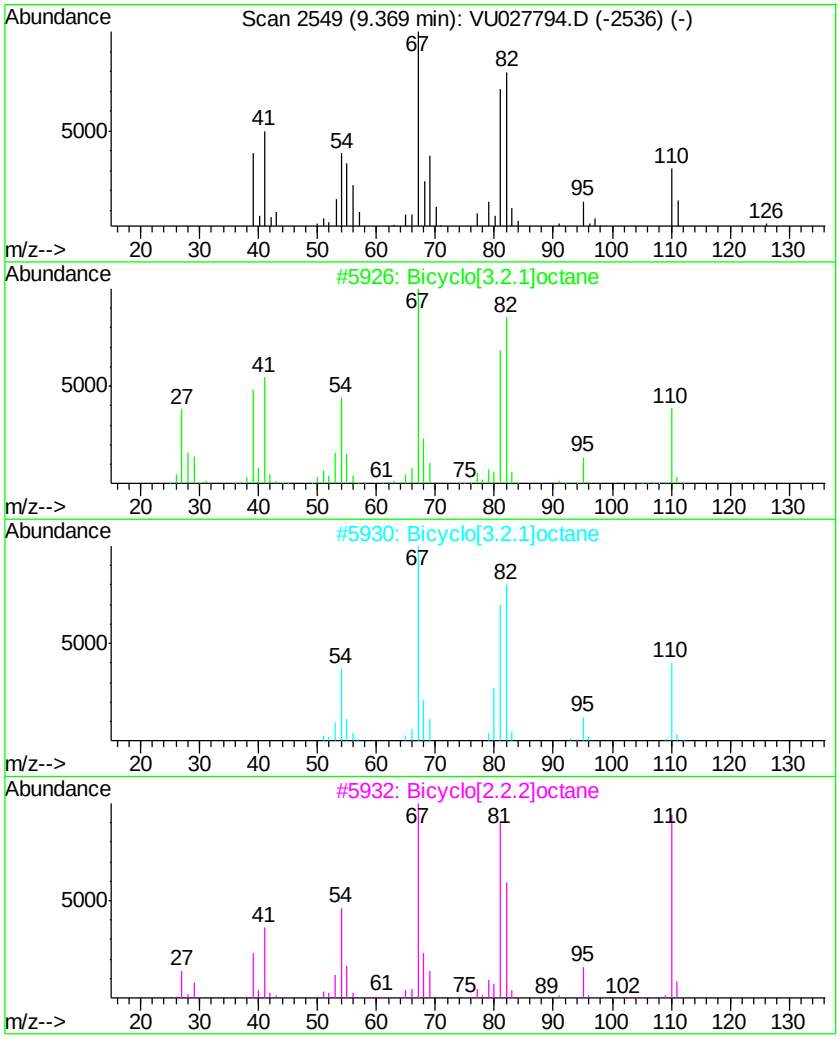
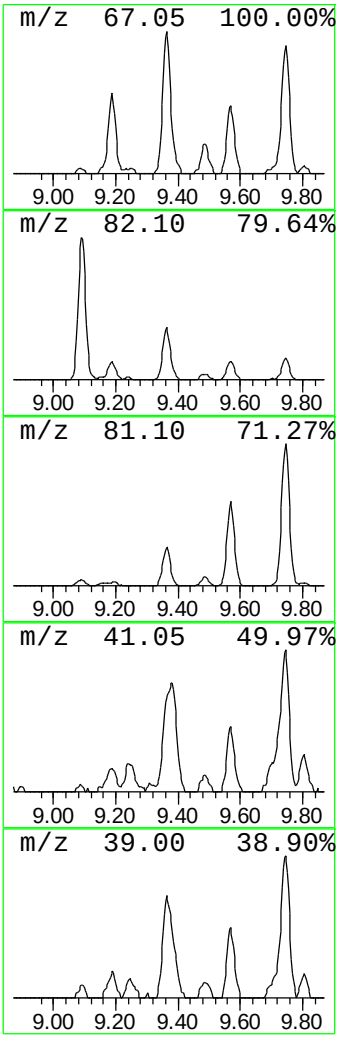
Peak Number 12 Bicyclo[3.2.1]octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	4.27 ug/L	102013	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	95
2	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	91
3	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	76
4	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	68
5	Ethylidenecyclobutane	82	C6H10	001528-21-8	64





Library Search Compound Report

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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

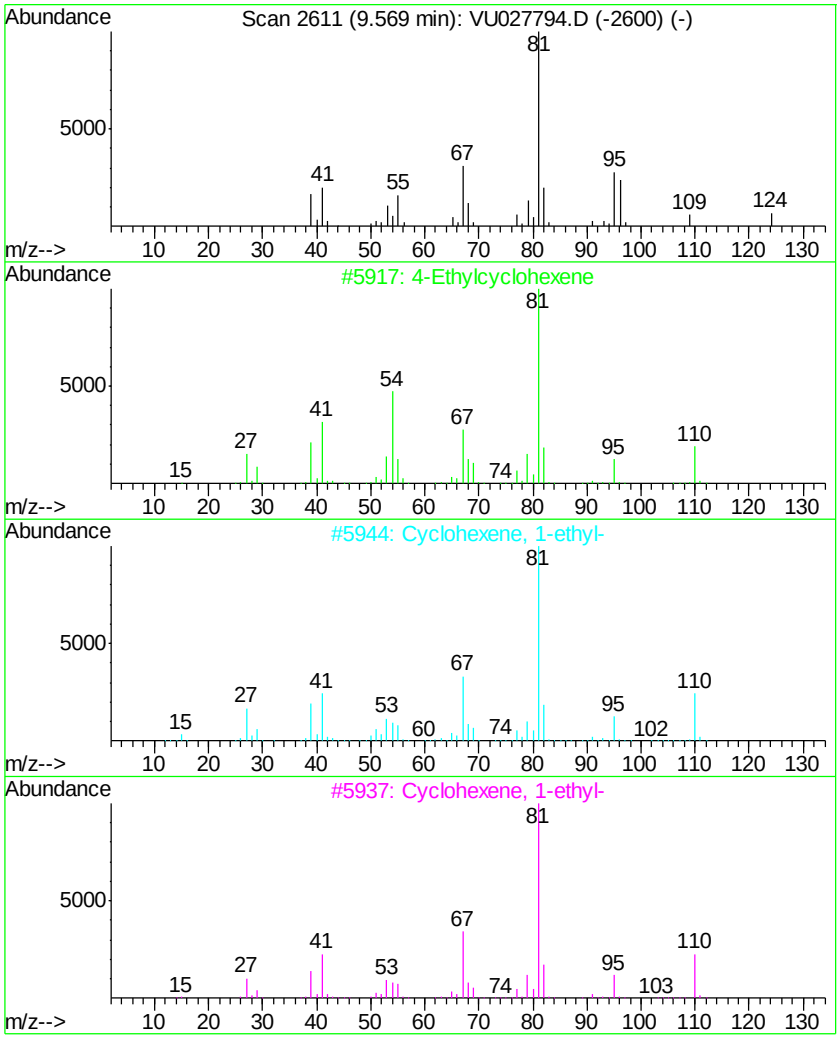
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

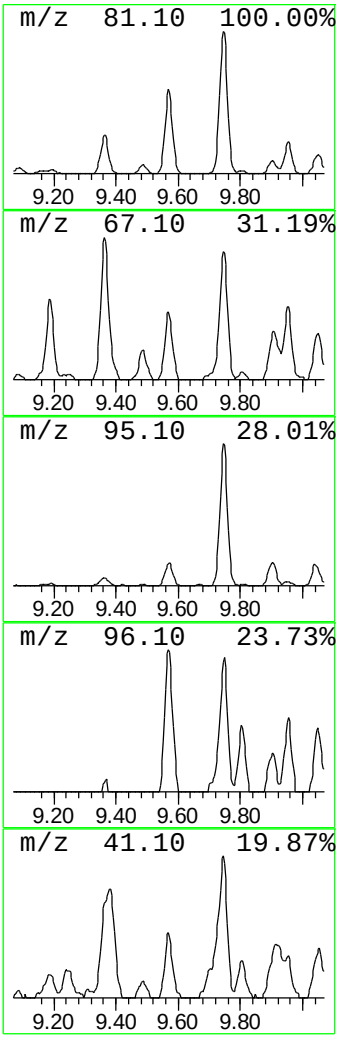
****

Peak Number 13 4-Ethylcyclohexene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	2.31 ug/L	55086	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Ethylcyclohexene	110	C8H14	003742-42-5	64
2	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	59
3	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	59
4	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	58
5	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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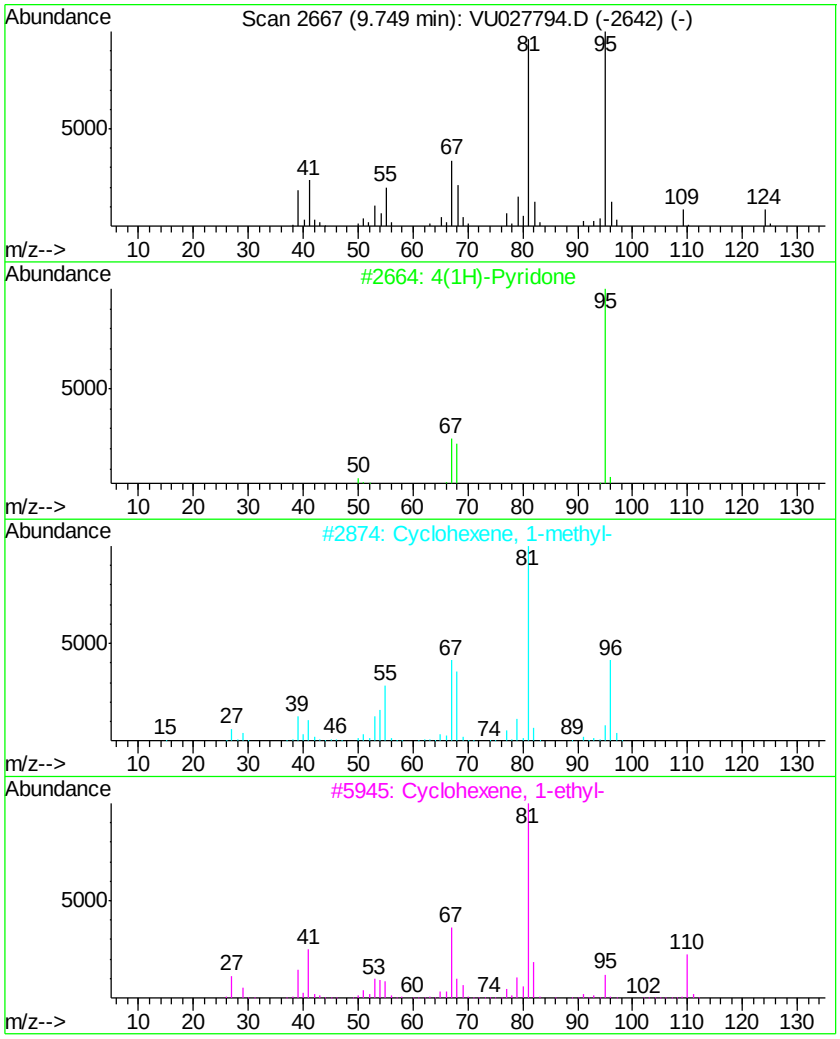
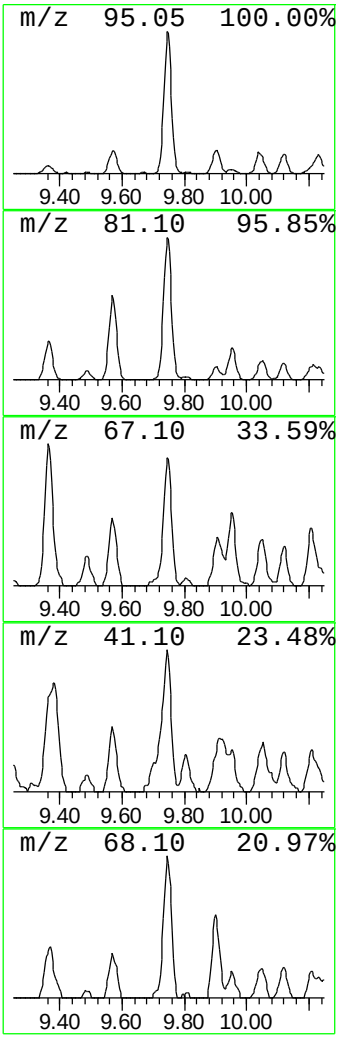
Peak Number 14 unknown-01 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	6.50 ug/L	155115	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4(1H)-Pyridone	95	C5H5NO	000108-96-3	43
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	43
3	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	38
4	Cyclohexene, 3-ethyl-	110	C8H14	002808-71-1	38
5	Cyclopropane, 1-methyl-1-isoprop...	96	C7H12	003422-07-9	38





