LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

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_V\METHOD\SOMVTR111519WMA.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	1.225	35	42	54	rBV	3482697	3093073	1.13%	0.109%
2	1.319	62	71	78	rBV	17253939	16788796	6.15%	0.592%
3	1.643	162	172	206	rVV3	107638403	171855378	62.91%	6.059%
4	1.782	207	215	220	rVV	4981653	6161611	2.26%	0.217%
5	1.820	220	227	248	rVV4	53405022	77010129	28.19%	2.715%
6	1.920	248	258	268	rVV	16268788	21003451	7.69%	0.740%
7	2.000	268	283	289	rVV	7882182	11054643	4.05%	0.390%
8	2.042	289	296	314	rVV	12790218	17992878	6.59%	0.634%
9	2.151	315	330	374	rVB	17708823	31107157	11.39%	1.097%
10	2.470	410	429	434	rBV4	3185331	6881496	2.52%	0.243%
11	2.524	435	446	450	rVV3	23748377	44270818	16.21%	1.561%
12	2.560	452	457	465	rVV2	32547445	56316943	20.62%	1.986%
13	2.605	465	471	510	rVB2	22717279	46128224	16.89%	1.626%
14	2.791	511	529	570	rVB	29918293	62127957	22.74%	2.190%
15	2.974	570	586	602	rBV4	4126126	9182489	3.36%	0.324%
16	3.074	602	617	636	rVB	8611105	16898022	6.19%	0.596%
17	3.190	637	653	662	rBV	4809206	9747443	3.57%	0.344%
18	3.257	662	674	682	rBV	8472812	17126322	6.27%	0.604%
19	3.309	683	690	705	rVB	7801352	15801830	5.78%	0.557%
20	3.405	705	720	731	rBV	5608002	12555241	4.60%	0.443%
21	3.489	731	746	758	rBV4	6695214	17595122	6.44%	0.620%
22	3.621	775	787	802	rVB	6305207	14391171	5.27%	0.507%
23	3.714	803	816	828	rVV	2086467	5097646	1.87%	0.180%
24	3.814	828	847	863	rVV2	37681579	100491122	36.79%	3.543%
25	3.894	863	872	929	rVB2	2285577	6703673	2.45%	0.236%
26	4.450	1015	1045	1050	rBV6	901685	3080739	1.13%	0.109%
27	4.505	1052	1062	1079	rVB	3257109	7601051	2.78%	0.268%
28	4.730	1113	1132	1146	rVV2	22467120	57066686	20.89%	2.012%
29	4.814	1146	1158	1185	rVB2	5600089	16490106	6.04%	0.581%
30	4.955	1185	1202	1227	rBV3	1659024	5993276	2.19%	0.211%
31	5.145	1235	1261	1275	rBV	18278670	41304851	15.12%	1.456%
32	5.225	1275	1286	1292	rVV3	3280284	7457792	2.73%	0.263%
33	5.277	1293	1302	1319	rVV6	5657325	17488000	6.40%	0.617%
34	5.367	1319	1330	1345	rVB3	2382453	5344517	1.96%	0.188%

LSC Area Percent Report

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Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

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_V\METHOD\SOMVTR111519WMA.M
Title : TRACE VOA SOM01.0

35	5.704	1411	1435	1461	rBV6	3638071	13135882	4.81%	0.463%
36	5.981	1505	1521	1550	rBV4	2329587	5056228	1.85%	0.178%
37	6.174	1550	1581	1597	rBV4	7504964	20059613	7.34%	0.707%
38	6.405	1642	1653	1668	rVB	1465223	2741812	1.00%	0.097%
39	6.694	1730	1743	1763	rVB	1374188	3091827	1.13%	0.109%
40	6.842	1764	1789	1801	rBV	6810383	14973972	5.48%	0.528%
41	7.209	1884	1903	1917	rVB2	3109997	6549053	2.40%	0.231%
42	7.447	1958	1977	1994	rBV3	71930356	167439120	61.30%	5.903%
43	7.881	2103	2112	2135	rVB	1536014	2771646	1.01%	0.098%
44	9.074	2460	2483	2500	rBV3	87337476	190703594	69.81%	6.723%
45	9.604	2620	2648	2678	rVB3	85172070	166970529	61.13%	5.887%
46	9.974	2750	2763	2780	rBV	12576604	19308443	7.07%	0.681%
47	10.399	2880	2895	2910	rBV2	35844796	61314754	22.45%	2.162%
48	10.508	2910	2929	2945	rVV3	82870696	234002069	85.66%	8.250%
49	10.591	2945	2955	2968	rVB3	56018394	90701459	33.20%	3.198%
50	10.788	3000	3016	3043	rVB2	49135424	82861076	30.33%	2.921%
51	10.984	3056	3077	3087	rBV3	123235169	273162189	100.00%	9.631%
52	11.241	3144	3157	3165	rBV	2398083	3789031	1.39%	0.134%
53	11.292	3165	3173	3188	rVB3	1760267	2773226	1.02%	0.098%
54	11.386	3188	3202	3213	rBV2	49831940	82785903	30.31%	2.919%
55	11.579	3247	3262	3271	rBV3	39944663	73451533	26.89%	2.590%
56	11.617	3271	3274	3283	rVV	9918710	12171288	4.46%	0.429%
57	11.681	3283	3294	3310	rVB3	16459666	33693711	12.33%	1.188%
58	11.791	3317	3328	3339	rVB	3719375	5605122	2.05%	0.198%
59	11.861	3339	3350	3367	rVB	5314011	7971378	2.92%	0.281%
60	11.955	3367	3379	3384	rBV	12935377	19708475	7.21%	0.695%
61	11.987	3385	3389	3400	rVB	10612929	13512023	4.95%	0.476%
62	12.061	3400	3412	3419	rBV	18757359	29238440	10.70%	1.031%
63	12.161	3432	3443	3463	rBV2	14428405	24755392	9.06%	0.873%
64	12.360	3492	3505	3517	rVB	5397302	8512095	3.12%	0.300%
65	12.460	3517	3536	3543	rBV	15554815	23657763	8.66%	0.834%
66	12.511	3543	3552	3567	rVB	20521081	30346416	11.11%	1.070%
67	12.768	3623	3632	3648	rVB	15756044	23890229	8.75%	0.842%
68	12.929	3661	3682	3693	rBV2	29256372	47305428	17.32%	1.668%
69	12.990	3693	3701	3711	rVB2	2975802	4623615	1.69%	0.163%
70	13.093	3723	3733	3753	rVB3	4133429	6951135	2.54%	0.245%
71	13.260	3776	3785	3793	rVB	2434792	3621348	1.33%	0.128%

LSC Area Percent Report

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Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

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_V\METHOD\SOMVTR111519WMA.M
Title : TRACE VOA SOM01.0

72	13.315	3793	3802	3808	rBV2	2948009	4411524	1.61%	0.156%
73	13.546	3855	3874	3886	rBV	19367550	31068762	11.37%	1.095%
74	13.951	3989	4000	4015	rBV	1789868	2876963	1.05%	0.101%
75	14.132	4047	4056	4068	rBV2	1513276	2992885	1.10%	0.106%
76	14.675	4214	4225	4242	rBV	9467975	14368903	5.26%	0.507%
77	14.861	4271	4283	4296	rBV	5308044	8255556	3.02%	0.291%

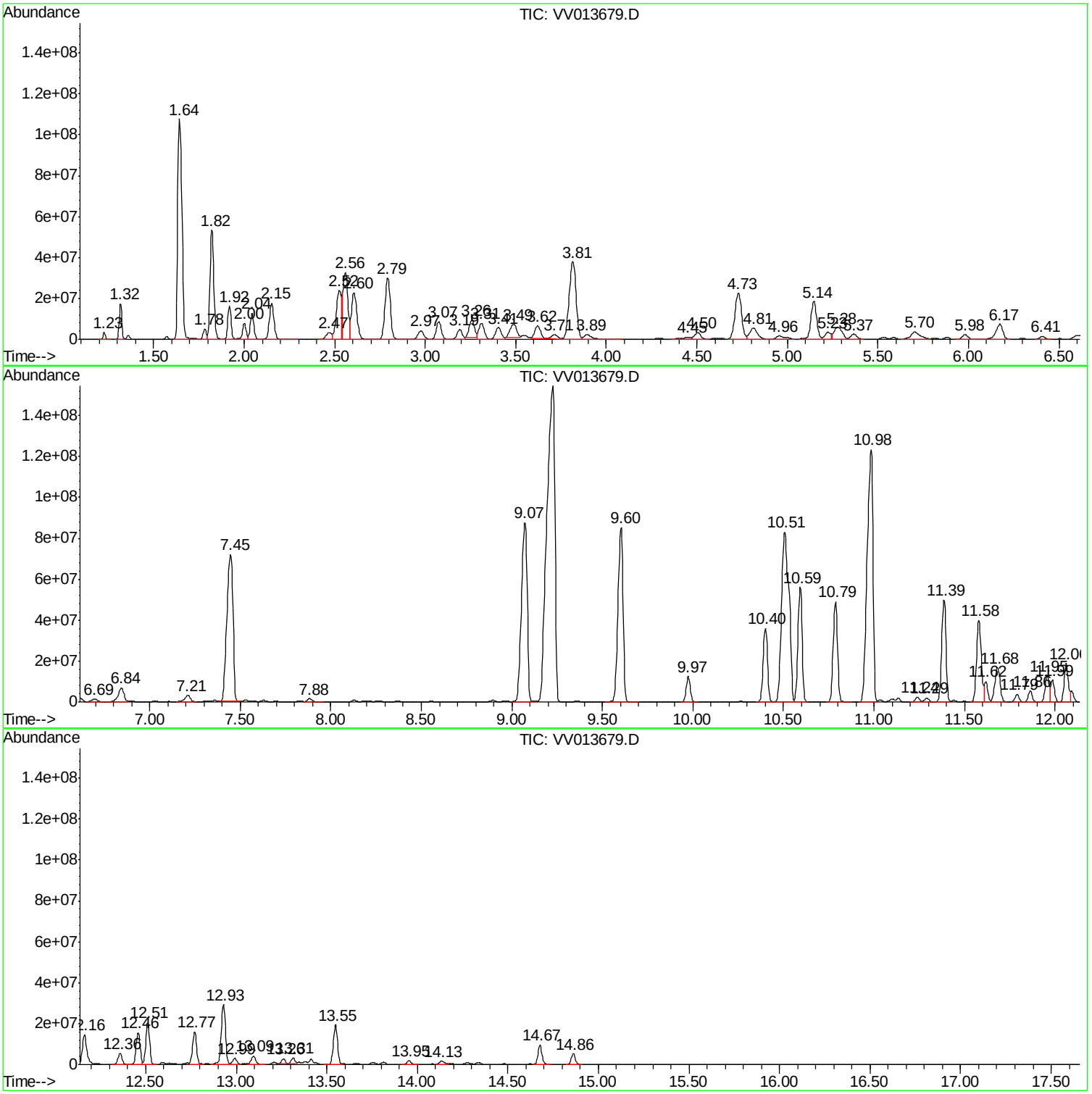
Sum of corrected areas: 2836391063

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

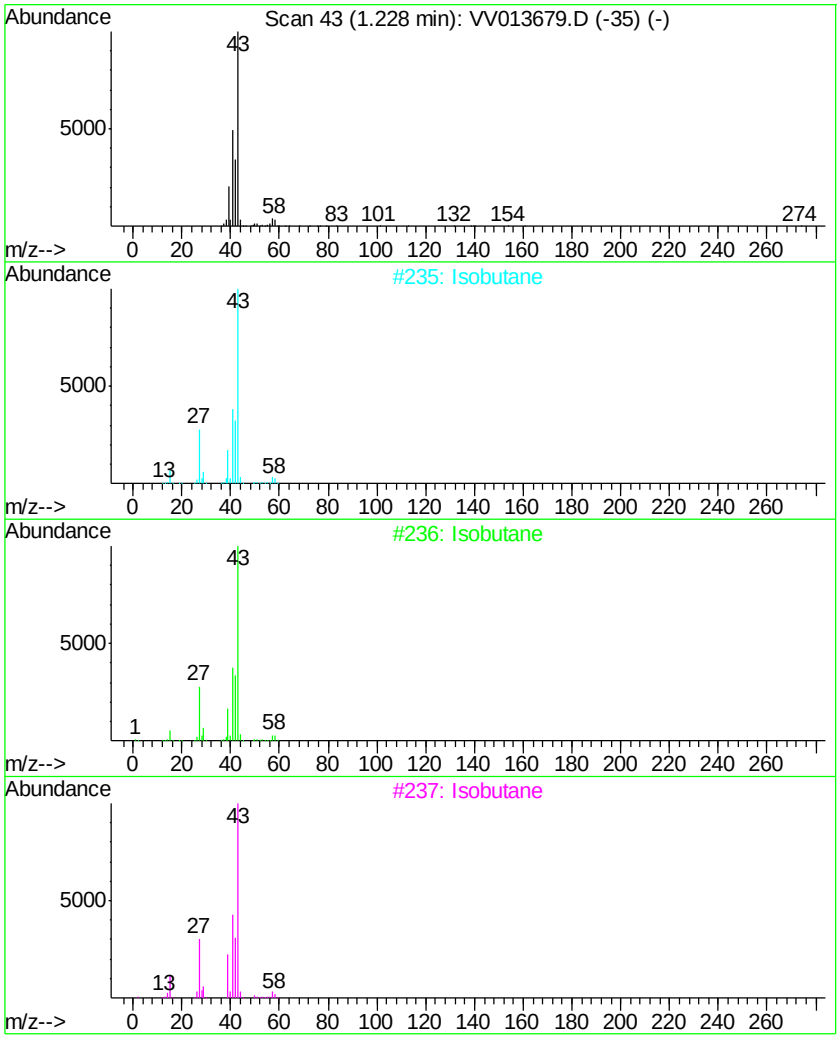
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

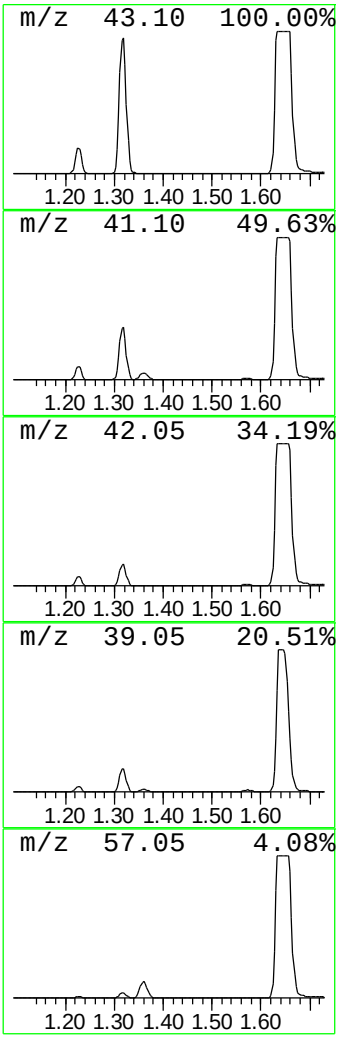
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.23	1.18 ug/L	3093070	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	72
2	Isobutane	58	C4H10	000075-28-5	72
3	Isobutane	58	C4H10	000075-28-5	64
4	Isobutane	58	C4H10	000075-28-5	59
5	Propane, 2-nitro-	89	C3H7NO2	000079-46-9	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

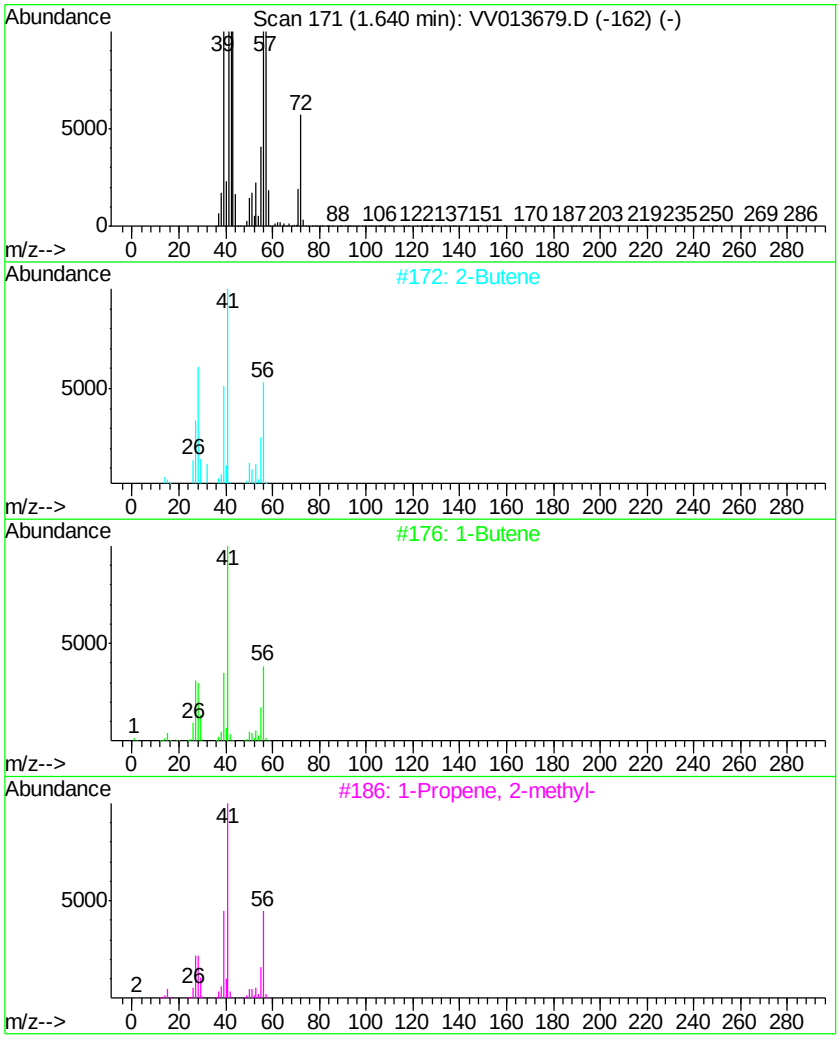
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

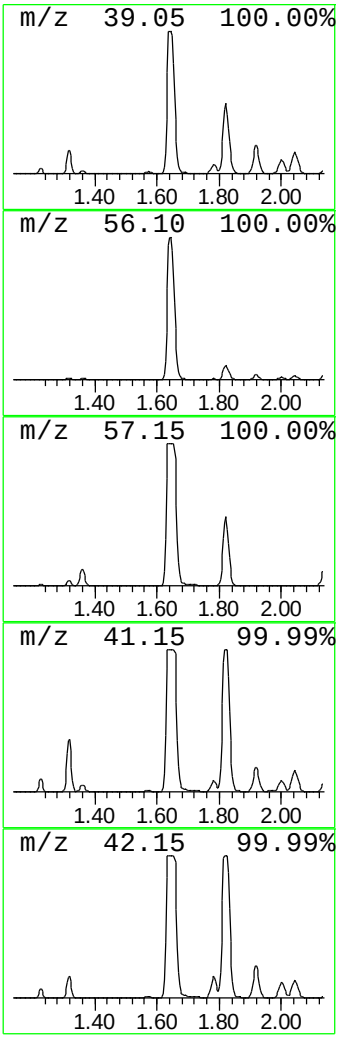
****

Peak Number 2 (DEL) Alkane: Cyclic1.64 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.64	65.41 ug/L	171855000	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene	56	C4H8	000107-01-7	53
2	1-Butene	56	C4H8	000106-98-9	53
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	53
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	42
5	Pentane	72	C5H12	000109-66-0	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

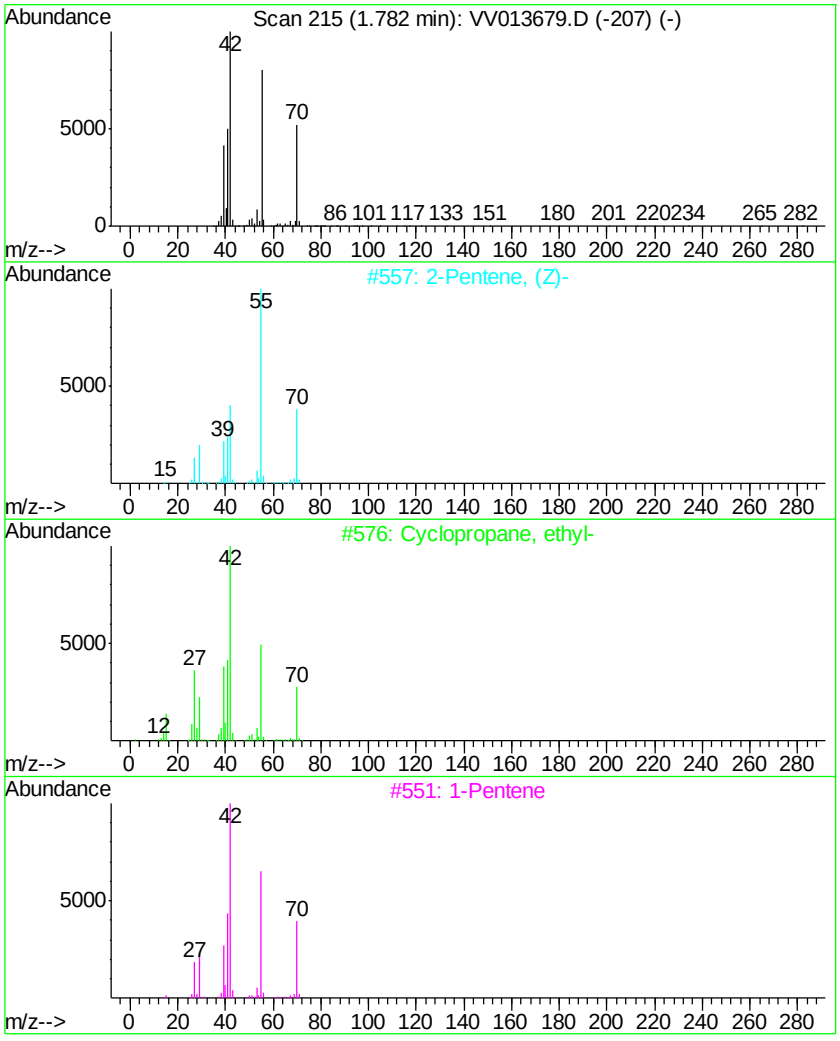
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

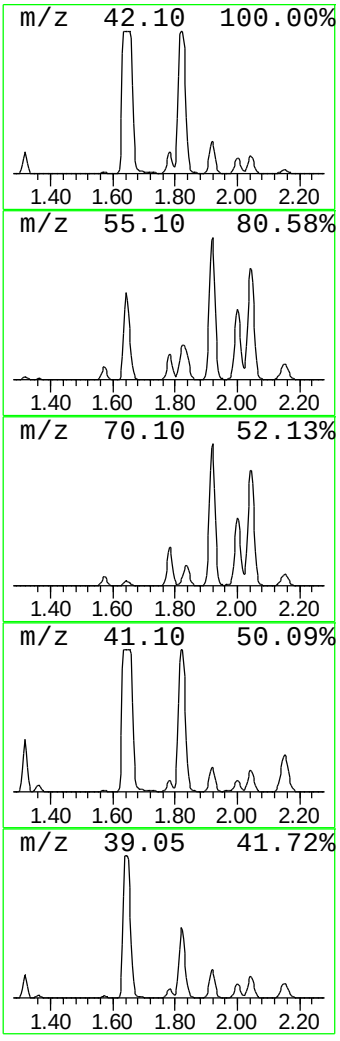
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Cyclic1.78 Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	2.35 ug/L	6161610	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, (Z)-	70	C5H10	000627-20-3	83
2	Cyclopropane, ethyl-	70	C5H10	001191-96-4	78
3	1-Pentene	70	C5H10	000109-67-1	74
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	72
5	Cyclobutane, methyl-	70	C5H10	000598-61-8	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

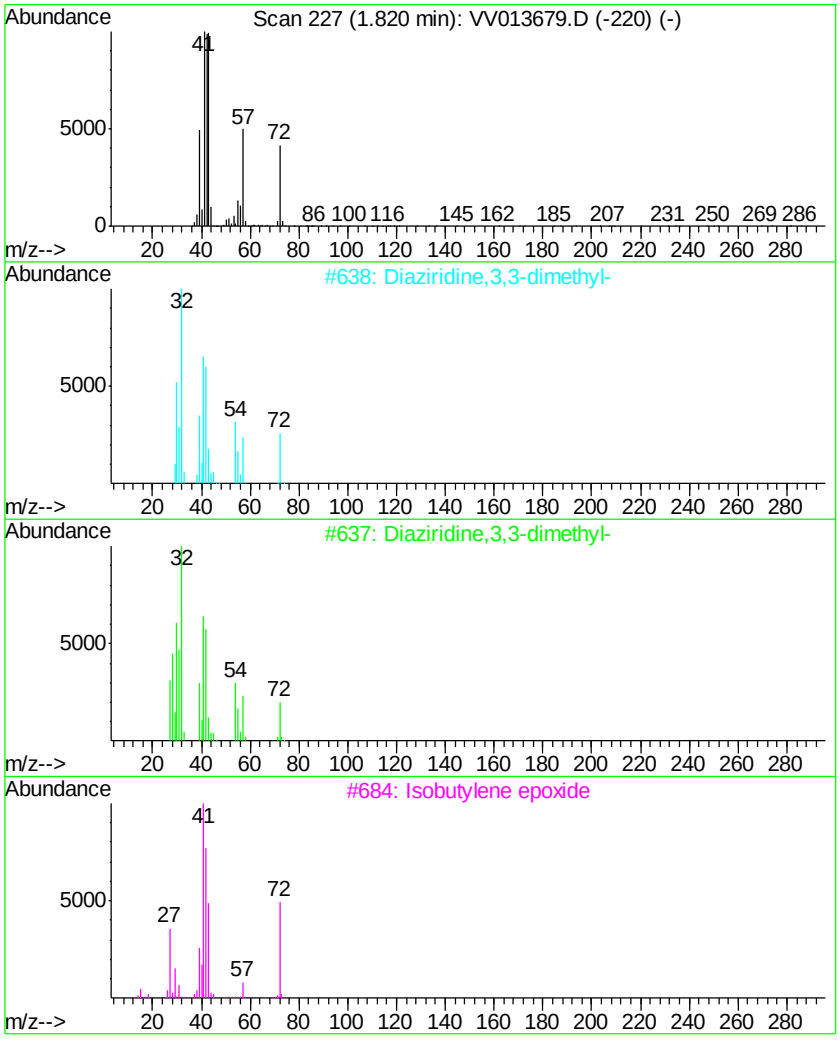
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

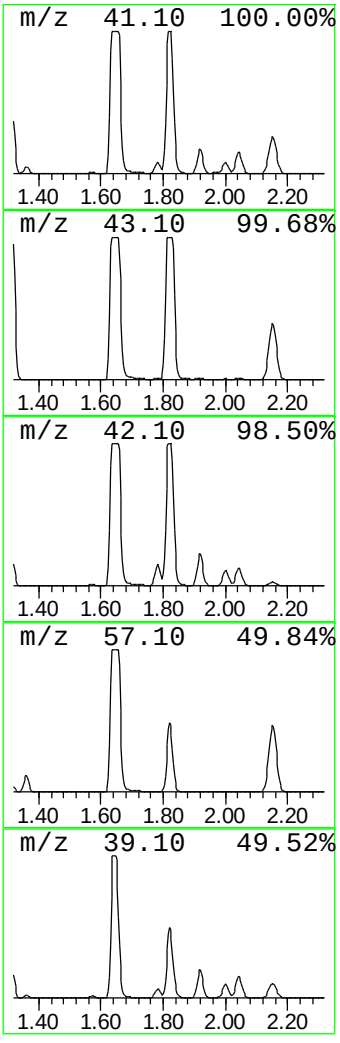
****

Peak Number 4 Diaziridine,3,3-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.82	29.31 ug/L	77010100	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	86
2	Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	56
3	Isobutylene epoxide	72	C4H8O	000558-30-5	53
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	47
5	Isobutylene epoxide	72	C4H8O	000558-30-5	47





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Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

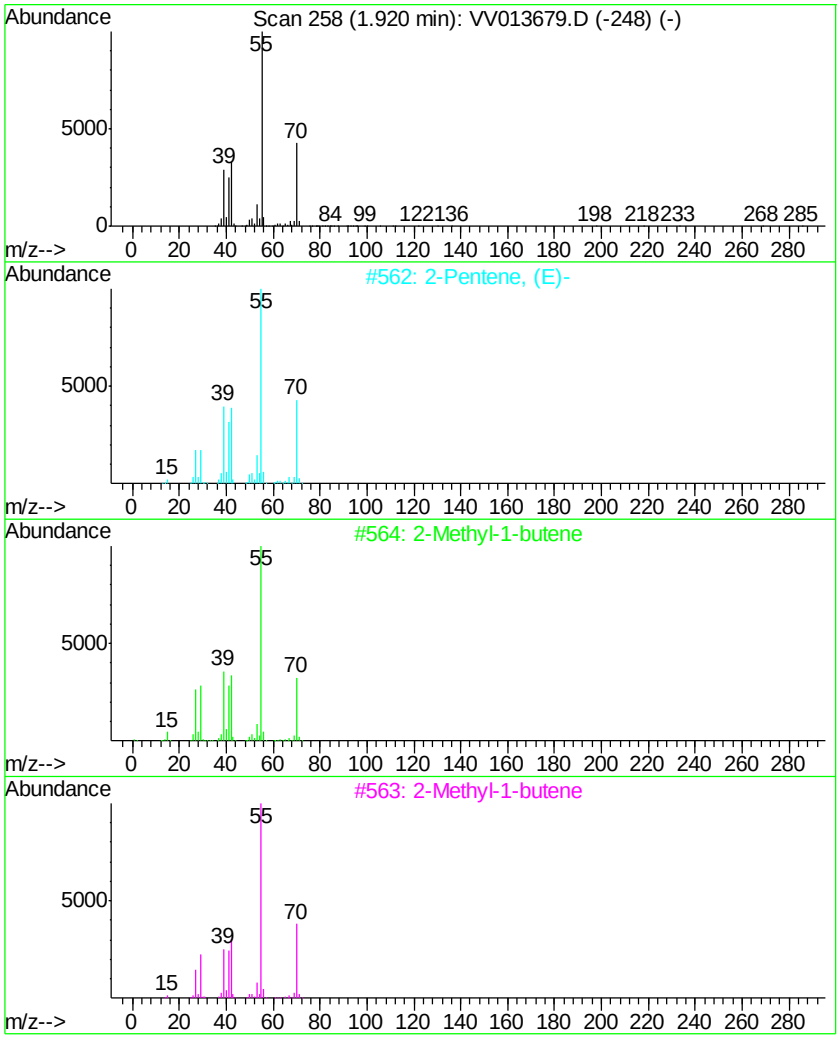
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

