LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

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\SOMVTR072318WMA.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	1.029	28	43	65	rBV	1825624	2294311	81.65%	11.173%
2	1.119	65	71	88	rVB	72561	85425	3.04%	0.416%
3	1.315	123	132	150	rBV2	127883	204932	7.29%	0.998%
4	1.395	150	157	163	rVV	108608	120232	4.28%	0.586%
5	1.431	163	168	177	rVB	44486	51151	1.82%	0.249%
6	1.579	207	214	226	rVB	78853	94808	3.37%	0.462%
7	1.781	269	277	284	rBV	68840	85159	3.03%	0.415%
8	2.128	373	385	398	rBV2	222907	387921	13.81%	1.889%
9	2.199	399	407	423	rVB	28328	45715	1.63%	0.223%
10	2.331	438	448	470	rVB3	26391	70145	2.50%	0.342%
11	2.984	639	651	666	rVB2	44198	87206	3.10%	0.425%
12	3.762	873	893	921	rBV	224600	534975	19.04%	2.605%
13	3.958	939	954	967	rBV	108618	281012	10.00%	1.369%
14	4.408	1077	1094	1122	rVB2	118012	311988	11.10%	1.519%
15	4.787	1198	1212	1240	rVB	31528	77636	2.76%	0.378%
16	5.099	1292	1309	1332	rBV2	277041	635003	22.60%	3.092%
17	5.418	1386	1408	1427	rVB5	22061	61706	2.20%	0.301%
18	5.533	1427	1444	1471	rBV3	13495	33362	1.19%	0.162%
19	5.672	1471	1487	1509	rBV	281177	549447	19.55%	2.676%
20	6.125	1615	1628	1653	rVB	158807	314911	11.21%	1.534%
21	6.340	1681	1695	1731	rBV	224951	430317	15.31%	2.096%
22	6.929	1866	1878	1897	rBV2	40067	71473	2.54%	0.348%
23	7.035	1899	1911	1932	rVB	71862	124492	4.43%	0.606%
24	7.363	2000	2013	2030	rBV	299395	514643	18.32%	2.506%
25	7.610	2073	2090	2099	rBV3	17158	30844	1.10%	0.150%
26	7.668	2099	2108	2120	rVV	41030	65081	2.32%	0.317%
27	8.141	2240	2255	2268	rBV	439967	725565	25.82%	3.533%
28	8.289	2289	2301	2340	rVB	491629	808964	28.79%	3.940%
29	8.720	2418	2435	2452	rBV	88219	149289	5.31%	0.727%
30	8.900	2478	2491	2522	rVB	409056	666066	23.70%	3.244%
31	9.109	2544	2556	2569	rBV	41097	65451	2.33%	0.319%
32	9.527	2676	2686	2703	rBV3	20987	44847	1.60%	0.218%
33	9.855	2776	2788	2830	rBV	767924	1190553	42.37%	5.798%
34	10.215	2886	2900	2908	rBV	113808	179667	6.39%	0.875%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

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\SOMVTR072318WMA.M
Title : TRACE VOA SOM01.0

35	10.266	2908	2916	2940	rVB	127542	206821	7.36%	1.007%
36	10.565	2997	3009	3022	rBV	104507	170463	6.07%	0.830%
37	10.755	3060	3068	3077	rBV3	20365	32966	1.17%	0.161%
38	10.861	3092	3101	3123	rBV2	52797	100019	3.56%	0.487%
39	11.199	3194	3206	3227	rBV	1639579	2385433	84.90%	11.617%
40	11.302	3227	3238	3252	rVB	401623	631141	22.46%	3.074%
41	11.501	3289	3300	3314	rBV	127667	201792	7.18%	0.983%
42	11.578	3314	3324	3343	rVV	129869	237611	8.46%	1.157%
43	11.678	3344	3355	3376	rVB	298849	486153	17.30%	2.368%
44	11.829	3391	3402	3414	rBV	133710	209842	7.47%	1.022%
45	11.999	3439	3455	3463	rBV4	32578	75800	2.70%	0.369%
46	12.054	3463	3472	3481	rBV	98883	171824	6.12%	0.837%
47	12.285	3534	3544	3565	rVB3	22433	46817	1.67%	0.228%
48	12.395	3565	3578	3596	rBV	1942553	2809848	100.00%	13.684%
49	12.665	3651	3662	3676	rBV	81989	130970	4.66%	0.638%
50	12.980	3751	3760	3774	rBV	39140	58880	2.10%	0.287%
51	13.147	3797	3812	3827	rBV	201201	356292	12.68%	1.735%
52	13.375	3875	3883	3895	rVB	22754	36601	1.30%	0.178%
53	13.488	3907	3918	3937	rBV	428653	649174	23.10%	3.161%
54	13.729	3983	3993	4015	rVB2	40446	70290	2.50%	0.342%
55	14.160	4116	4127	4146	rVB4	41284	71074	2.53%	0.346%