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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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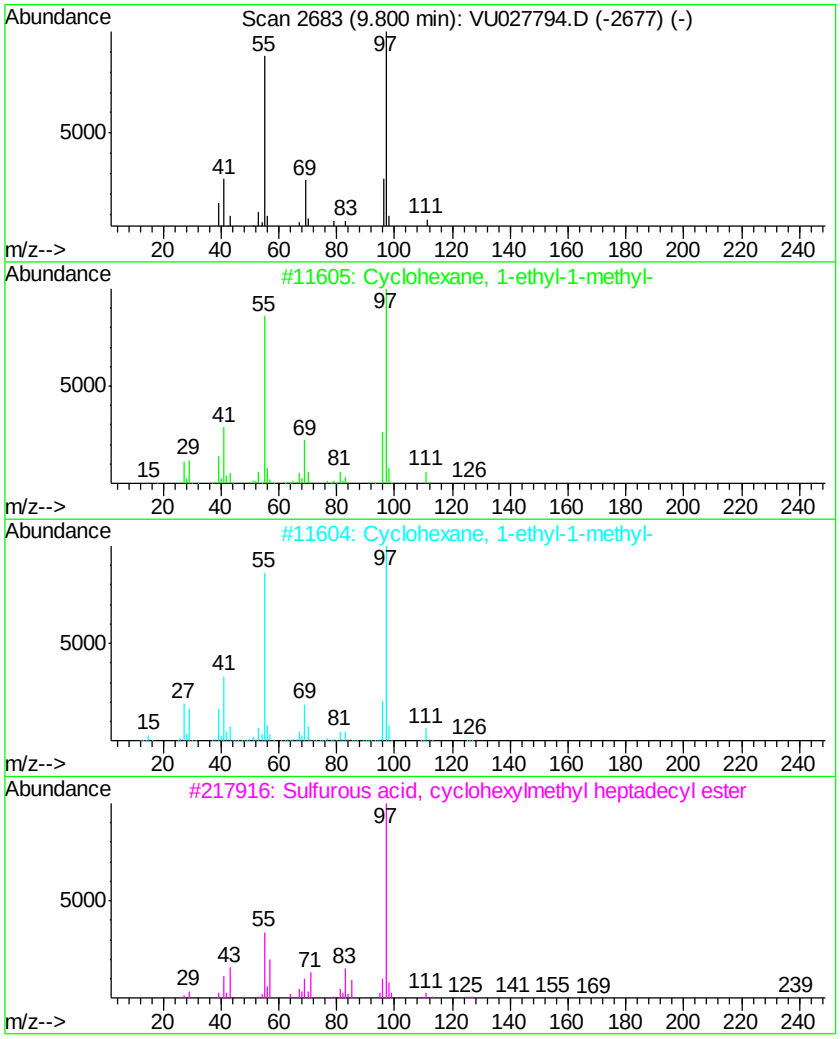
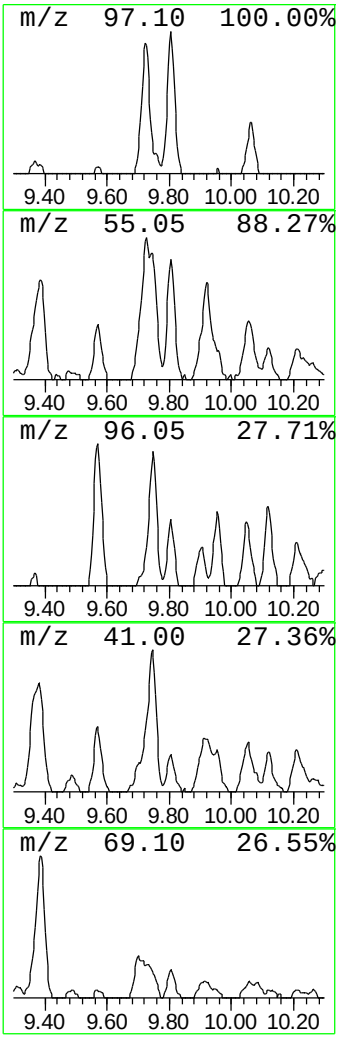
Peak Number 15 (DEL) Alkane: Cyclic9.80 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.80	0.90 ug/L	21479	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	90
2	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	78
3	Sulfurous acid, cyclohexylmethyl...	416	C24H48O3S	1000309-22-5	64
4	Oxalic acid, di(cyclohexylmethyl...	282	C16H26O4	1000309-68-5	64
5	Oxalic acid, butyl cyclohexylmet...	242	C13H22O4	1000309-68-2	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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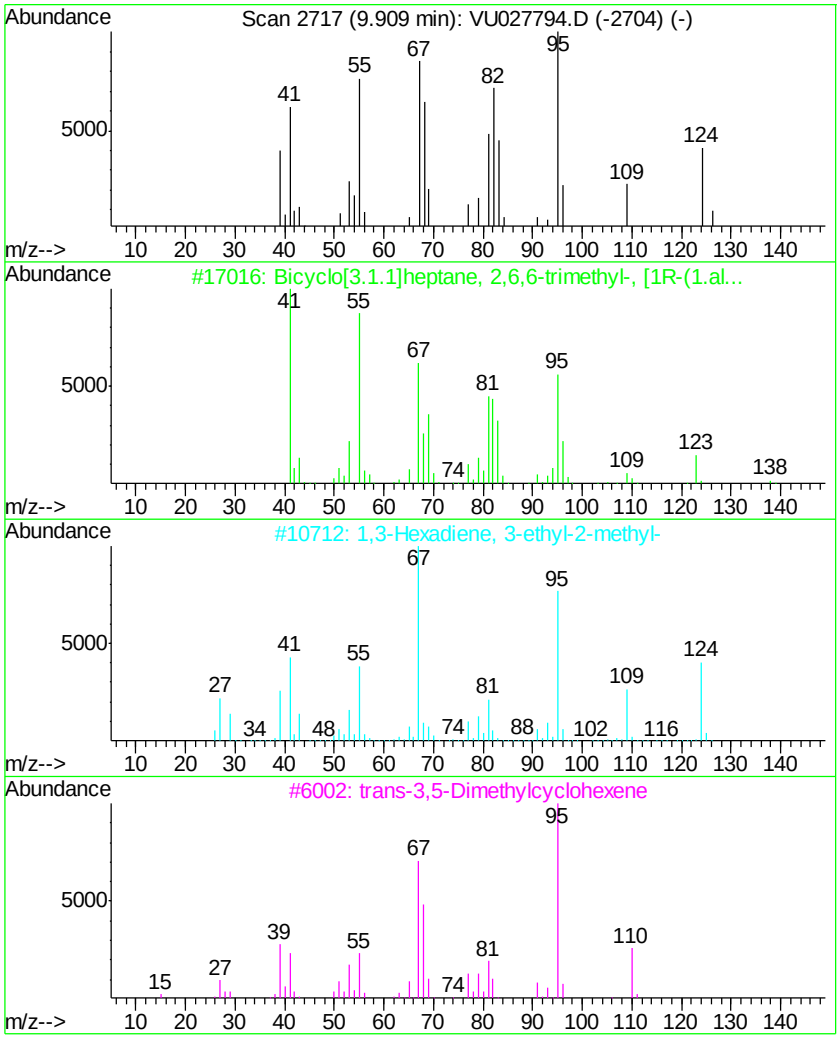
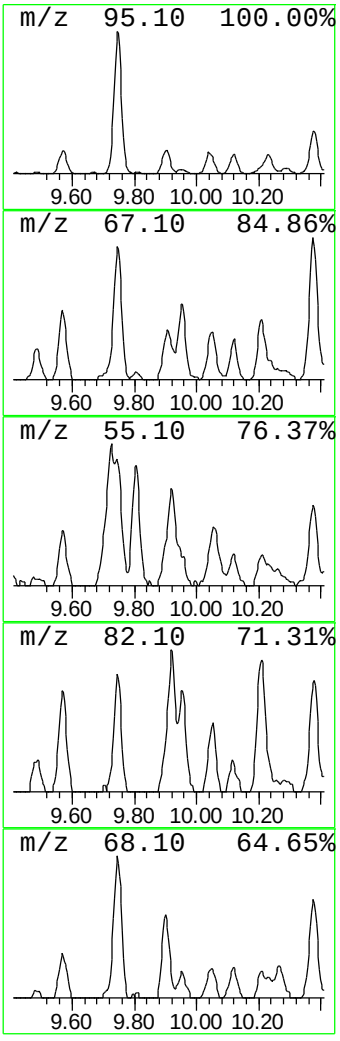
Peak Number 16 Bicyclo[3.1.1]heptane, 2,6,... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.91	2.01 ug/L	47902	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	004795-86-2	50
2	1,3-Hexadiene, 3-ethyl-2-methyl-	124	C9H16	061142-36-7	47
3	trans-3,5-Dimethylcyclohexene	110	C8H14	056021-63-7	43
4	Cyclohexene, 3,5-dimethyl-	110	C8H14	000823-17-6	43
5	2-Cyclohexen-1-one, 4,5-dimethyl-	124	C8H12O	005715-25-3	38





Library Search Compound Report

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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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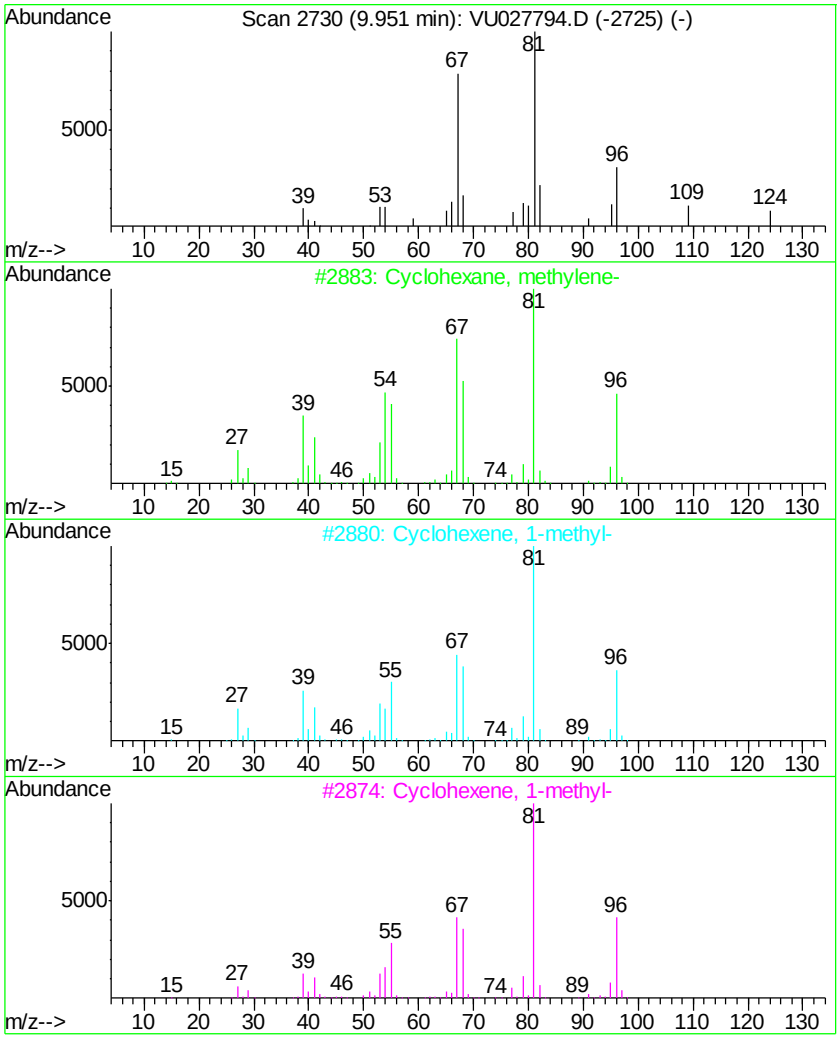
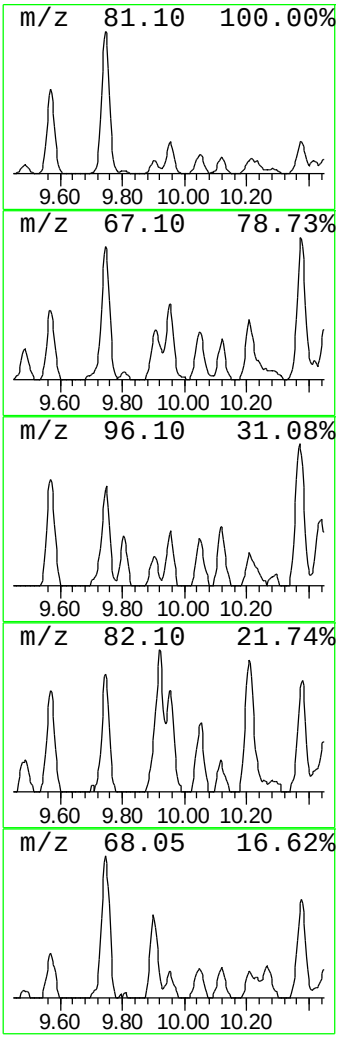
Peak Number 17 Cyclohexane, methylene- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	1.17 ug/L	27903	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methylene-	96	C7H12	001192-37-6	64
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	50
3	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	46
4	Cyclopentene,1-(2-methylpropyl)-	124	C9H16	053098-47-8	46
5	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	45





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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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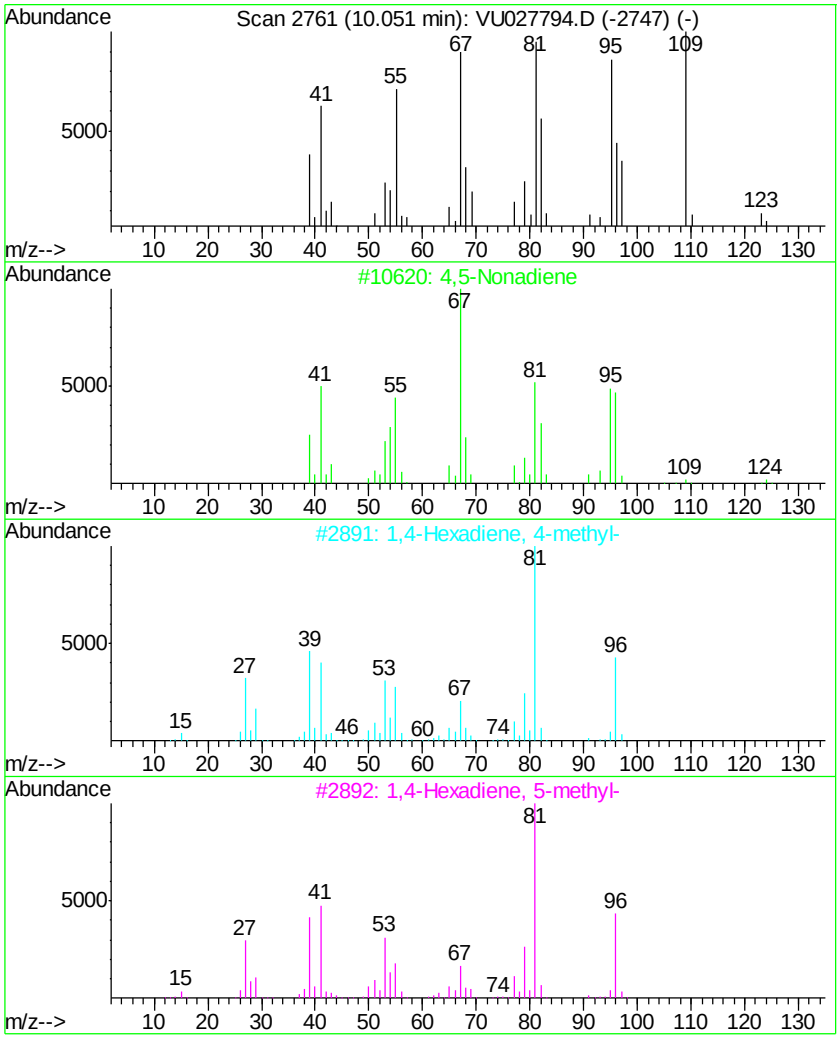
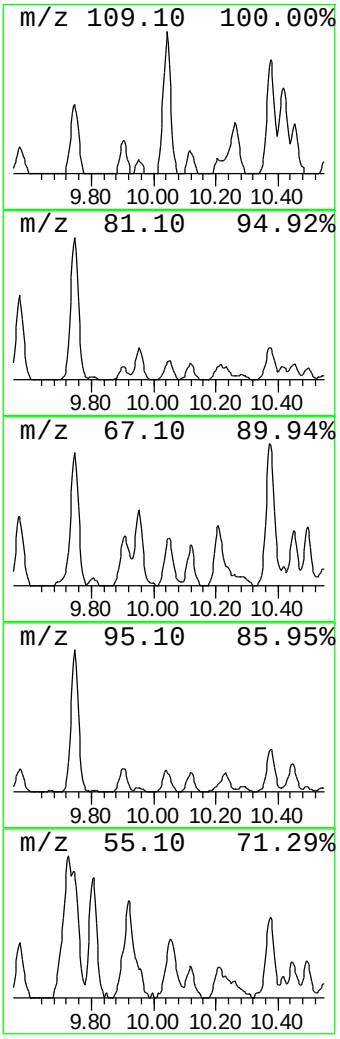
Peak Number 18 unknown-02 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.05	1.87 ug/L	44644	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5-Nonadiene	124	C9H16	000821-74-9	45
2	1,4-Hexadiene, 4-methyl-	96	C7H12	001116-90-1	38
3	1,4-Hexadiene, 5-methyl-	96	C7H12	000763-88-2	30
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	30
5	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	30





Library Search Compound Report

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Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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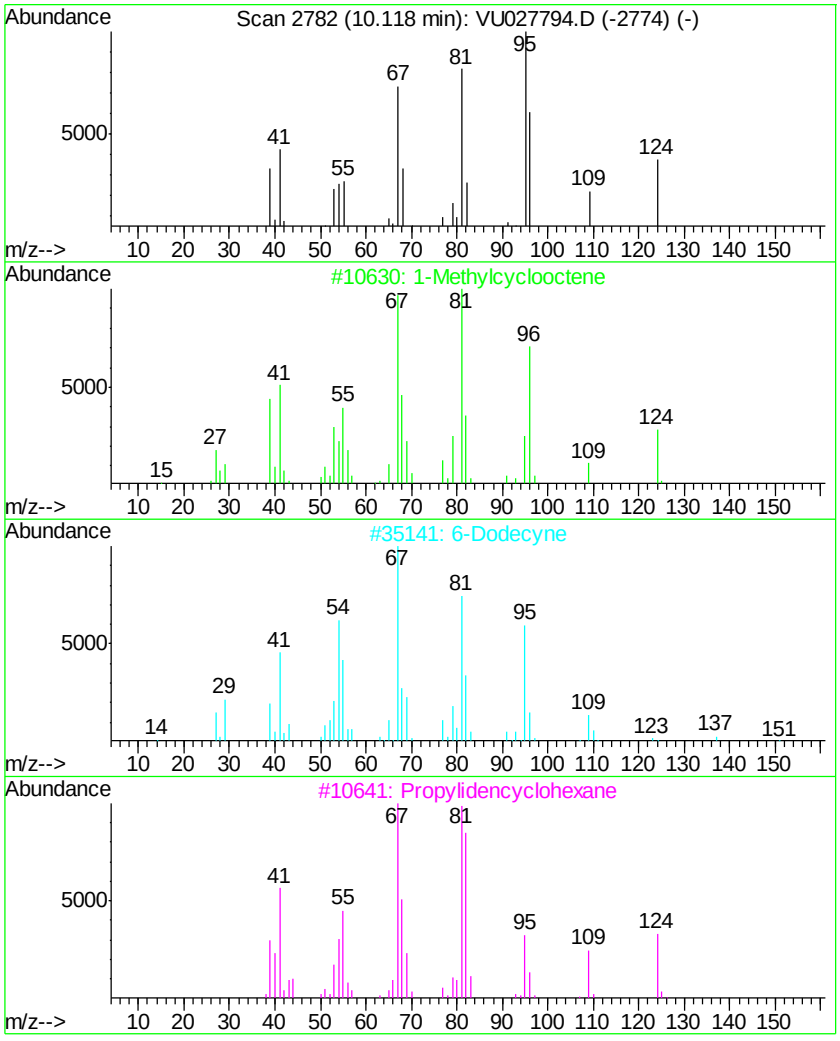
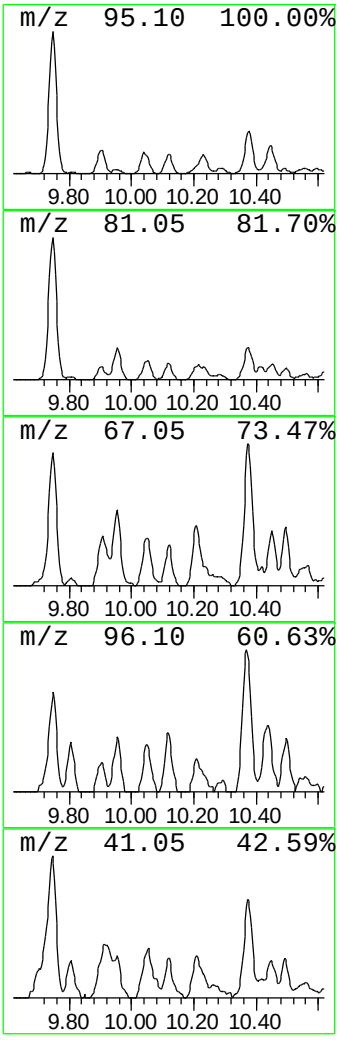
Peak Number 19 1-Methylcyclooctene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.12	1.02 ug/L	24350	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methylcyclooctene	124	C9H16	000933-11-9	89
2	6-Dodecyne	166	C12H22	006975-99-1	72
3	Propylidencyclohexane	124	C9H16	002129-93-3	58
4	4-Nonyne	124	C9H16	020184-91-2	52
5	4-Nonyne	124	C9H16	020184-91-2	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