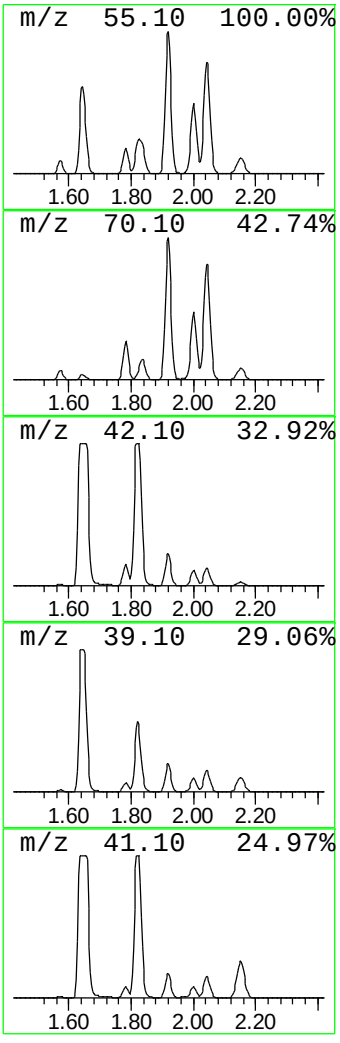
****

Peak Number 5 (DEL) Alkane: Cyclic1.92 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.92	7.99 ug/L	21003500	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, (E)-	70	C5H10	000646-04-8	94
2	2-Methyl-1-butene	70	C5H10	000563-46-2	91
3	2-Methyl-1-butene	70	C5H10	000563-46-2	91
4	2-Pentene, (Z)-	70	C5H10	000627-20-3	91
5	2-Pentene	70	C5H10	000109-68-2	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

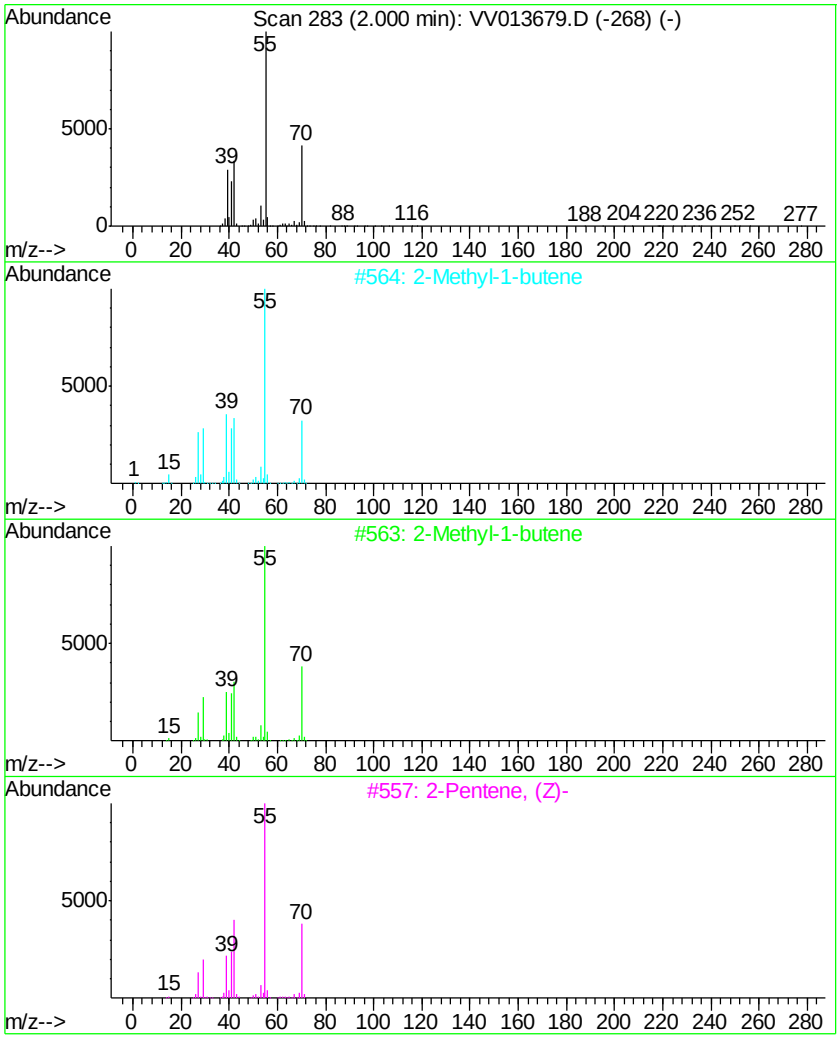
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

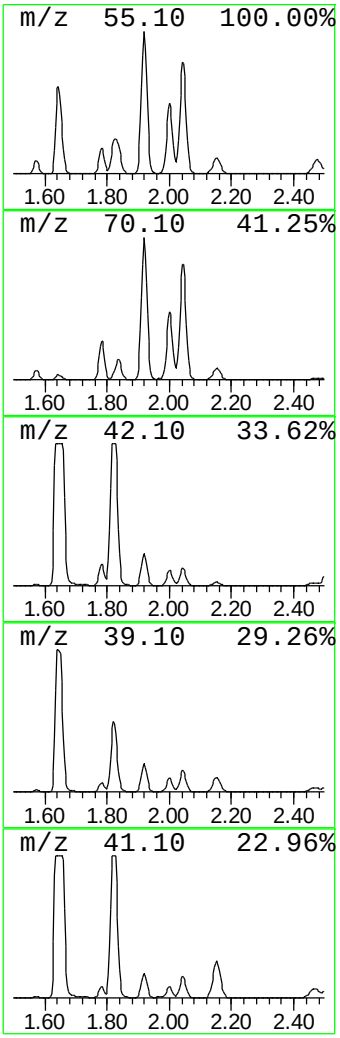
****

Peak Number 6 (DEL) Alkane: Cyclic2.00 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.00	4.21 ug/L	11054600	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-1-butene	70	C5H10	000563-46-2	91
2	2-Methyl-1-butene	70	C5H10	000563-46-2	91
3	2-Pentene, (Z)-	70	C5H10	000627-20-3	90
4	2-Pentene, (E)-	70	C5H10	000646-04-8	90
5	2-Pentene, (Z)-	70	C5H10	000627-20-3	90





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

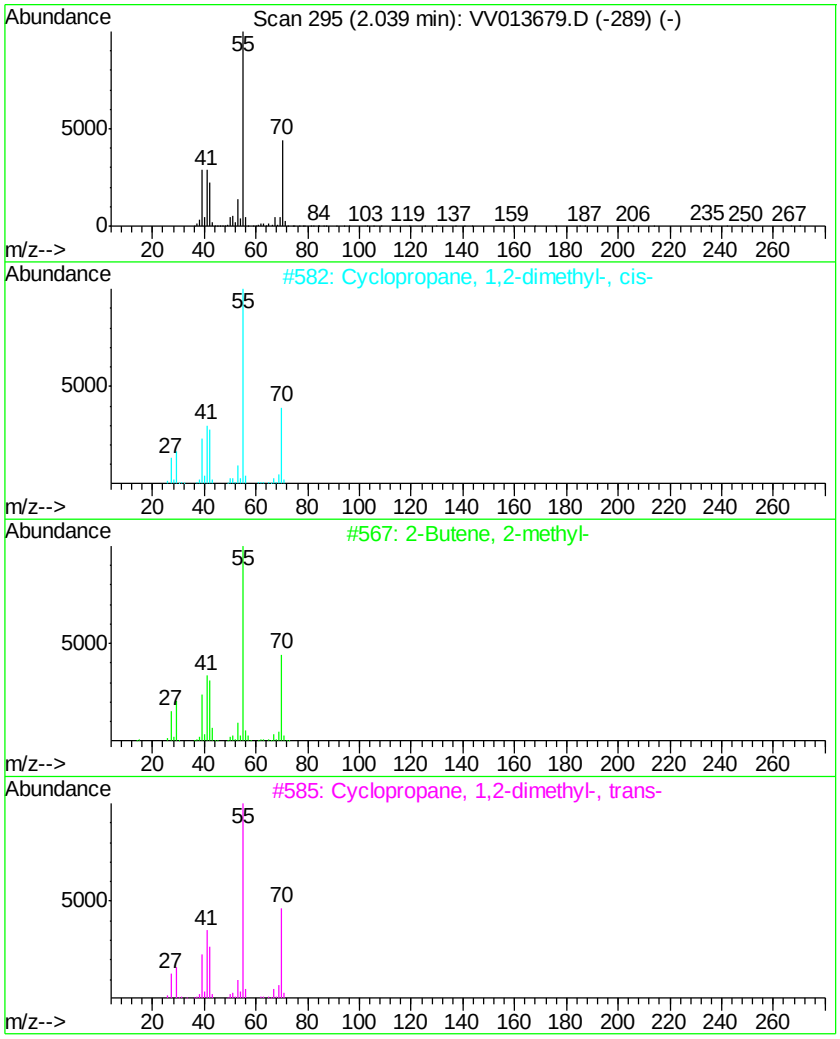
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

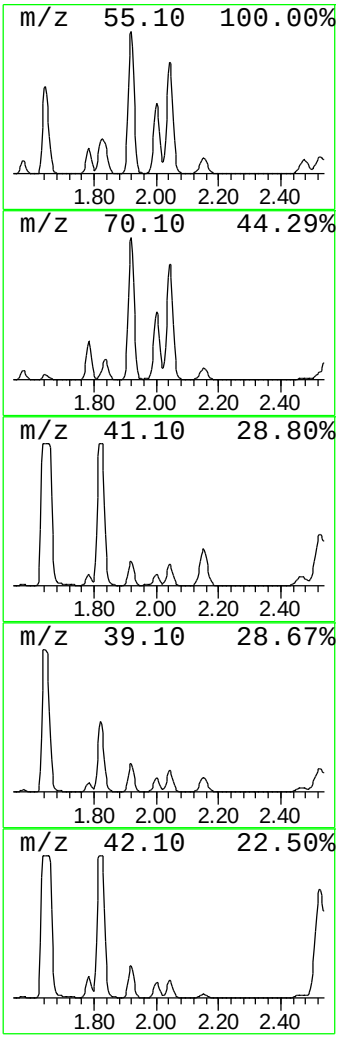
****

Peak Number 7 (DEL) Alkane: Cyclic2.04 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.04	6.85 ug/L	17992900	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	91
2	2-Butene, 2-methyl-	70	C5H10	000513-35-9	90
3	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	87
4	2-Methyl-1-butene	70	C5H10	000563-46-2	83
5	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	83





Library Search Compound Report

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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

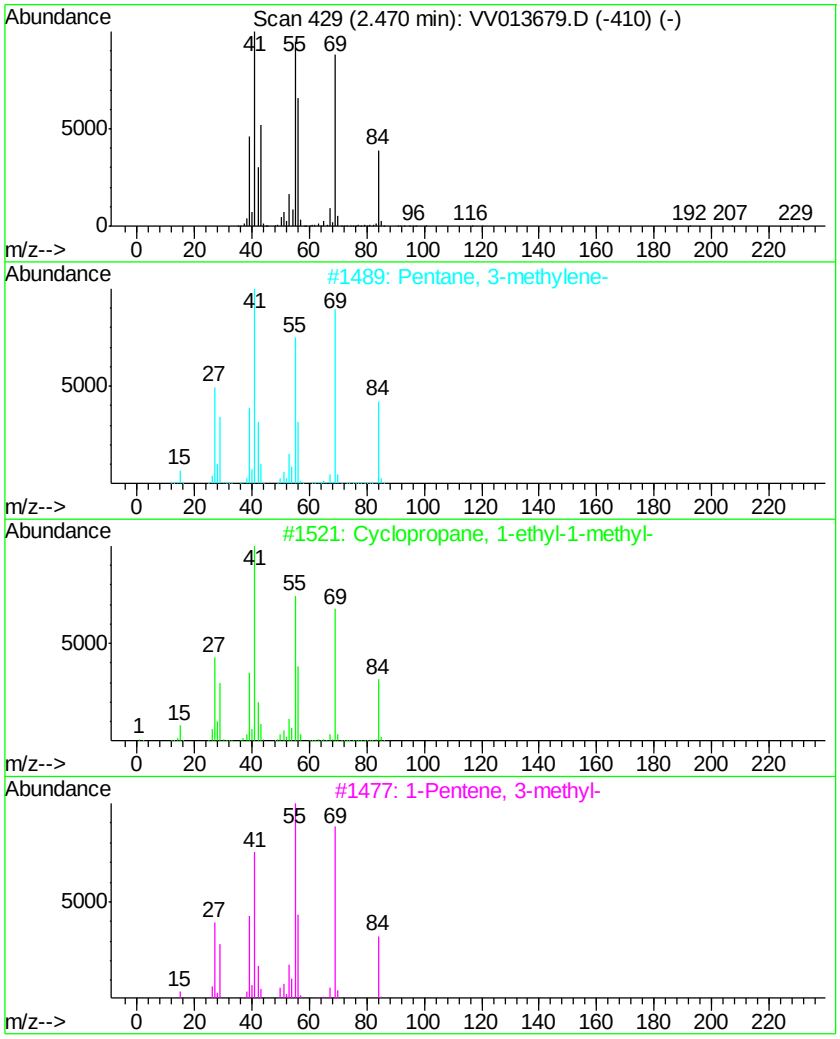
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

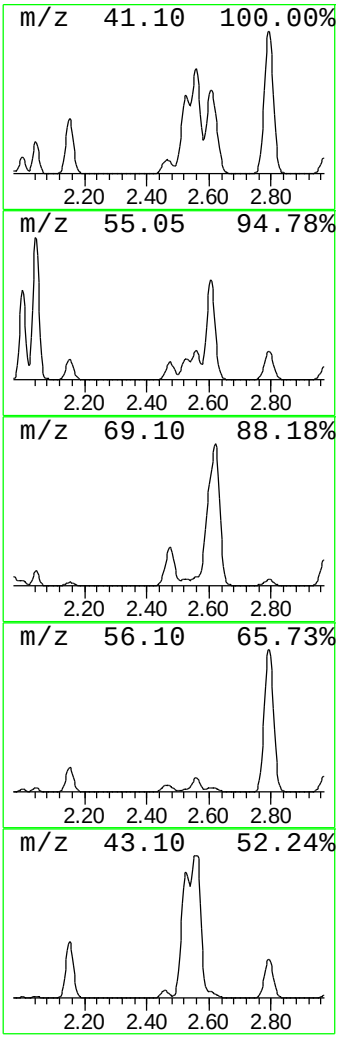
****

Peak Number 8 (DEL) Alkane: Cyclic2.47 Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.47	2.62 ug/L	6881500	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methylene-	84	C6H12	000760-21-4	93
2	Cyclopropane, 1-ethyl-1-methyl-	84	C6H12	053778-43-1	93
3	1-Pentene, 3-methyl-	84	C6H12	000760-20-3	91
4	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	76
5	1-Pentene, 3-methyl-	84	C6H12	000760-20-3	76





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

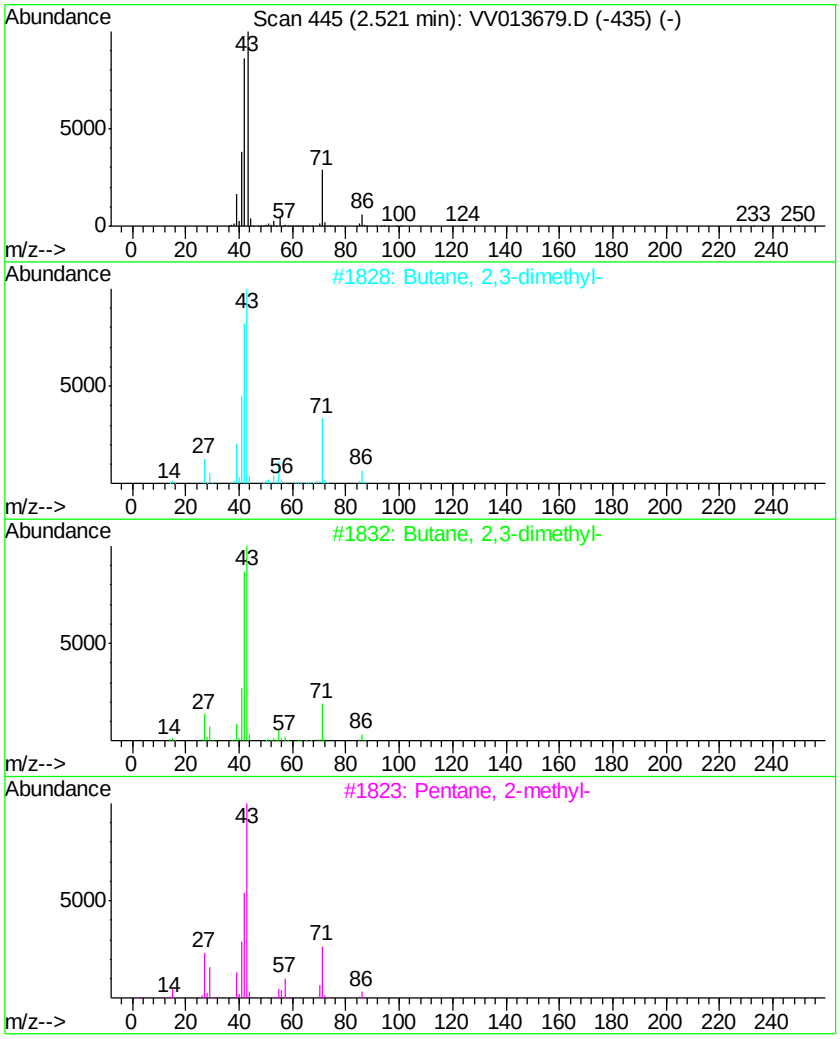
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

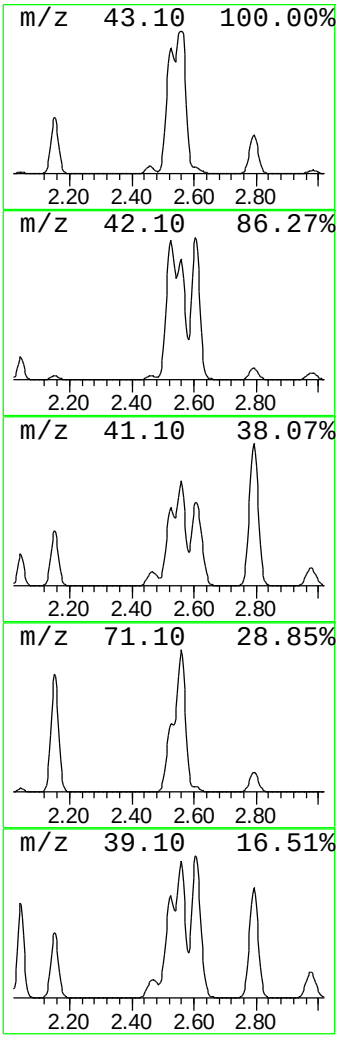
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.52	16.85 ug/L	44270800	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	46
5	Pentane	72	C5H12	000109-66-0	45





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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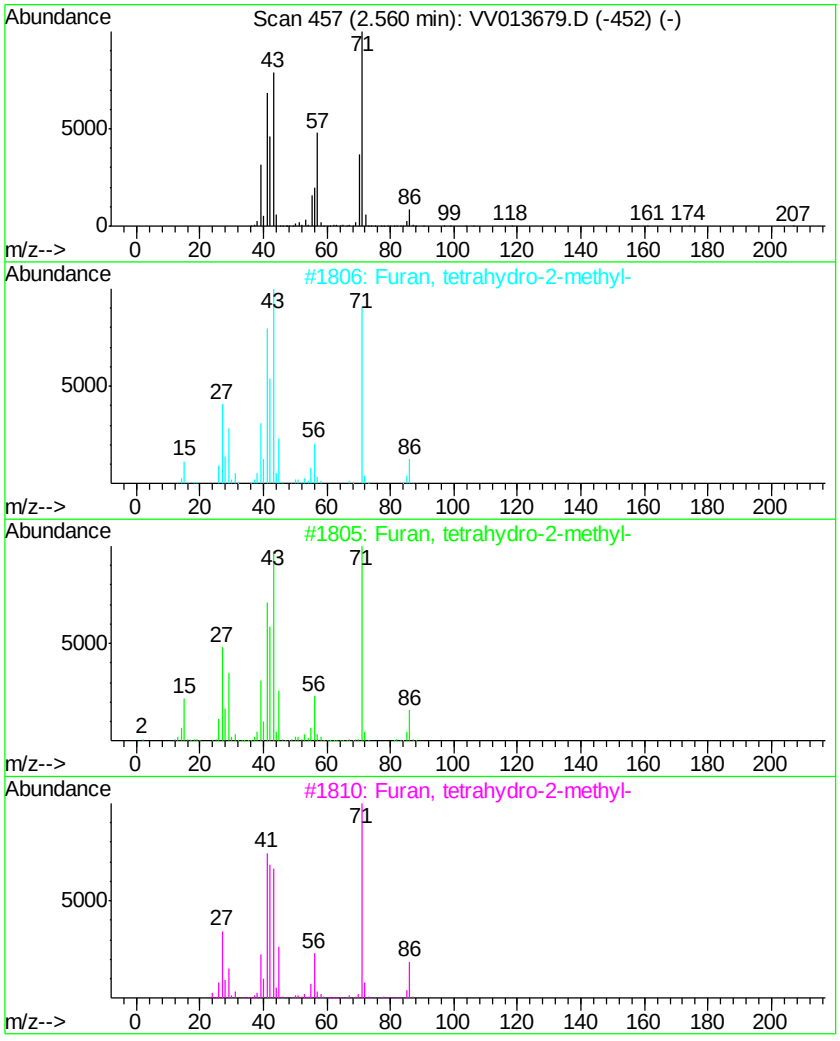
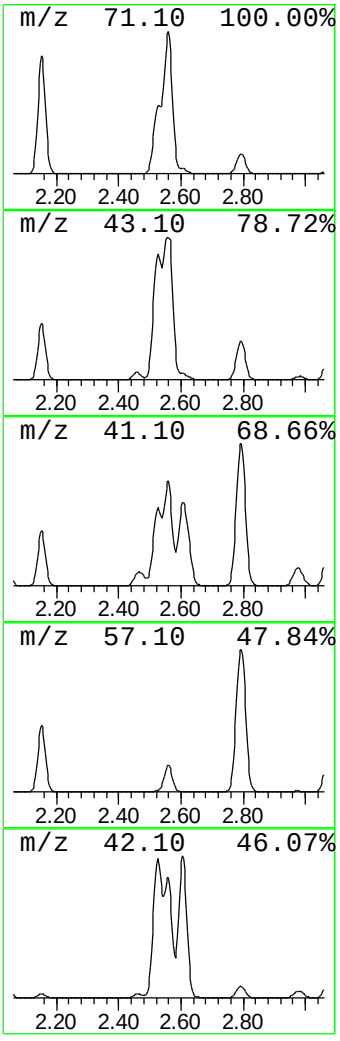
Peak Number 10 Furan, tetrahydro-2-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.56	21.44 ug/L	56316900	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	83
2	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	72
3	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	64
4	Hydroxylamine, O-(2-methylpropyl)-	89	C4H11NO	005618-62-2	50
5	3-Penten-2-ol	86	C5H10O	001569-50-2	49





Library Search Compound Report

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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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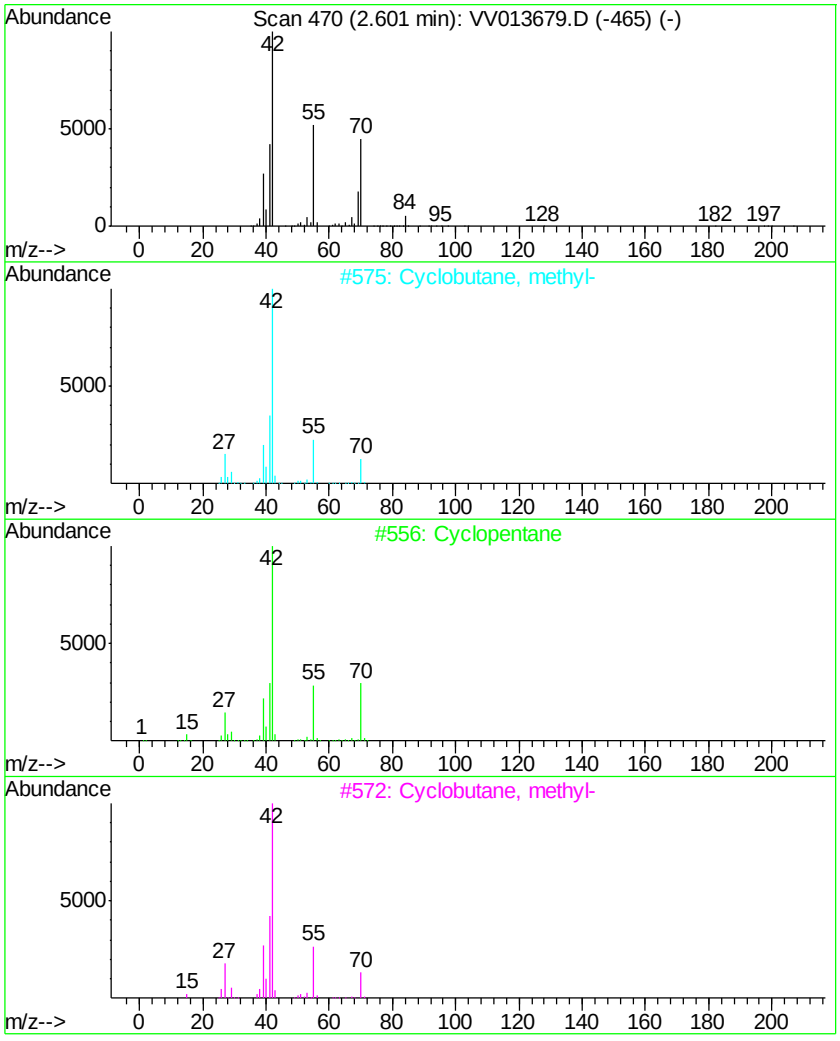
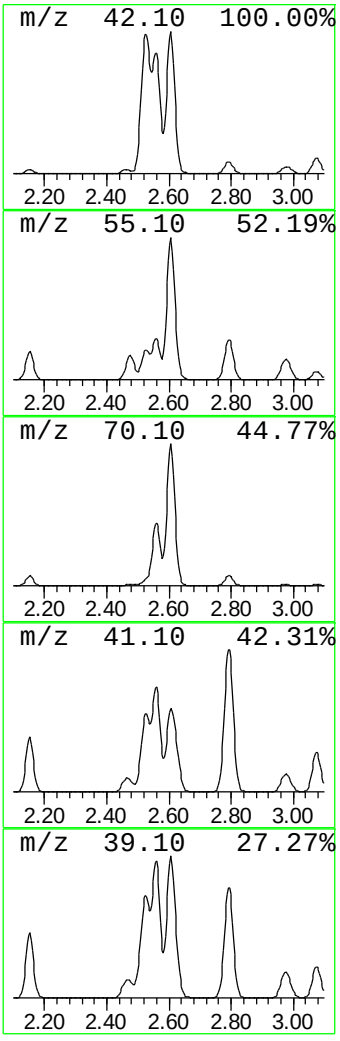
Peak Number 11 (DEL) Alkane: Cyclic2.60 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.60	17.56 ug/L	46128200	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, methyl-	70	C5H10	000598-61-8	80
2	Cyclopentane	70	C5H10	000287-92-3	72
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	72
4	1-Pentene	70	C5H10	000109-67-1	64
5	1-Pentene	70	C5H10	000109-67-1	59





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

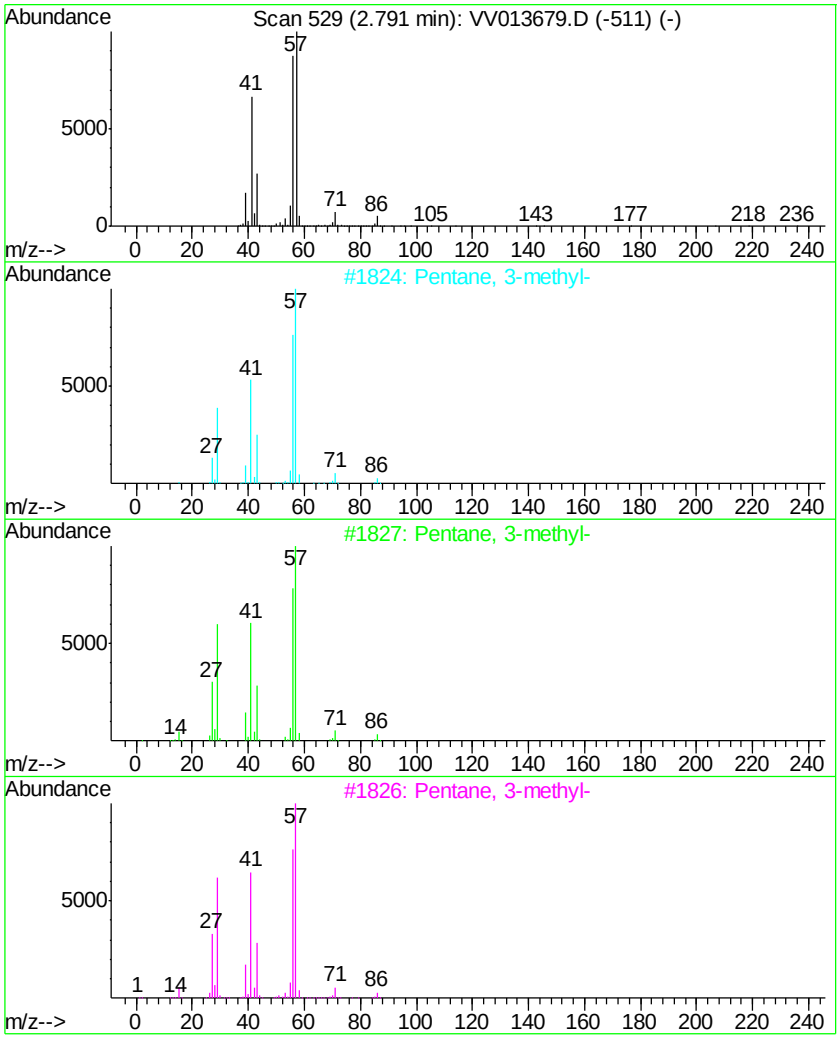
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

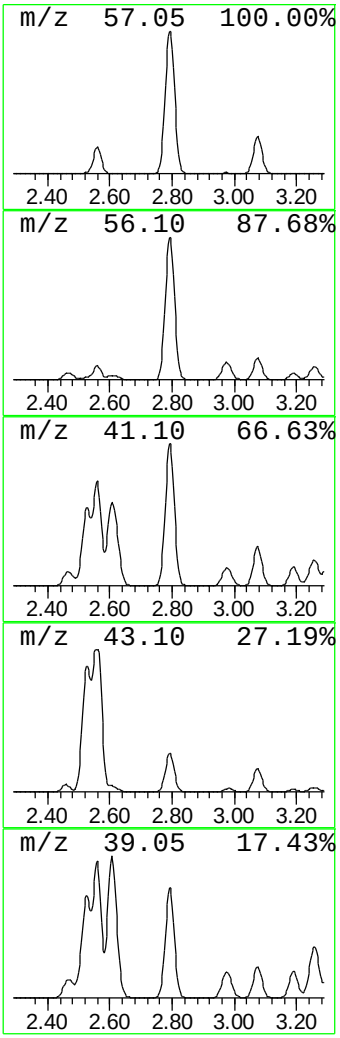
****

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.79	23.65 ug/L	62128000	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
4	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	78
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