Sum of corrected areas: 20534108

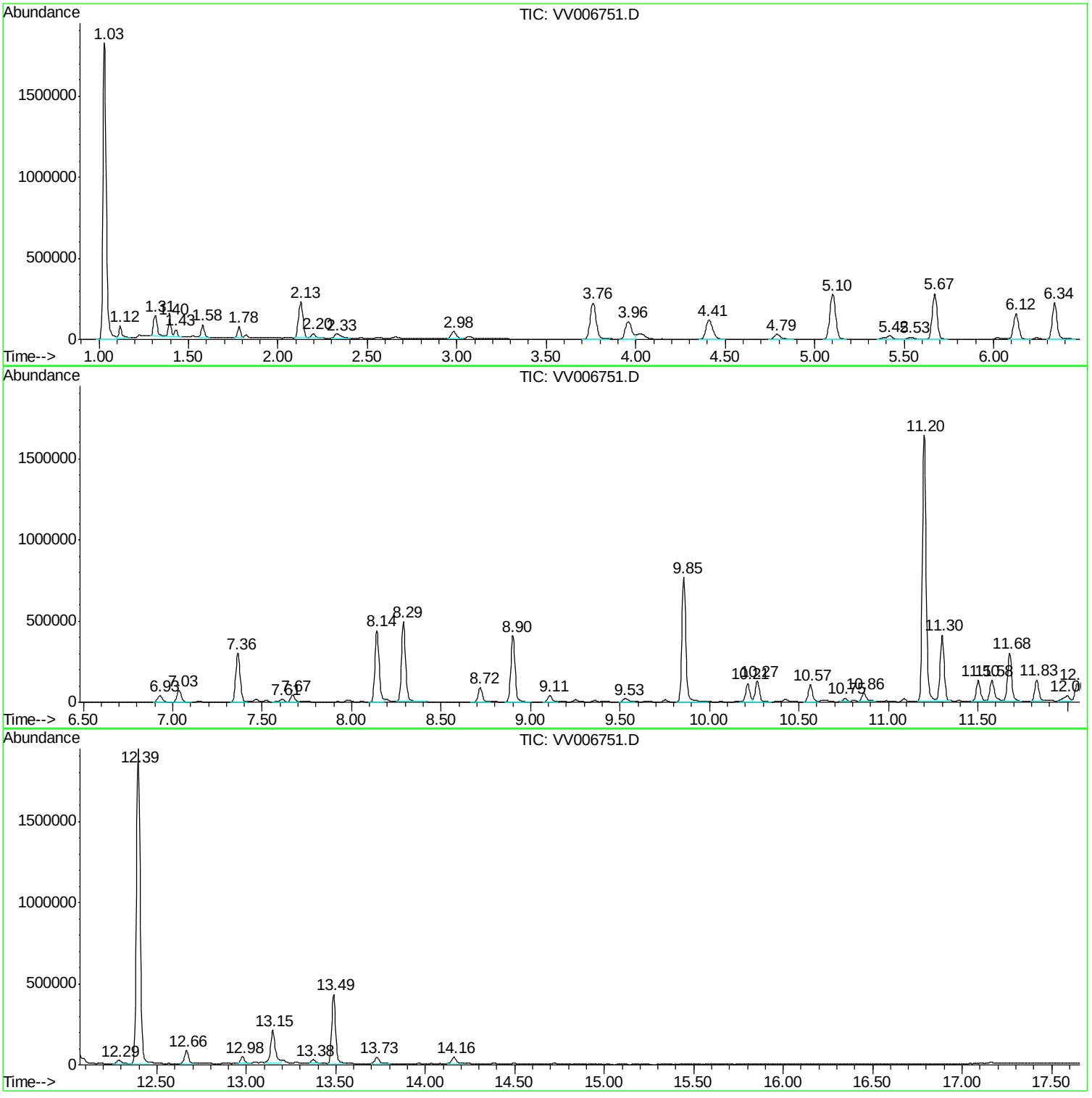
LSC Report - Integrated Chromatogram

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.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\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

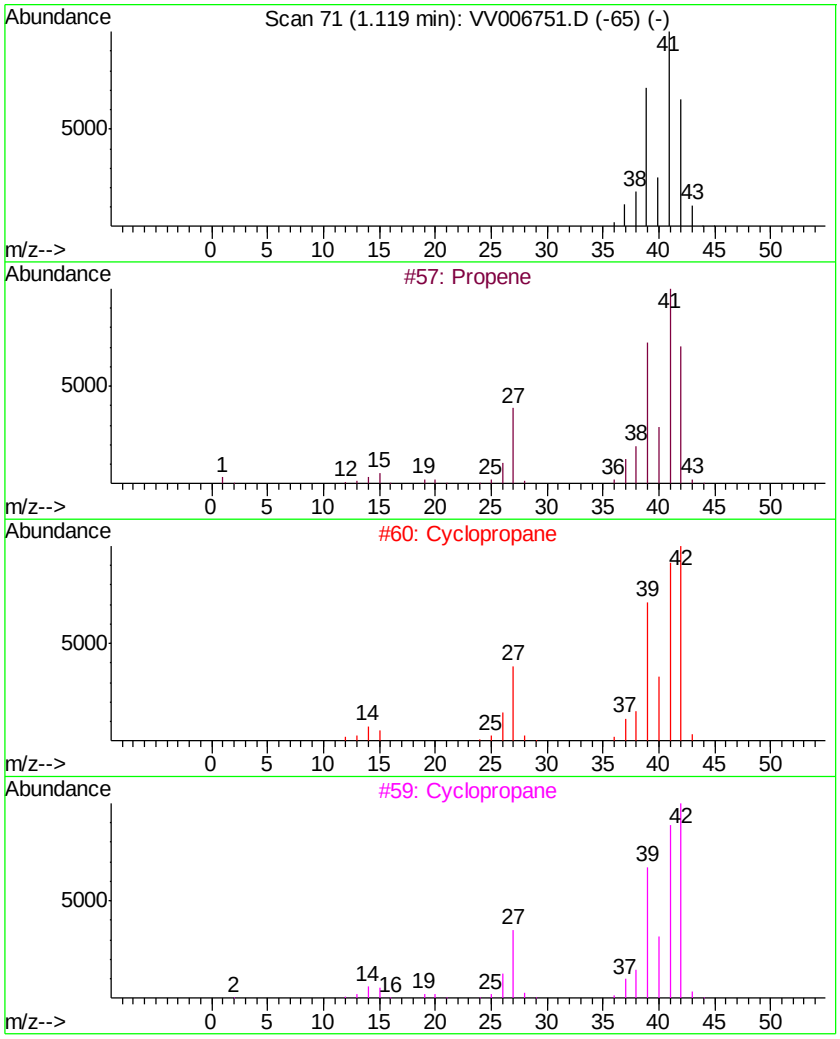
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