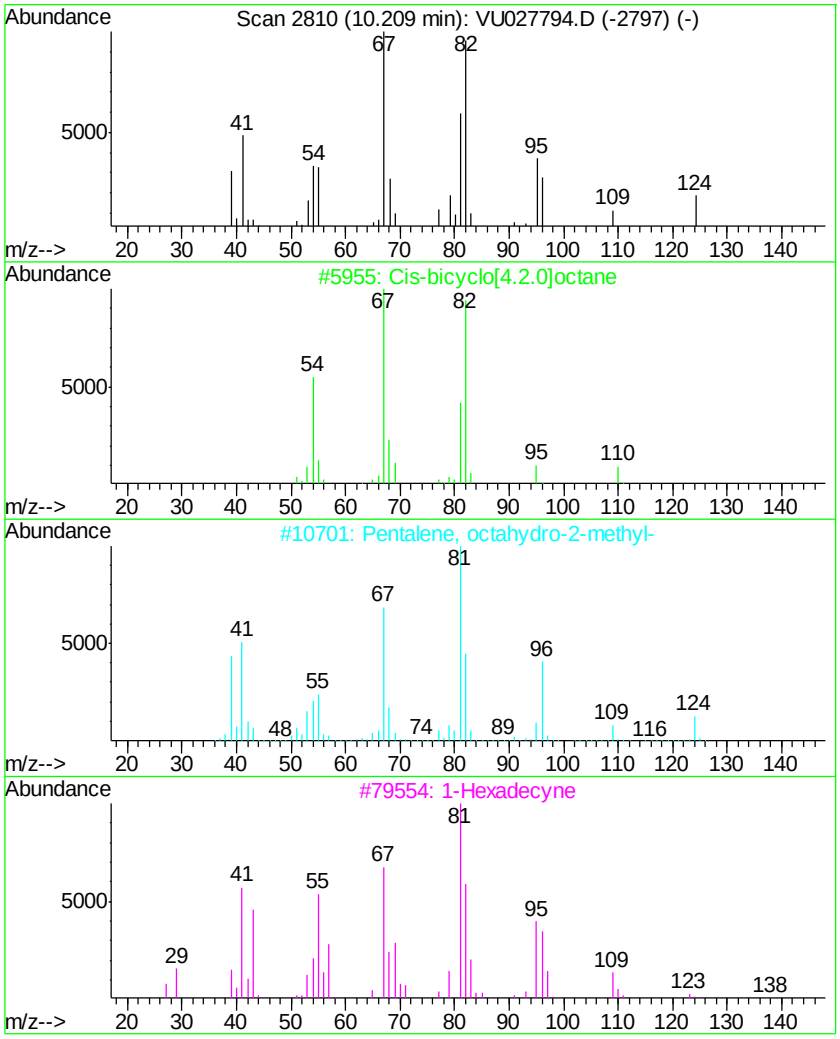
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

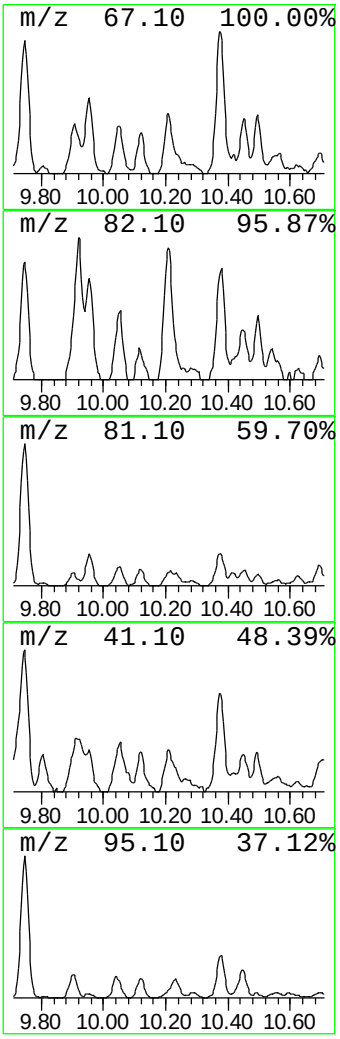
****

Peak Number 20 Cis-bicyclo[4.2.0]octane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	1.77 ug/L	42272	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	59
2	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	58
3	1-Hexadecyne	222	C16H30	000629-74-3	53
4	3,4-Nonadiene	124	C9H16	037050-03-6	53
5	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

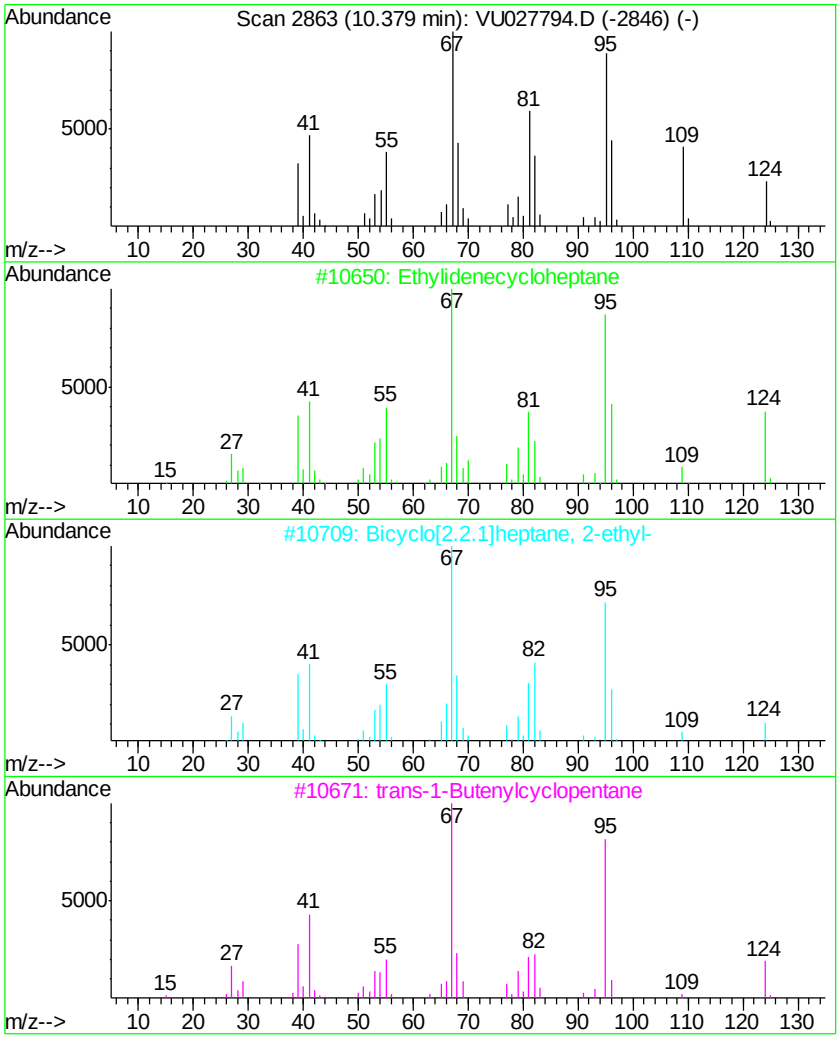
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

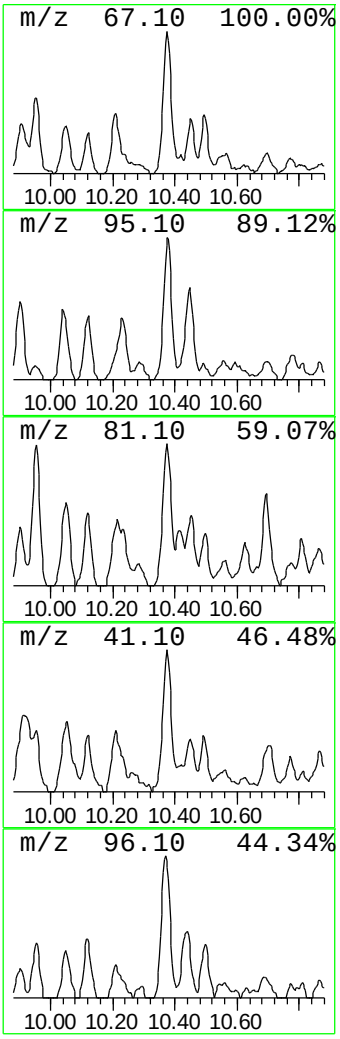
****

Peak Number 21 Ethylidenecycloheptane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.38	3.07 ug/L	74730	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylidenecycloheptane	124	C9H16	010494-87-8	90
2	Bicyclo[2.2.1]heptane, 2-ethyl-	124	C9H16	002146-41-0	76
3	trans-1-Butenylcyclopentane	124	C9H16	1000113-50-9	58
4	Bicyclo[2.2.2]octane, 2-methyl-	124	C9H16	000766-53-0	55
5	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

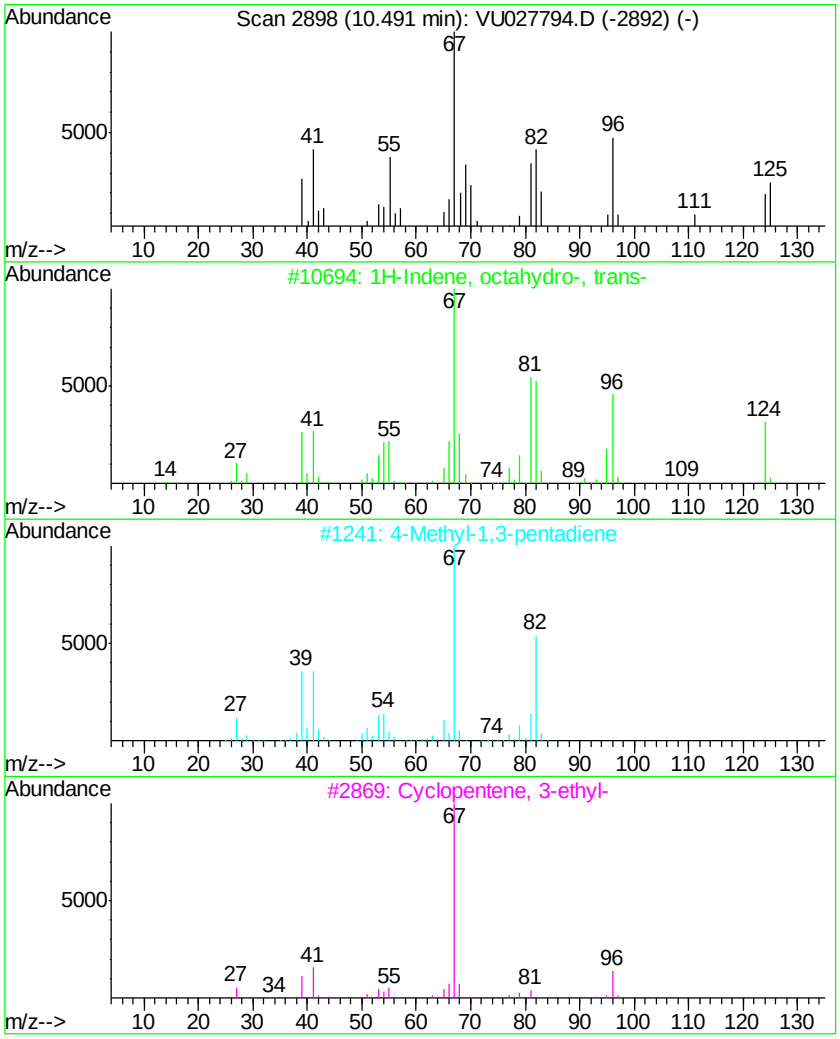
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

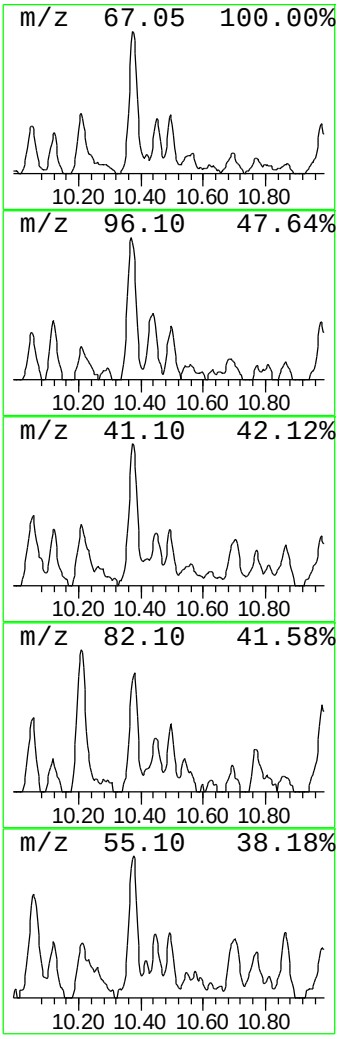
****

Peak Number 22 unknown-03 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	1.05 ug/L	25552	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	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	43
3	Cyclopentene, 3-ethyl-	96	C7H12	000694-35-9	43
4	Cyclopentene, 1-butyl-	124	C9H16	002423-01-0	43
5	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

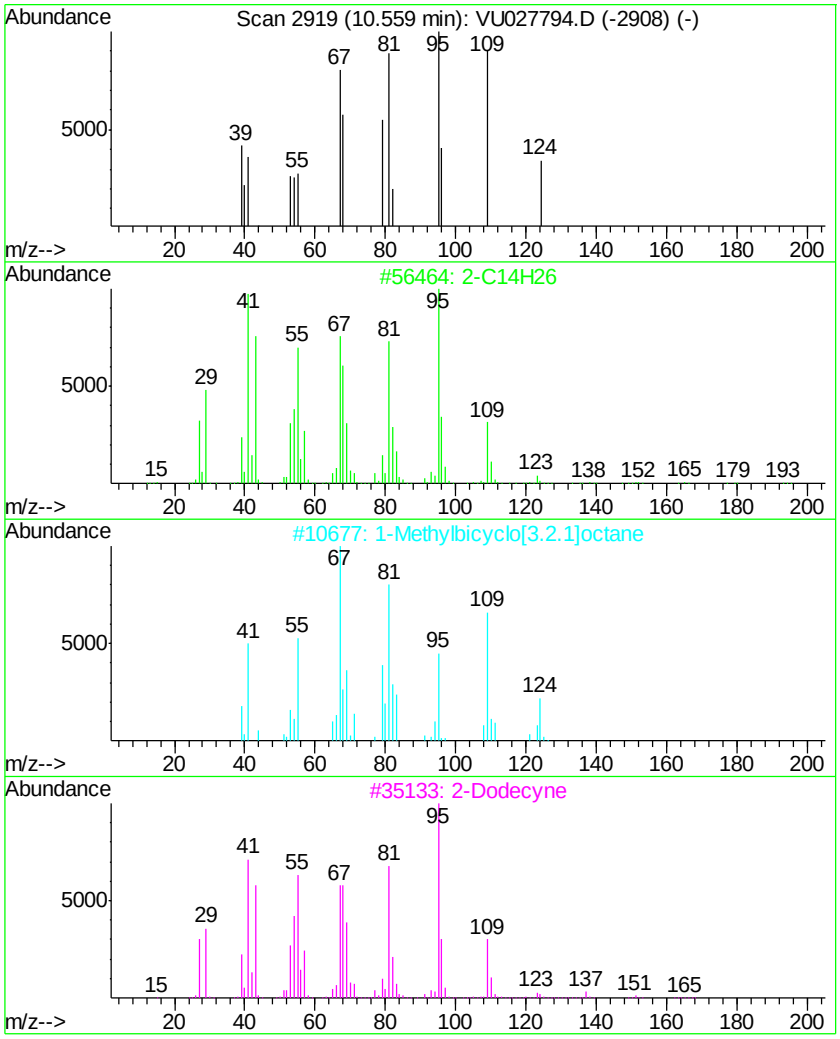
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