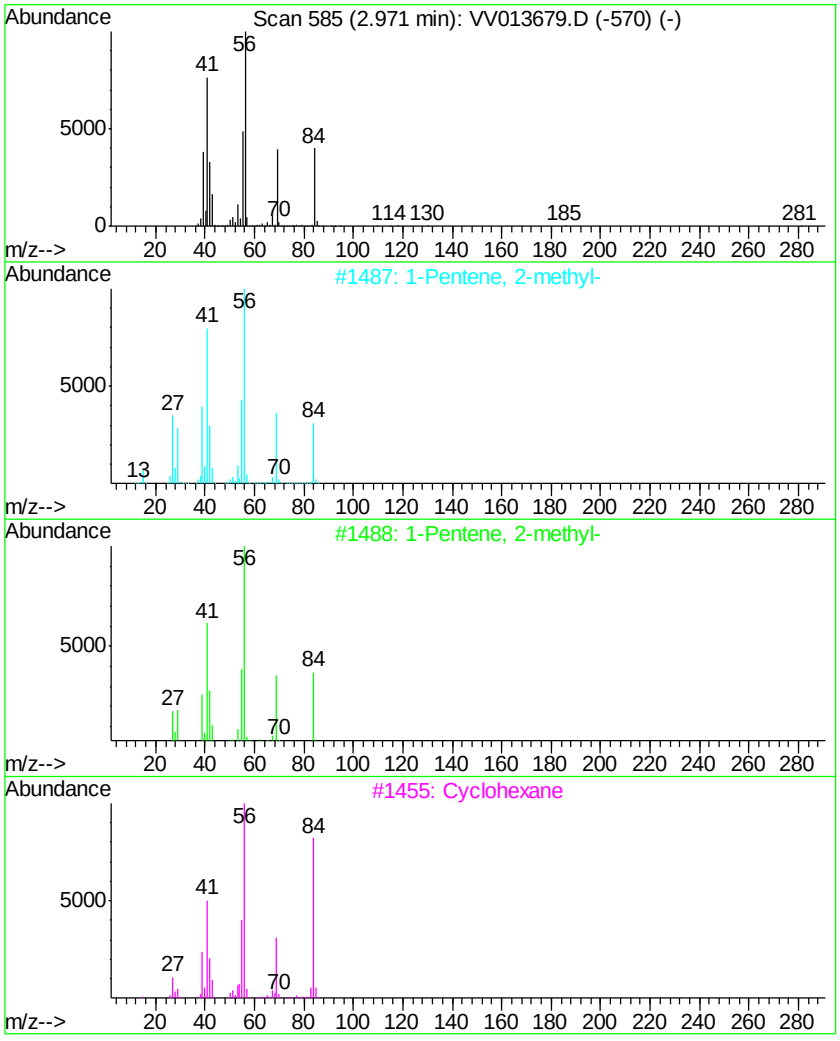
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

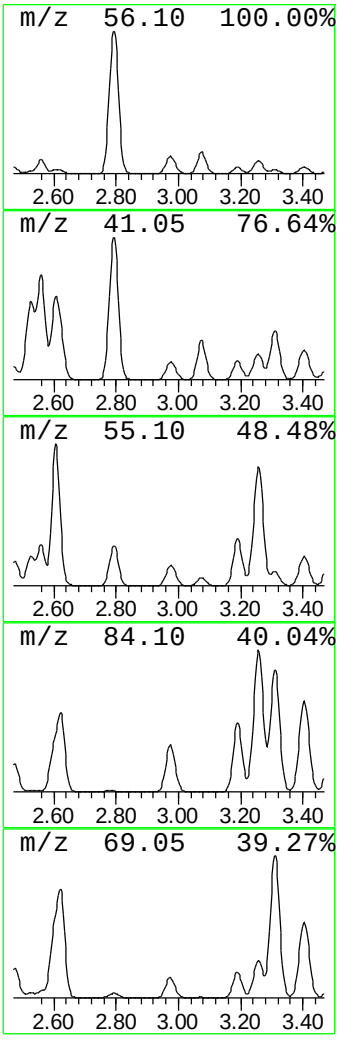
****

Peak Number 13 (DEL) Alkane: Cyclic2.97 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.97	3.50 ug/L	9182490	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	91
2	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	81
3	Cyclohexane	84	C6H12	000110-82-7	72
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	64
5	Cyclohexane	84	C6H12	000110-82-7	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

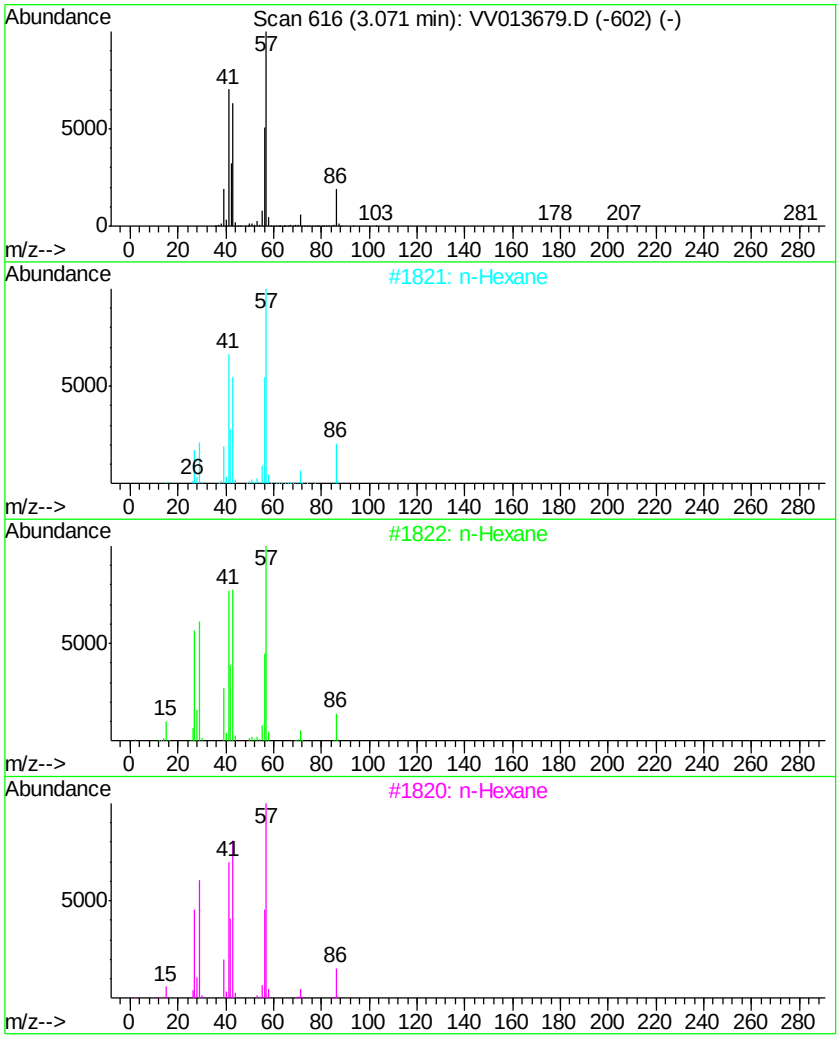
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

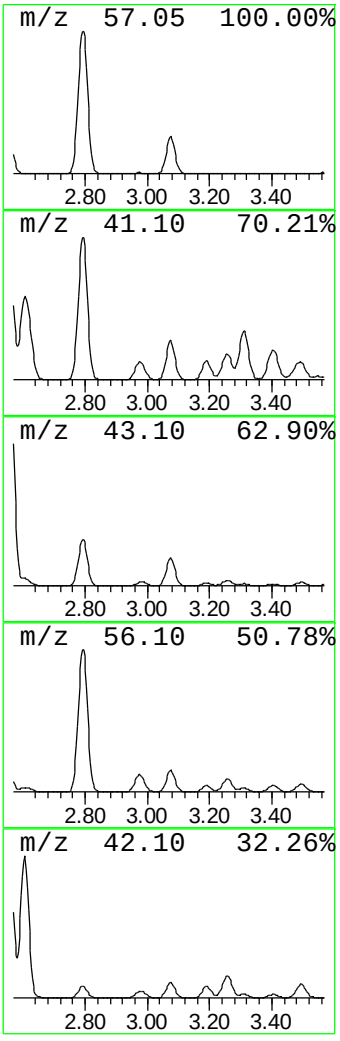
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	6.43 ug/L	16898000	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	94
2	n-Hexane	86	C6H14	000110-54-3	78
3	n-Hexane	86	C6H14	000110-54-3	59
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	50
5	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	38





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

****
Peak Number 15 (DEL) Alkane: Cyclic3.19 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.19	3.71 ug/L	9747440	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene	84	C6H12	000592-47-2	91
2	3-Hexene, (E)-	84	C6H12	013269-52-8	91
3	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
4	3-Hexene, (E)-	84	C6H12	013269-52-8	91
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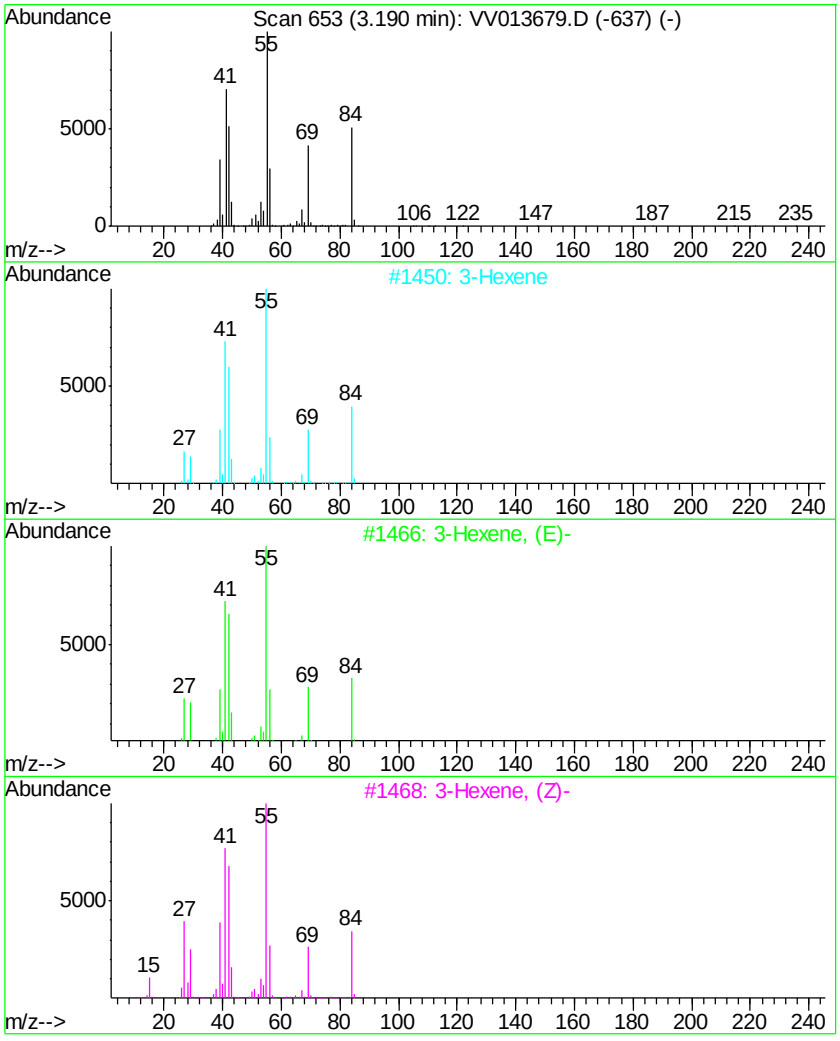

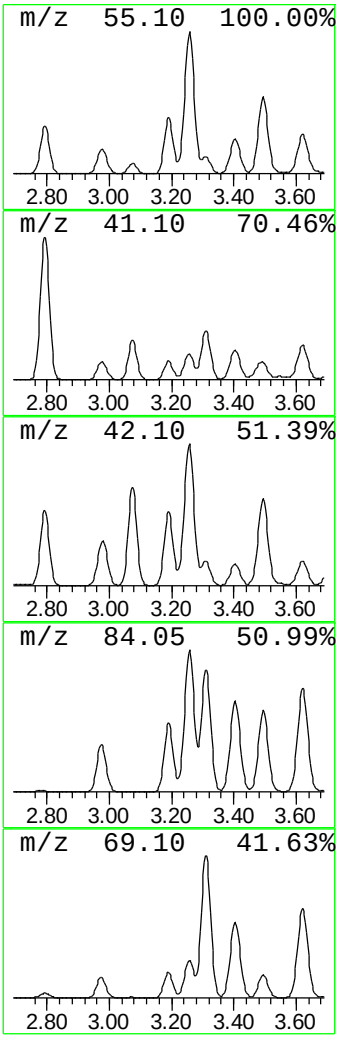

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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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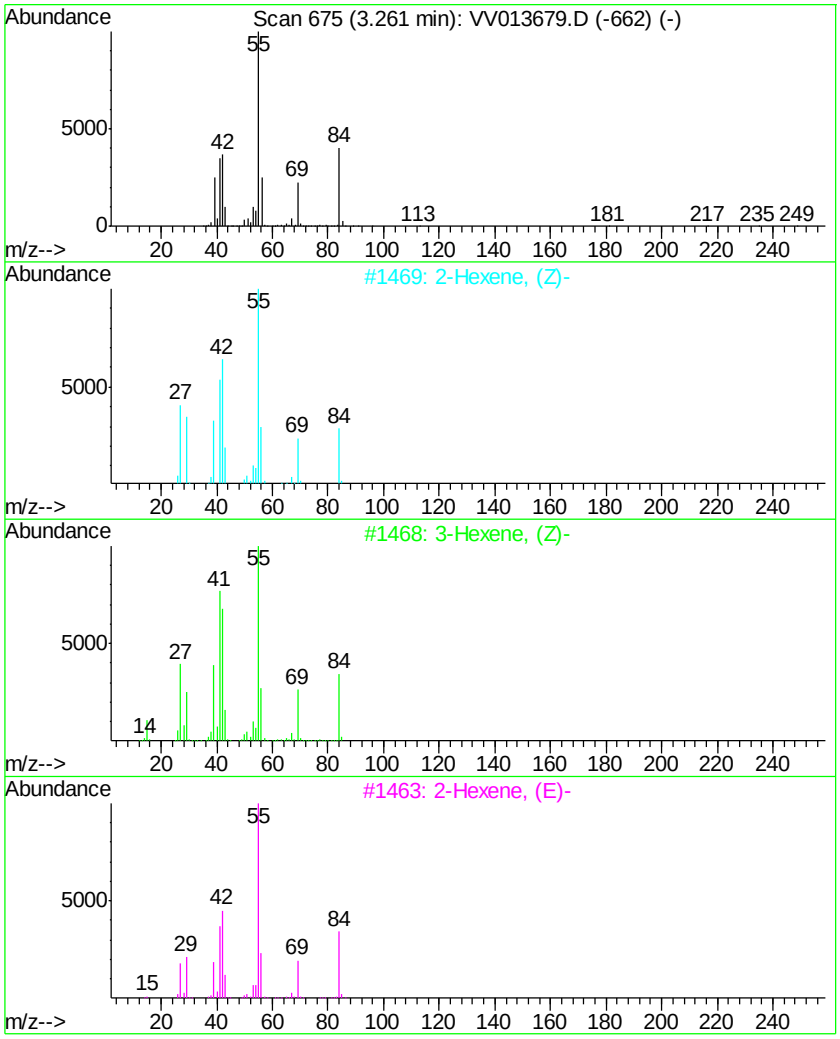
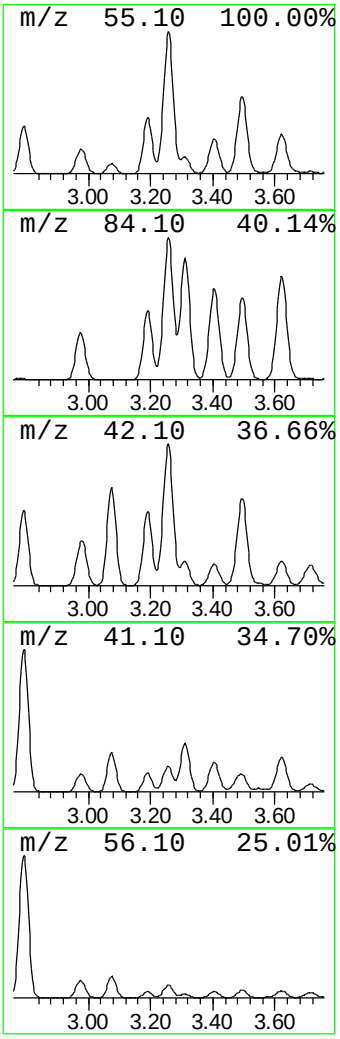
Peak Number 16 (DEL) Alkane: Cyclic3.26 Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.26	6.52 ug/L	17126300	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, (Z)-	84	C6H12	007688-21-3	91
2	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
3	2-Hexene, (E)-	84	C6H12	004050-45-7	91
4	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
5	2-Hexene, (Z)-	84	C6H12	007688-21-3	91





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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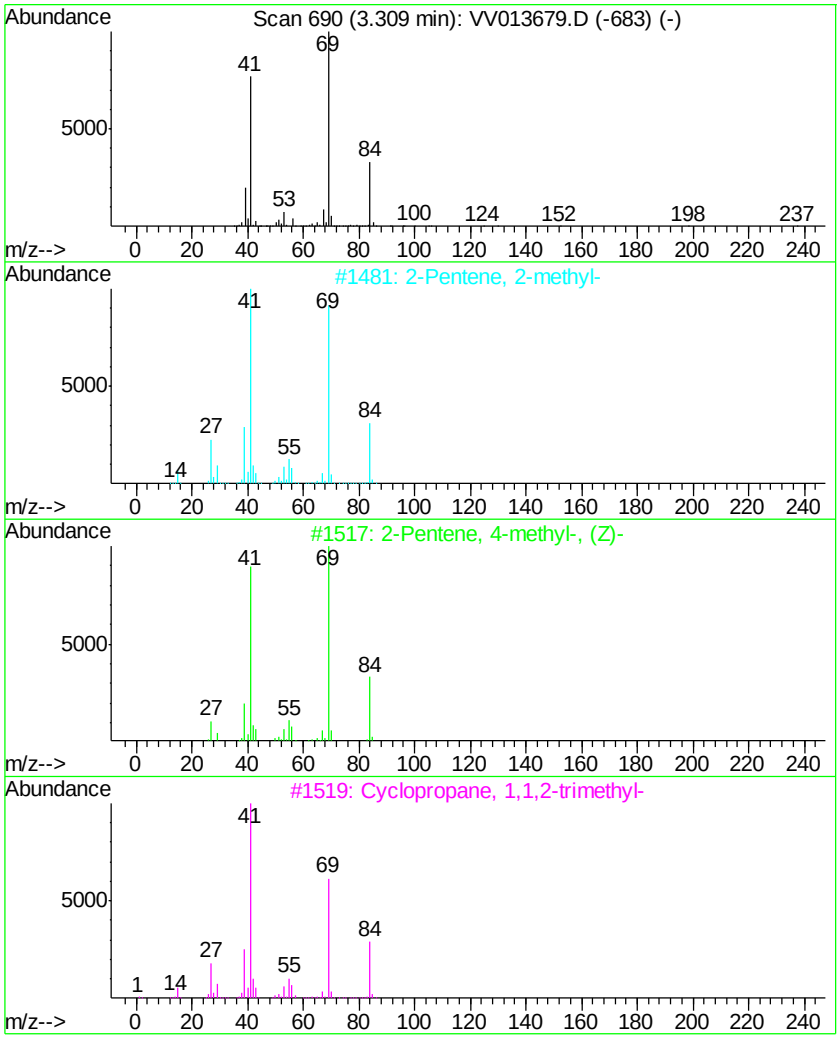
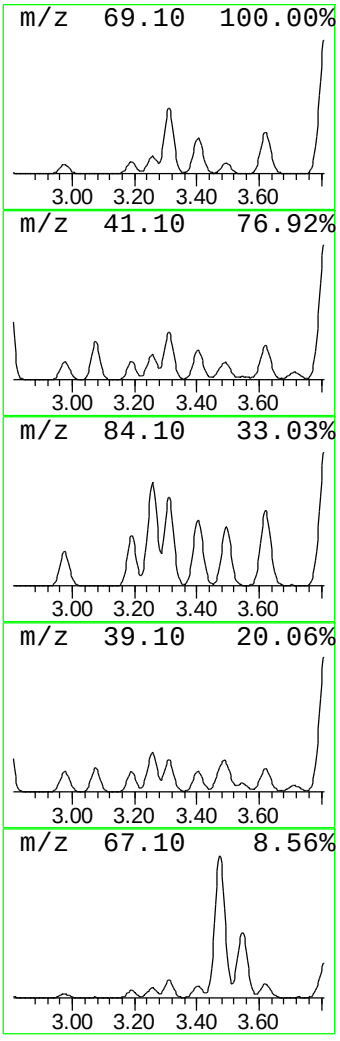
Peak Number 17 (DEL) Alkane: Cyclic3.31 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.31	6.01 ug/L	15801800	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	90
2	2-Pentene, 4-methyl-, (Z)-	84	C6H12	000691-38-3	90
3	Cyclopropane, 1,1,2-trimethyl-	84	C6H12	004127-45-1	90
4	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	90
5	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	83





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

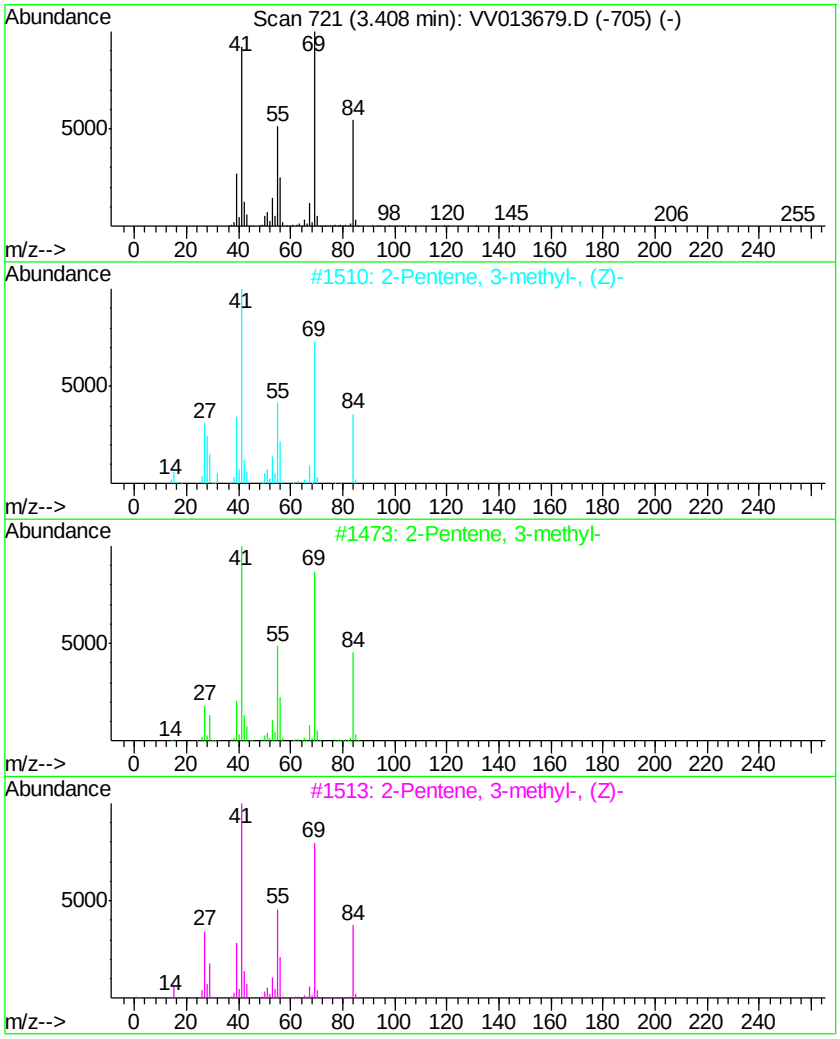
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

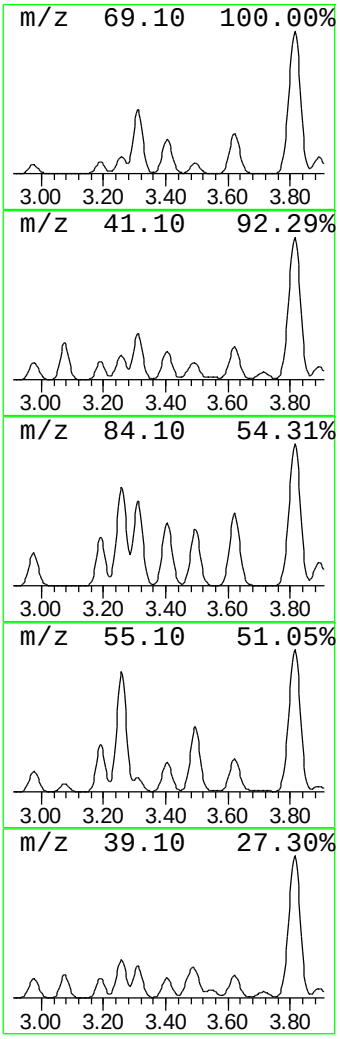
****

Peak Number 18 (DEL) Alkane: Cyclic3.41 Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.41	4.78 ug/L	12555200	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	95
2	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	95
3	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	94
4	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	94
5	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

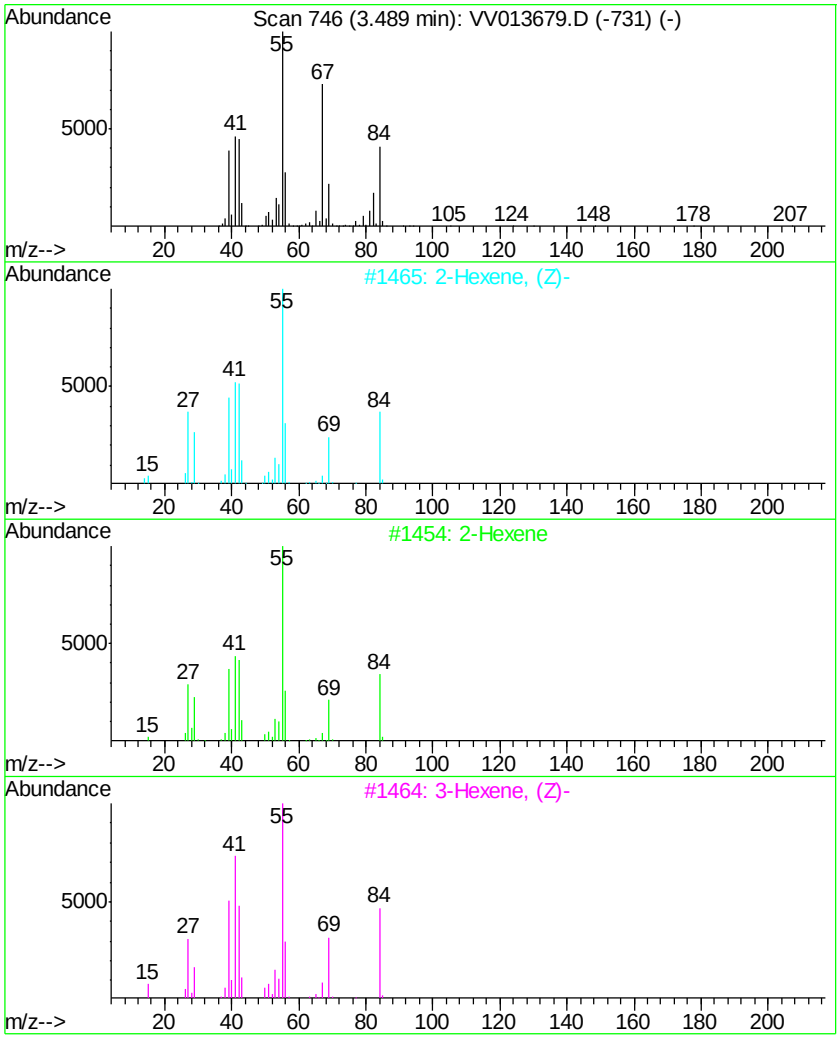
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

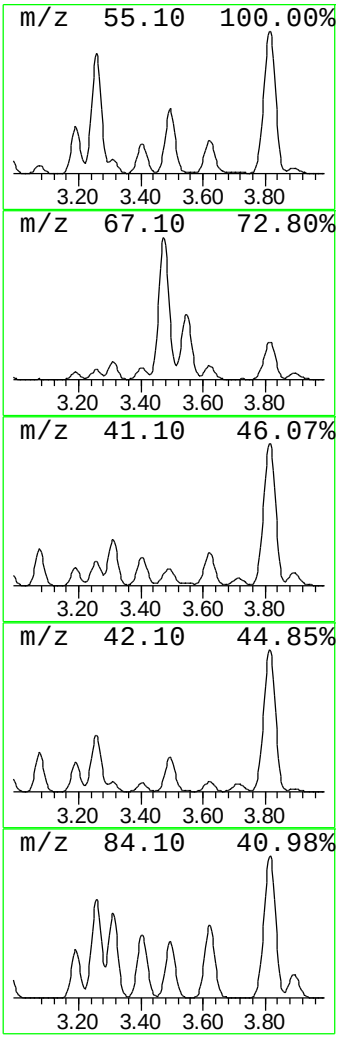
****

Peak Number 19 (DEL) Alkane: Cyclic3.49 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.49	6.70 ug/L	17595100	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, (Z)-	84	C6H12	007688-21-3	94
2	2-Hexene	84	C6H12	000592-43-8	90
3	3-Hexene, (Z)-	84	C6H12	007642-09-3	76
4	3-Hexene, (E)-	84	C6H12	013269-52-8	72
5	2-Hexene, (E)-	84	C6H12	004050-45-7	60





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

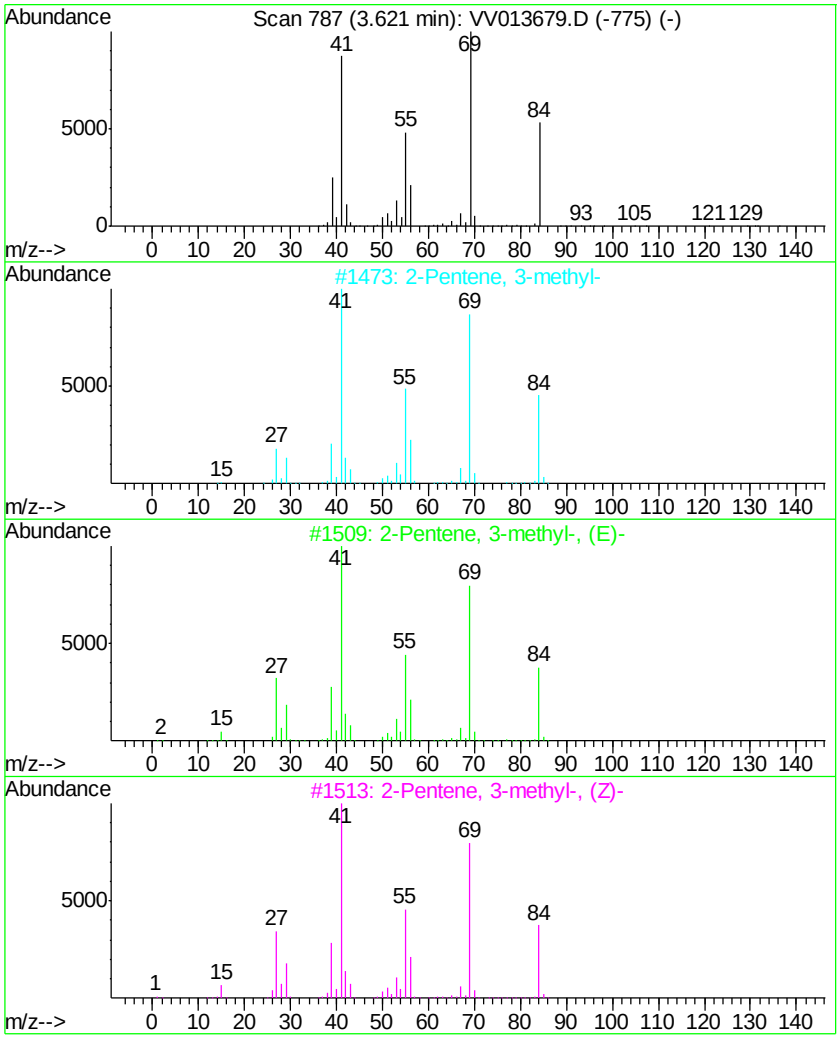
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