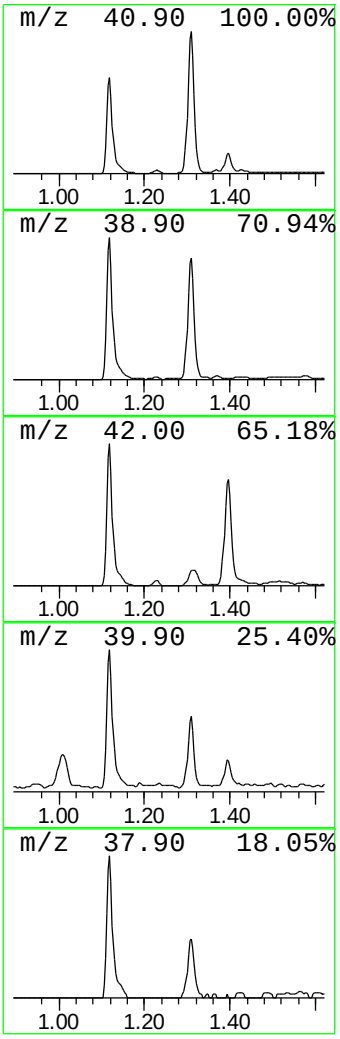
****

Peak Number 2 (DEL) Alkane: Cyclic1.12 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.12	0.78 ug/L	85425	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Cyclopropane	42	C3H6	000075-19-4	78
3	Cyclopropane	42	C3H6	000075-19-4	78
4	Propene	42	C3H6	000115-07-1	40
5	Cyclopropene	40	C3H4	002781-85-3	16





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

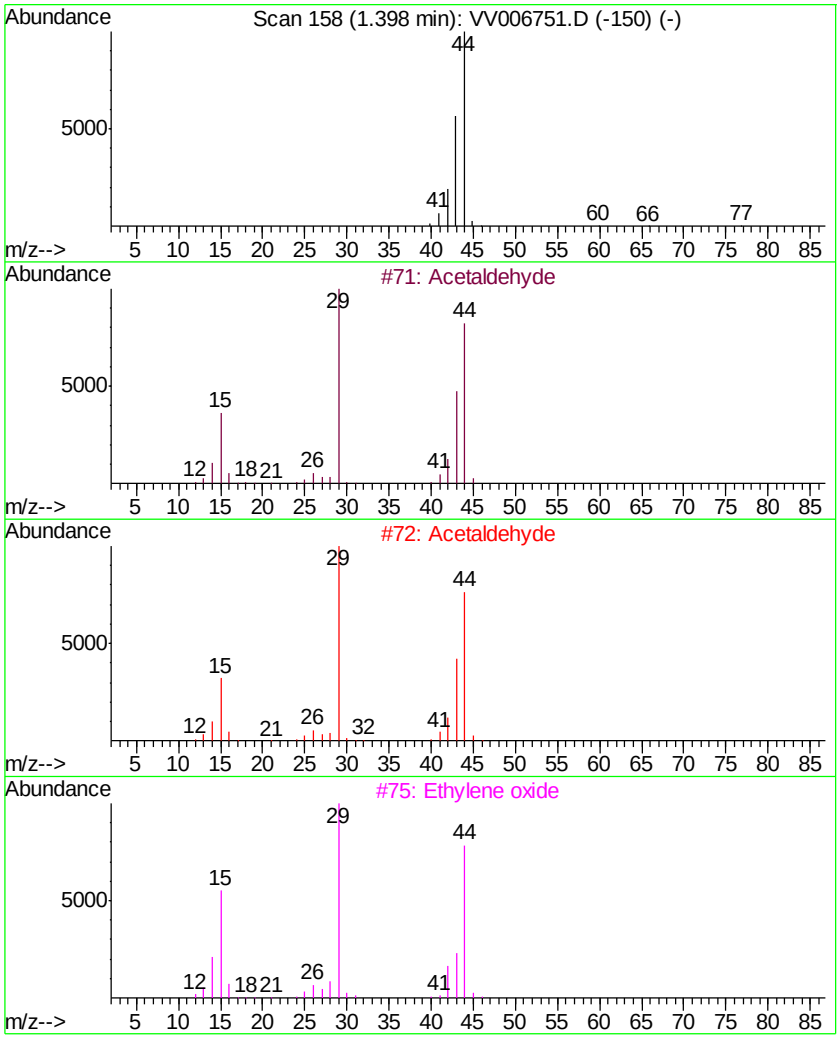
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

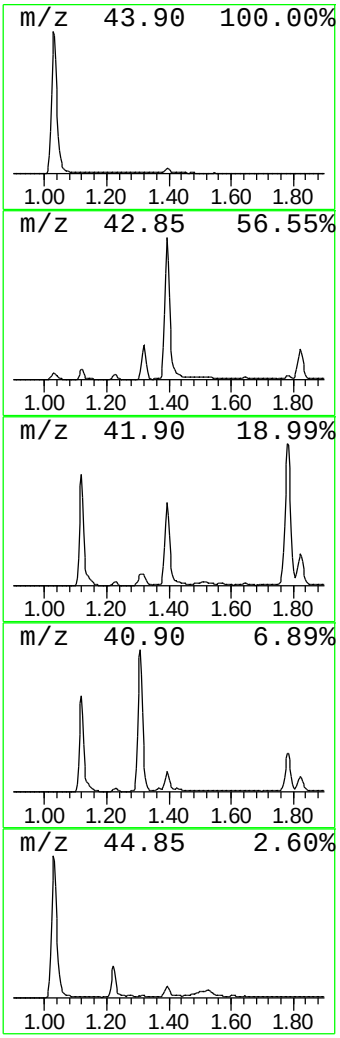
****

Peak Number 3 Acetaldehyde Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.40	1.09 ug/L	120232	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	74
2	Acetaldehyde	44	C2H4O	000075-07-0	74
3	Ethylene oxide	44	C2H4O	000075-21-8	5
4	Ethylene oxide	44	C2H4O	000075-21-8	5
5	Ethylene oxide	44	C2H4O	000075-21-8	5