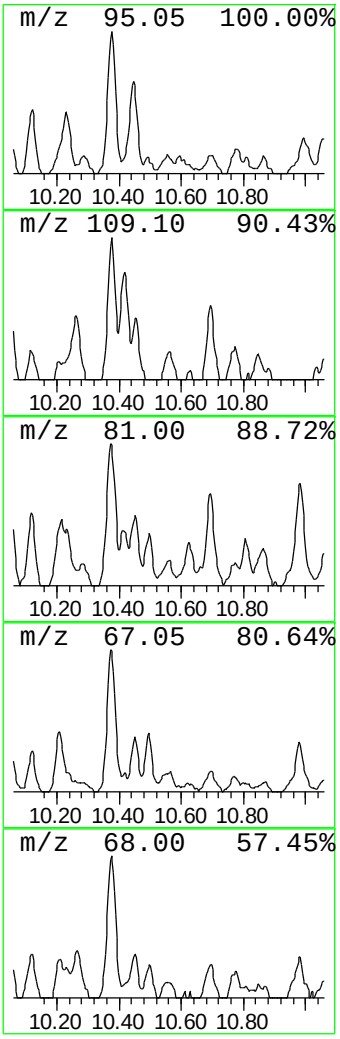
****

Peak Number 23 2-C14H26 Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.56	0.52 ug/L	12745	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-C14H26	194	C14H26	000638-60-8	53
2	1-Methylbicyclo[3.2.1]octane	124	C9H16	119972-41-7	53
3	2-Dodecyne	166	C12H22	000629-49-2	53
4	2-Methylbicyclo[3.2.1]octane	124	C9H16	1000215-28-0	50
5	2-Decyne	138	C10H18	002384-70-5	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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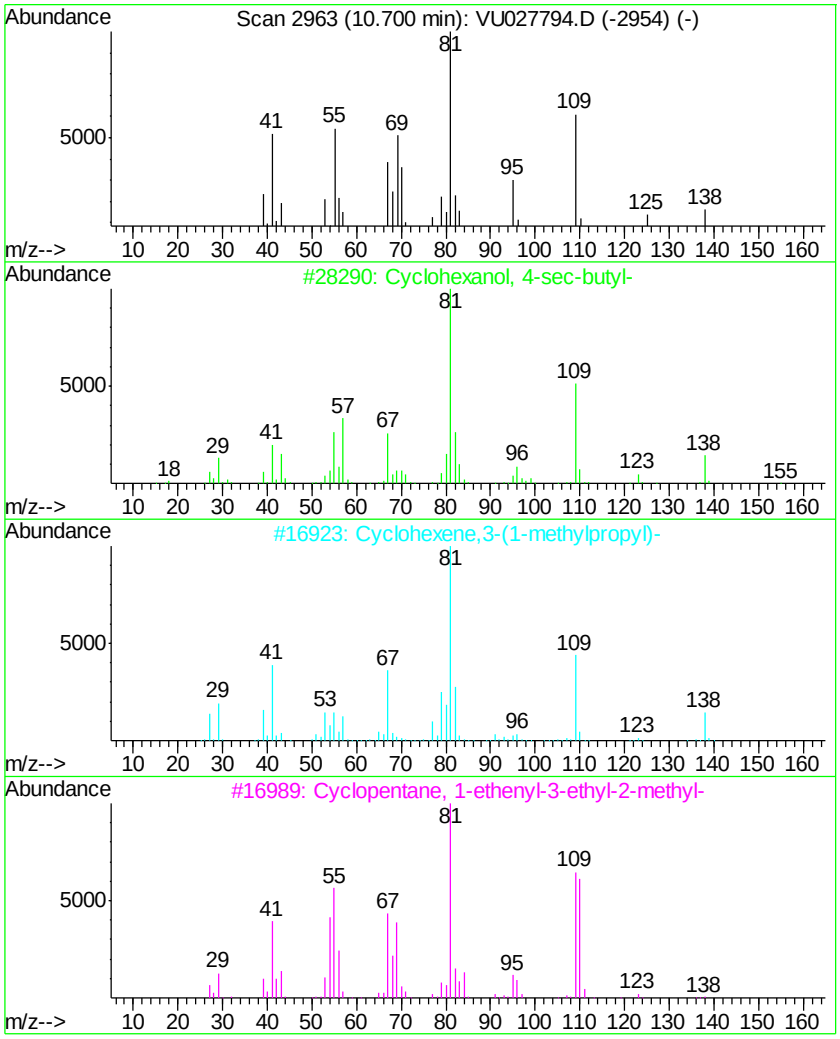
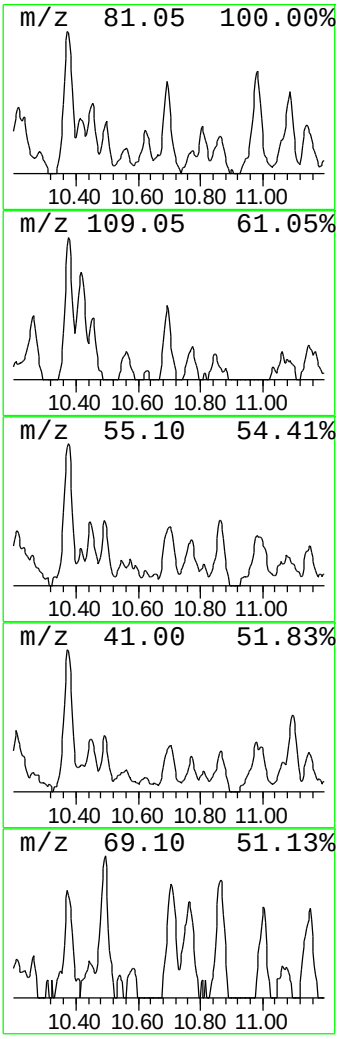
Peak Number 25 Cyclohexanol, 4-sec-butyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.70	1.00 ug/L	24385	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanol, 4-sec-butyl-	156	C10H20O	006292-20-2	64
2	Cyclohexene,3-(1-methylpropyl)-	138	C10H18	015232-91-4	53
3	Cyclopentane, 1-ethenyl-3-ethyl-...	138	C10H18	055170-98-4	47
4	3-Octyne, 2,2-dimethyl-	138	C10H18	019482-57-6	46
5	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	46





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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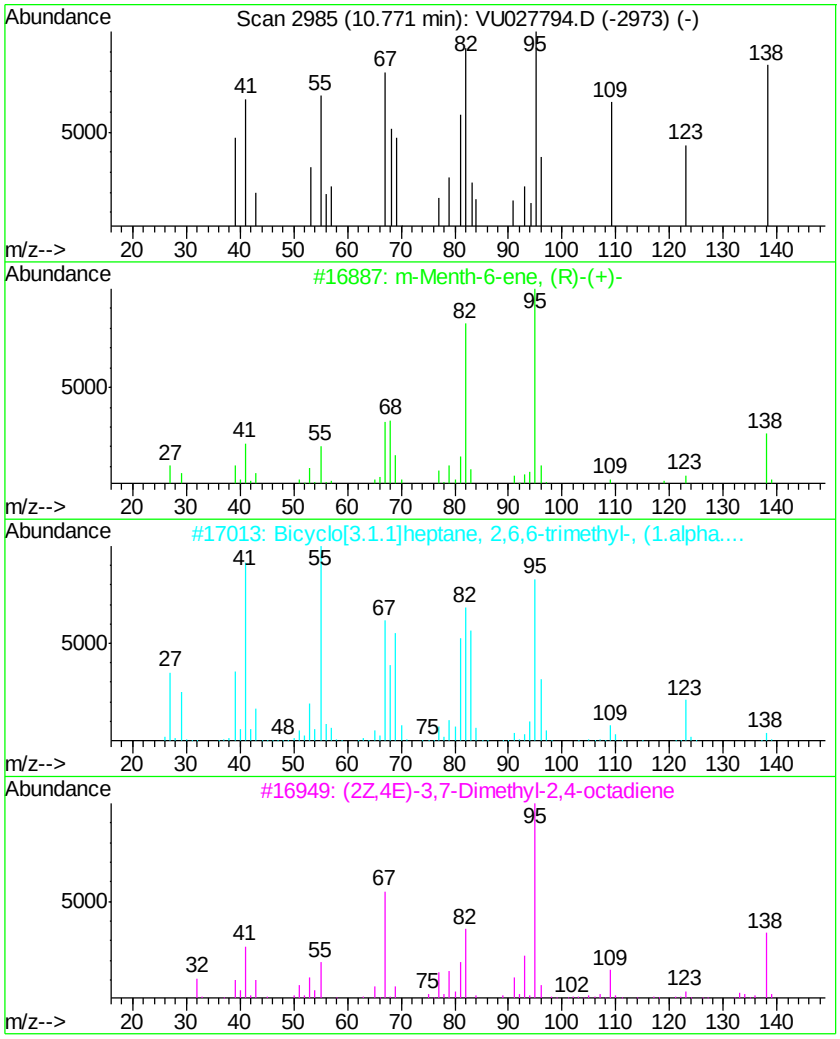
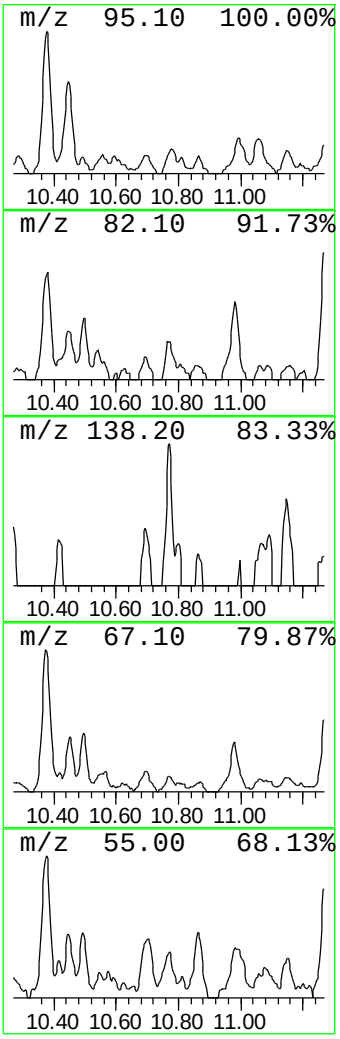
Peak Number 26 m-Menth-6-ene, (R)-(+)- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	0.70 ug/L	17112	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	m-Menth-6-ene, (R)-(+)-	138	C10H18	013837-70-2	53
2	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	006876-13-7	53
3	(2Z,4E)-3,7-Dimethyl-2,4-octadiene	138	C10H18	1000374-08-4	52
4	4,6-Decadiene	138	C10H18	055682-65-0	52
5	Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000500-00-5	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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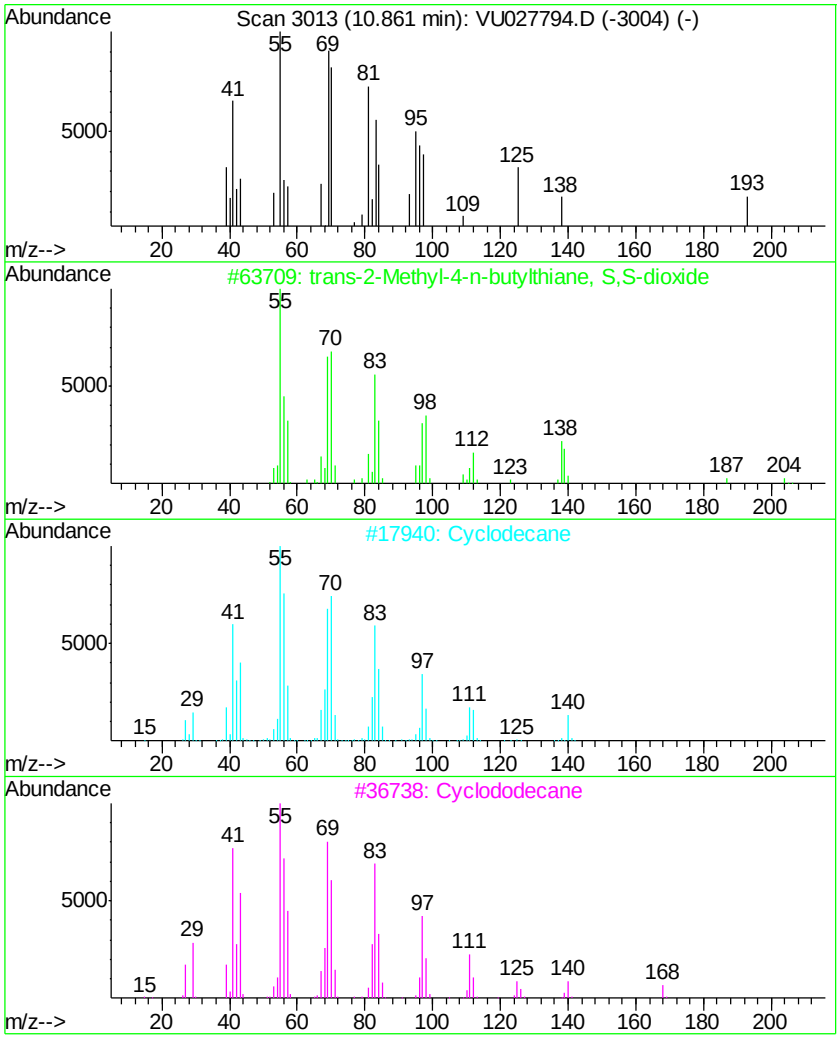
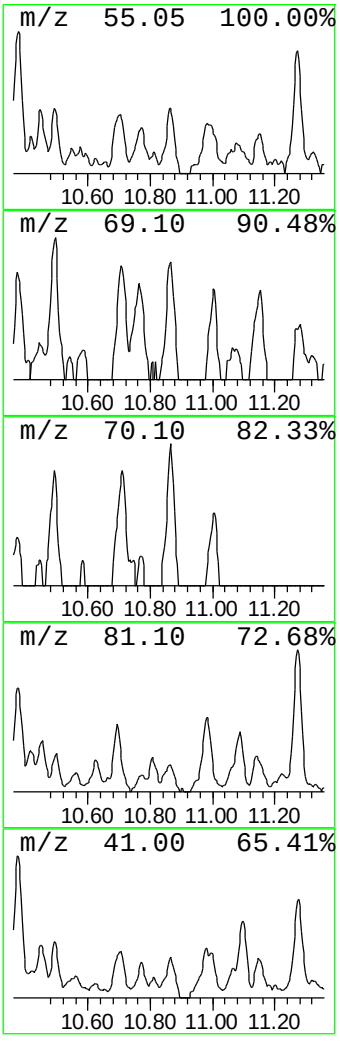
Peak Number 27 trans-2-Methyl-4-n-butylthi... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	0.81 ug/L	19612	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-2-Methyl-4-n-butylthiane, ...	204	C10H20O2S	1000215-67-8	50
2	Cyclodecane	140	C10H20	000293-96-9	43
3	Cyclododecane	168	C12H24	000294-62-2	43
4	2-Dodecene, (E)-	168	C12H24	007206-13-5	40
5	5-Decene, (E)-	140	C10H20	007433-56-9	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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