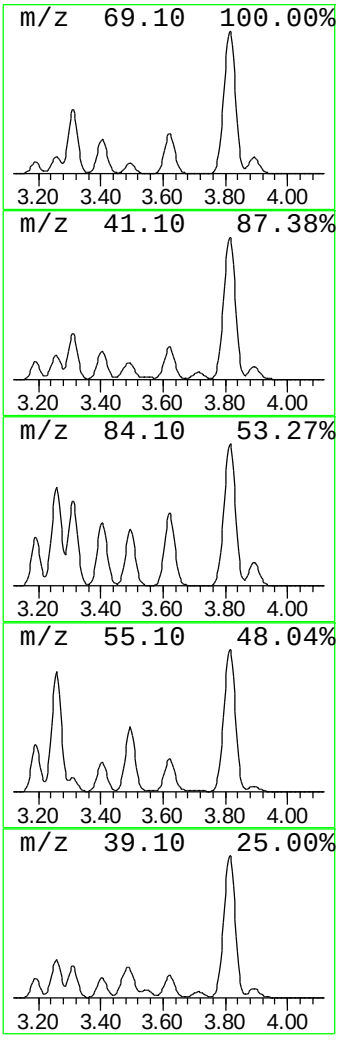
****

Peak Number 20 (DEL) Alkane: Cyclic3.62 Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.62	5.48 ug/L	14391200	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	94
2	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91
3	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	91
4	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91
5	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	91





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

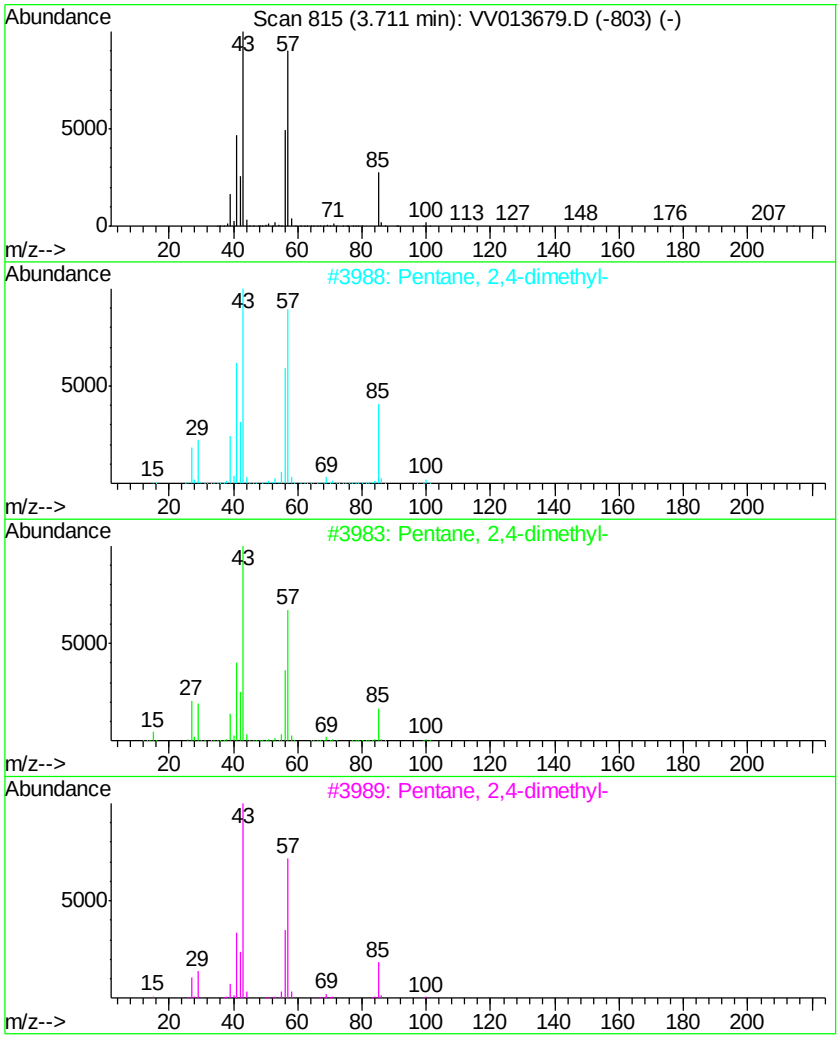
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

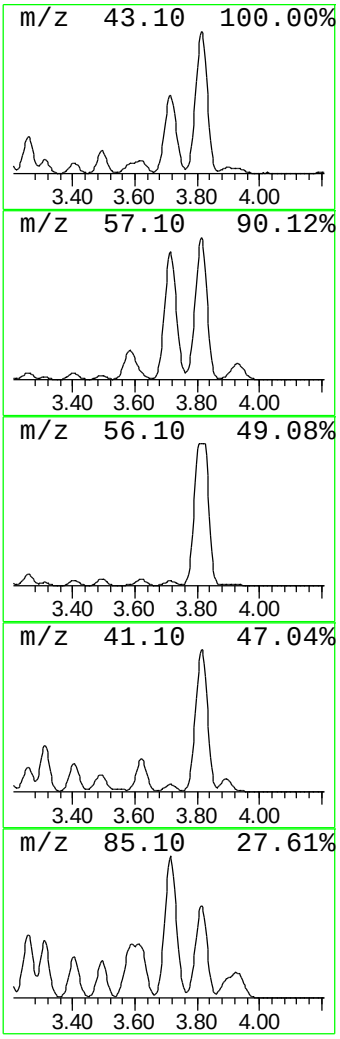
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.71	1.94 ug/L	5097650	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	86
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	83
4	Hexane, 2-methyl-	100	C7H16	000591-76-4	72
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

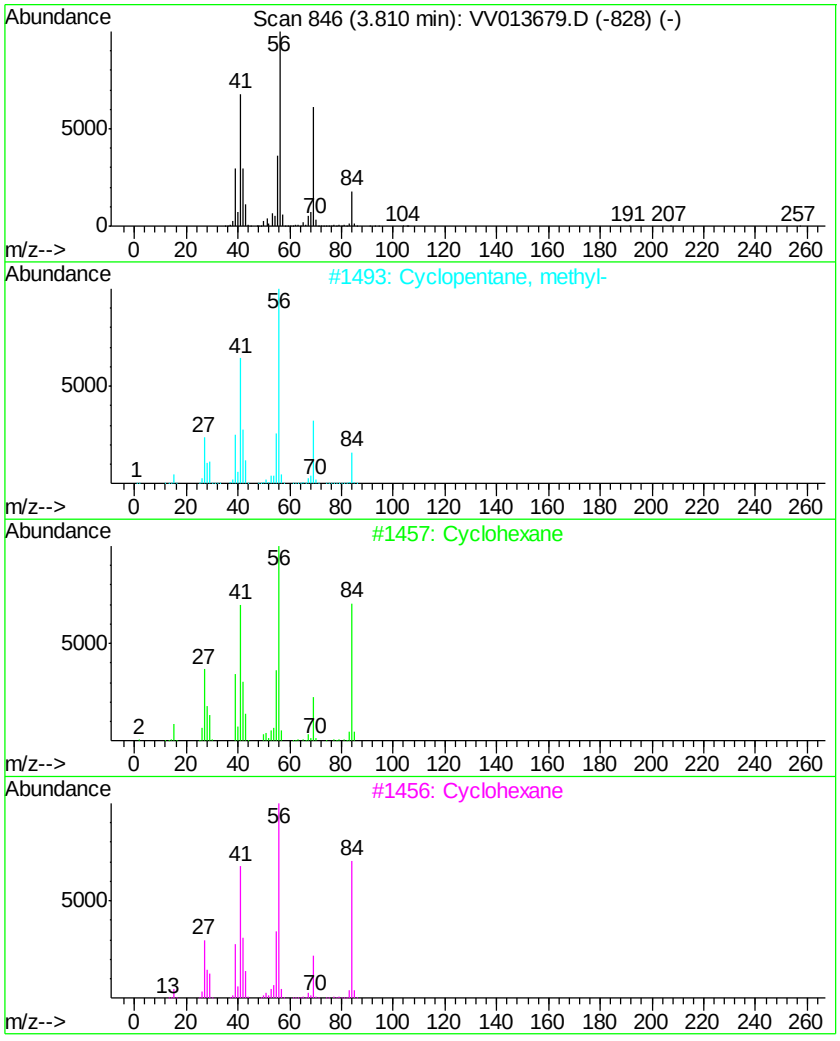
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

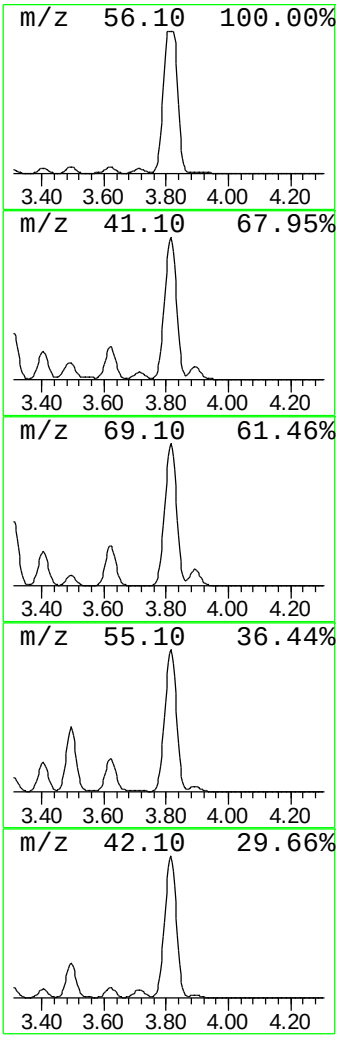
****

Peak Number 22 (DEL) Alkane: Cyclic3.81 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.81	38.25 ug/L	100491000	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclohexane	84	C6H12	000110-82-7	86
3	Cyclohexane	84	C6H12	000110-82-7	86
4	Propane, 2-cyclopropyl-	84	C6H12	003638-35-5	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	46





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

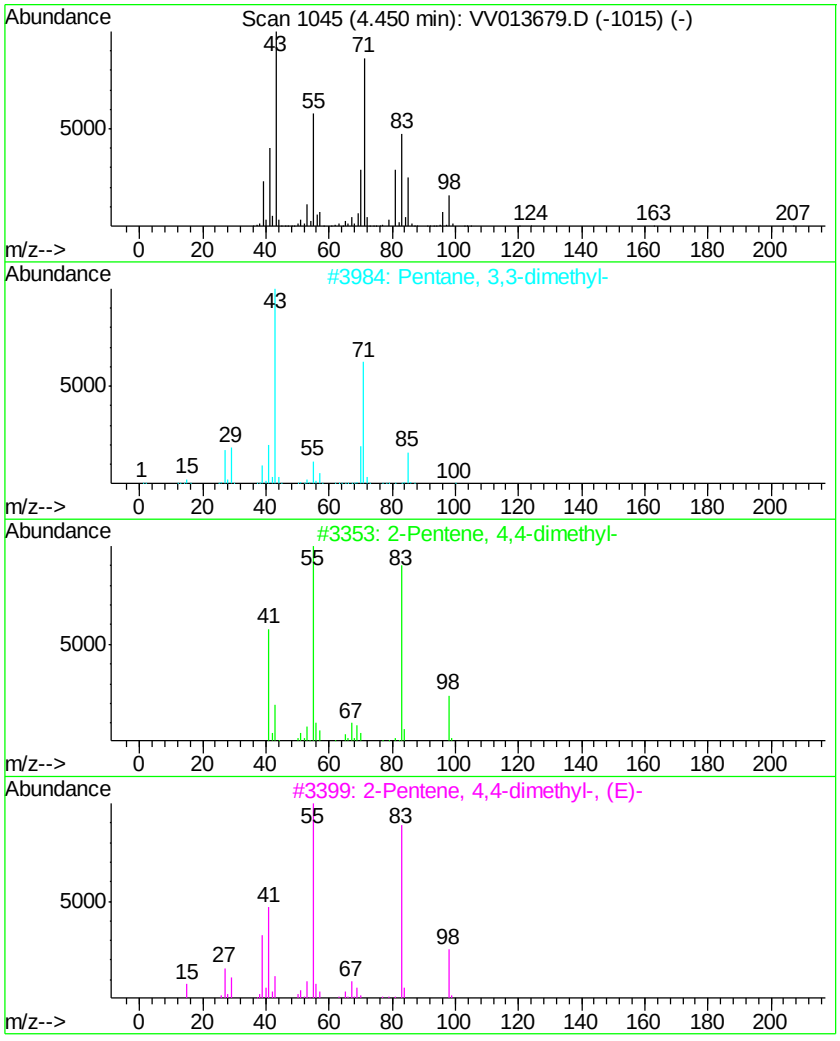
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

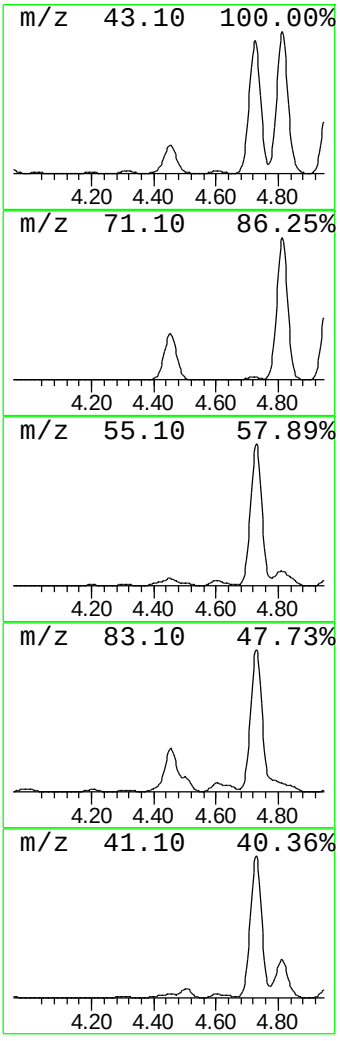
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.45	1.17 ug/L	3080740	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	43
2	2-Pentene, 4,4-dimethyl-	98	C7H14	026232-98-4	38
3	2-Pentene, 4,4-dimethyl-, (E)-	98	C7H14	000690-08-4	38
4	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	38
5	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

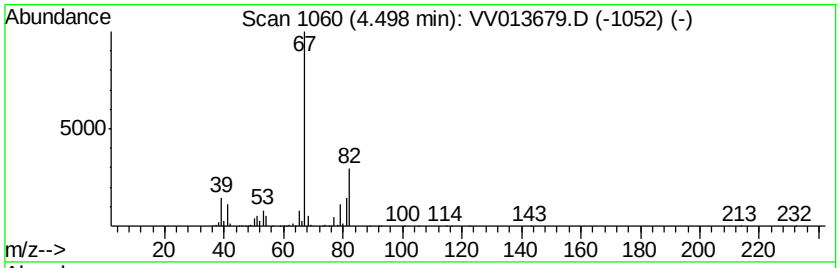
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

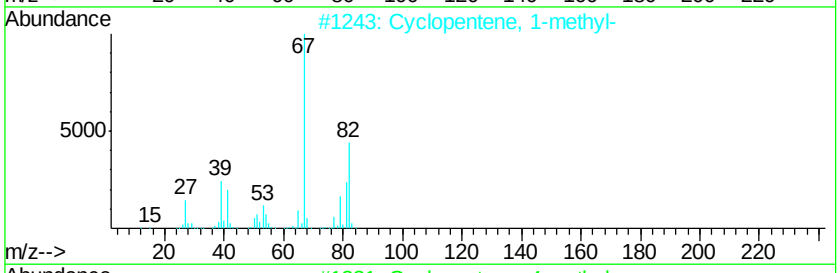
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

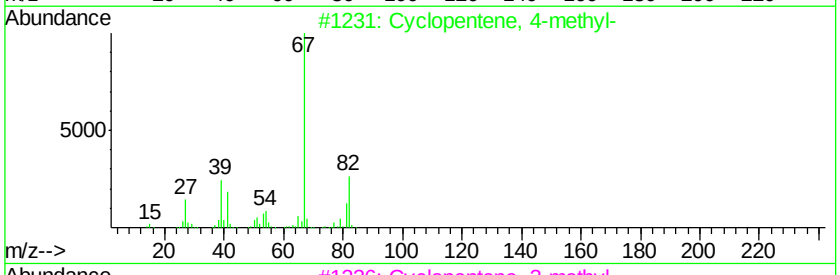
****
Peak Number 24 Cyclopentene, 1-methyl- Concentration Rank 51

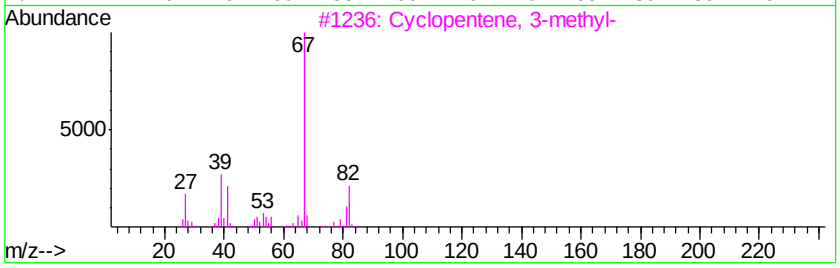
R.T.	EstConc	Area	Relative to ISTD	R.T.
4.50	2.89 ug/L	7601050	1,4-Difluorobenzene	5.66

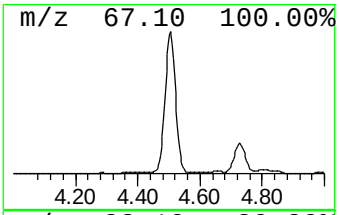
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	90
2	Cyclopentene, 4-methyl-	82	C6H10	001759-81-5	90
3	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	87
4	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	87
5	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	86

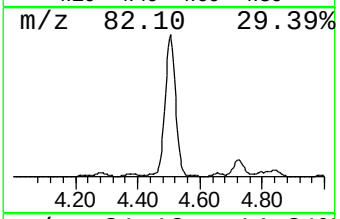


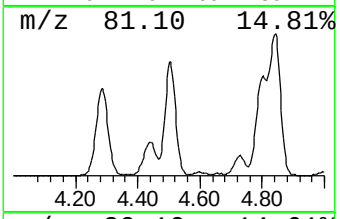


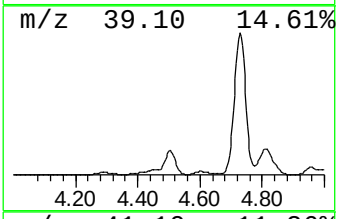


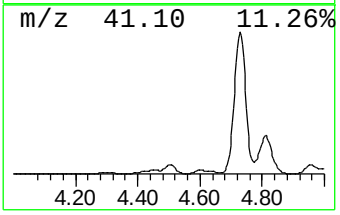












Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

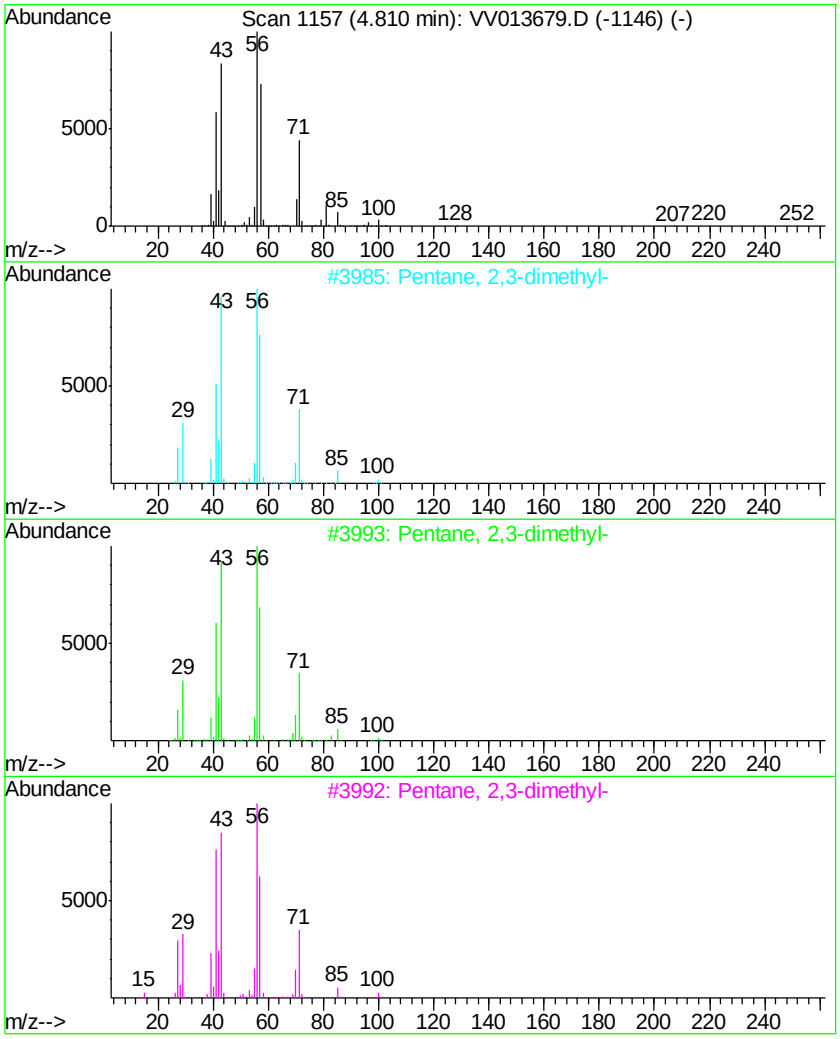
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

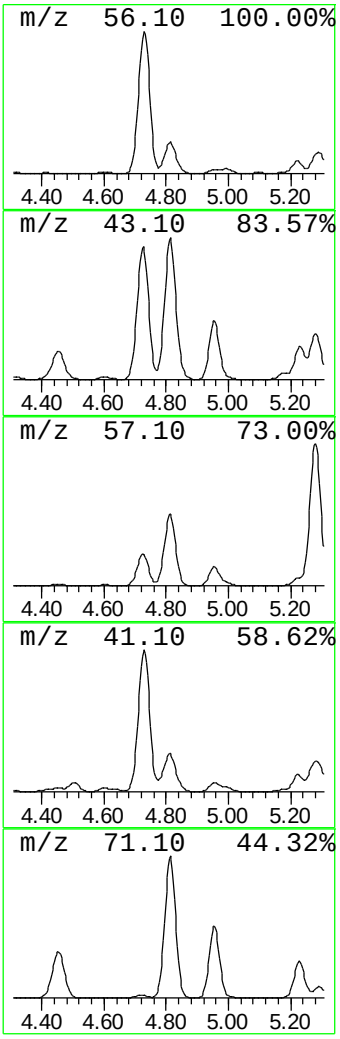
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.81	6.28 ug/L	16490100	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	86
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	74
5	Pentane, 1-bromo-3,4-dimethyl-	178	C7H15Br	006570-92-9	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

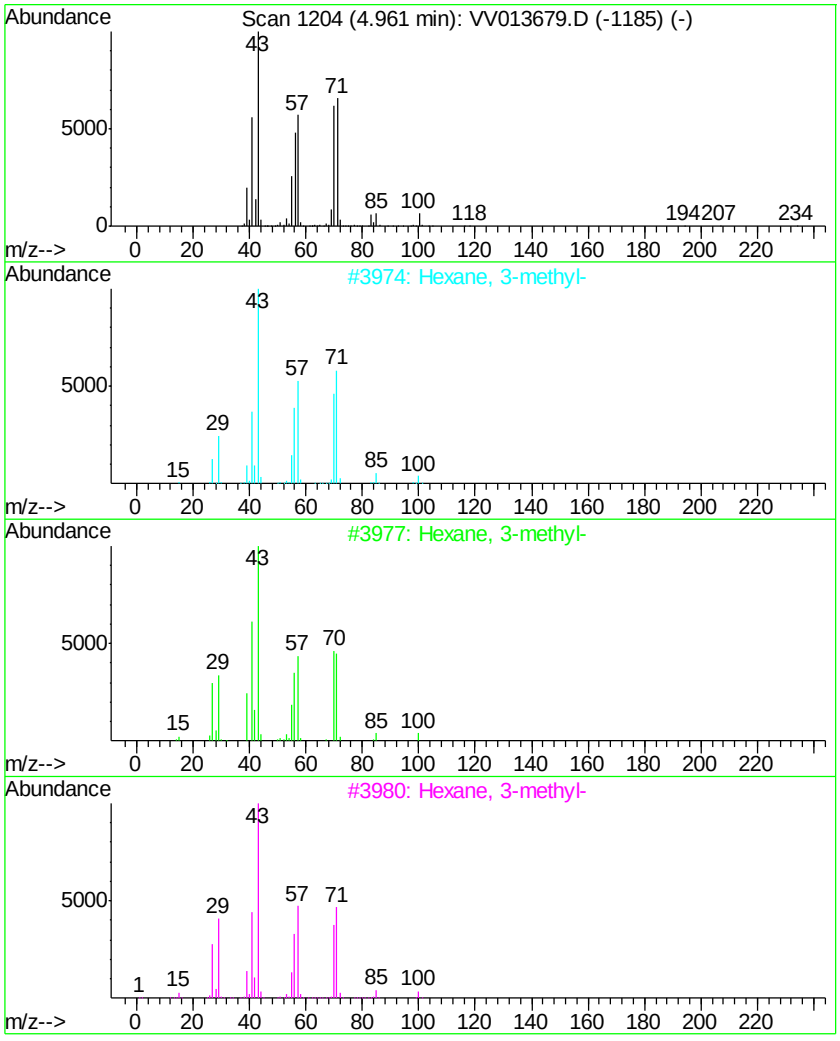
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

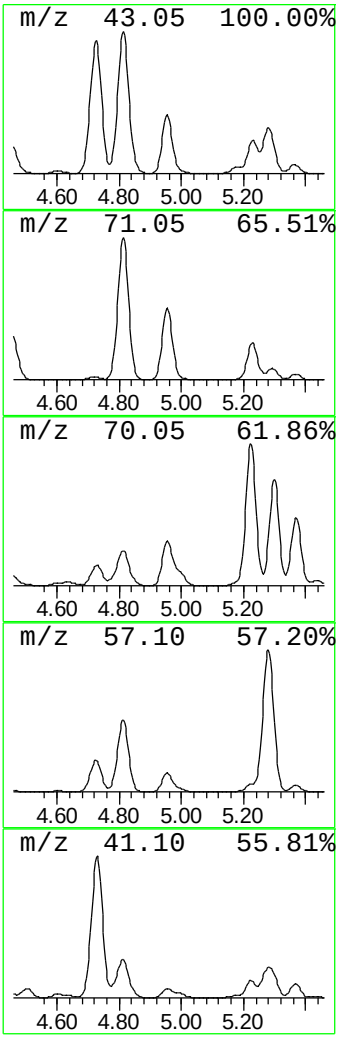
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.96	2.28 ug/L	5993280	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	87
4	Heptane	100	C7H16	000142-82-5	80
5	Heptane	100	C7H16	000142-82-5	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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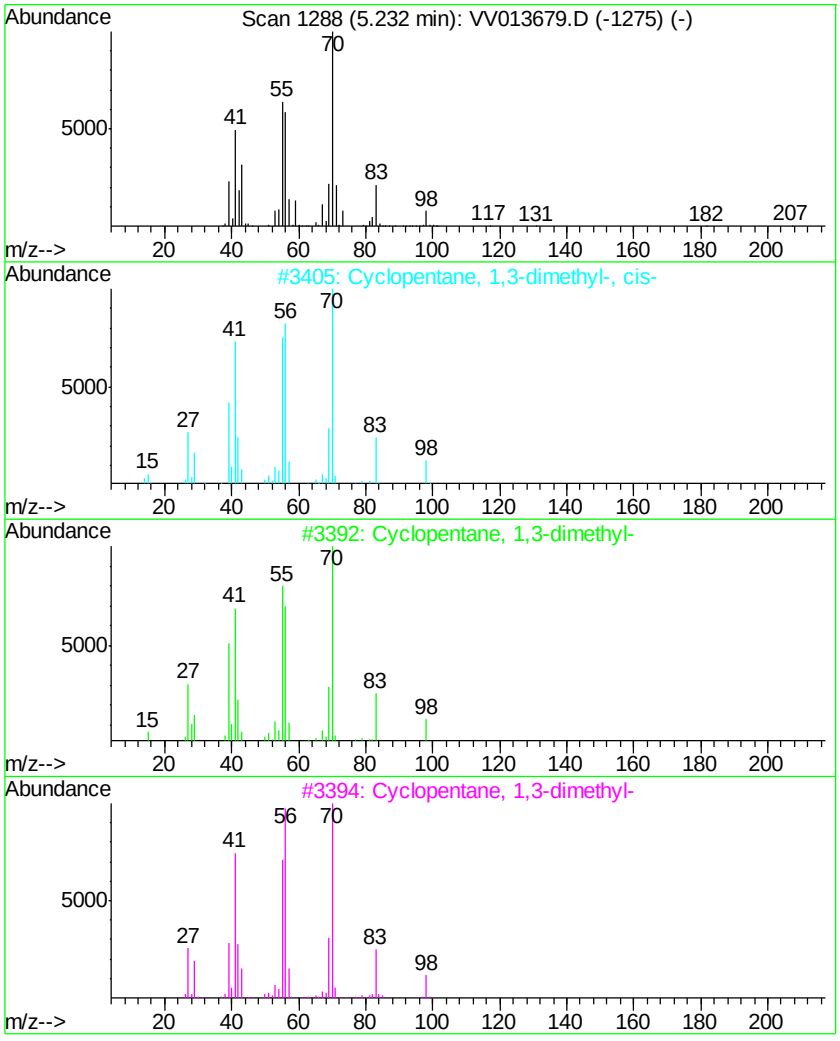
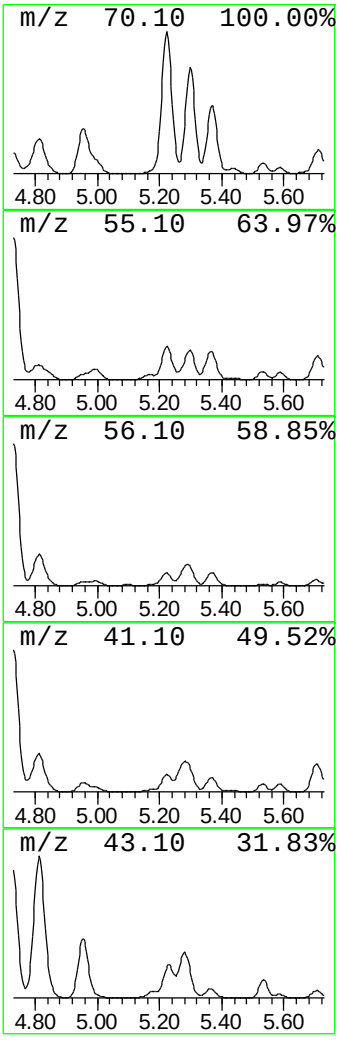
Peak Number 27 (DEL) Alkane: Cyclic5.23 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.23	2.84 ug/L	7457790	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	87
3	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	64
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	60
5	Formic acid, heptyl ester	144	C8H16O2	000112-23-2	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