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

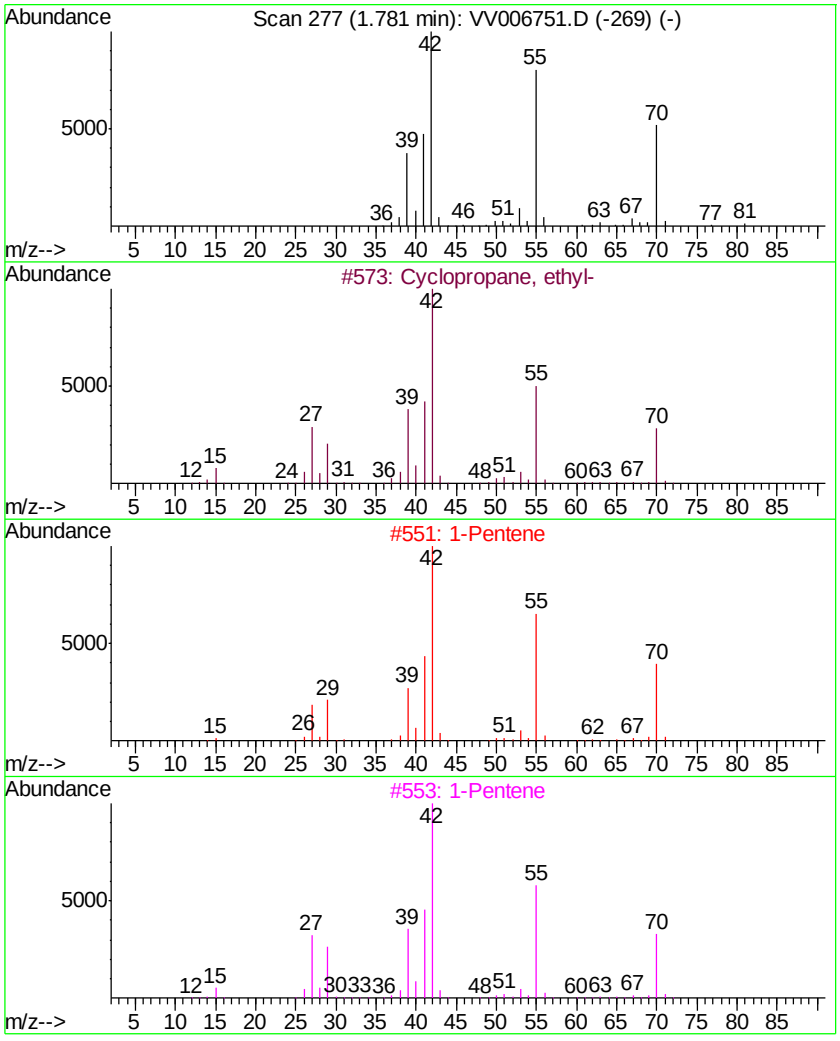
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

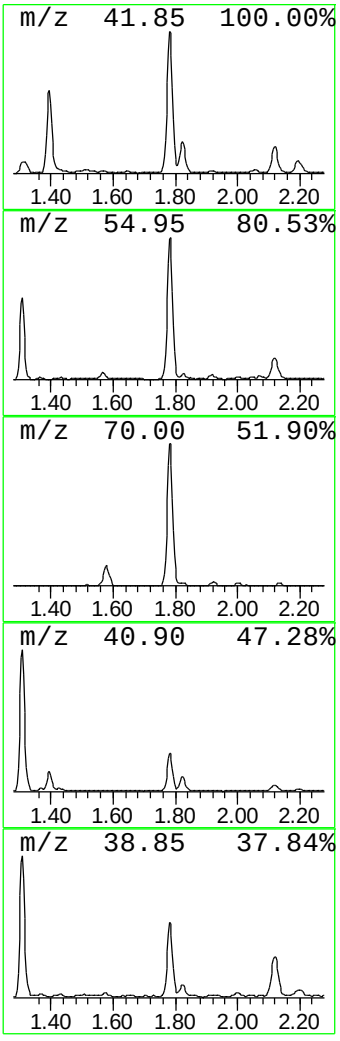
****

Peak Number 4 (DEL) Alkane: Cyclic1.70 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	0.77 ug/L	85159	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, ethyl-	70	C5H10	001191-96-4	90
2	1-Pentene	70	C5H10	000109-67-1	90
3	1-Pentene	70	C5H10	000109-67-1	87
4	Cyclobutane, methyl-	70	C5H10	000598-61-8	87
5	Cyclopropane, ethyl-	70	C5H10	001191-96-4	80





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

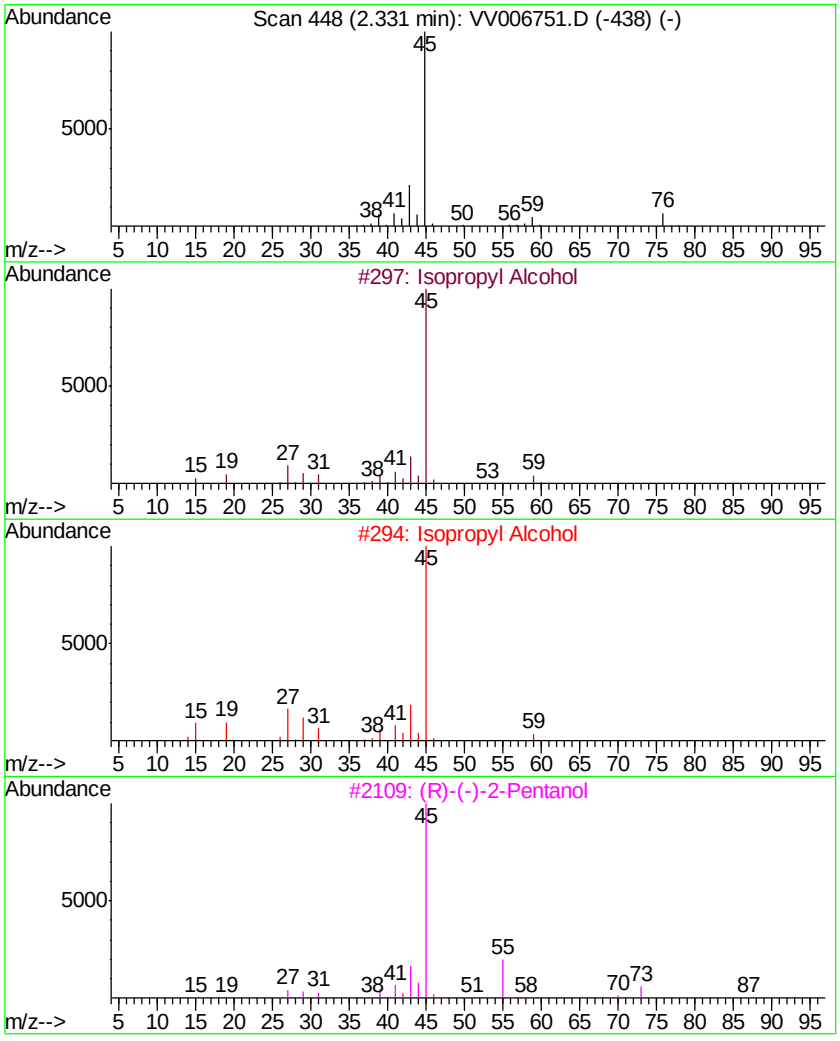
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