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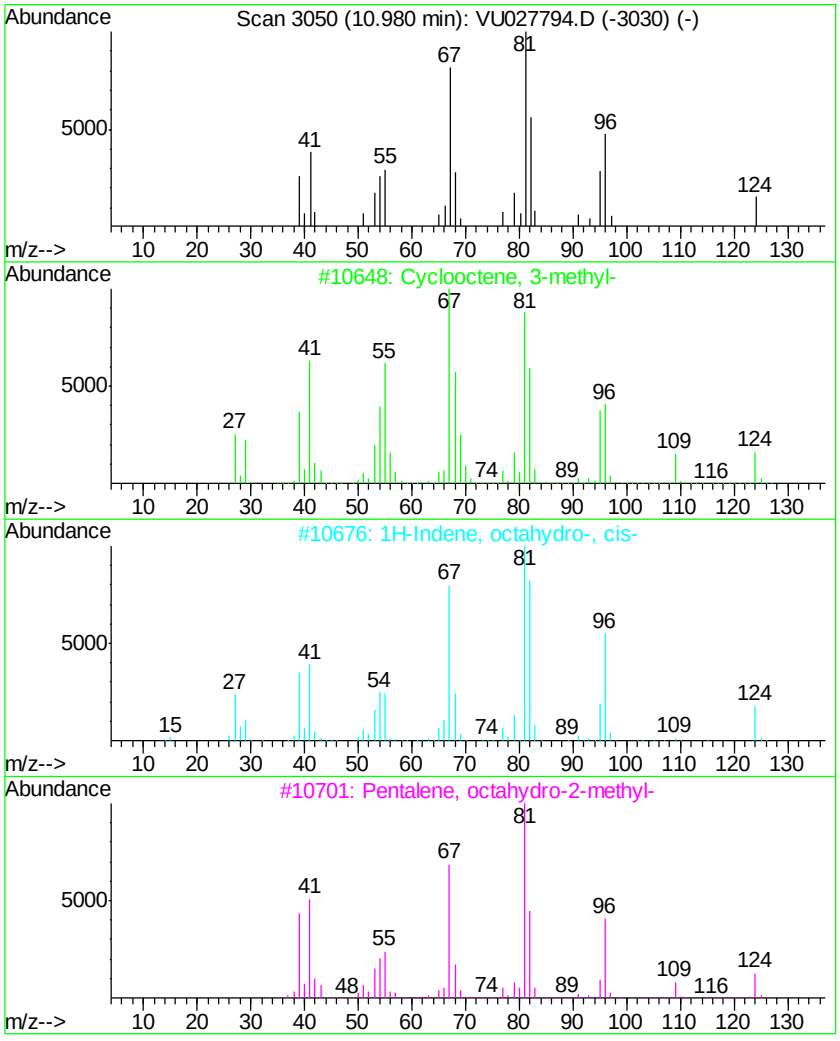
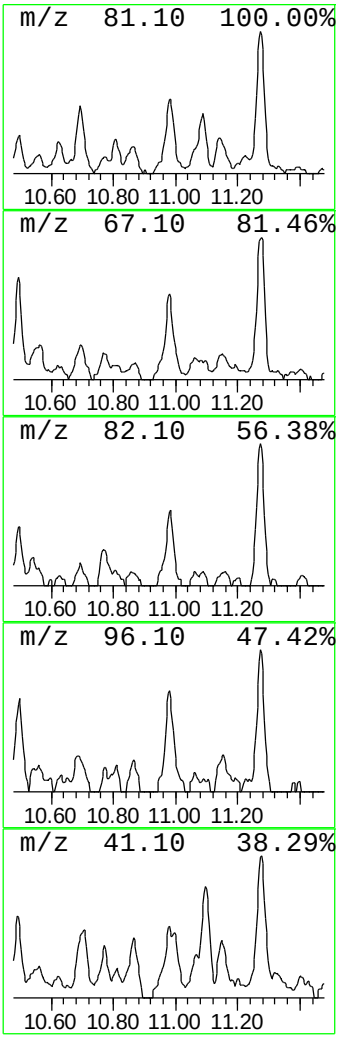
Peak Number 28 Cyclooctene, 3-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.98	1.52 ug/L	36912	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctene, 3-methyl-	124	C9H16	013152-05-1	90
2	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	87
3	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	87
4	1-Methylcyclooctene	124	C9H16	000933-11-9	52
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

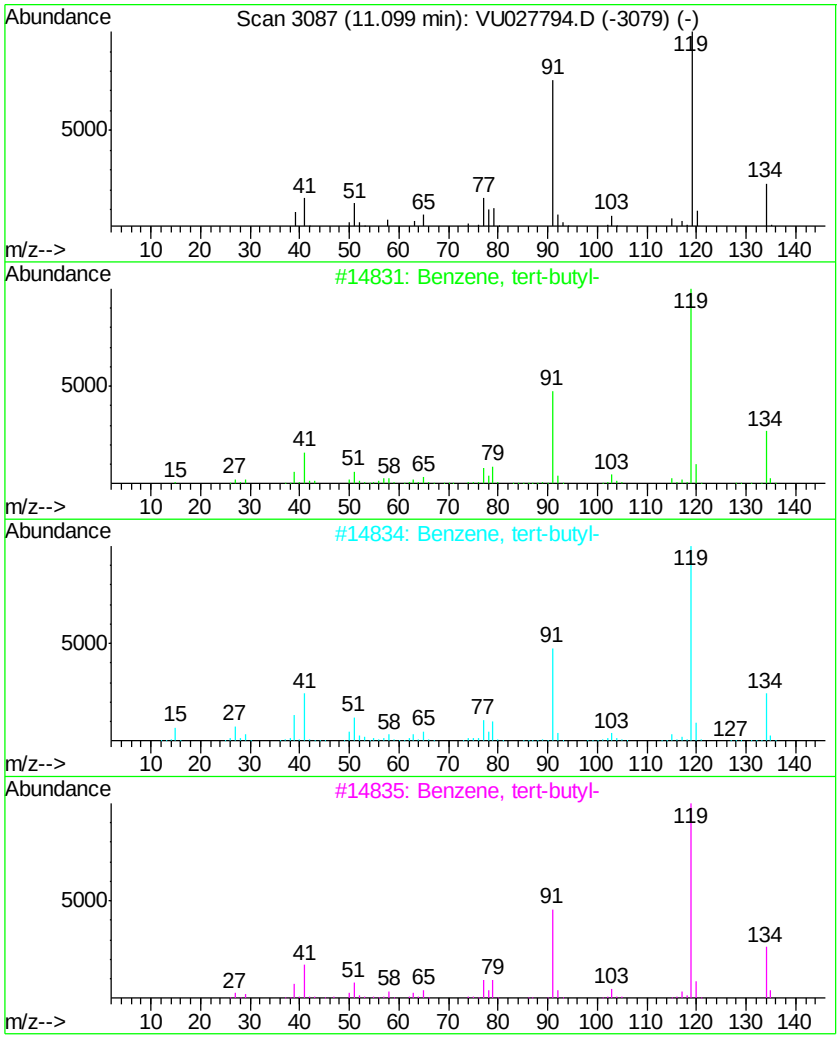
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

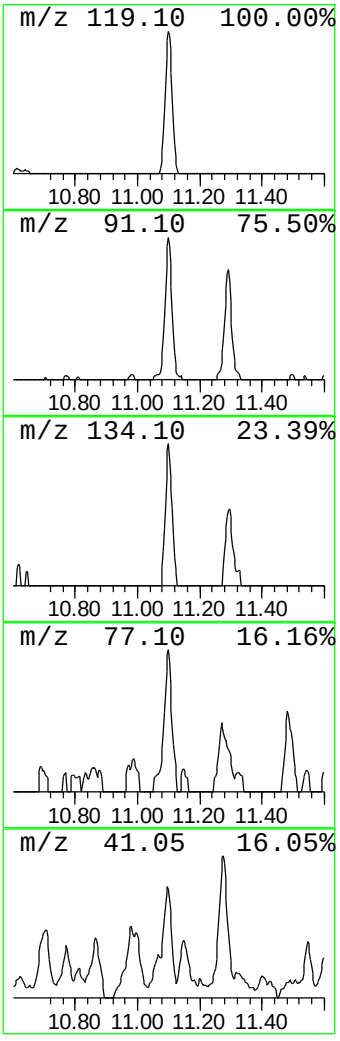
****

Peak Number 29 Benzene, tert-butyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	1.65 ug/L	40240	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, tert-butyl-	134	C10H14	000098-06-6	91
2	Benzene, tert-butyl-	134	C10H14	000098-06-6	87
3	Benzene, tert-butyl-	134	C10H14	000098-06-6	87
4	p-Cymene	134	C10H14	000099-87-6	72
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

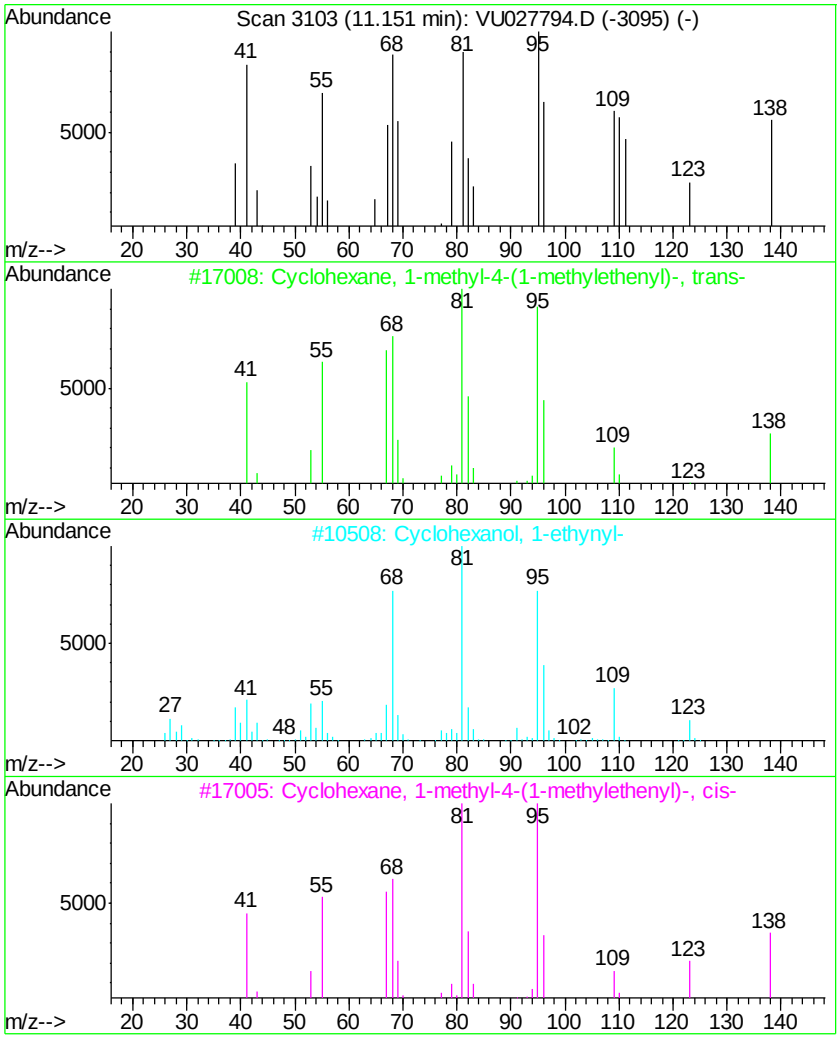
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

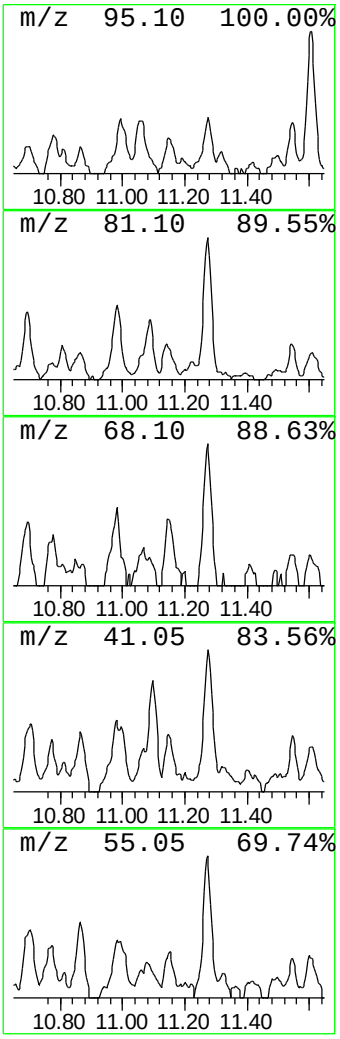
****

Peak Number 30 Cyclohexane, 1-methyl-4-(1-... Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	0.56 ug/L	13636	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	138	C10H18	001124-25-0	53
2	Cyclohexanol, 1-ethynyl-	124	C8H12O	000078-27-3	50
3	Cyclohexane, 1-methyl-4-(1-methy...	138	C10H18	001879-07-8	49
4	Cyclodecene	138	C10H18	003618-12-0	49
5	Cyclohexane, 1-methyl-4-(1-methy...	138	C10H18	001124-27-2	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

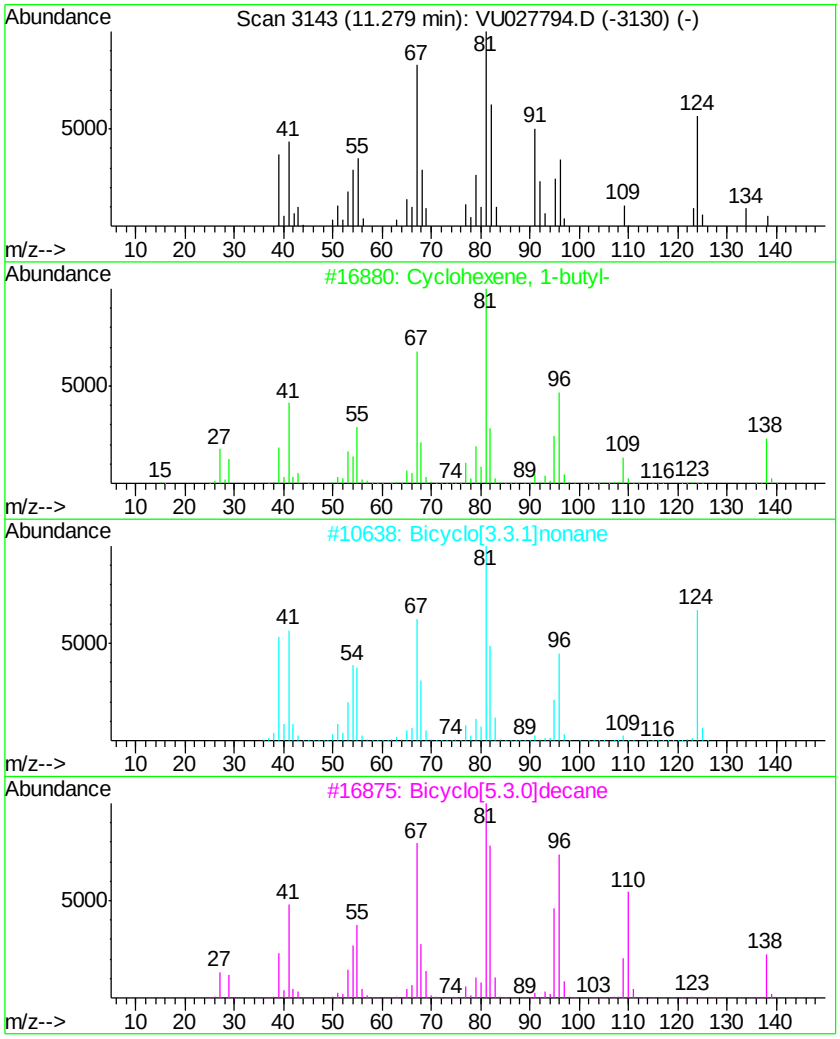
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

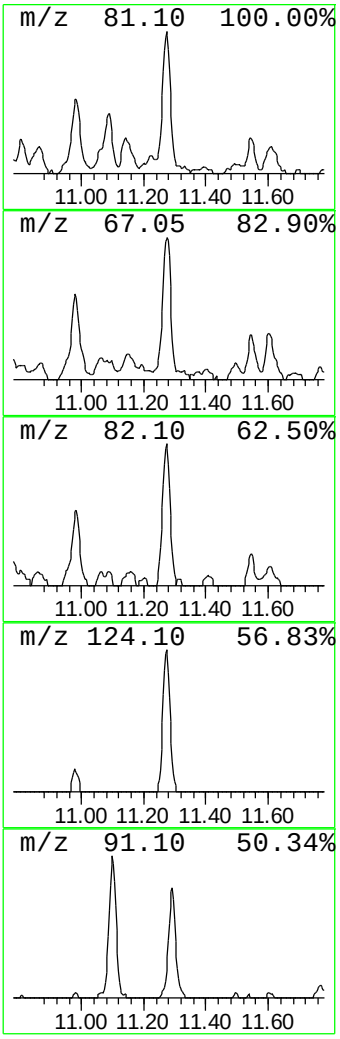
****

Peak Number 31 Cyclohexene, 1-butyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	2.55 ug/L	62071	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-butyl-	138	C10H18	003282-53-9	95
2	Bicyclo[3.3.1]nonane	124	C9H16	000280-65-9	89
3	Bicyclo[5.3.0]decane	138	C10H18	005661-80-3	72
4	2-Cyclohexen-1-one, 4,4-dimethyl-	124	C8H12O	001073-13-8	64
5	2-Cyclopenten-1-one, 3-(1-methyl...	124	C8H12O	001619-28-9	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