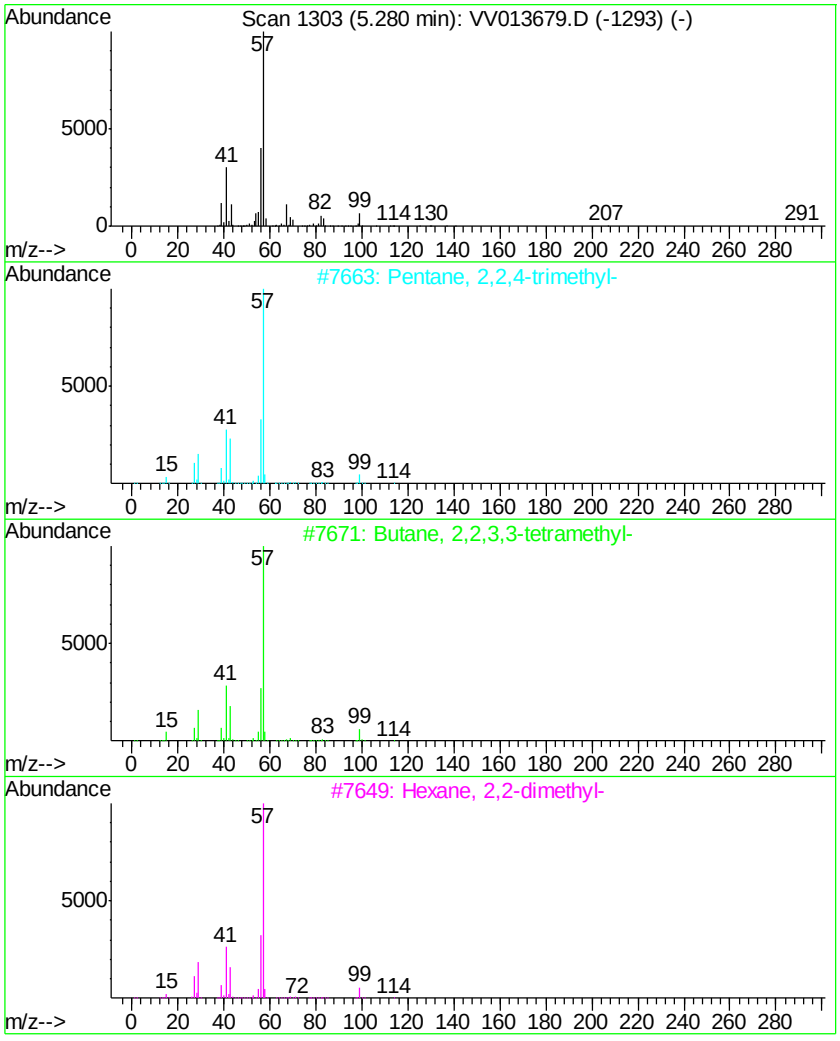
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

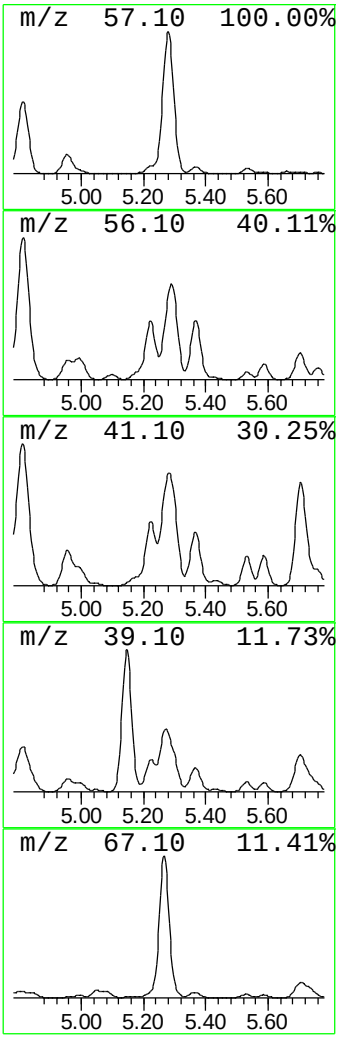
****

Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.28	6.66 ug/L	17488000	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	43
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	43
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	38
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	37
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	32





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

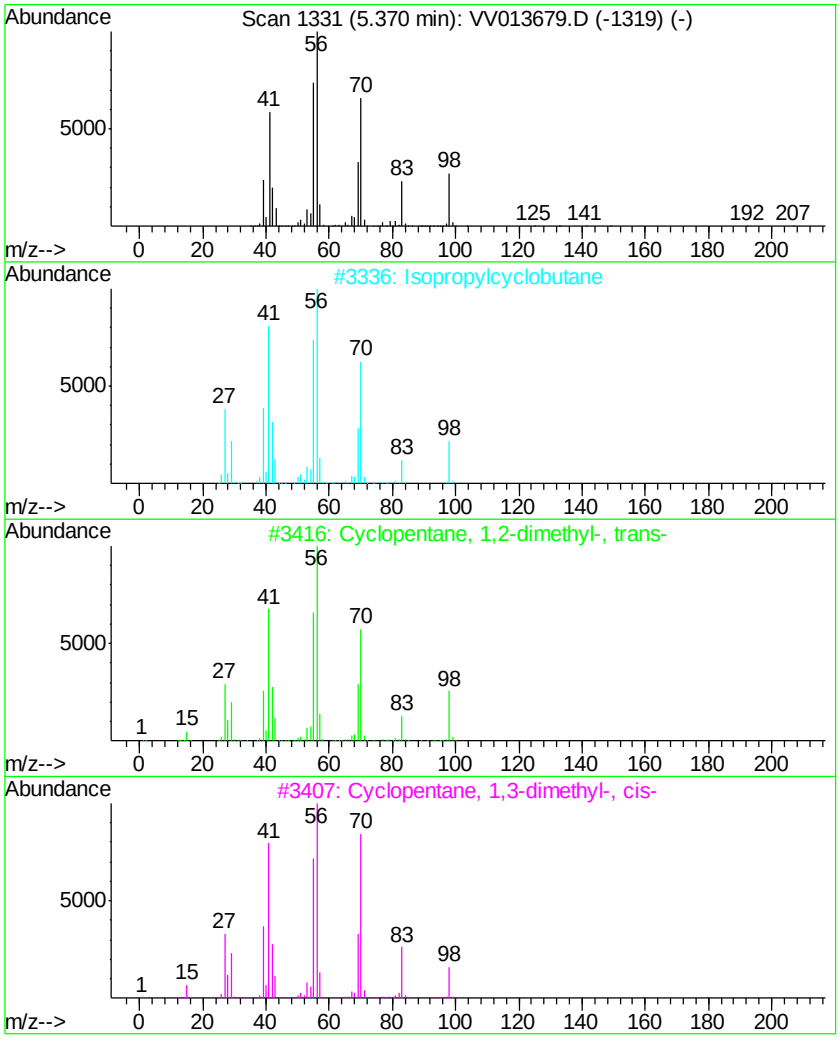
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

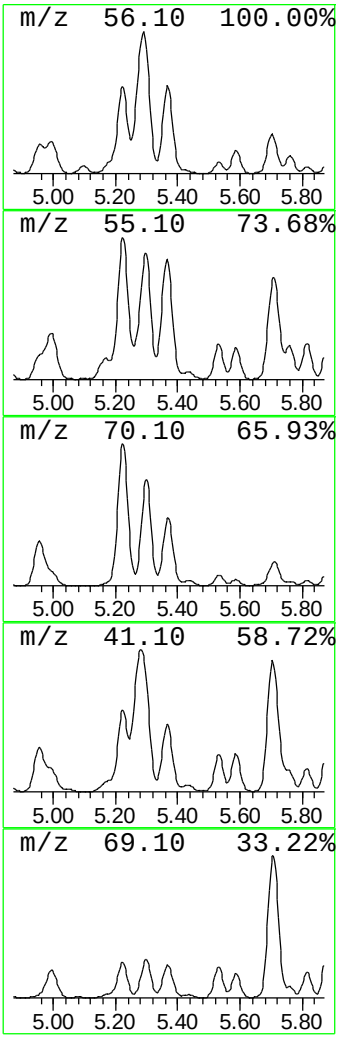
****

Peak Number 29 (DEL) Alkane: Cyclic5.37 Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	2.03 ug/L	5344520	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropylcyclobutane	98	C7H14	000872-56-0	90
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	90
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	86
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	72
5	1-Heptene	98	C7H14	000592-76-7	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

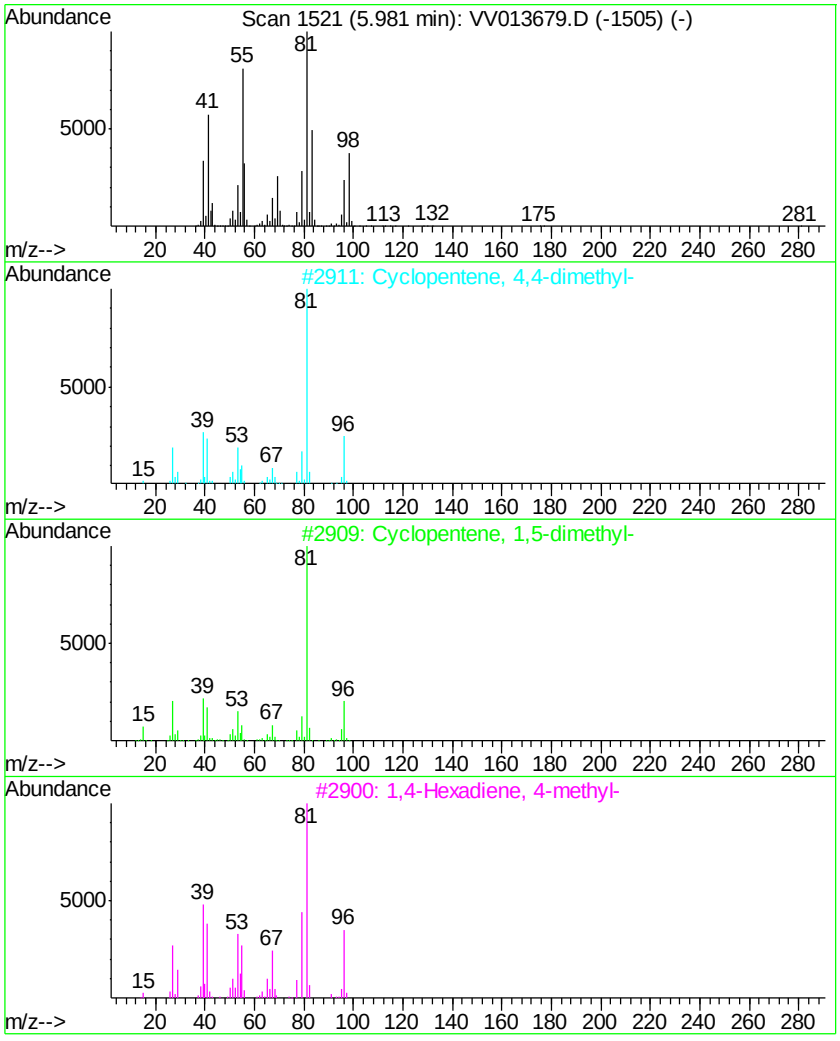
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

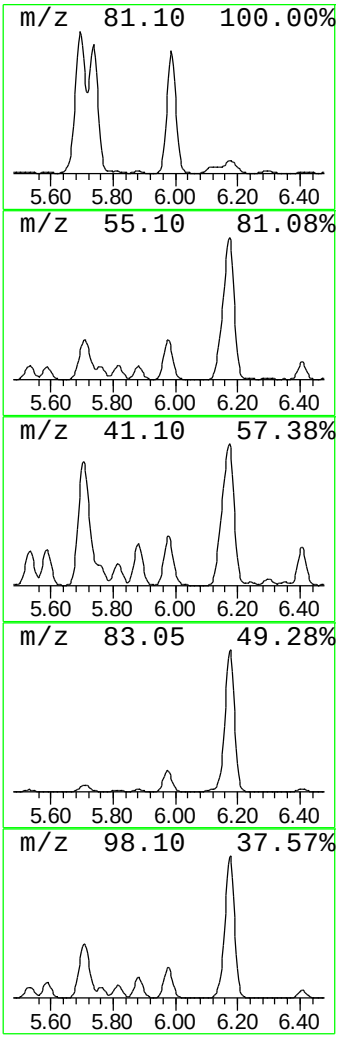
****

Peak Number 30 Cyclopentene, 4,4-dimethyl- Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.98	1.92 ug/L	5056230	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	55
2	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	55
3	1,4-Hexadiene, 4-methyl-	96	C7H12	001116-90-1	53
4	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	50
5	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	46





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

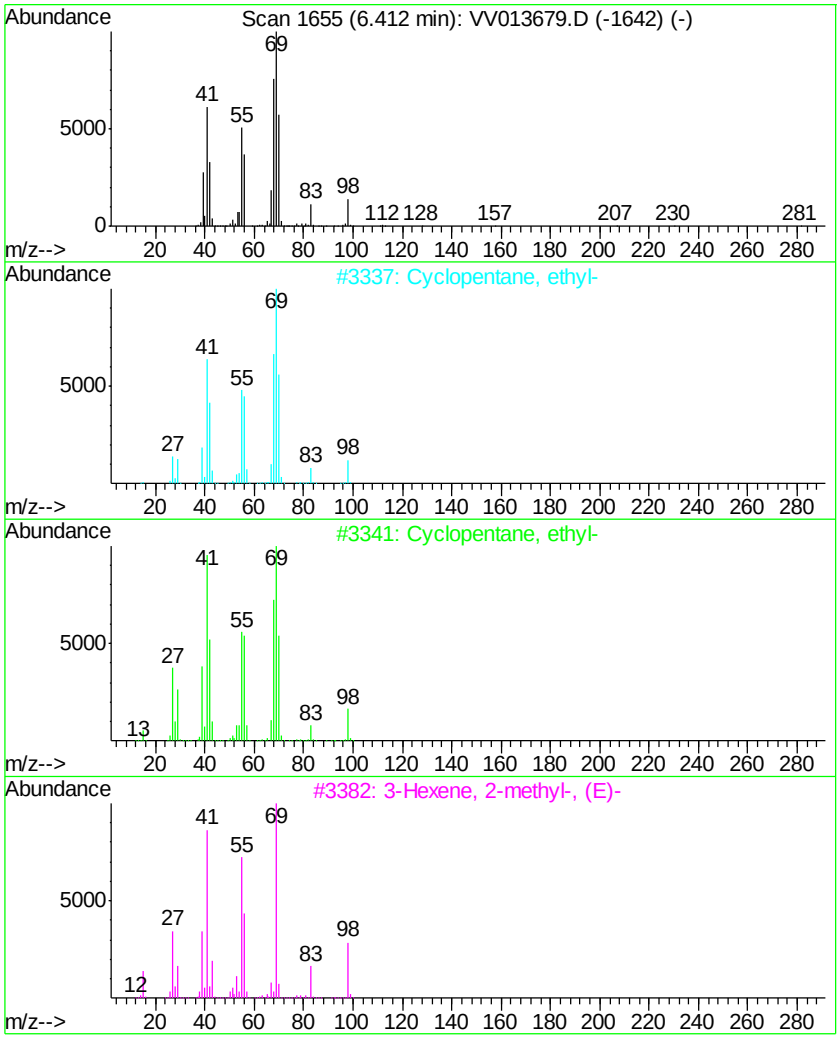
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

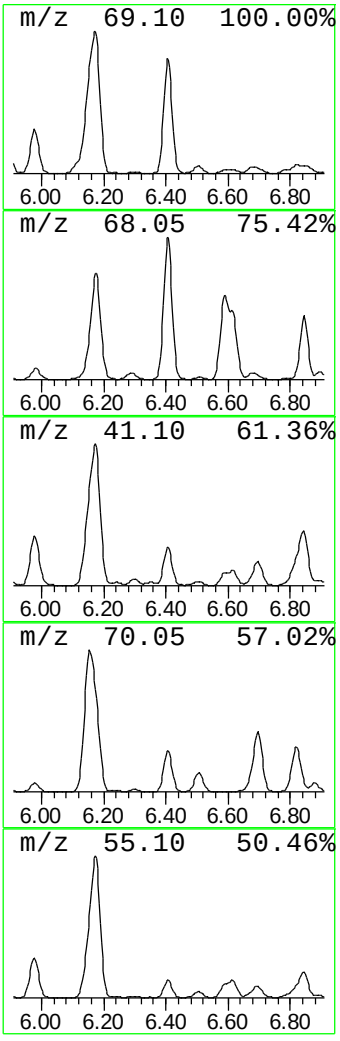
****

Peak Number 31 (DEL) Alkane: Cyclic6.41 Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.41	1.04 ug/L	2741810	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	95
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	91
3	3-Hexene, 2-methyl-, (E)-	98	C7H14	000692-24-0	43
4	Cyanamide, dimethyl-	70	C3H6N2	001467-79-4	38
5	1-Pentene, 3-ethyl-	98	C7H14	004038-04-4	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

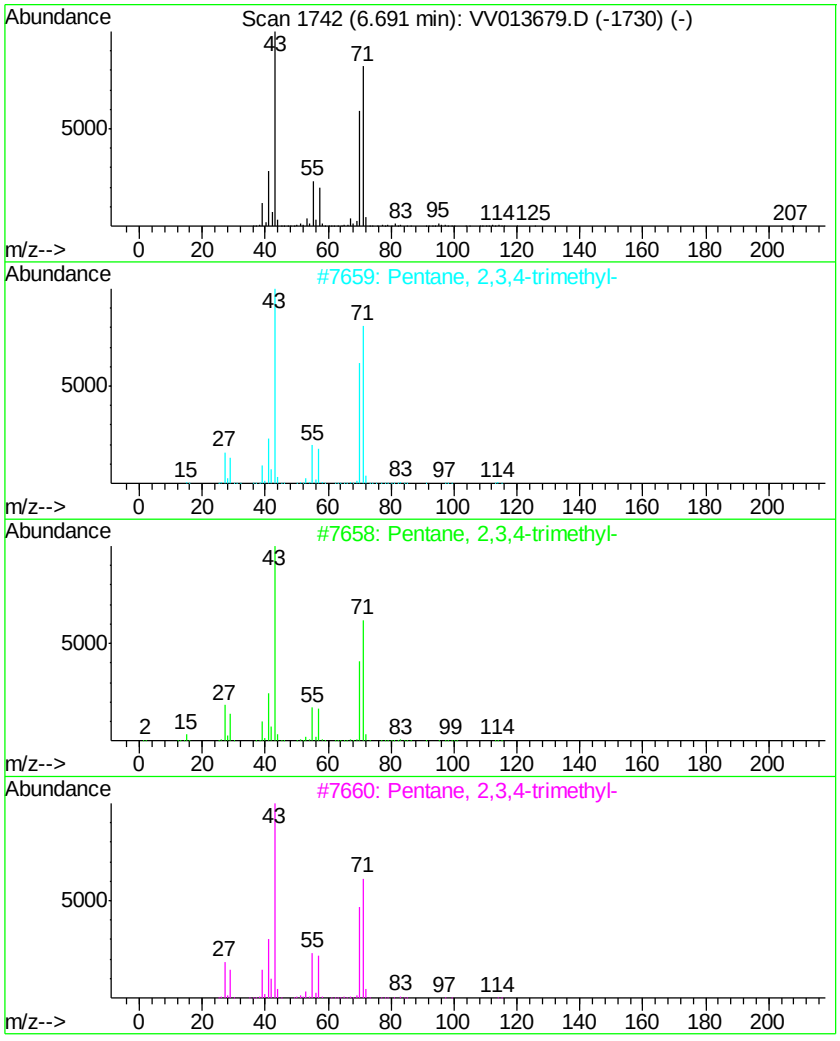
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

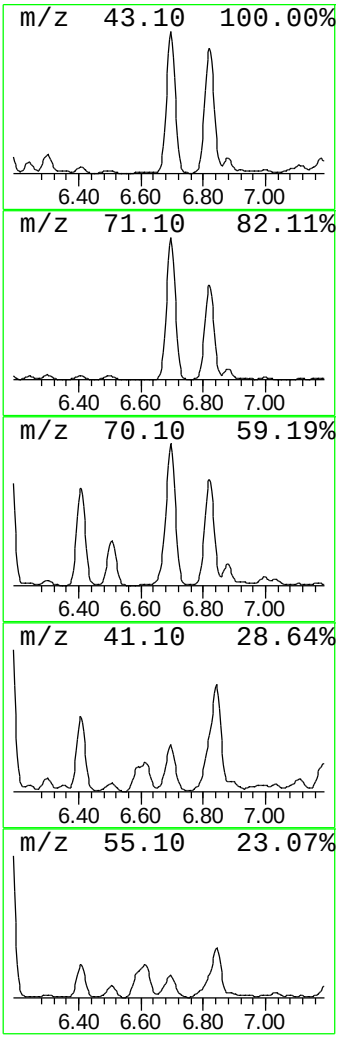
****

Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.69	1.18 ug/L	3091830	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
4	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	83
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	83





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

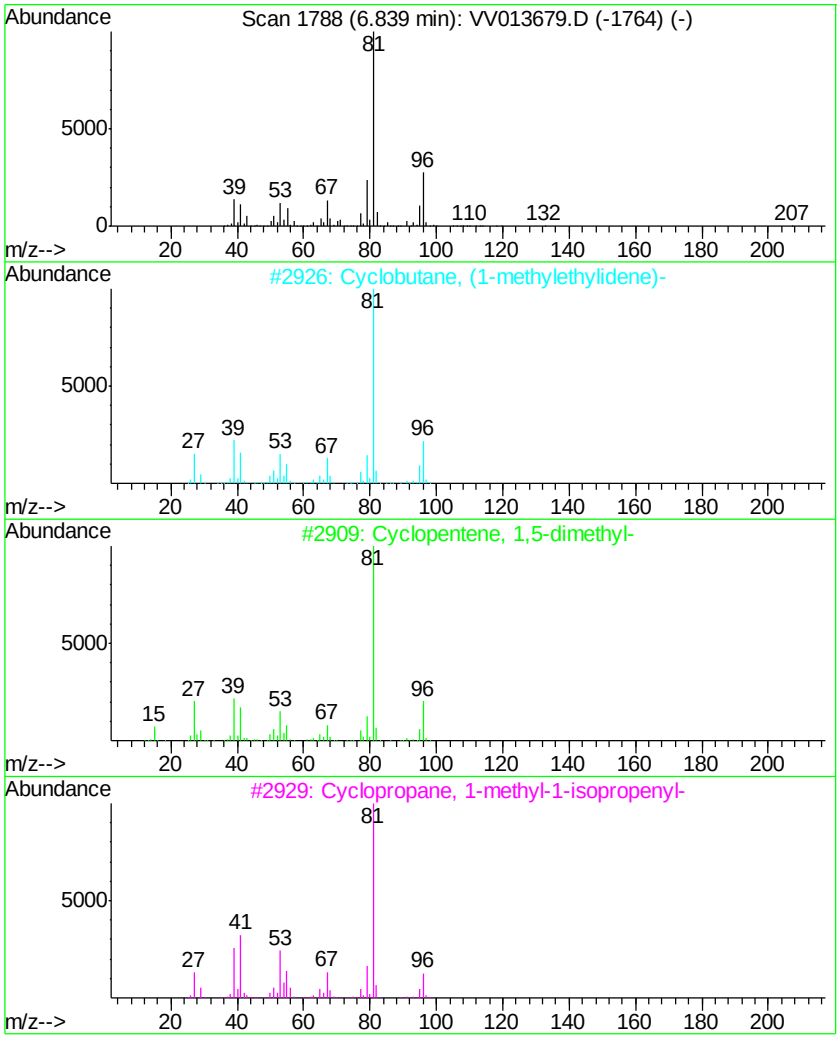
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

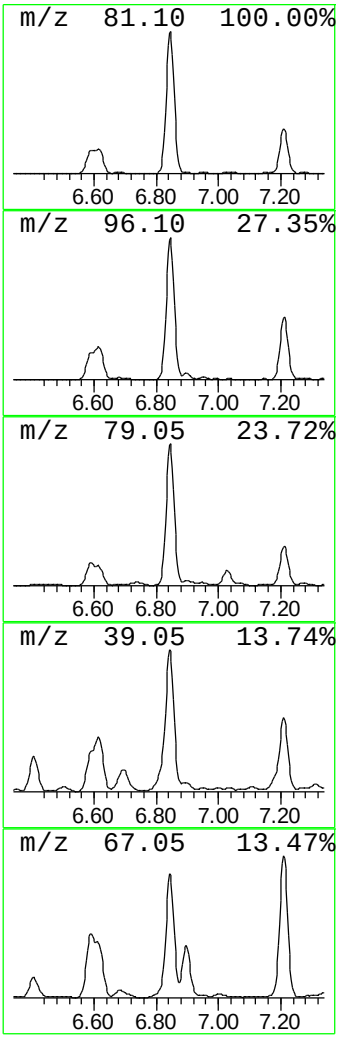
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 Cyclobutane, (1-methylethyl... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.84	5.70 ug/L	14974000	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	90
2	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	87
3	Cyclopropane, 1-methyl-1-isoprop...	96	C7H12	003422-07-9	86
4	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	86
5	3,5-Dimethylcyclopentene	96	C7H12	007459-71-4	78





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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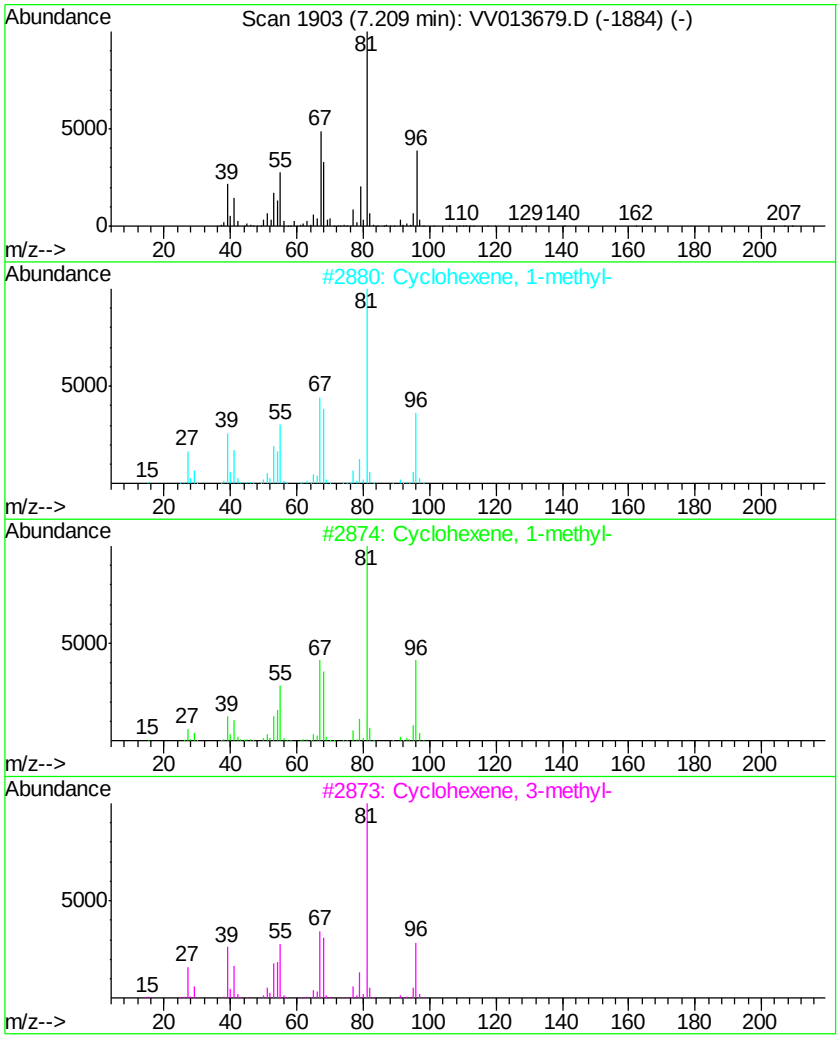
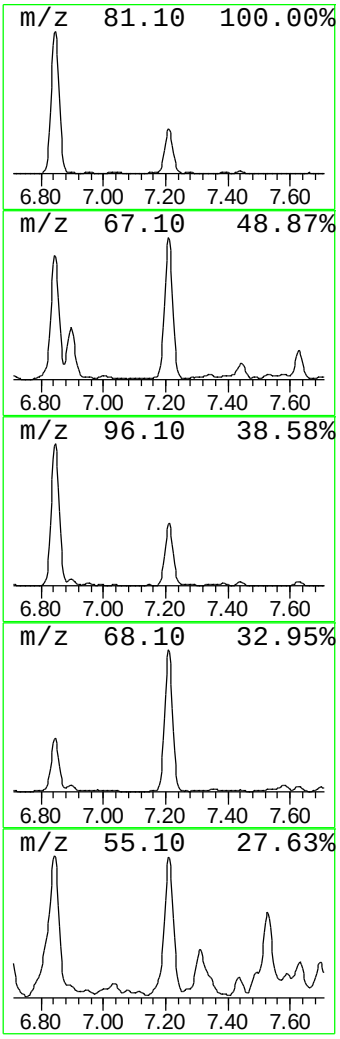
Peak Number 34 Cyclohexene, 1-methyl- Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.21	2.49 ug/L	6549050	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	95
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	91
3	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	90
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	83
5	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	81