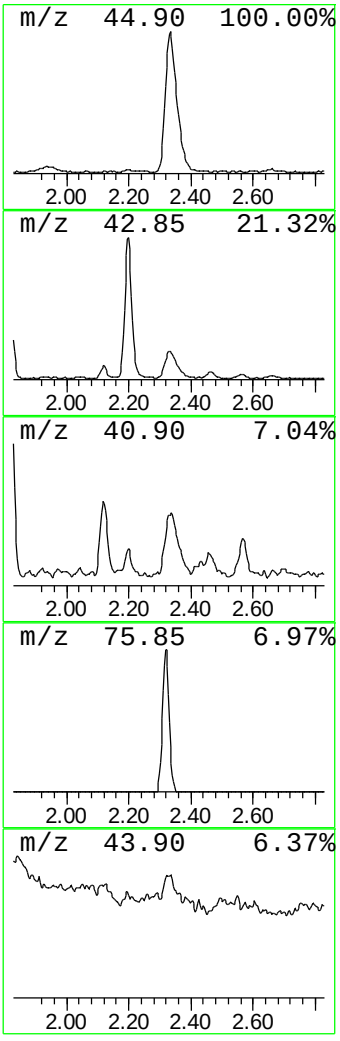
****

Peak Number 5 Isopropyl Alcohol Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.33	0.64 ug/L	70145	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	86
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	72
3	(R)-(-)-2-Pentanol	88	C5H12O	031087-44-2	40
4	Propane, 2-ethoxy-	88	C5H12O	000625-54-7	40
5	Propane, 2-ethoxy-	88	C5H12O	000625-54-7	40





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

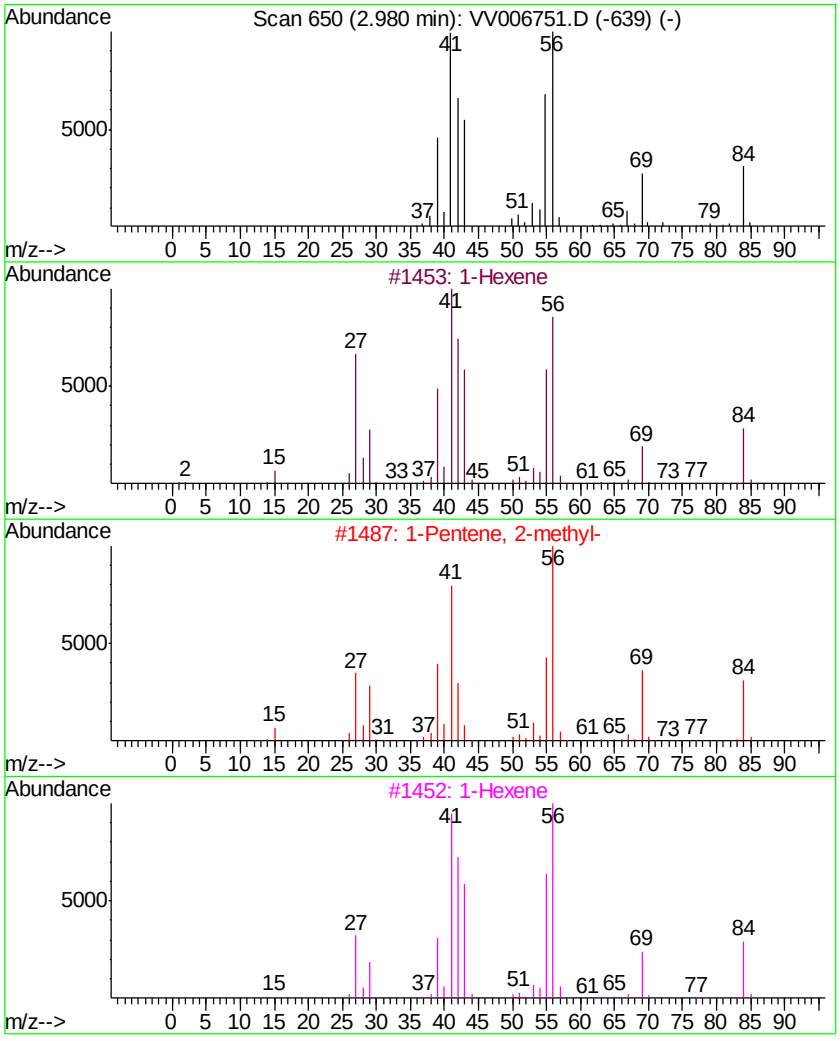
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