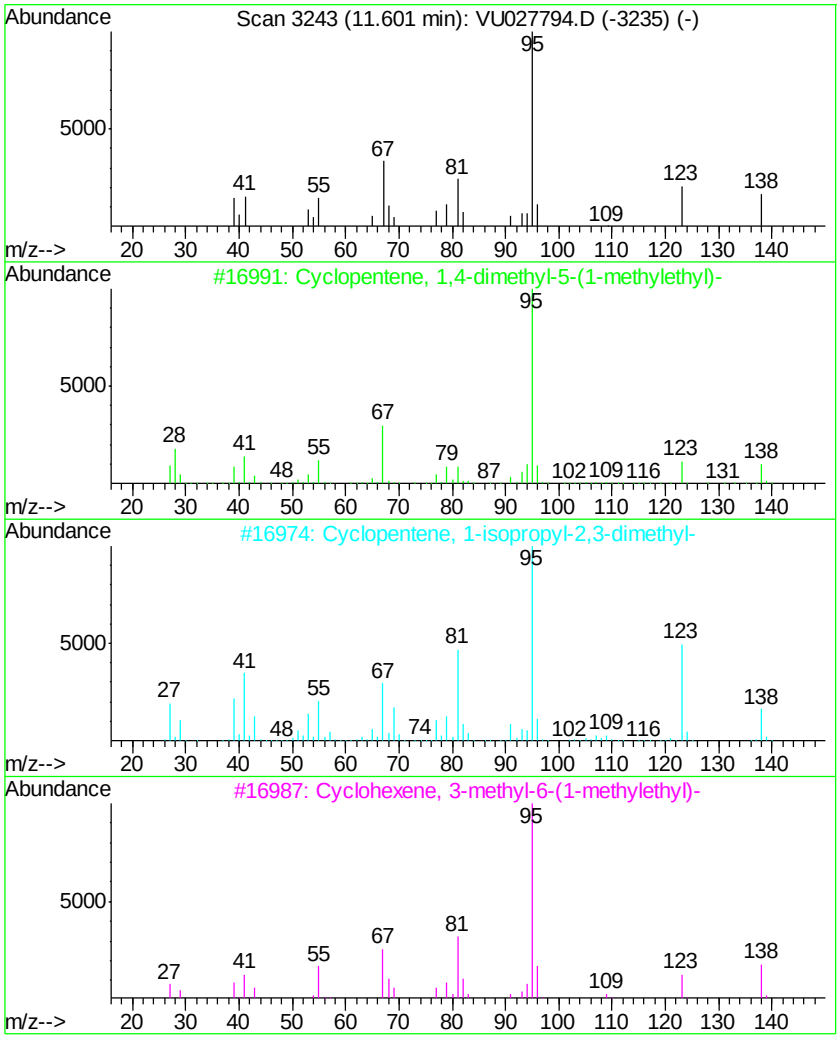
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

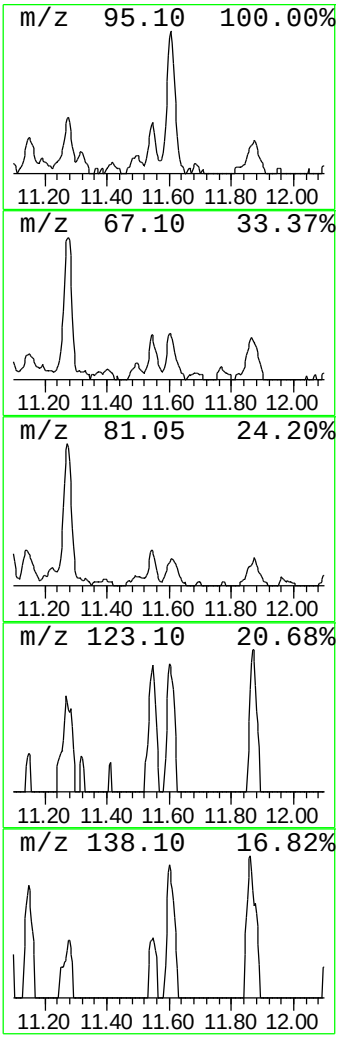
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 Cyclopentene, 1,4-dimethyl-... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.60	0.88 ug/L	21513	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1,4-dimethyl-5-(1-...	138	C10H18	061142-33-4	72
2	Cyclopentene, 1-isopropyl-2,3-di...	138	C10H18	007712-73-4	72
3	Cyclohexene, 3-methyl-6-(1-methy...	138	C10H18	005256-65-5	72
4	Cyclohexene, 1-methyl-3-(1-methy...	138	C10H18	013828-31-4	72
5	(2Z,4E)-3,7-Dimethyl-2,4-octadiene	138	C10H18	1000374-08-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

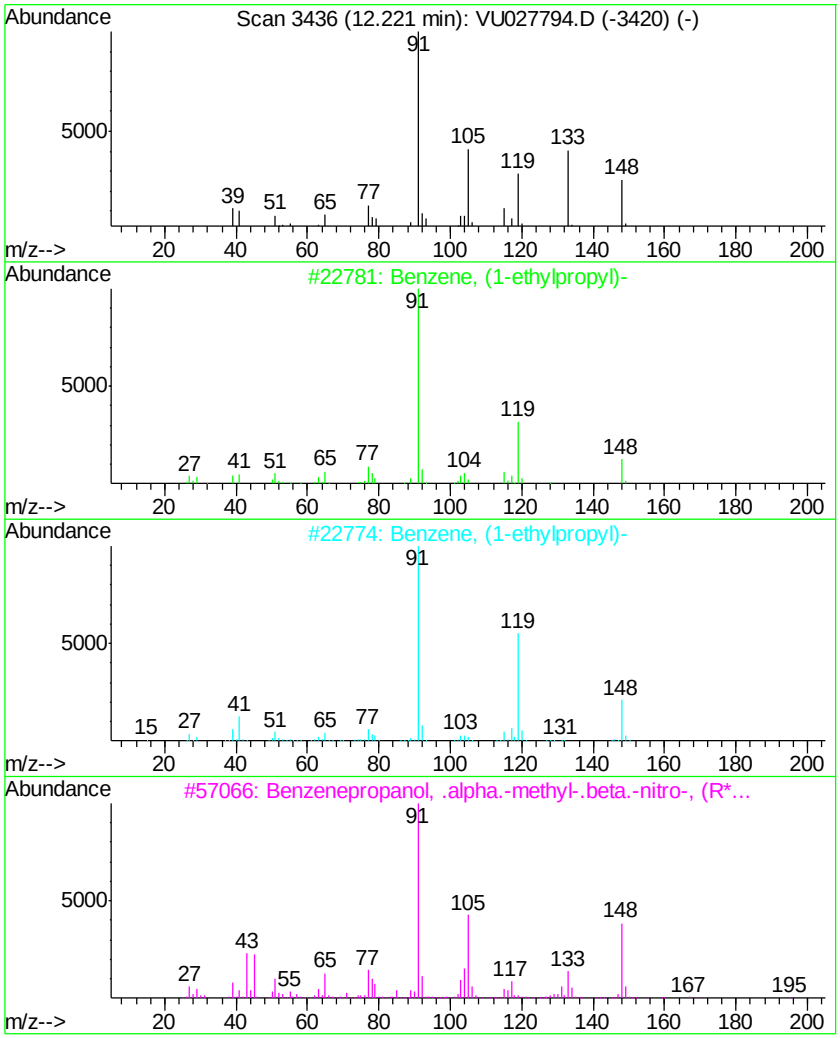
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

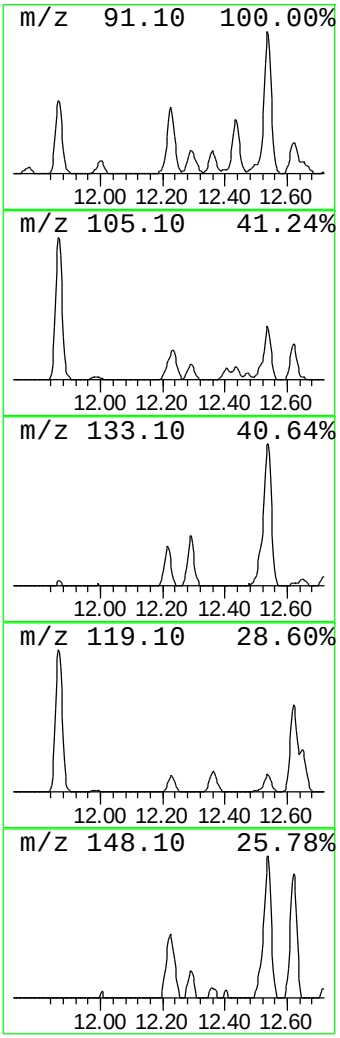
****

Peak Number 34 Benzene, (1-ethylpropyl)- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	1.50 ug/L	36474	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	70
2	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	49
3	Benzenepropanol, .alpha.-methyl-...	195	C10H13NO3	096040-24-3	38
4	Benzene, (1-nitropropyl)-	165	C9H11NO2	005279-14-1	38
5	1,2-Dimethyl-3-phenyldiaziridine	148	C9H12N2	051456-63-4	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

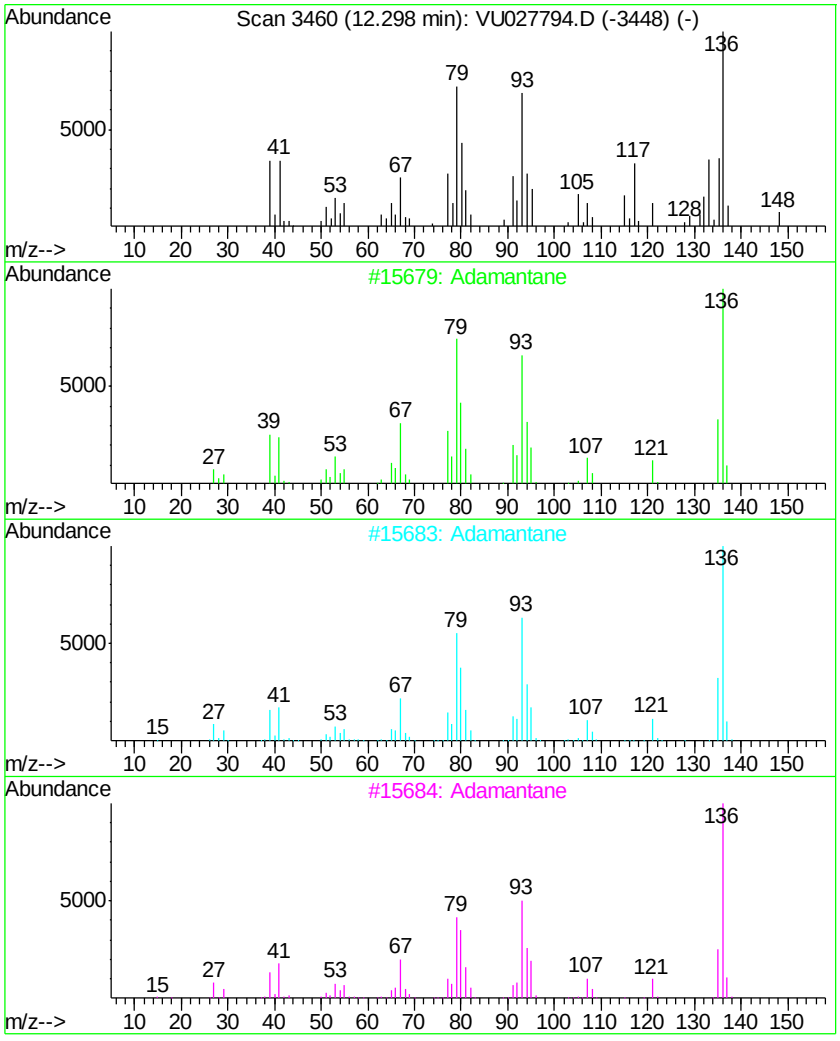
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

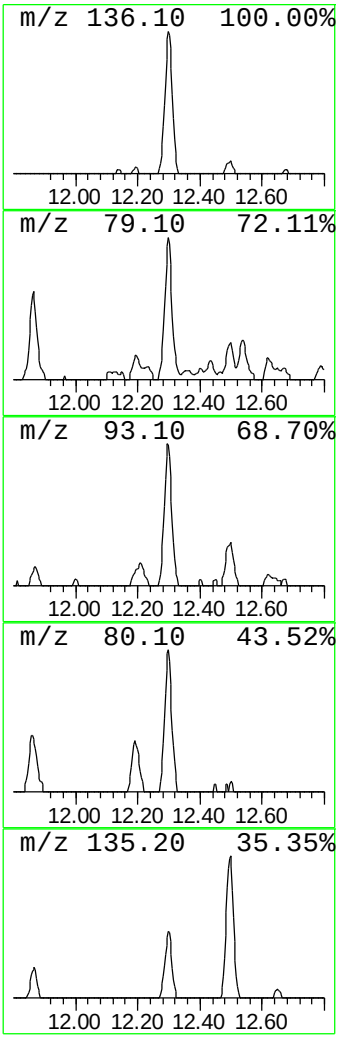
****

Peak Number 35 Adamantane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	3.07 ug/L	74619	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Adamantane	136	C10H16	000281-23-2	99
2	Adamantane	136	C10H16	000281-23-2	98
3	Adamantane	136	C10H16	000281-23-2	97
4	Cyclohexene, 3-methyl-6-(1-methy...	136	C10H16	005113-87-1	60
5	Cyclohexane, 1-methylene-4-(1-me...	136	C10H16	000499-97-8	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

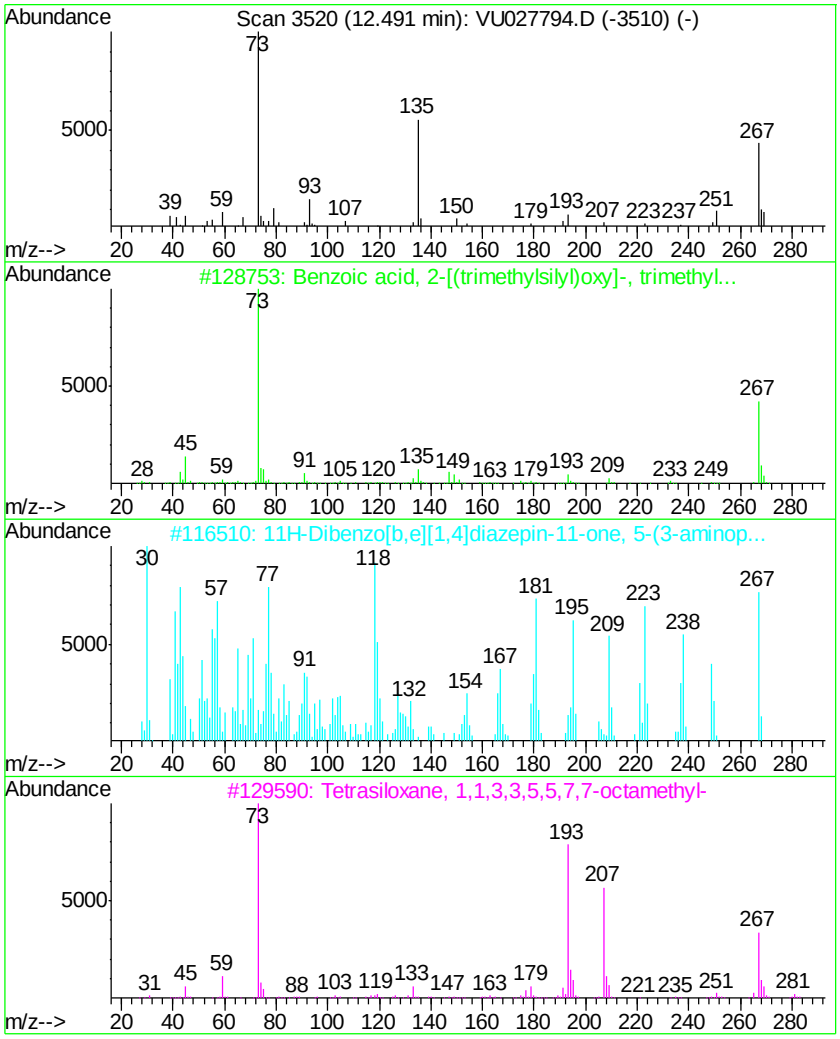
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

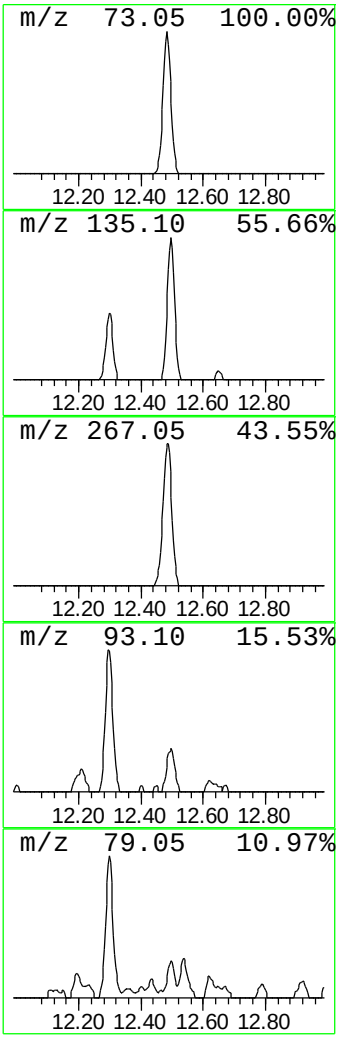
****

Peak Number 37 unknown-04 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	1.49 ug/L	36354	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	25
2	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	22
3	Tetrasiloxane, 1,1,3,3,5,5,7,7-o...	282	C8H26O3Si4	001000-05-1	12
4	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	9
5	4-[1,2-Dimethyl-6-(2-trimethylsi...	326	C18H34O3Si	119018-20-1	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