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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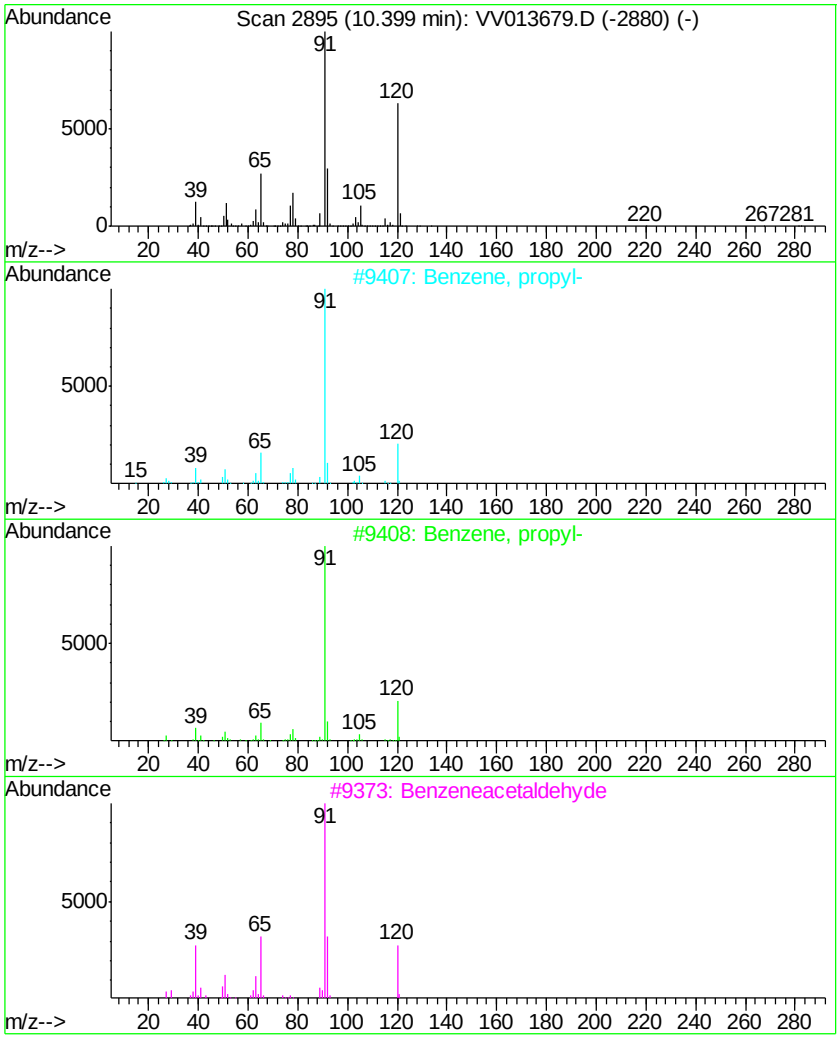
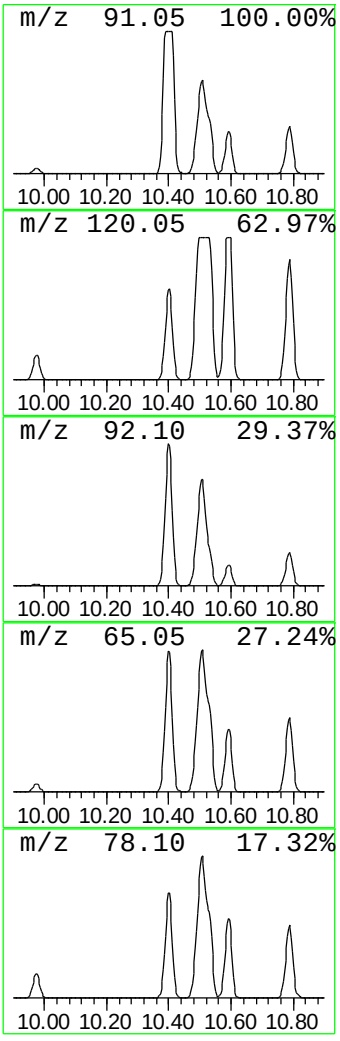
Peak Number 35 Benzene, propyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.40	110.55 ug/L	61314800	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	83
2	Benzene, propyl-	120	C9H12	000103-65-1	81
3	Benzeneacetaldehyde	120	C8H8O	000122-78-1	76
4	Benzeneacetaldehyde	120	C8H8O	000122-78-1	76
5	Benzeneacetaldehyde	120	C8H8O	000122-78-1	68





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

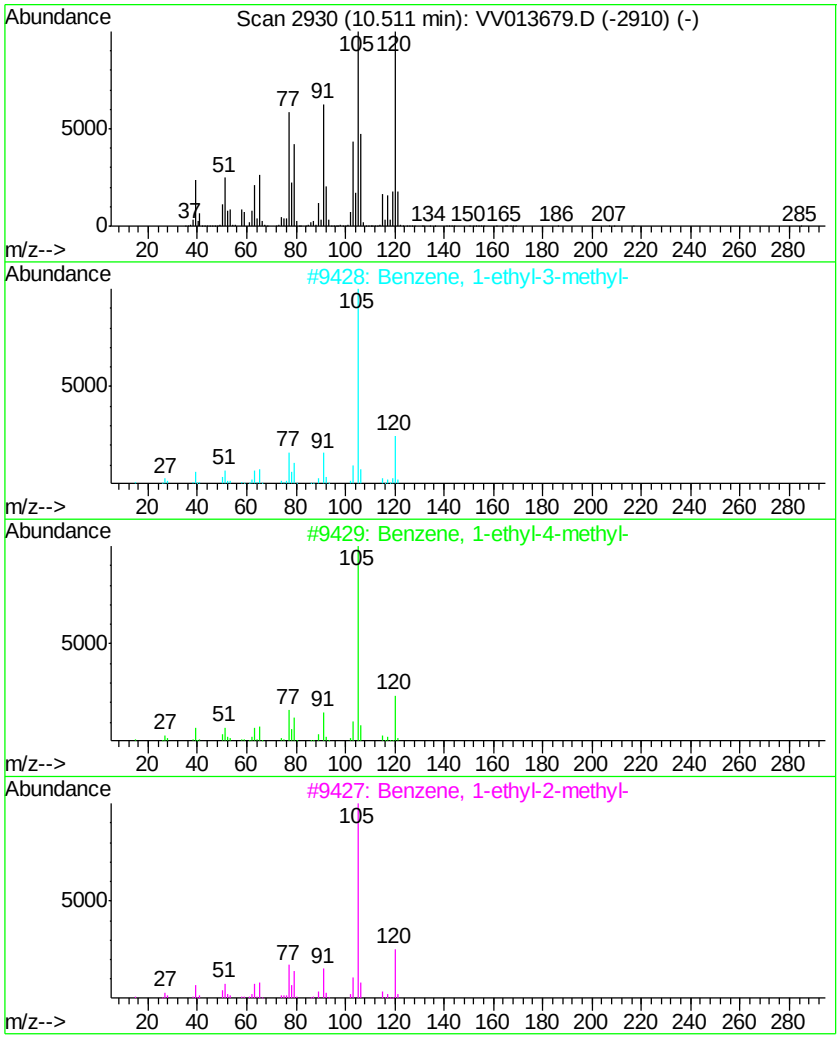
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

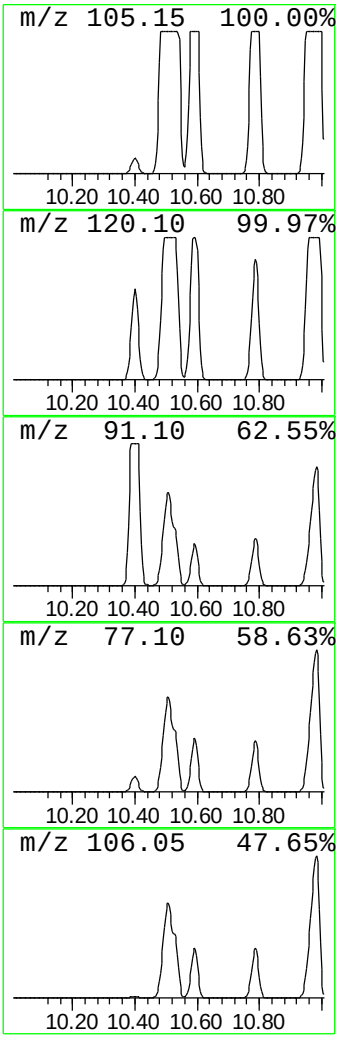
****

Peak Number 36 Benzene, 1-ethyl-3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.51	421.90 ug/L	234002000	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	74
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	68
4	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	64
5	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	50





Library Search Compound Report

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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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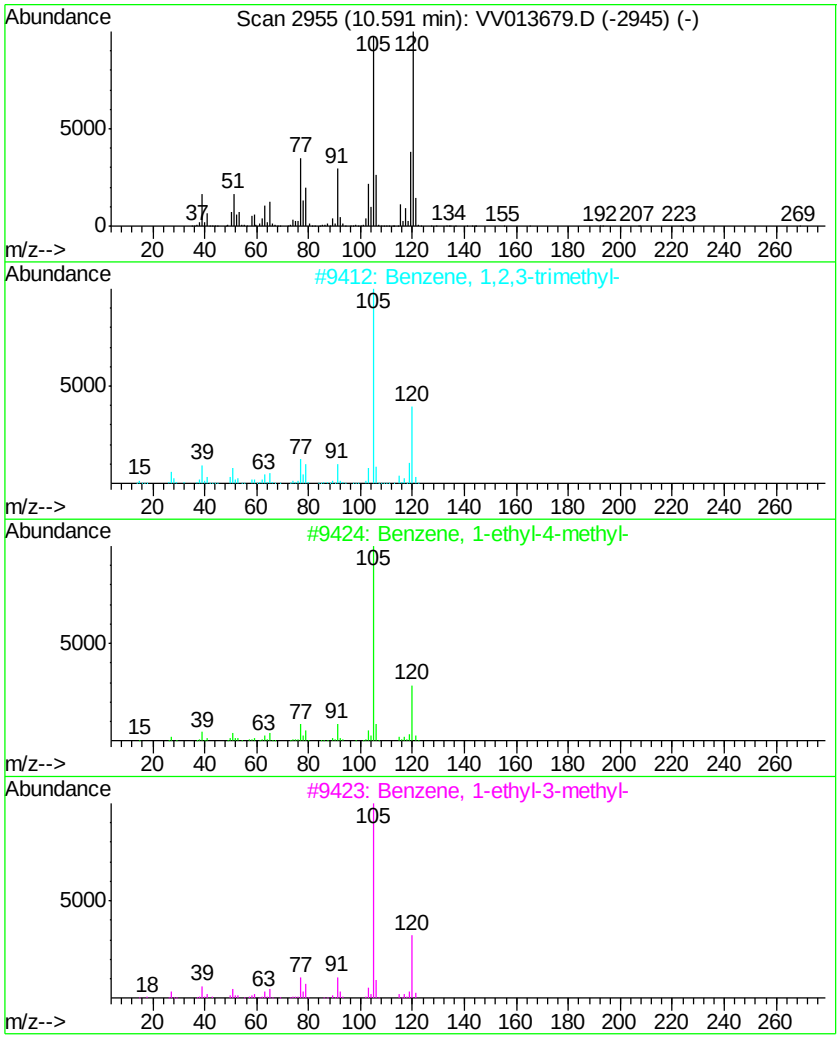
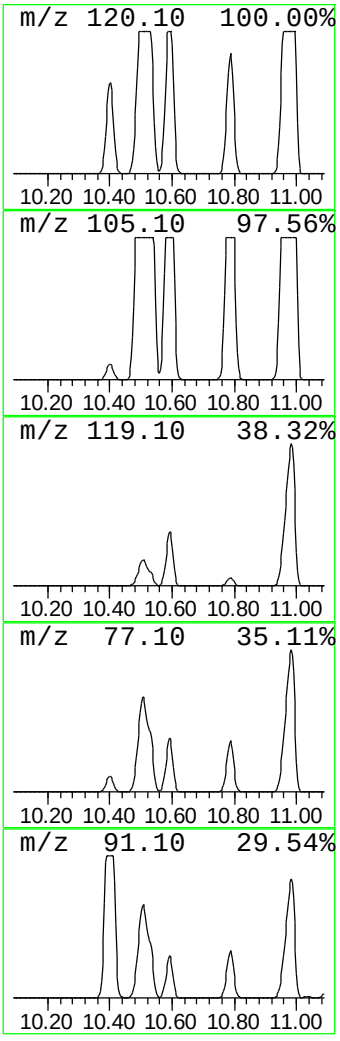
Peak Number 37 Benzene, 1,2,3-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.59	163.53 ug/L	90701500	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	81
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	81
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	81
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	80
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	76





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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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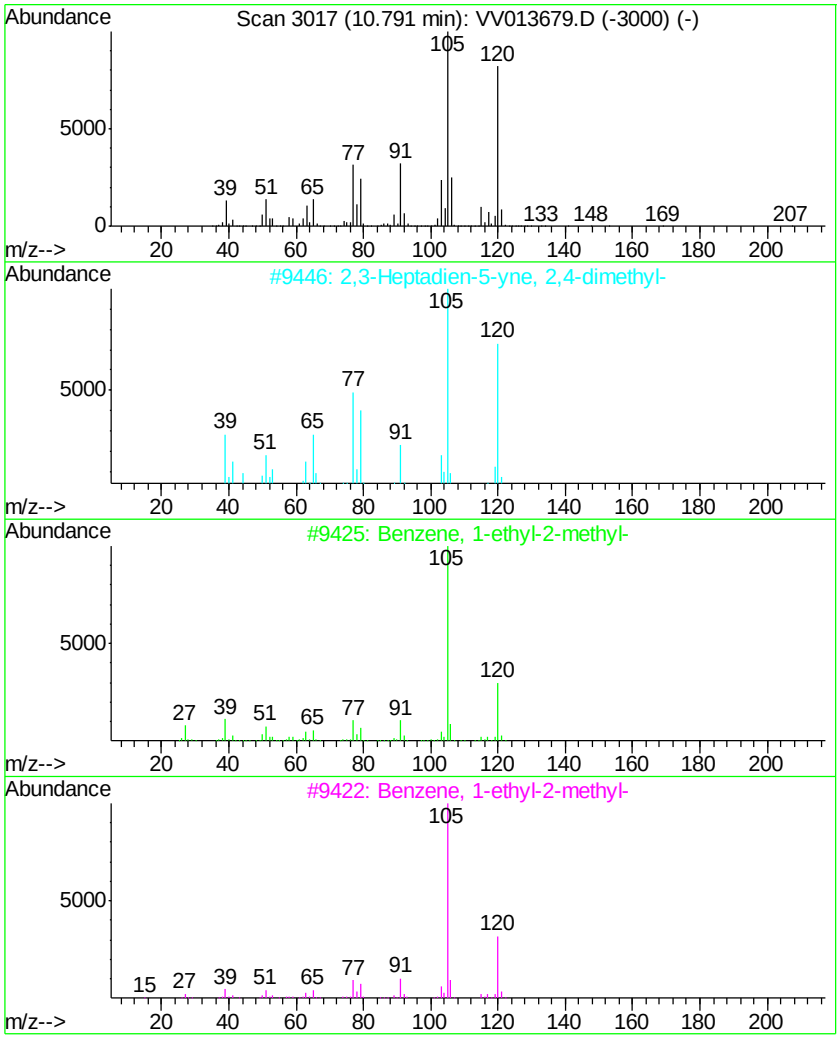
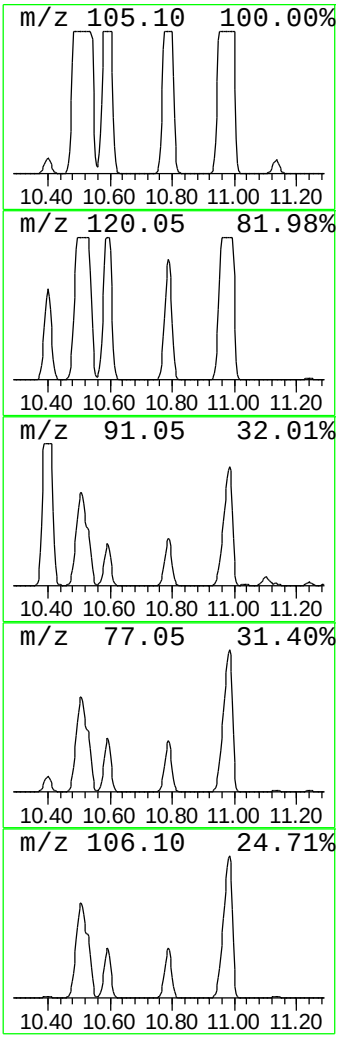
Peak Number 38 2,3-Heptadien-5-yne, 2,4-di... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	149.40 ug/L	82861100	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Heptadien-5-yne, 2,4-dimethyl-	120	C9H12	041898-89-9	90
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	81
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	81
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	81
5	1,3-Cyclopentadiene, 5-(1-methyl...	120	C9H12	003141-02-4	80





Library Search Compound Report

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Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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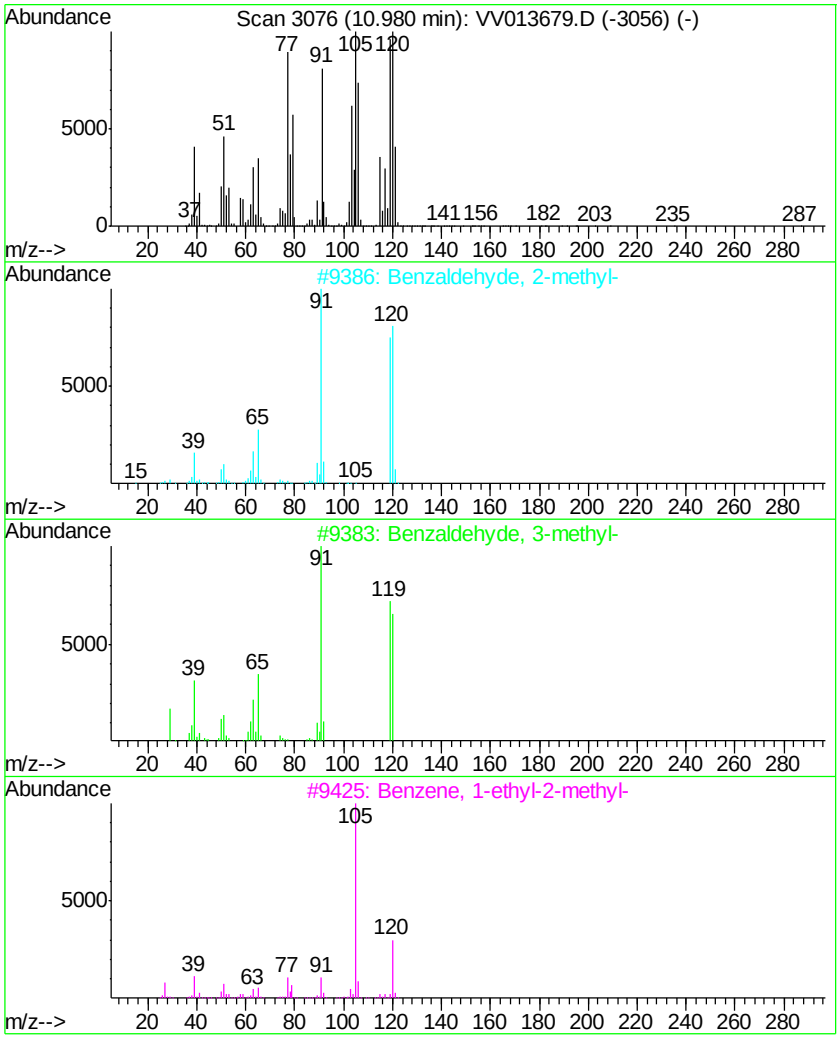
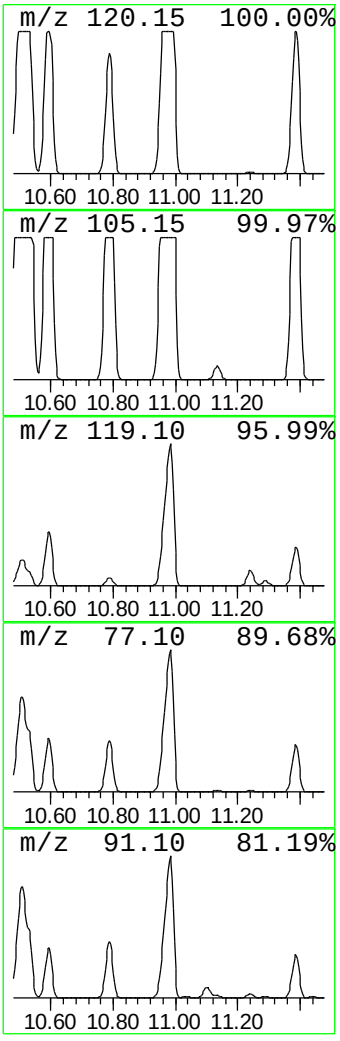
Peak Number 39 unknown-01 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.98	492.50 ug/L	273162000	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 2-methyl-	120	C8H8O	000529-20-4	49
2	Benzaldehyde, 3-methyl-	120	C8H8O	000620-23-5	49
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	47
4	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	46
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	45





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

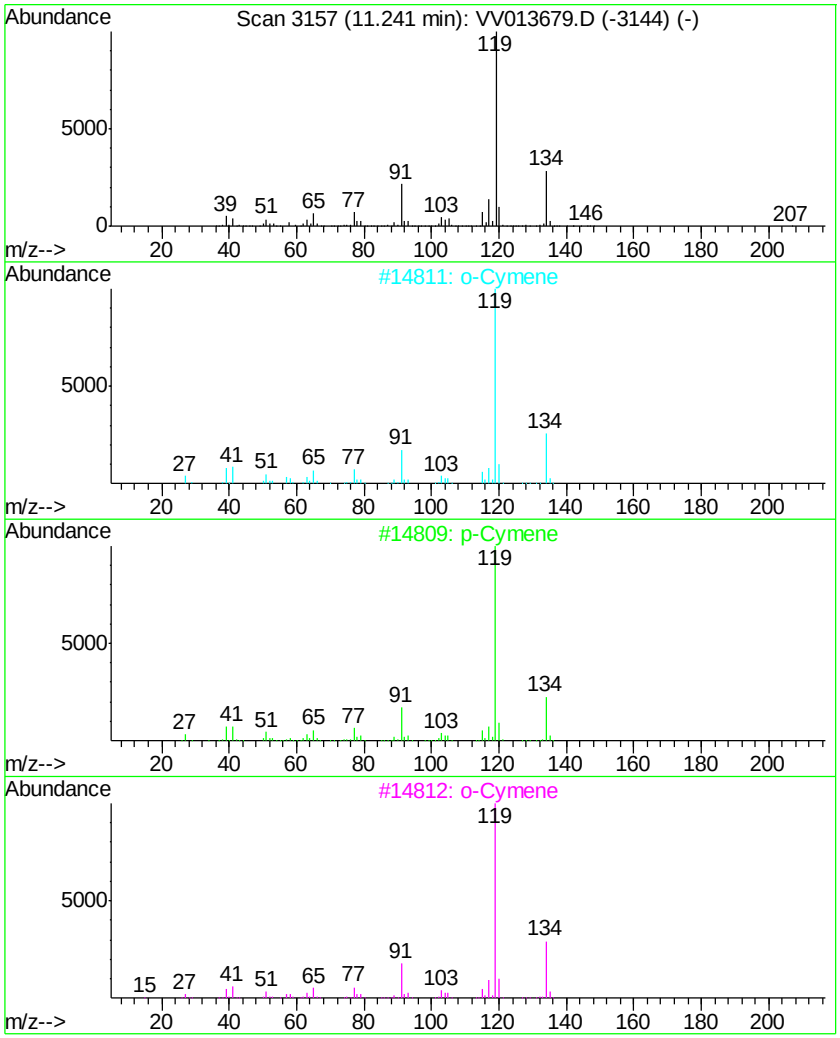
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

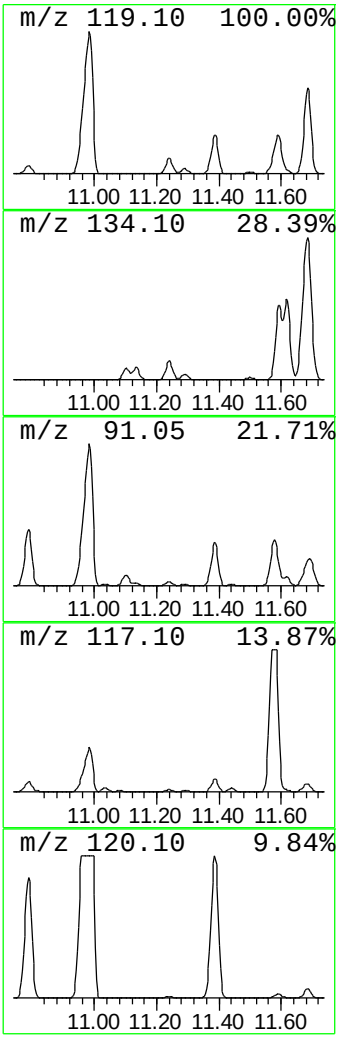
****

Peak Number 40 o-Cymene Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	6.83 ug/L	3789030	1,4-Dichlorobenzene-d4	11.30

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	97
3	o-Cymene	134	C10H14	000527-84-4	97
4	o-Cymene	134	C10H14	000527-84-4	97
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

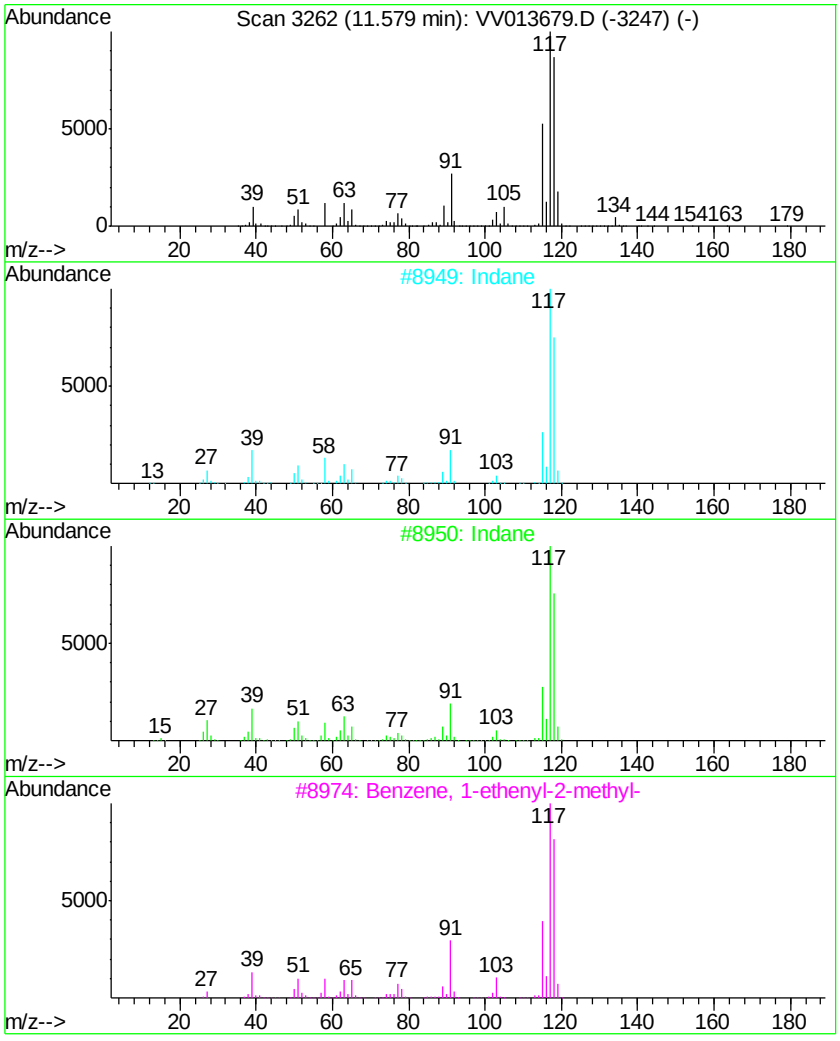
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

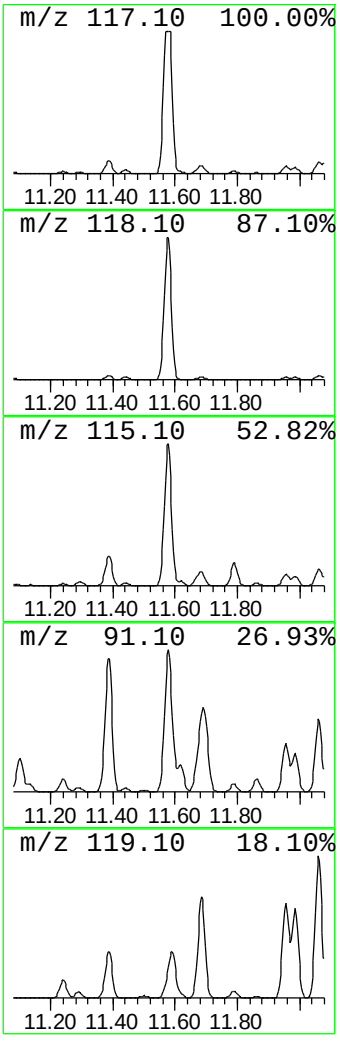
****

Peak Number 42 Indane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	132.43 ug/L	73451500	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Indane	118	C9H10	000496-11-7	94
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	89
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	76
5	Indane	118	C9H10	000496-11-7	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

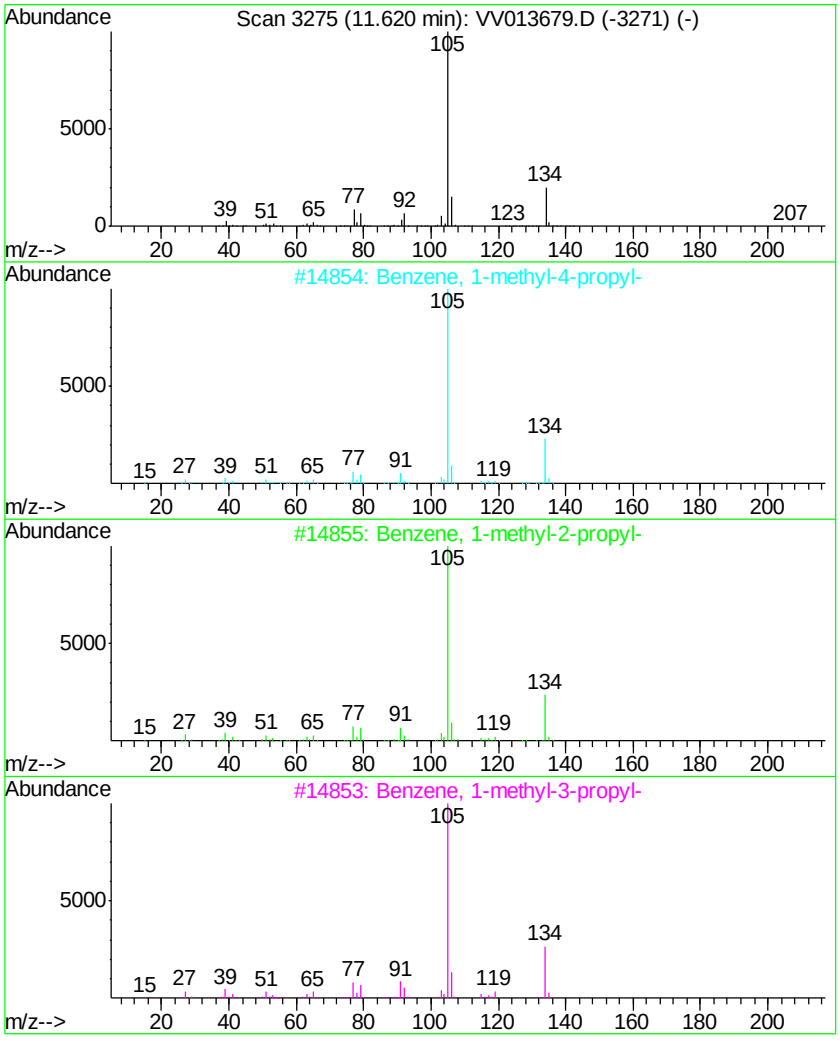
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

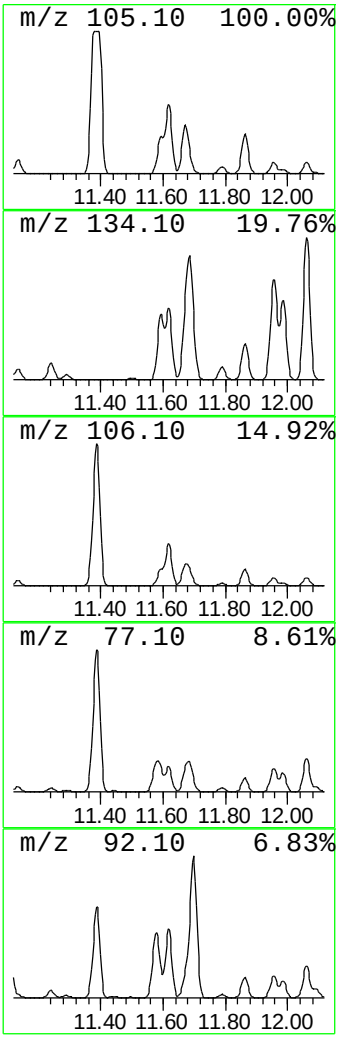
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 Benzene, 1-methyl-4-propyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	21.94 ug/L	12171300	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	86
3	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	83
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	80
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	72