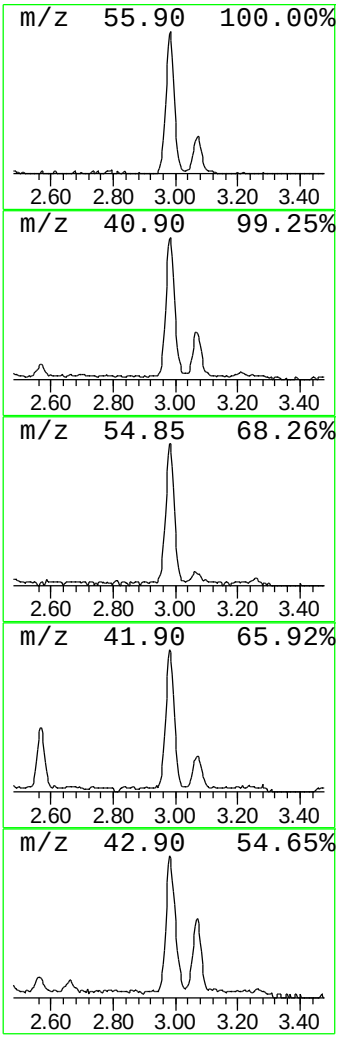
****

Peak Number 6 (DEL) Alkane: Cyclic2.98 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	0.79 ug/L	87206	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene	84	C6H12	000592-41-6	95
2	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	83
3	1-Hexene	84	C6H12	000592-41-6	81
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	80
5	2-Hexene, (Z)-	84	C6H12	007688-21-3	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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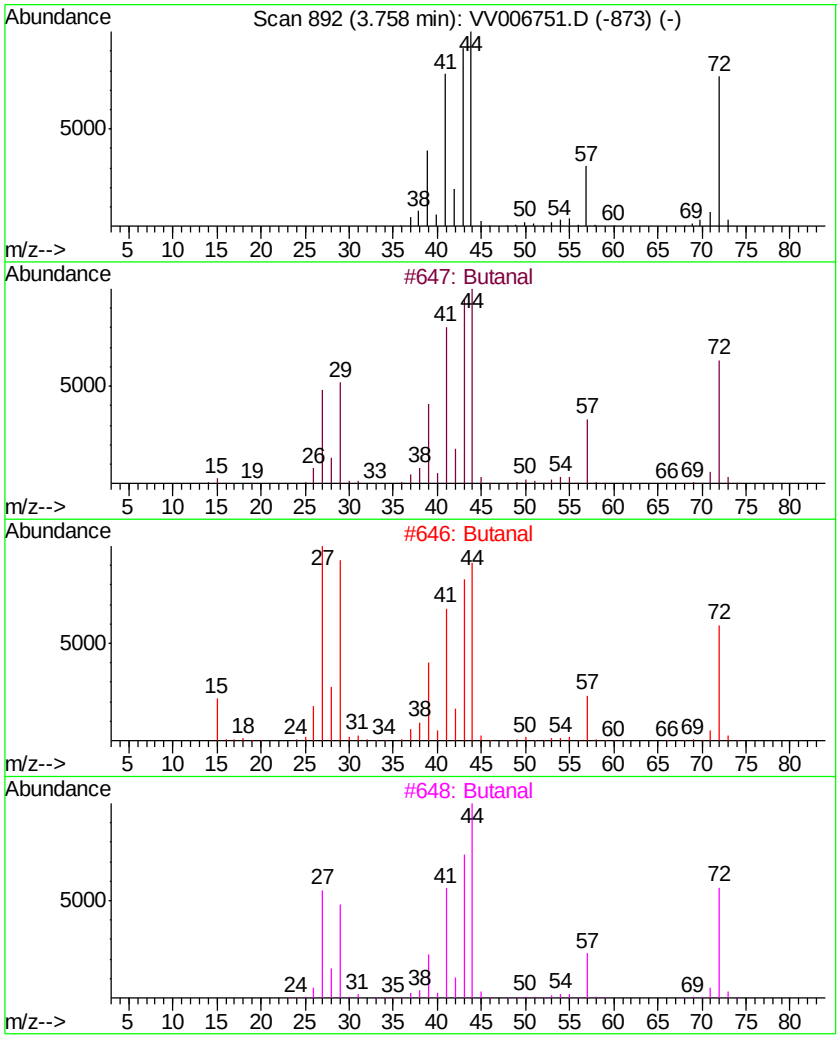
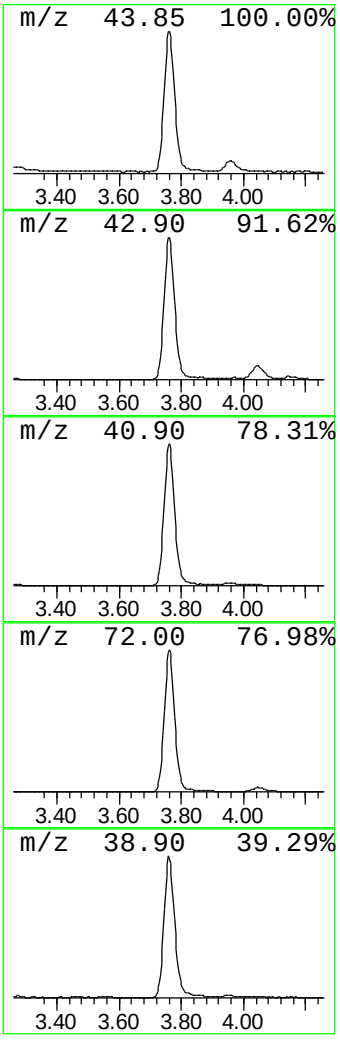
Peak Number 7 Butanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.76	4.87 ug/L	534975	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	94
2	Butanal	72	C4H8O	000123-72-8	91
3	Butanal	72	C4H8O	000123-72-8	81
4	Butanal	72	C4H8O	000123-72-8	72
5	Propanal, 2-methyl-	72	C4H8O	000078-84-2	43