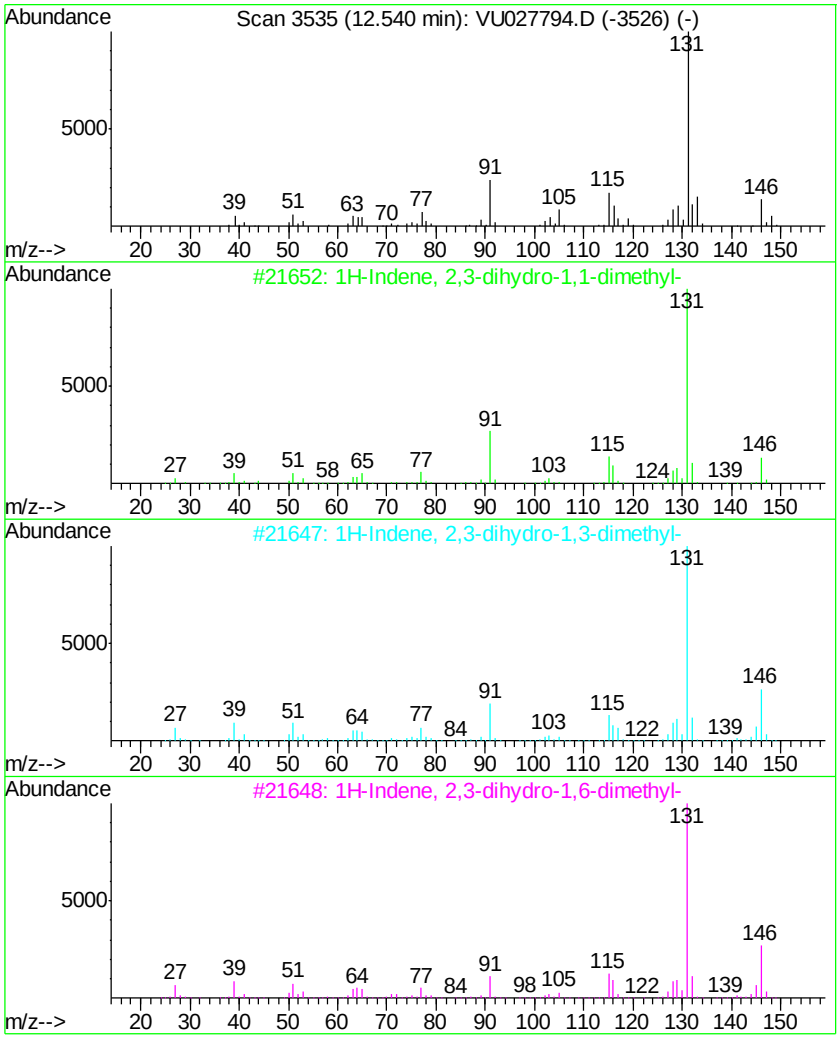
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

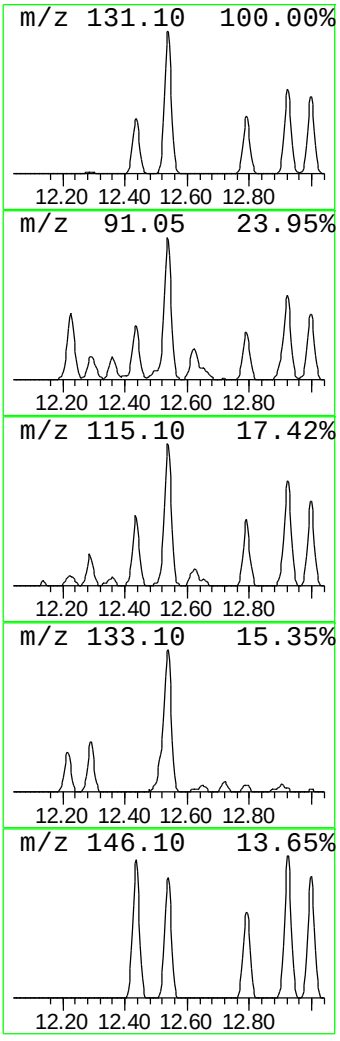
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 38 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	7.75 ug/L	188495	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-1,3-dimet...	146	C11H14	004175-53-5	87
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	87
4	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	87
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

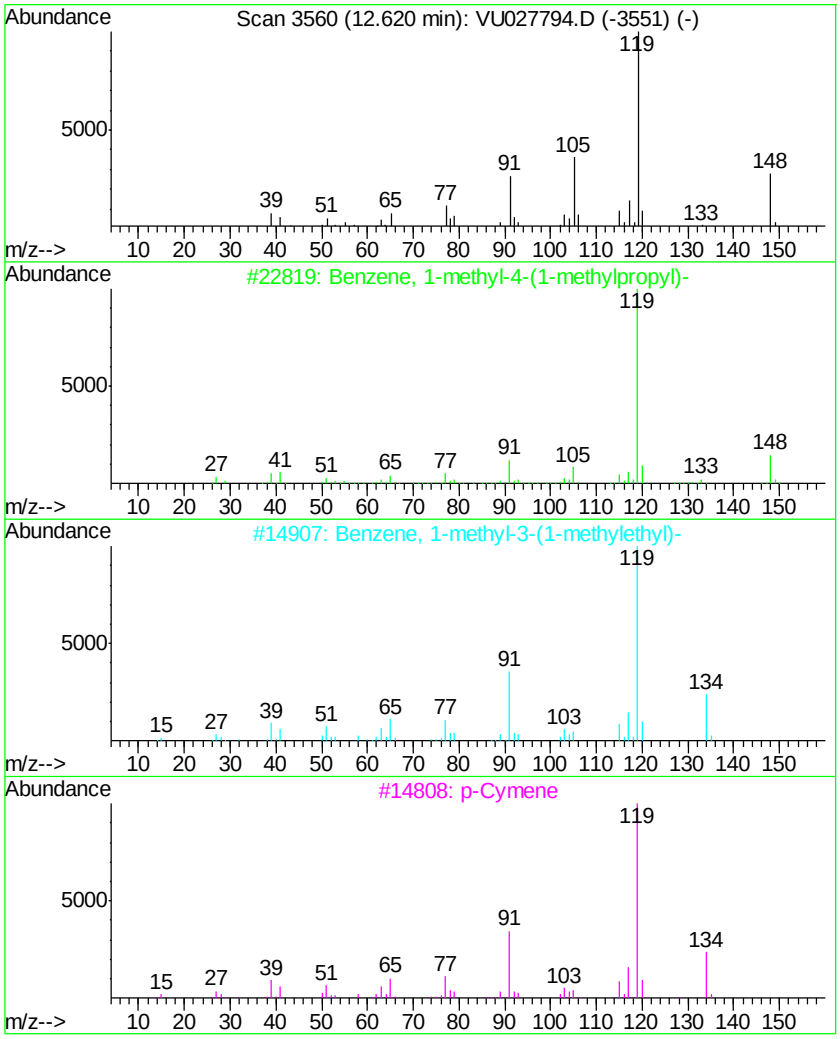
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

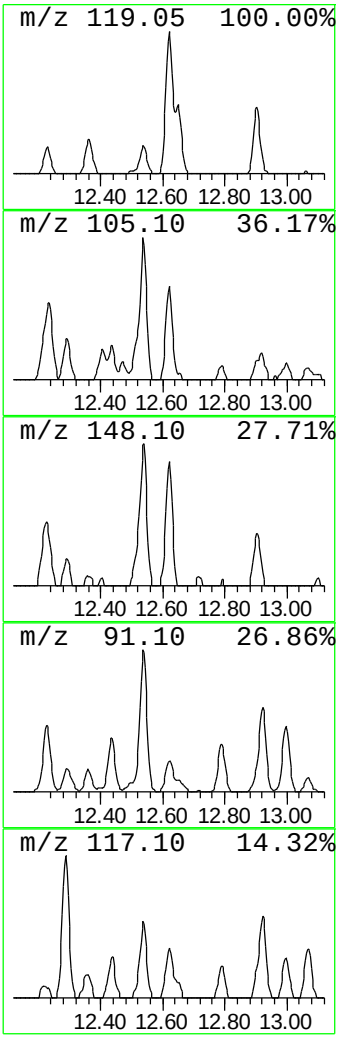
****

Peak Number 39 Benzene, 1-methyl-4-(1-meth... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	1.78 ug/L	43370	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	87
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	64
3	p-Cymene	134	C10H14	000099-87-6	59
4	1,3,8-p-Menthatriene	134	C10H14	018368-95-1	59
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

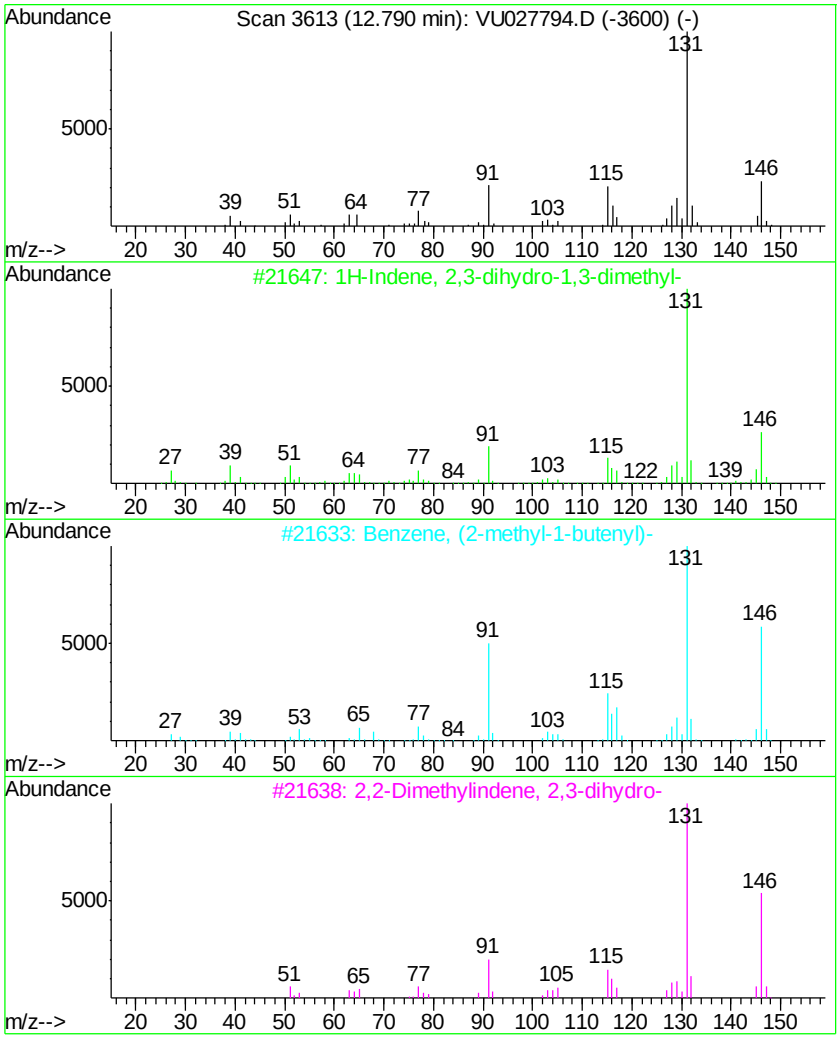
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

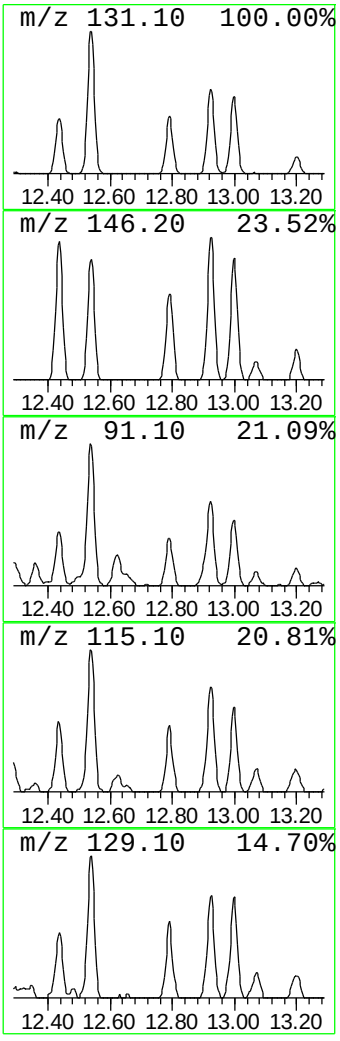
****

Peak Number 40 1H-Indene, 2,3-dihydro-1,3-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	2.74 ug/L	66603	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	95
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	94
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
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	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

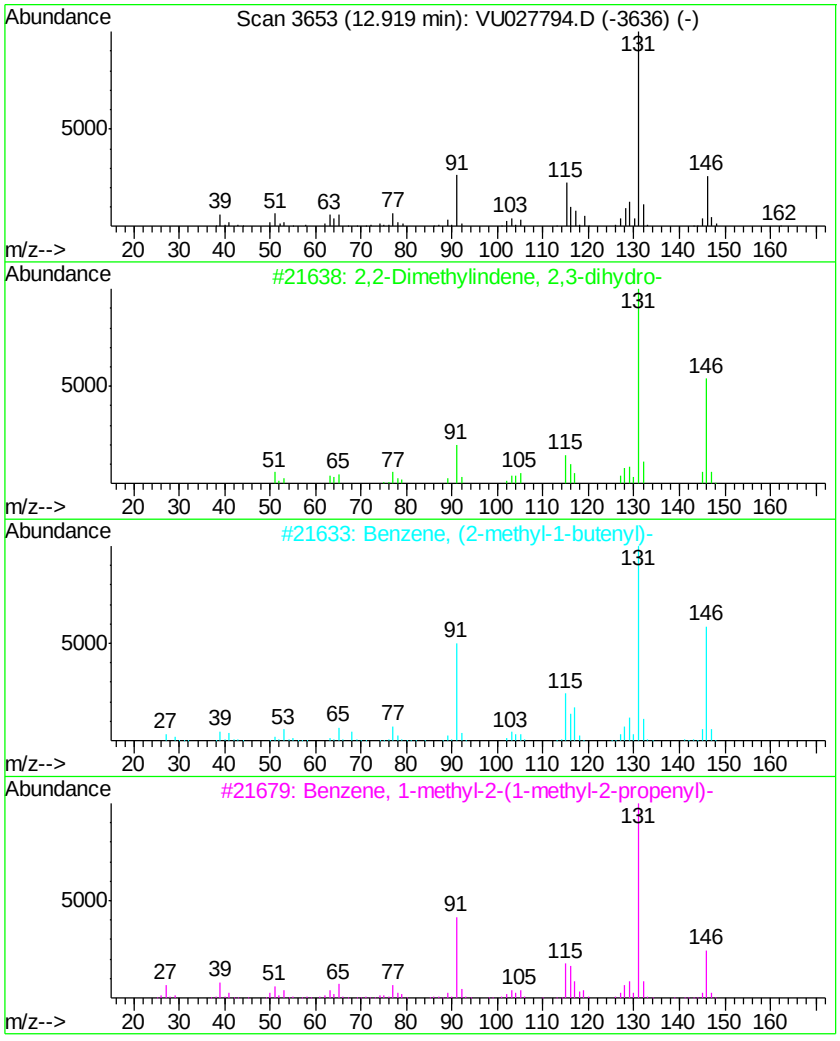
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

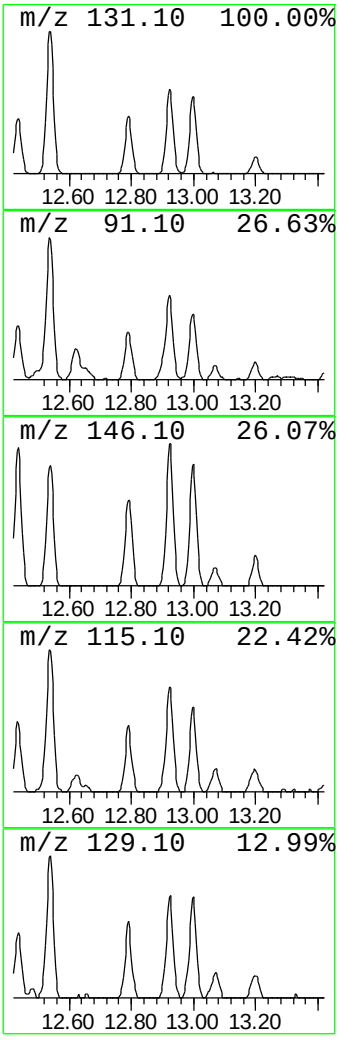
****

Peak Number 41 2,2-Dimethylindene, 2,3-dih... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	4.98 ug/L	121065	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	94
3	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	91
4	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	87
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