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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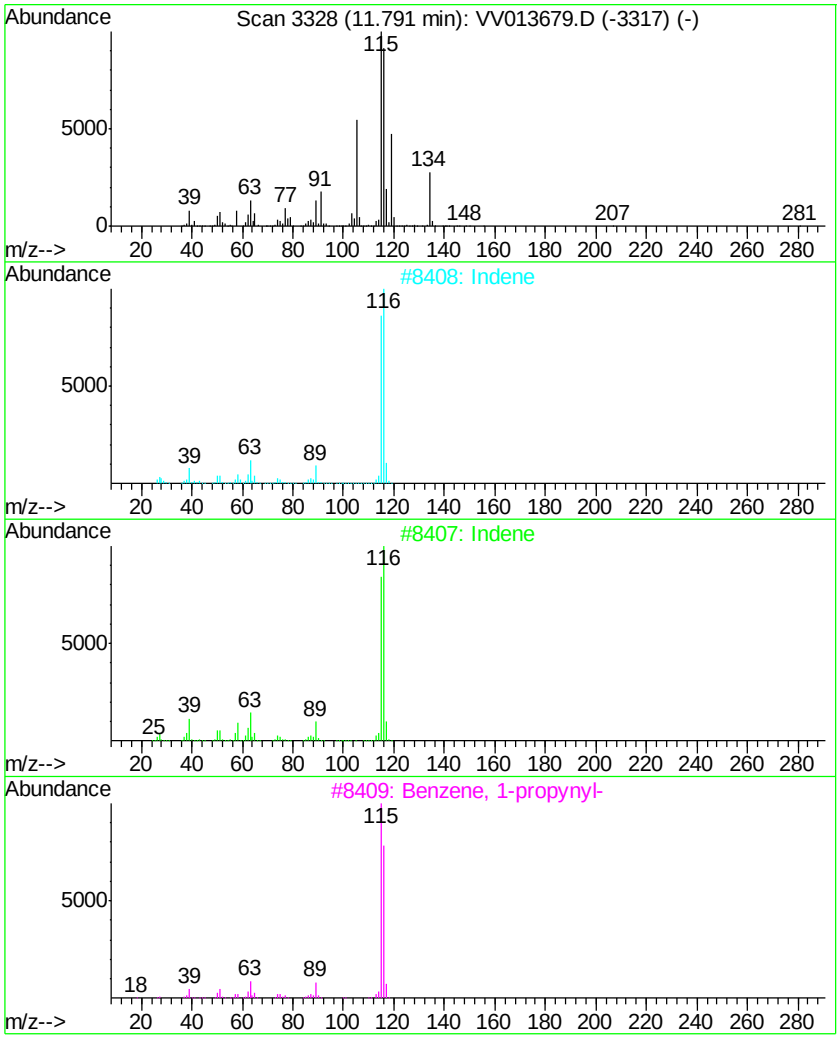
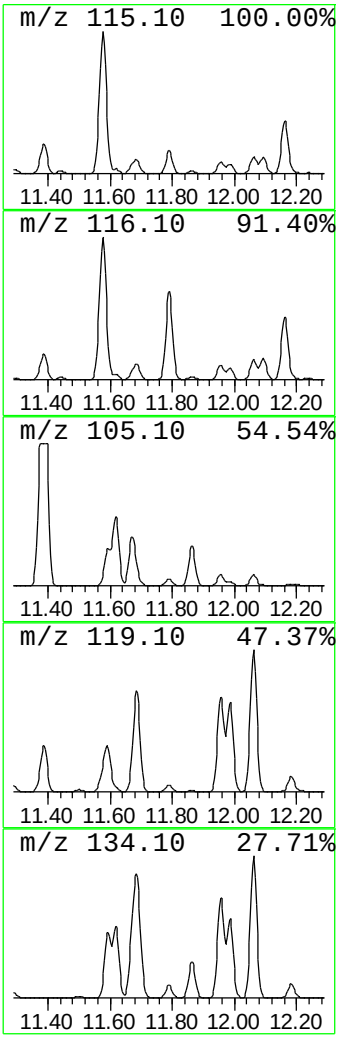
Peak Number 44 Indene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	10.11 ug/L	5605120	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	92
2	Indene	116	C9H8	000095-13-6	92
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
4	Indene	116	C9H8	000095-13-6	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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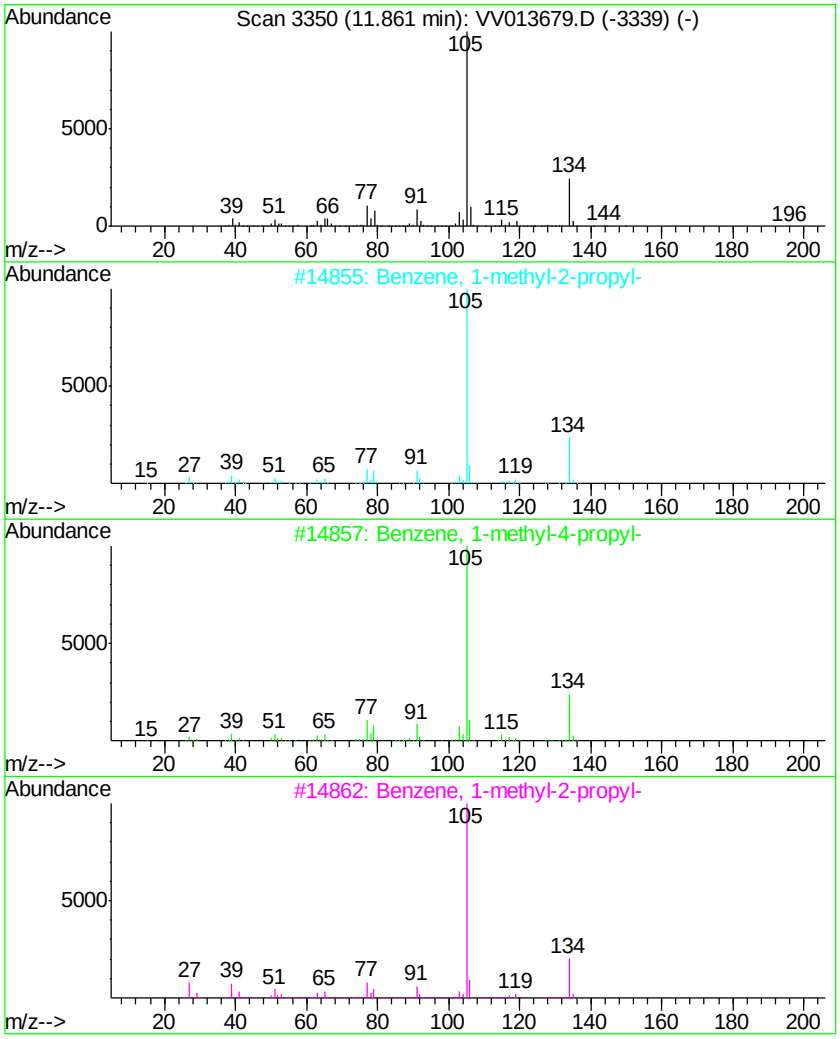
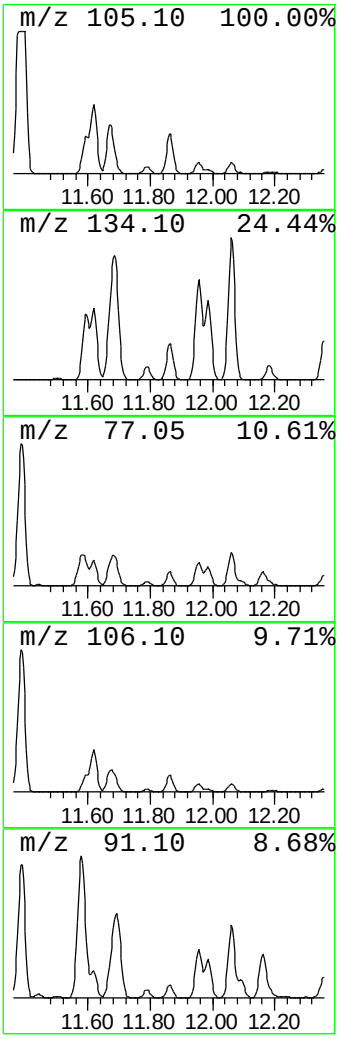
Peak Number 45 Benzene, 1-methyl-2-propyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	14.37 ug/L	7971380	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	93
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	93
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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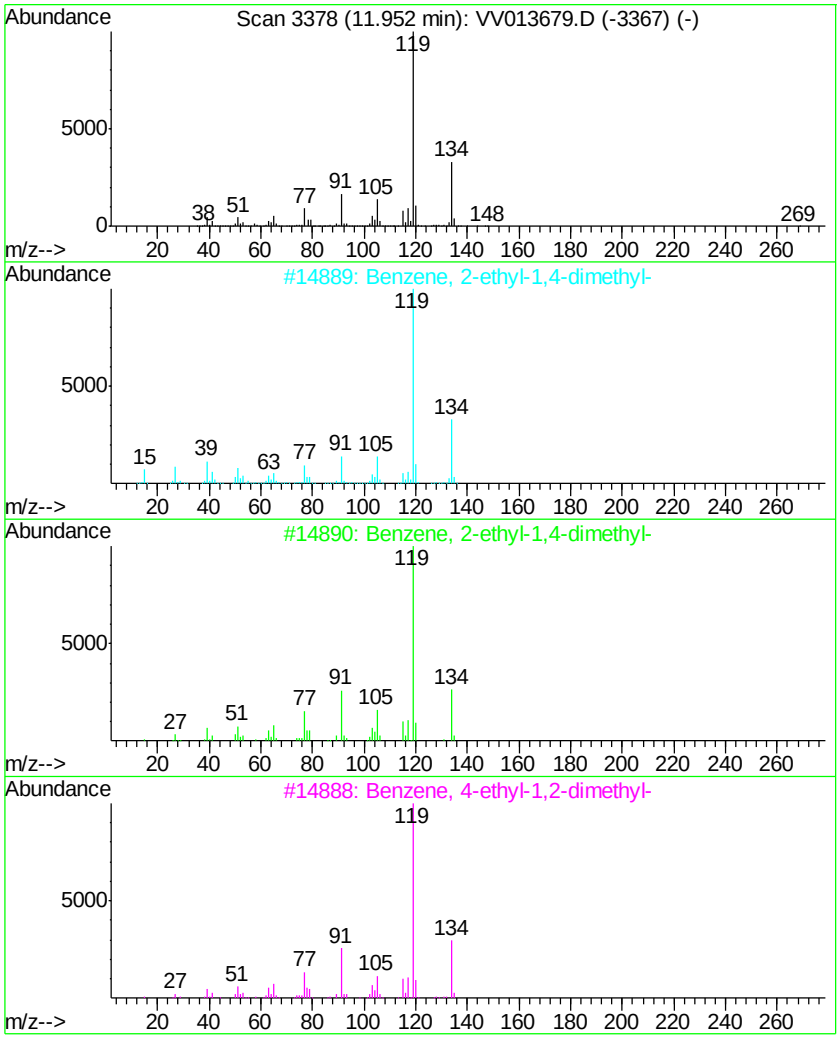
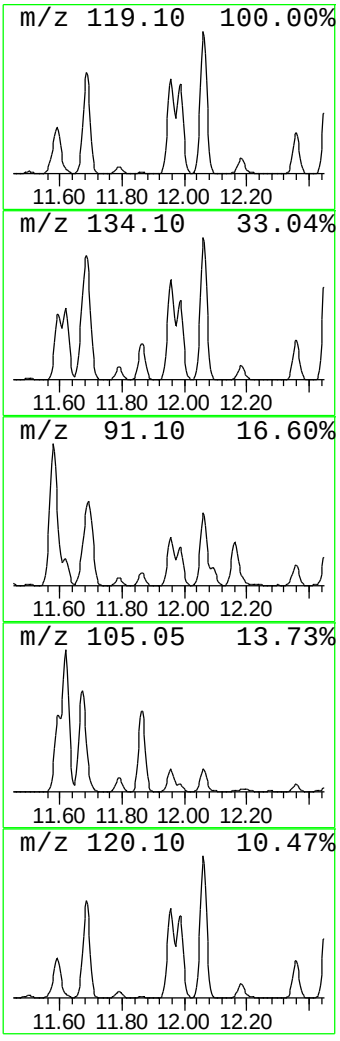
Peak Number 46 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	35.53 ug/L	19708500	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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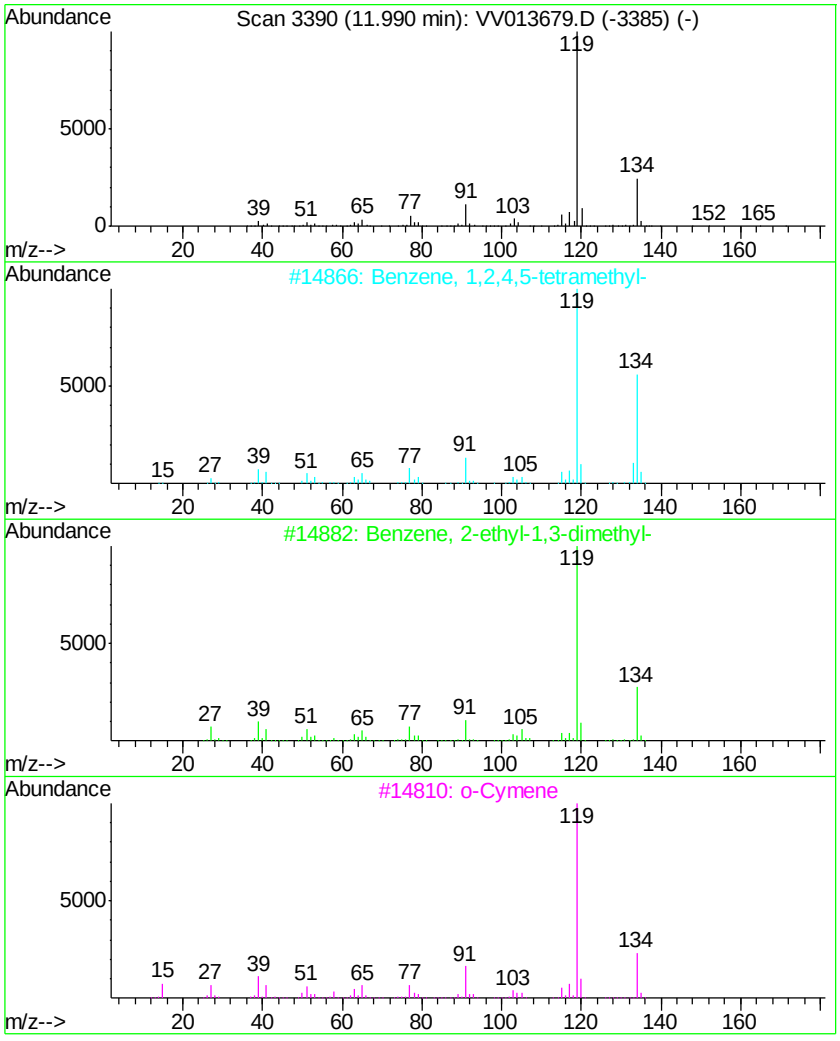
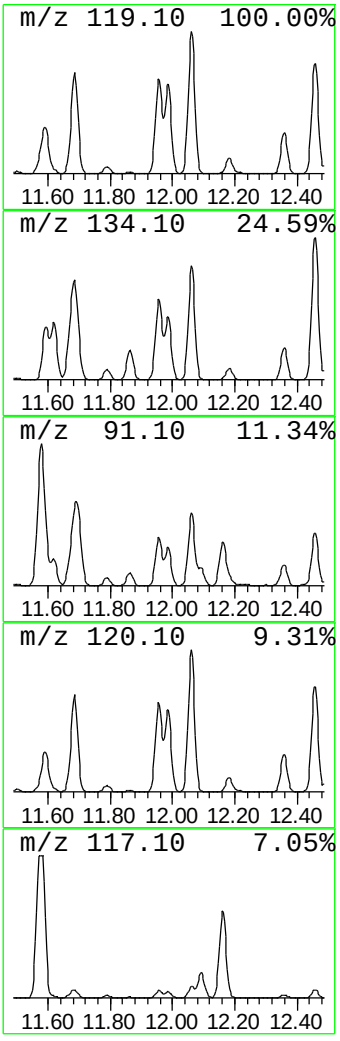
Peak Number 47 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	24.36 ug/L	13512000	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
3	o-Cymene	134	C10H14	000527-84-4	91
4	o-Cymene	134	C10H14	000527-84-4	91
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

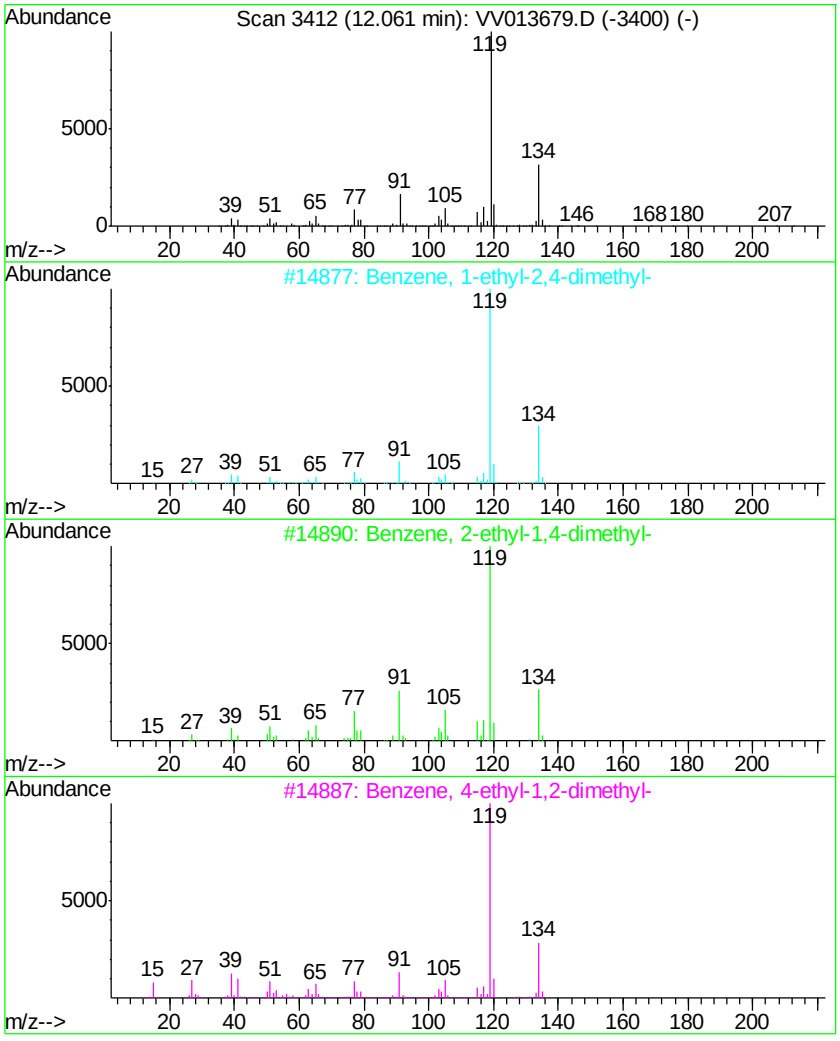
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

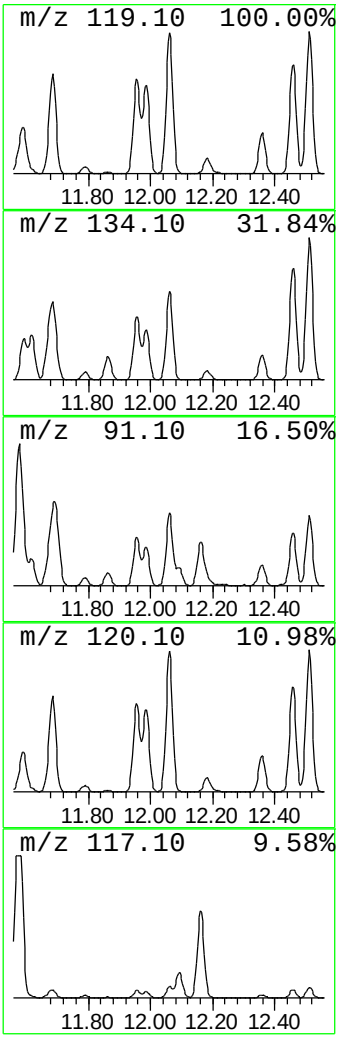
****

Peak Number 48 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	52.72 ug/L	29238400	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	97
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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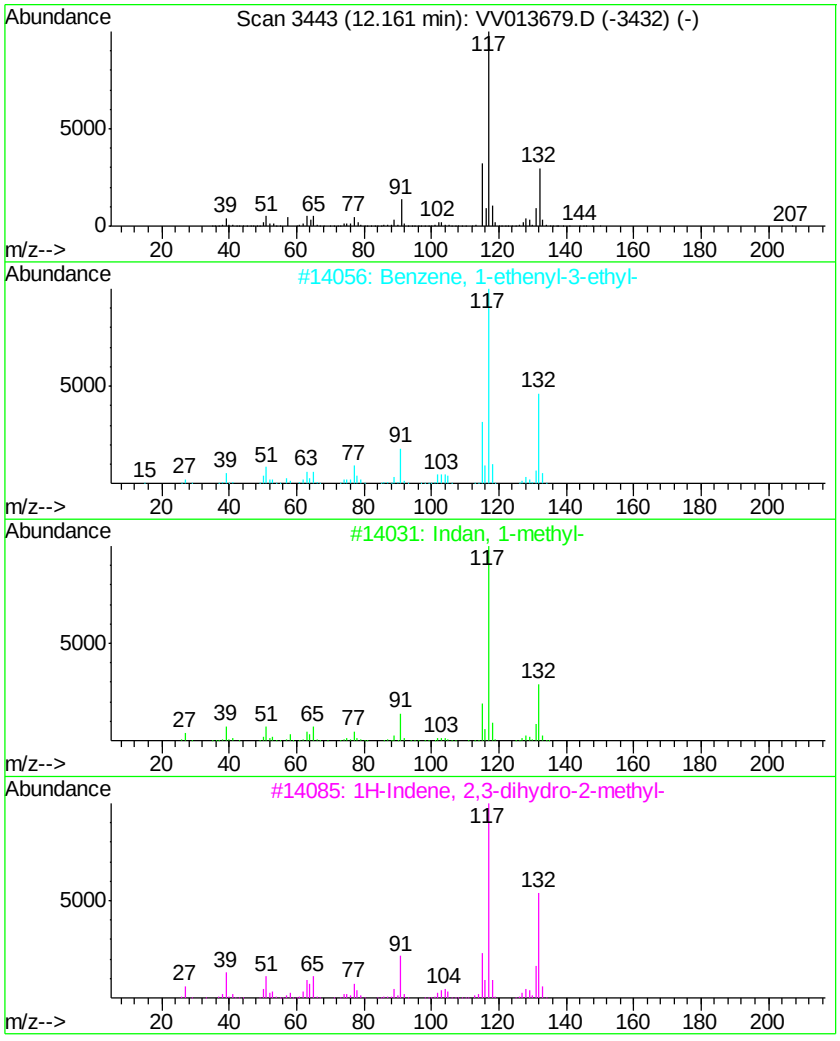
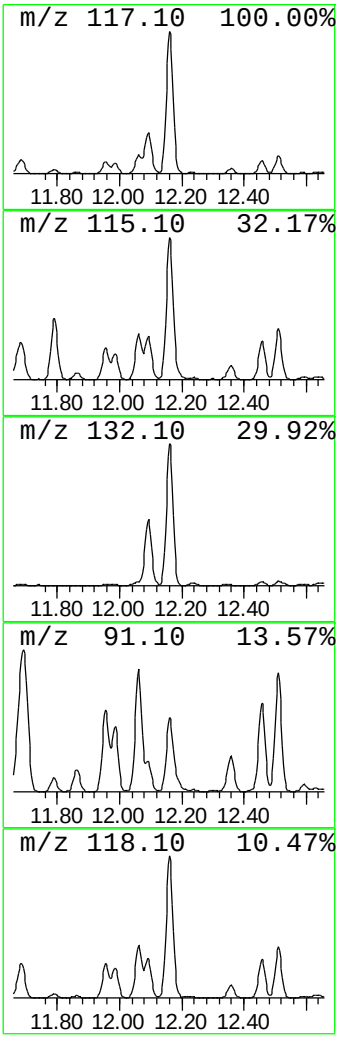
Peak Number 49 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	44.63 ug/L	24755400	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	91
2	Indan, 1-methyl-	132	C10H12	000767-58-8	90
3	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	87
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	87
5	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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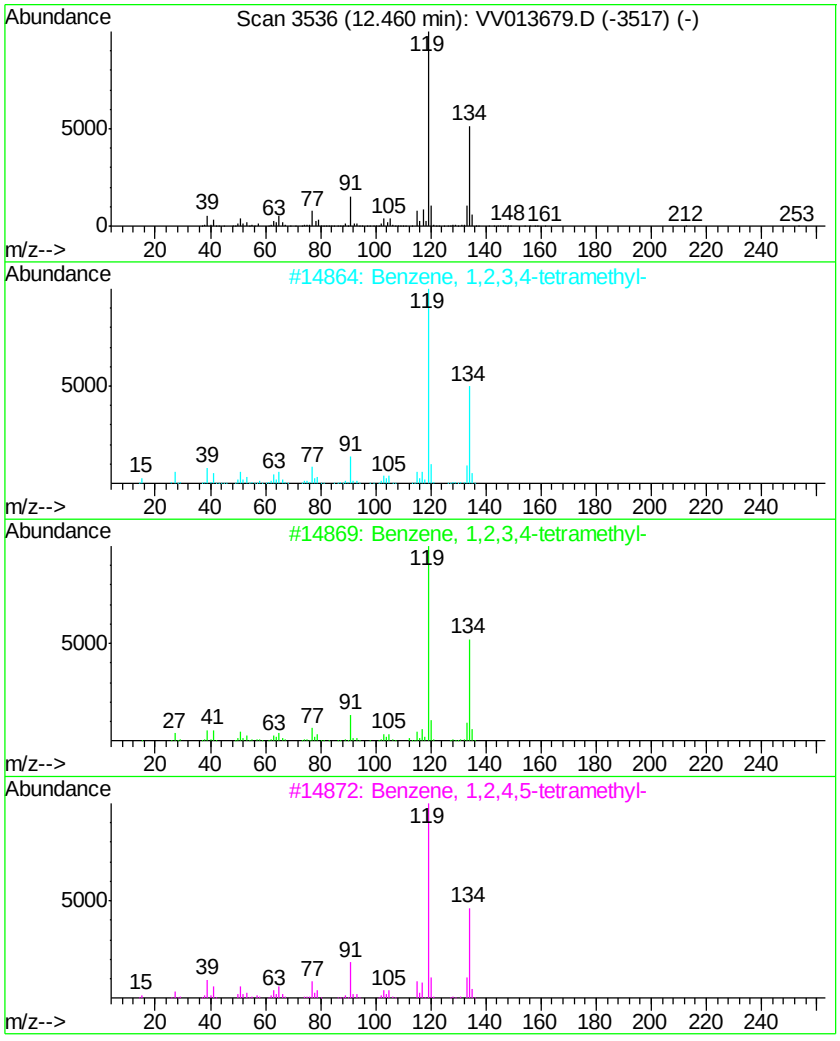
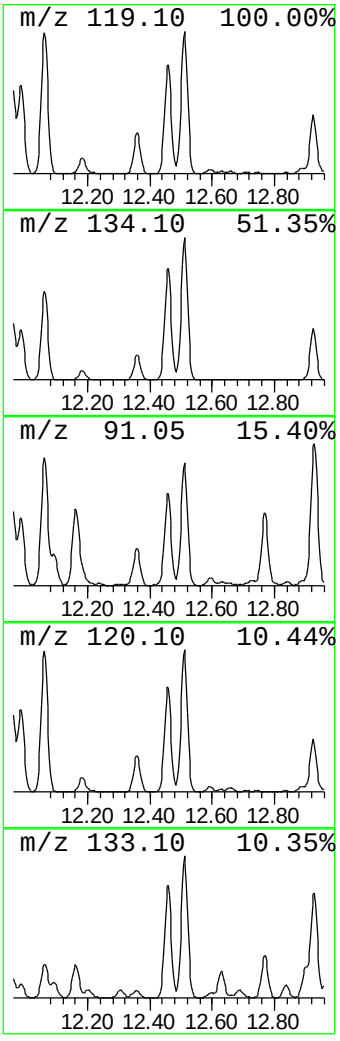
Peak Number 51 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	42.65 ug/L	23657800	1,4-Dichlorobenzene-d4	11.30

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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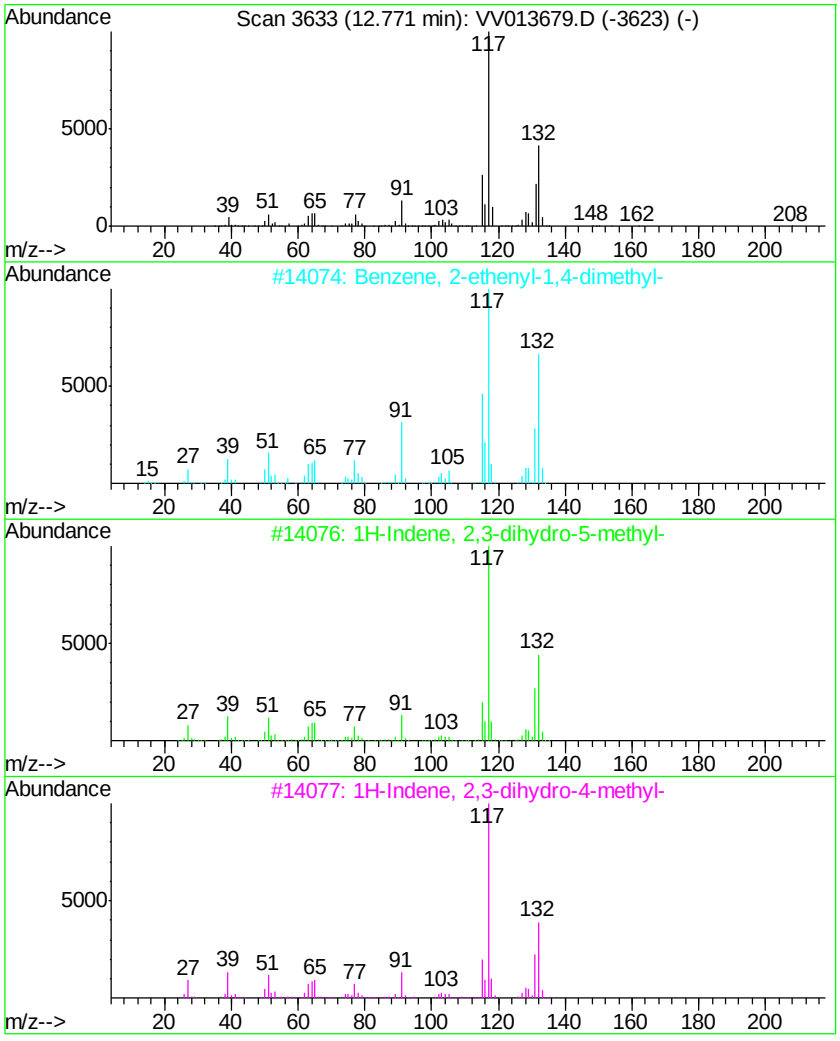
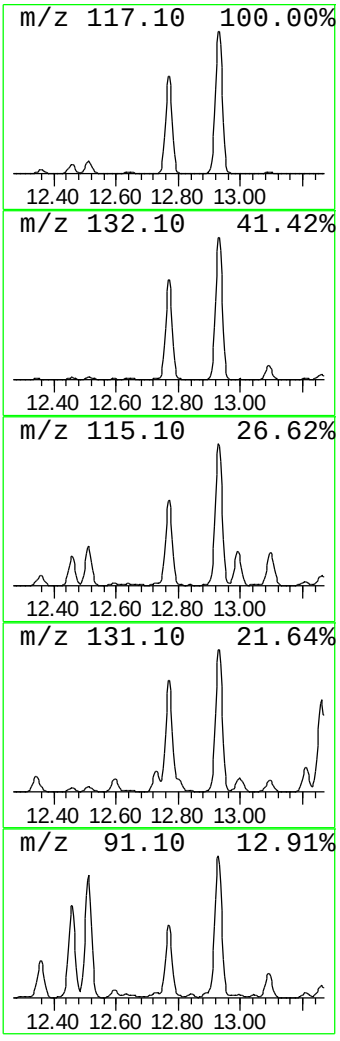
Peak Number 53 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	43.07 ug/L	23890200	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	94
4	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