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

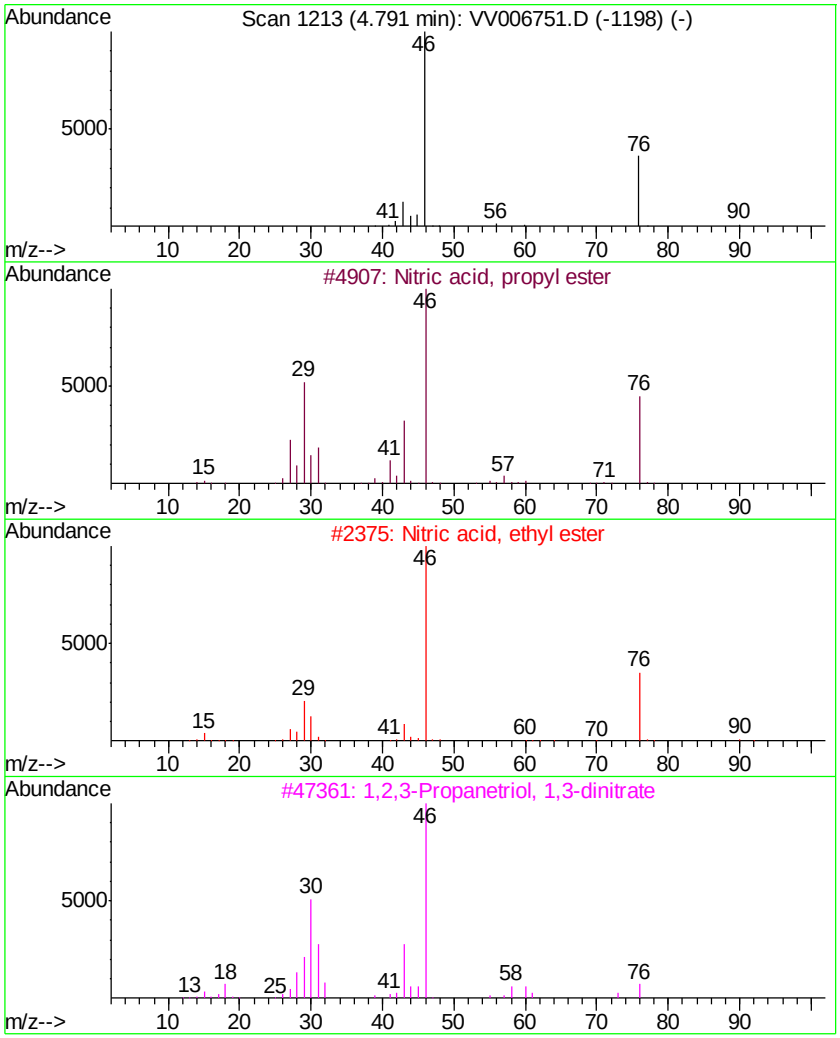
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

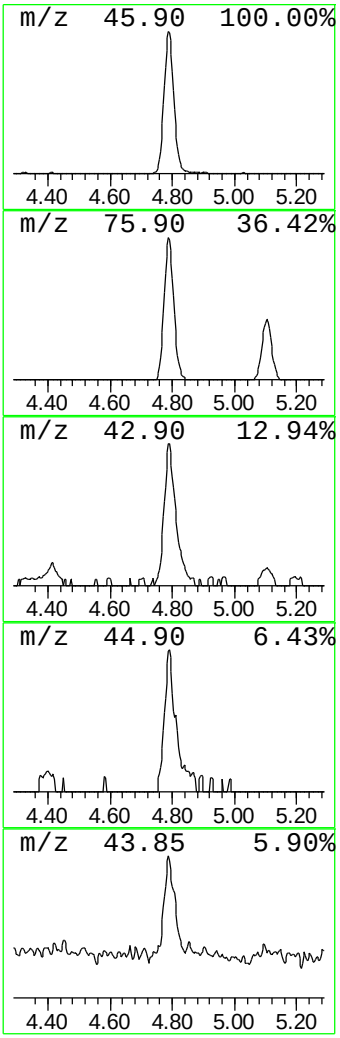
****

Peak Number 8 Nitric acid, propyl ester Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.79	0.71 ug/L	77636	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitric acid, propyl ester	105	C3H7NO3	000627-13-4	64
2	Nitric acid, ethyl ester	91	C2H5NO3	000625-58-1	64
3	1,2,3-Propanetriol, 1,3-dinitrate	182	C3H6N2O7	000623-87-0	9
4	Nitric acid, propyl ester	105	C3H7NO3	000627-13-4	9
5	Nitric acid, propyl ester	105	C3H7NO3	000627-13-4	9





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

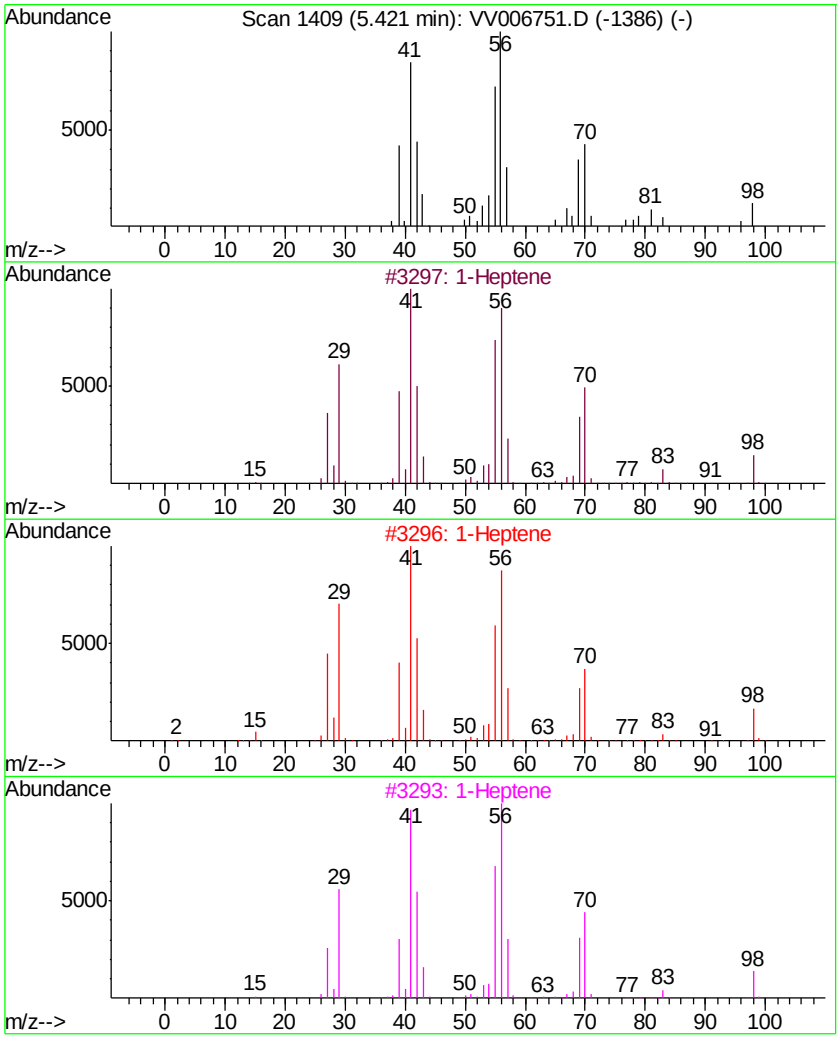
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