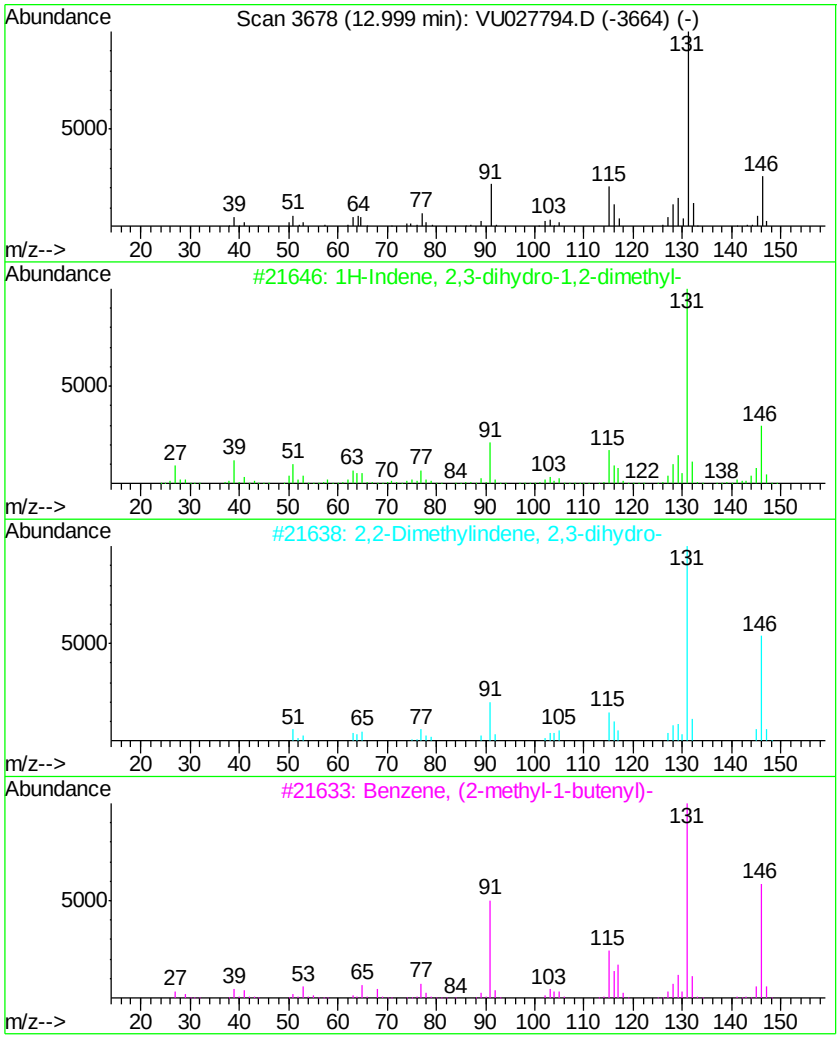
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

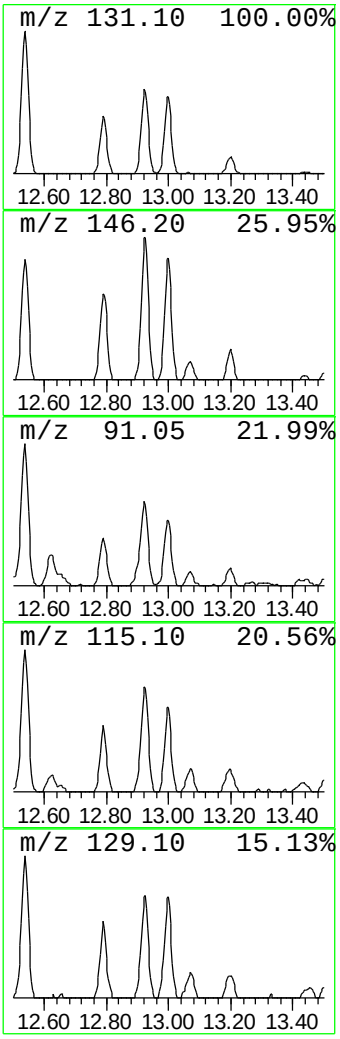
****

Peak Number 42 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	3.85 ug/L	93663	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	94
4	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	91
5	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

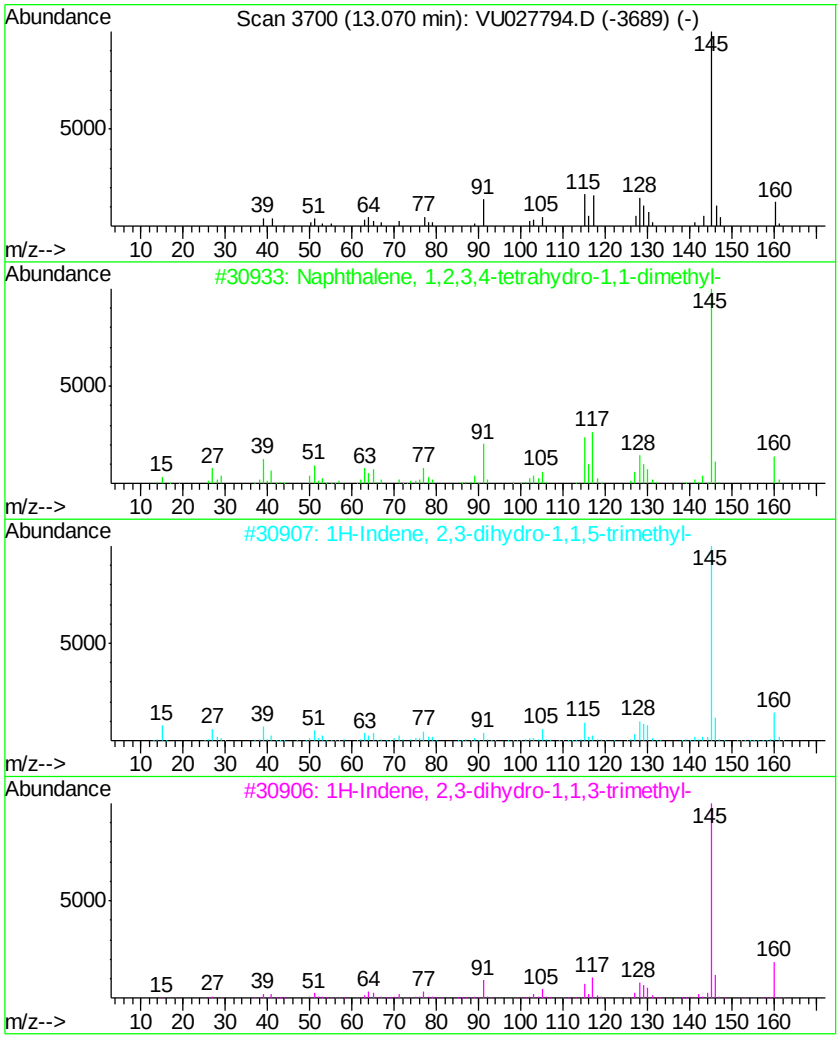
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

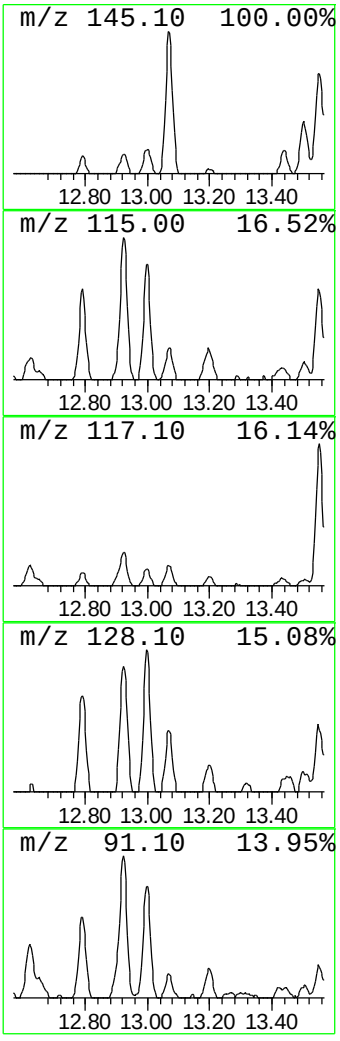
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.07	1.22 ug/L	29749	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	001985-59-7	91
2	1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	90
3	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	87
4	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	001985-59-7	83
5	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	025419-33-4	83





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

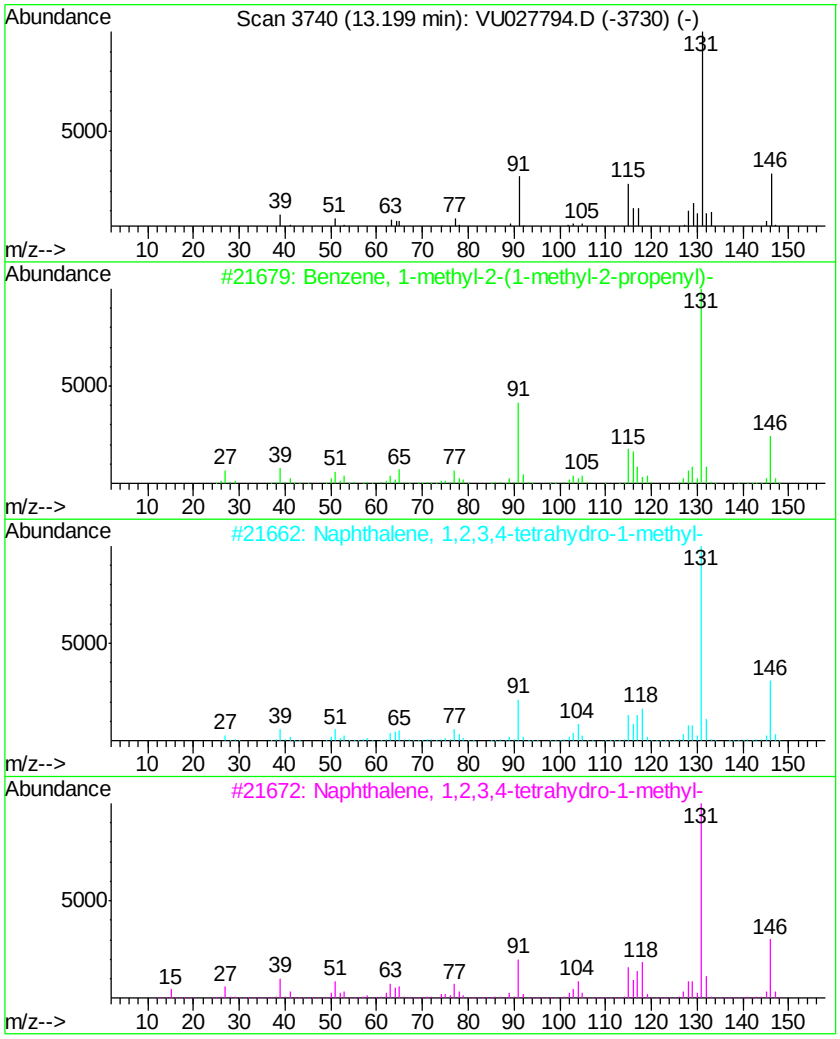
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

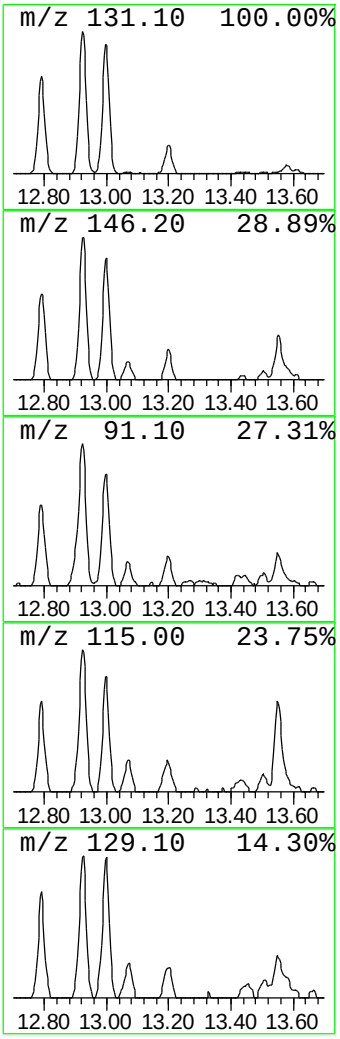
****

Peak Number 44 Benzene, 1-methyl-2-(1-meth... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	0.86 ug/L	20887	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	90
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	87
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	87
4	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	87
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	80





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102418\
Data File : VU027794.D
Acq On : 24 Oct 2018 19:00
Operator : MD/SY
Sample : J5599-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H1A02

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0

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: Cyc...	6.39	0.7	ug/L	12301	1	5.89	93104	5.0
(DEL) Alkane: Cyc...	6.74	1.0	ug/L	18718	1	5.89	93104	5.0
(DEL) Alkane: Cyc...	7.71	0.9	ug/L	22697	2	9.09	119322	5.0
(DEL) Alkane: Cyc...	7.92	4.6	ug/L	110798	2	9.09	119322	5.0
(DEL) Alkane: Cyc...	8.49	1.0	ug/L	24086	2	9.09	119322	5.0
(DEL) Alkane: Cyc...	8.65	1.4	ug/L	32216	2	9.09	119322	5.0
Pentalene, octahy...	9.19	0.8	ug/L	17863	2	9.09	119322	5.0
(DEL) Alkane: Cyc...	9.25	0.7	ug/L	17009	2	9.09	119322	5.0
Bicyclo[3.2.1]octane	9.37	4.3	ug/L	102013	2	9.09	119322	5.0
4-Ethylcyclohexene	9.57	2.3	ug/L	55086	2	9.09	119322	5.0
unknown-01	9.75	6.5	ug/L	155115	2	9.09	119322	5.0
(DEL) Alkane: Cyc...	9.80	0.9	ug/L	21479	2	9.09	119322	5.0
Bicyclo[3.1.1]hep...	9.91	2.0	ug/L	47902	2	9.09	119322	5.0
Cyclohexane, meth...	9.95	1.2	ug/L	27903	2	9.09	119322	5.0
unknown-02	10.05	1.9	ug/L	44644	2	9.09	119322	5.0
1-Methylcyclooctene	10.12	1.0	ug/L	24350	2	9.09	119322	5.0
Cis-bicyclo[4.2.0...	10.21	1.8	ug/L	42272	2	9.09	119322	5.0
Ethylidenecyclohe...	10.38	3.1	ug/L	74730	3	11.48	121667	5.0
unknown-03	10.49	1.1	ug/L	25552	3	11.48	121667	5.0
2-C14H26	10.56	0.5	ug/L	12745	3	11.48	121667	5.0
Cyclohexanol, 4-s...	10.70	1.0	ug/L	24385	3	11.48	121667	5.0
m-Menth-6-ene, (R...	10.77	0.7	ug/L	17112	3	11.48	121667	5.0
trans-2-Methyl-4-...	10.86	0.8	ug/L	19612	3	11.48	121667	5.0
Cyclooctene, 3-me...	10.98	1.5	ug/L	36912	3	11.48	121667	5.0
Benzene, tert-butyl-	11.10	1.6	ug/L	40240	3	11.48	121667	5.0
Cyclohexane, 1-me...	11.15	0.6	ug/L	13636	3	11.48	121667	5.0
Cyclohexene, 1-bu...	11.28	2.5	ug/L	62071	3	11.48	121667	5.0
Cyclopentene, 1,4...	11.60	0.9	ug/L	21513	3	11.48	121667	5.0
Benzene, (1-ethyl...	12.22	1.5	ug/L	36474	3	11.48	121667	5.0
Adamantane	12.30	3.1	ug/L	74619	3	11.48	121667	5.0
unknown-04	12.49	1.5	ug/L	36354	3	11.48	121667	5.0
1H-Indene, 2,3-di...	12.54	7.8	ug/L	188495	3	11.48	121667	5.0
Benzene, 1-methyl...	12.62	1.8	ug/L	43370	3	11.48	121667	5.0
1H-Indene, 2,3-di...	12.79	2.7	ug/L	66603	3	11.48	121667	5.0
2,2-Dimethylinden...	12.92	5.0	ug/L	121065	3	11.48	121667	5.0
1H-Indene, 2,3-di...	13.00	3.9	ug/L	93663	3	11.48	121667	5.0
Naphthalene, 1,2,...	13.07	1.2	ug/L	29749	3	11.48	121667	5.0
Benzene, 1-methyl...	13.20	0.9	ug/L	20887	3	11.48	121667	5.0