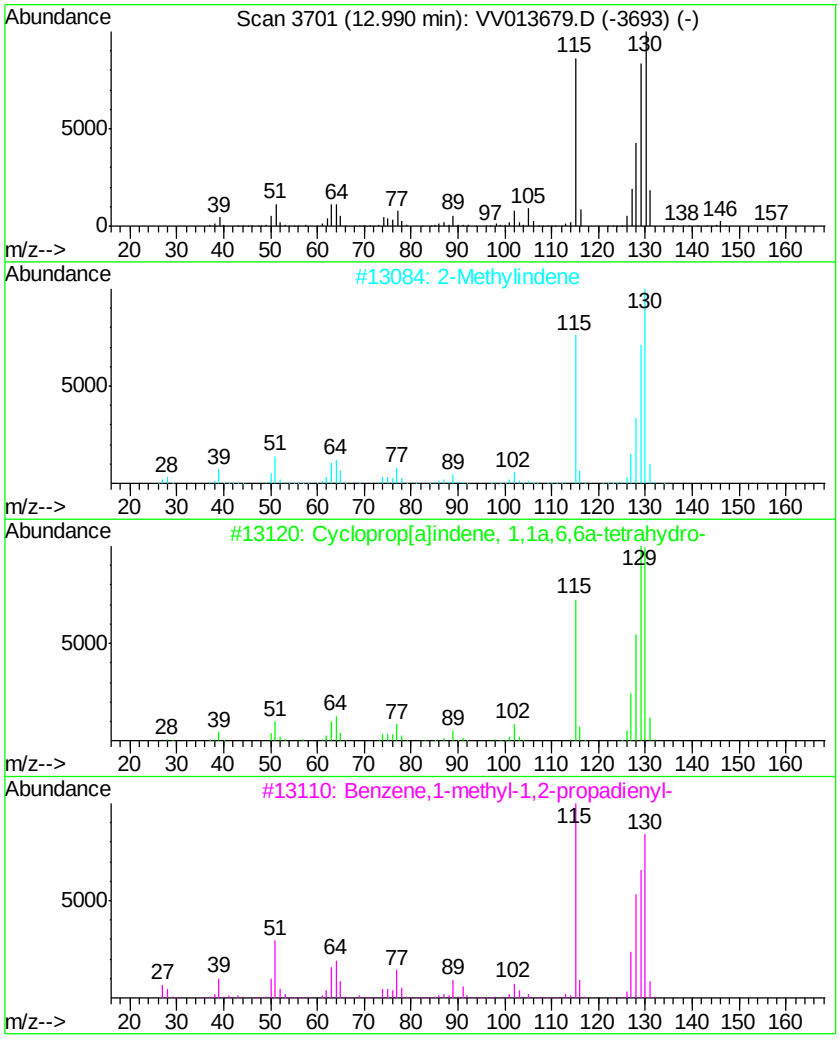
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

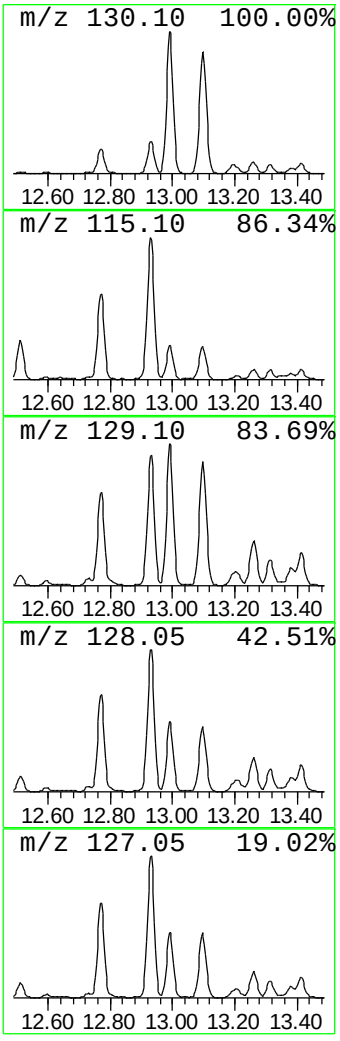
****

Peak Number 55 2-Methylindene Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	8.34 ug/L	4623620	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylindene	130	C10H10	002177-47-1	95
2	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	95
3	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	93
4	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	93
5	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

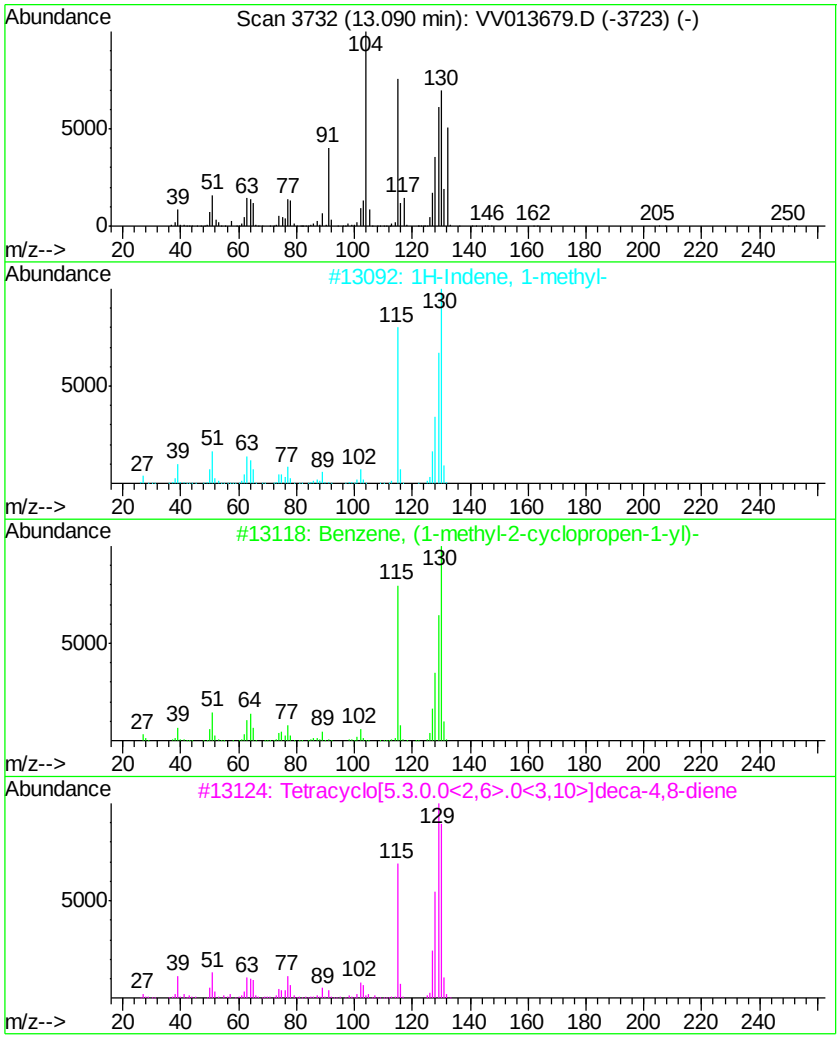
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

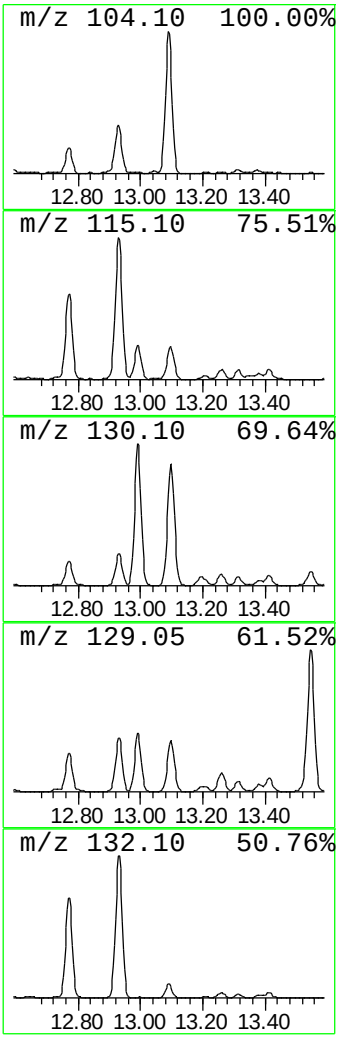
****

Peak Number 56 1H-Indene, 1-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	12.53 ug/L	6951140	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	95
2	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	91
3	Tetracyclo[5.3.0.0<2,6>.0<3,10>]...	130	C10H10	034324-40-8	90
4	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	90
5	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

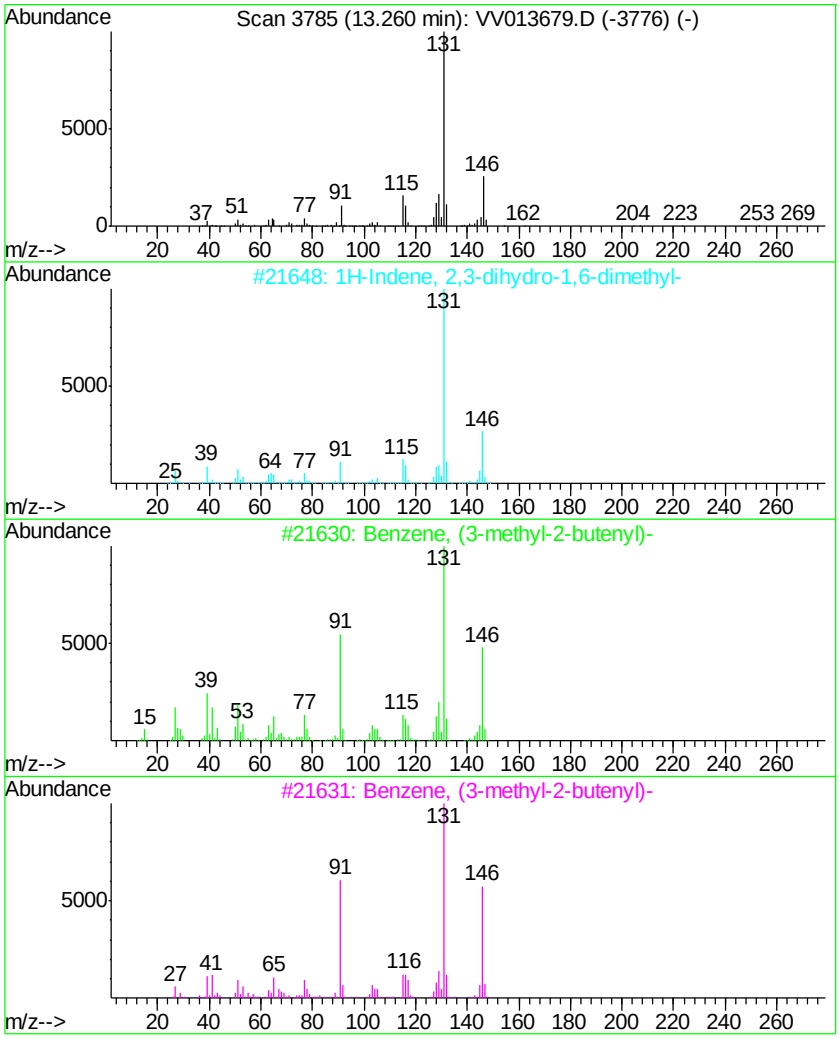
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

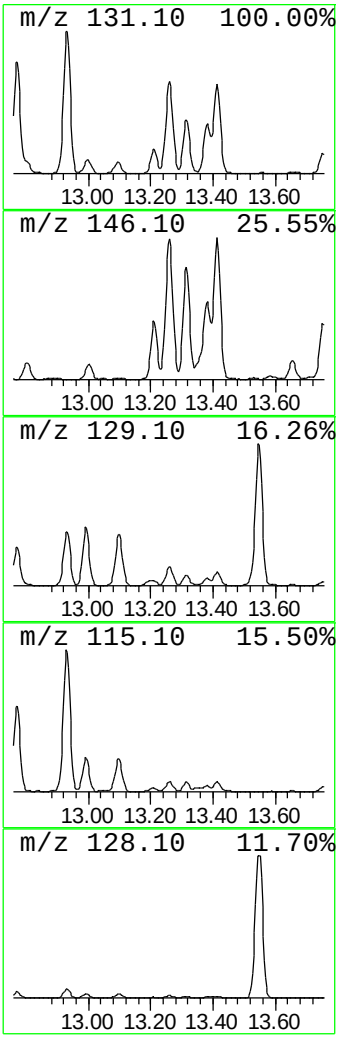
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 57 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	6.53 ug/L	3621350	1,4-Dichlorobenzene-d4	11.30

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	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	94
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	91
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
5	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

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

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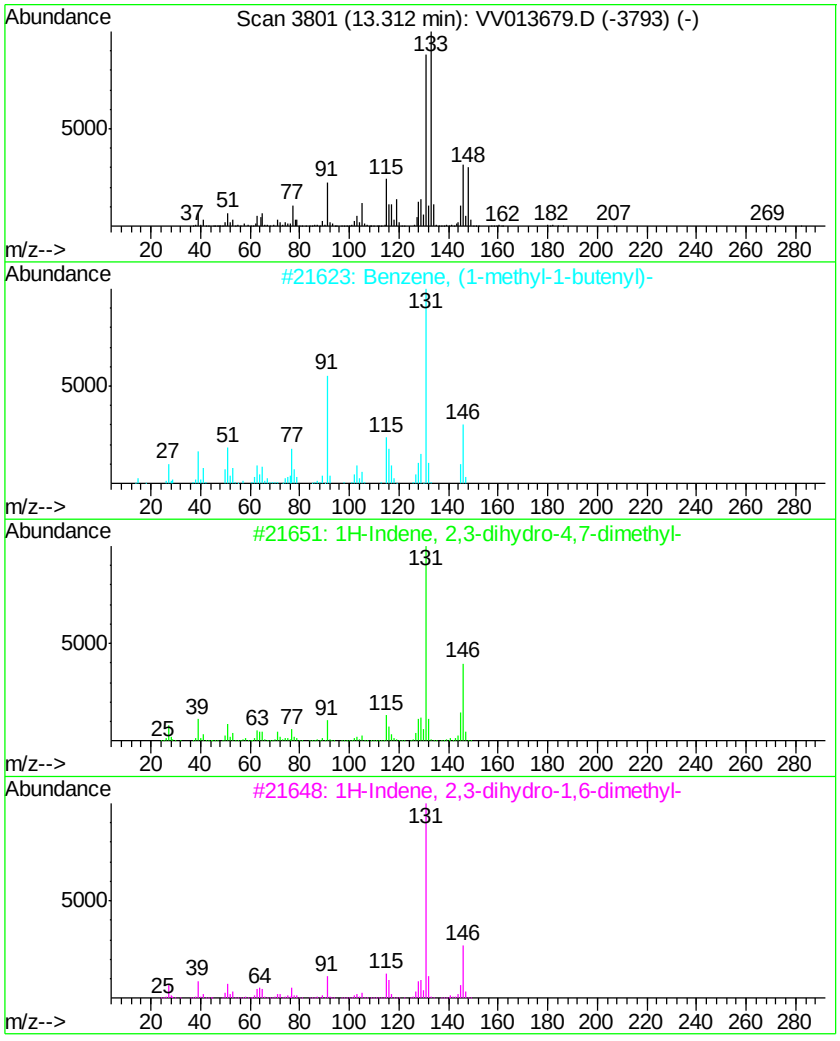
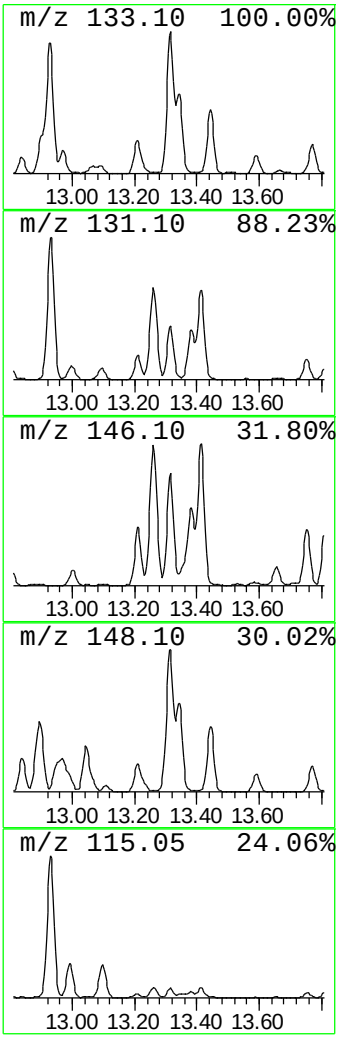
Peak Number 58 Benzene, (1-methyl-1-butenyl)- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.31	7.95 ug/L	4411520	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	87
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	86
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	86
4	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	70
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

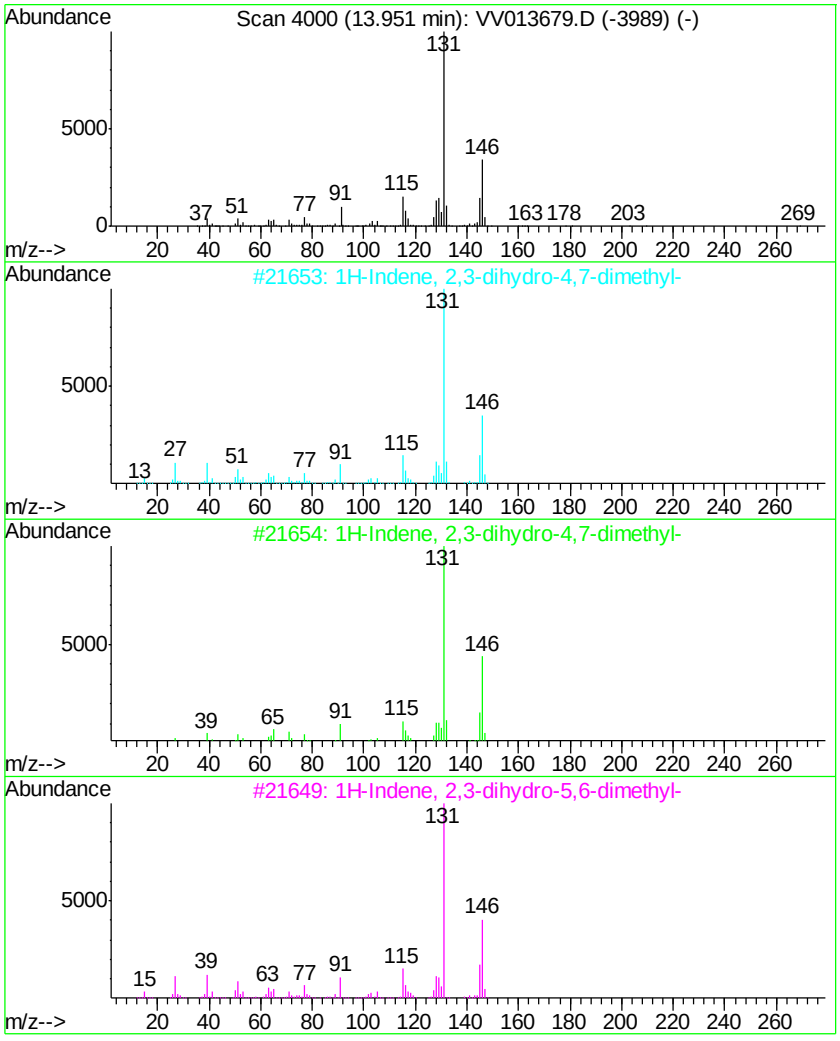
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

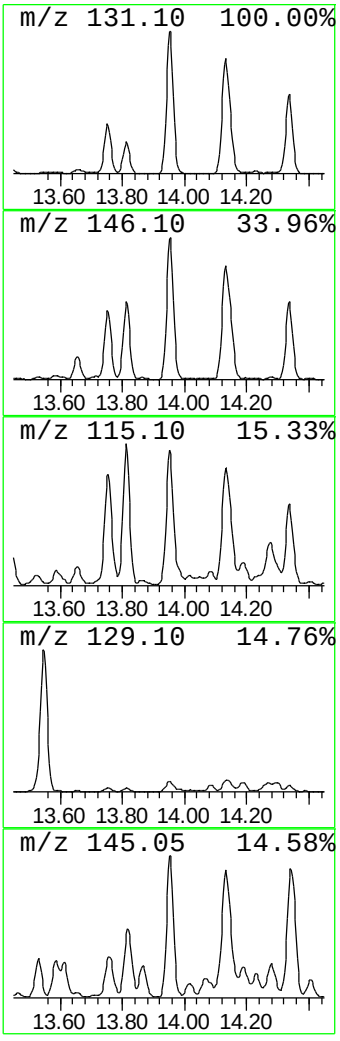
****

Peak Number 60 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	5.19 ug/L	2876960	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	97
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	96
3	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	96
4	1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	94
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.M
Quant Title : TRACE VOA SOM01.0

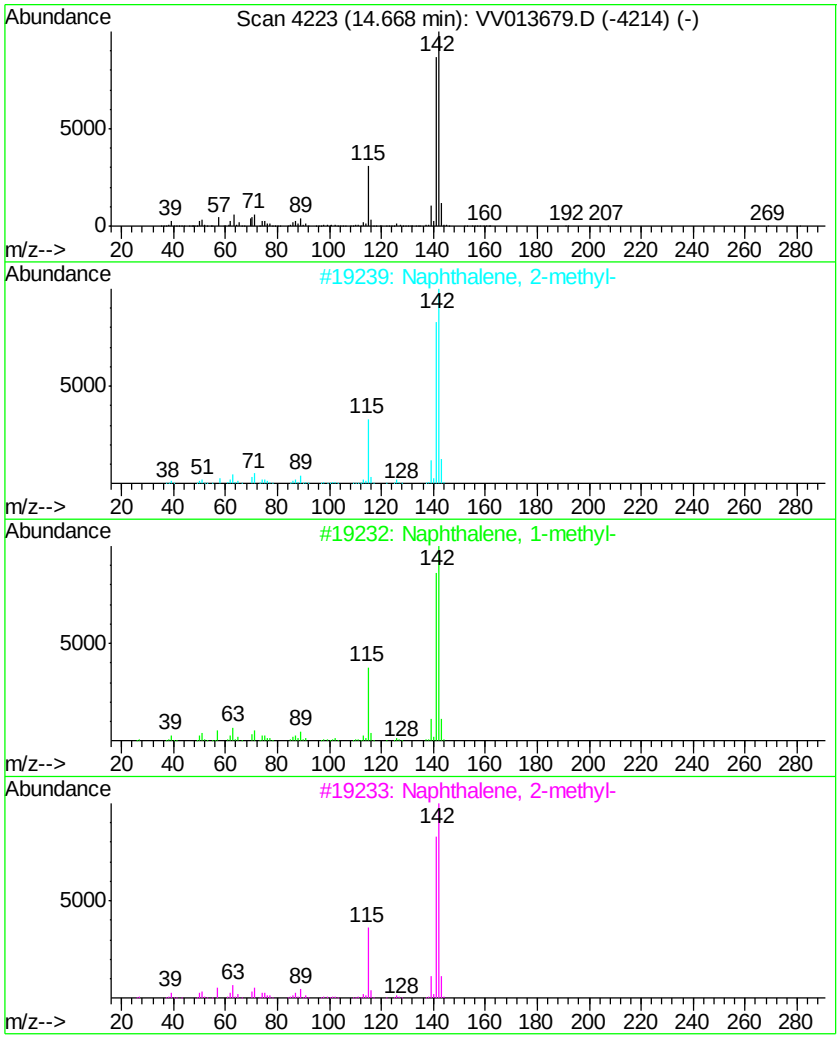
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

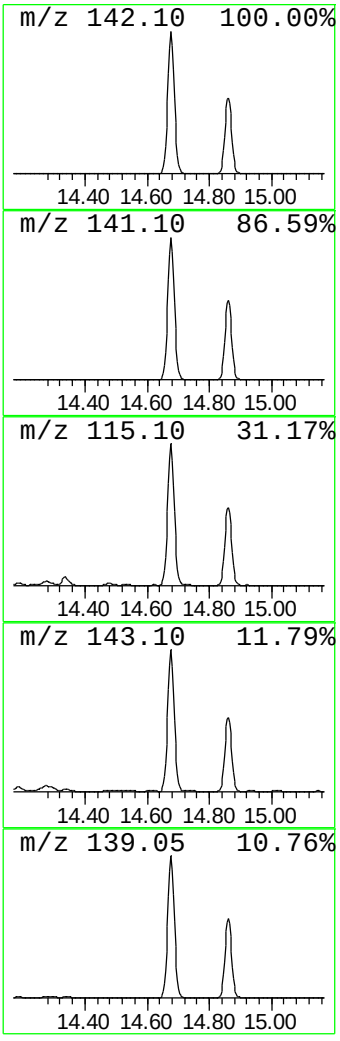
****

Peak Number 62 Naphthalene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.67	25.91 ug/L	14368900	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111919\
Data File : VV013679.D
Acq On : 19 Nov 2019 15:33
Operator : SY/MD
Sample : K5910-21
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GAQK4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111519WMA.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: Str...	1.23	1.2	ug/L	3093070	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	1.64	65.4	ug/L	171855000	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	1.78	2.4	ug/L	6161610	1	5.66	13135900	5.0
Diaziridine,3,3-d...	1.82	29.3	ug/L	77010100	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	1.92	8.0	ug/L	21003500	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	2.00	4.2	ug/L	11054600	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	2.04	6.8	ug/L	17992900	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	2.47	2.6	ug/L	6881500	1	5.66	13135900	5.0
(DEL) Alkane: Str...	2.52	16.9	ug/L	44270800	1	5.66	13135900	5.0
Furan, tetrahydro...	2.56	21.4	ug/L	56316900	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	2.60	17.6	ug/L	46128200	1	5.66	13135900	5.0
(DEL) Alkane: Str...	2.79	23.6	ug/L	62128000	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	2.97	3.5	ug/L	9182490	1	5.66	13135900	5.0
(DEL) Alkane: Str...	3.07	6.4	ug/L	16898000	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.19	3.7	ug/L	9747440	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.26	6.5	ug/L	17126300	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.31	6.0	ug/L	15801800	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.41	4.8	ug/L	12555200	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.49	6.7	ug/L	17595100	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.62	5.5	ug/L	14391200	1	5.66	13135900	5.0
(DEL) Alkane: Str...	3.71	1.9	ug/L	5097650	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	3.81	38.3	ug/L	100491000	1	5.66	13135900	5.0
(DEL) Alkane: Str...	4.45	1.2	ug/L	3080740	1	5.66	13135900	5.0
Cyclopentene, 1-m...	4.50	2.9	ug/L	7601050	1	5.66	13135900	5.0
(DEL) Alkane: Str...	4.81	6.3	ug/L	16490100	1	5.66	13135900	5.0
(DEL) Alkane: Str...	4.96	2.3	ug/L	5993280	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	5.23	2.8	ug/L	7457790	1	5.66	13135900	5.0
(DEL) Alkane: Str...	5.28	6.7	ug/L	17488000	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	5.37	2.0	ug/L	5344520	1	5.66	13135900	5.0
Cyclopentene, 4,4...	5.98	1.9	ug/L	5056230	1	5.66	13135900	5.0
(DEL) Alkane: Cyc...	6.41	1.0	ug/L	2741810	1	5.66	13135900	5.0
(DEL) Alkane: Str...	6.69	1.2	ug/L	3091830	1	5.66	13135900	5.0
Cyclobutane, (1-m...	6.84	5.7	ug/L	14974000	1	5.66	13135900	5.0
Cyclohexene, 1-me...	7.21	2.5	ug/L	6549050	1	5.66	13135900	5.0
Benzene, propyl-	10.40	110.6	ug/L	61314800	3	11.30	2773230	5.0
Benzene, 1-ethyl-...	10.51	421.9	ug/L	234002000	3	11.30	2773230	5.0
Benzene, 1,2,3-tr...	10.59	163.5	ug/L	90701500	3	11.30	2773230	5.0
2,3-Heptadien-5-y...	10.79	149.4	ug/L	82861100	3	11.30	2773230	5.0
unknown-01	10.98	492.5	ug/L	273162000	3	11.30	2773230	5.0
o-Cymene	11.24	6.8	ug/L	3789030	3	11.30	2773230	5.0
Indane	11.58	132.4	ug/L	73451500	3	11.30	2773230	5.0
Benzene, 1-methyl...	11.62	21.9	ug/L	12171300	3	11.30	2773230	5.0
Indene	11.79	10.1	ug/L	5605120	3	11.30	2773230	5.0
Benzene, 1-methyl...	11.86	14.4	ug/L	7971380	3	11.30	2773230	5.0
Benzene, 2-ethyl-...	11.95	35.5	ug/L	19708500	3	11.30	2773230	5.0
Benzene, 1,2,4,5-...	11.99	24.4	ug/L	13512000	3	11.30	2773230	5.0
Benzene, 1-ethyl-...	12.06	52.7	ug/L	29238400	3	11.30	2773230	5.0
Benzene, 1-etheny...	12.16	44.6	ug/L	24755400	3	11.30	2773230	5.0
Benzene, 1,2,3,4-...	12.46	42.6	ug/L	23657800	3	11.30	2773230	5.0

Benzene, 2-etheny...	12.77	43.1	ug/L	23890200	3	11.30	2773230	5.0
2-Methylindene	12.99	8.3	ug/L	4623620	3	11.30	2773230	5.0
1H-Indene, 1-methyl-	13.09	12.5	ug/L	6951140	3	11.30	2773230	5.0
1H-Indene, 2,3-di...	13.26	6.5	ug/L	3621350	3	11.30	2773230	5.0
Benzene, (1-methy...	13.31	8.0	ug/L	4411520	3	11.30	2773230	5.0
1H-Indene, 2,3-di...	13.95	5.2	ug/L	2876960	3	11.30	2773230	5.0
Naphthalene, 1-me...	14.67	25.9	ug/L	14368900	3	11.30	2773230	5.0

Instrument :
MSVOA_V
ClientSampleId :
GAQK4