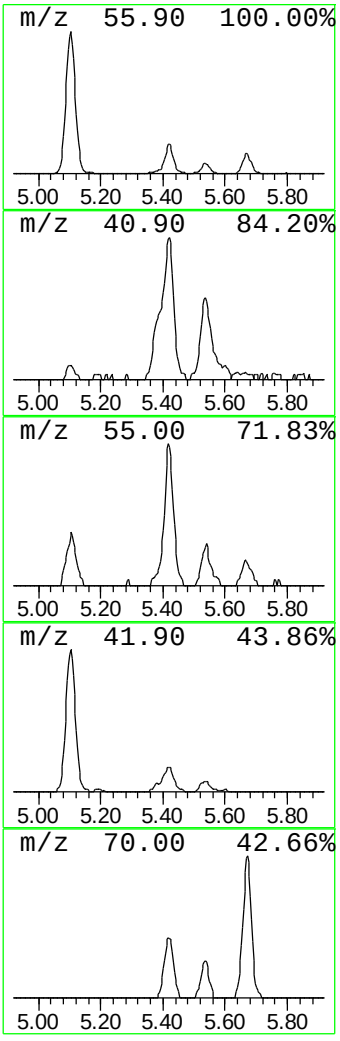
****

Peak Number 9 (DEL) Alkane: Cyclic5.42 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.42	0.56 ug/L	61706	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptene	98	C7H14	000592-76-7	94
2	1-Heptene	98	C7H14	000592-76-7	76
3	1-Heptene	98	C7H14	000592-76-7	70
4	(Z)-2-Heptene	98	C7H14	006443-92-1	64
5	5-Methyl-2-hexene,c&t	98	C7H14	003404-62-4	58





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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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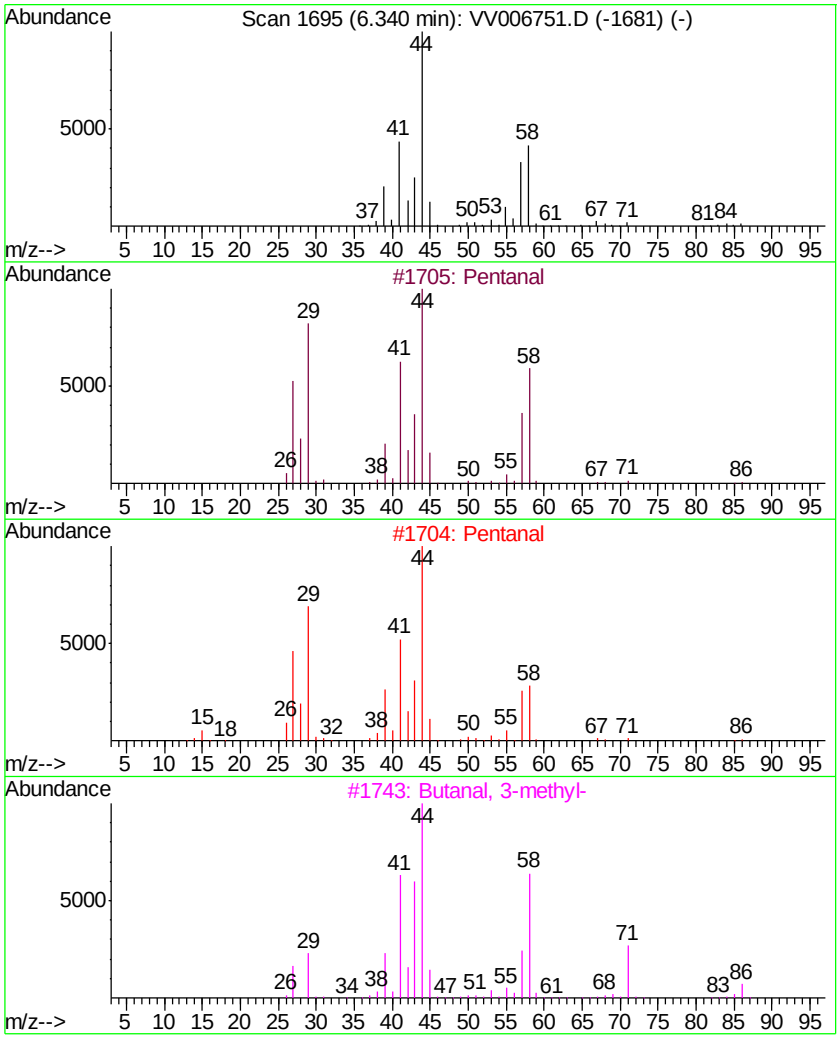
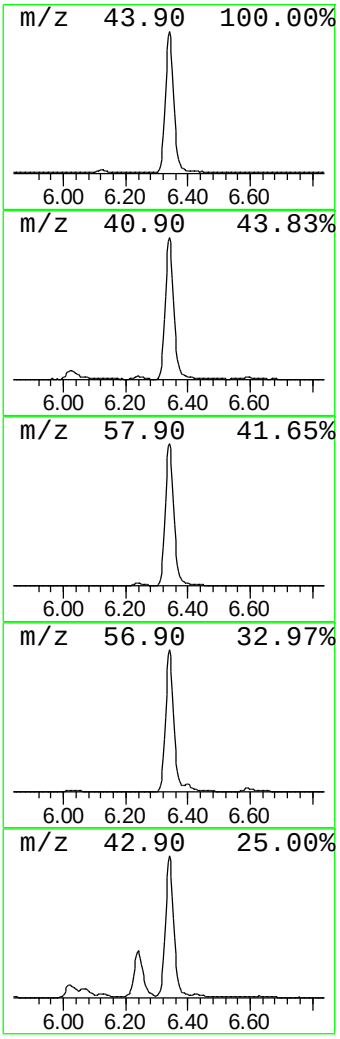
Peak Number 10 Pentanal Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	3.92 ug/L	430317	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal	86	C5H10O	000110-62-3	87
2	Pentanal	86	C5H10O	000110-62-3	86
3	Butanal, 3-methyl-	86	C5H10O	000590-86-3	83
4	Pentanal	86	C5H10O	000110-62-3	64
5	2-Propanamine	59	C3H9N	000075-31-0	38





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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

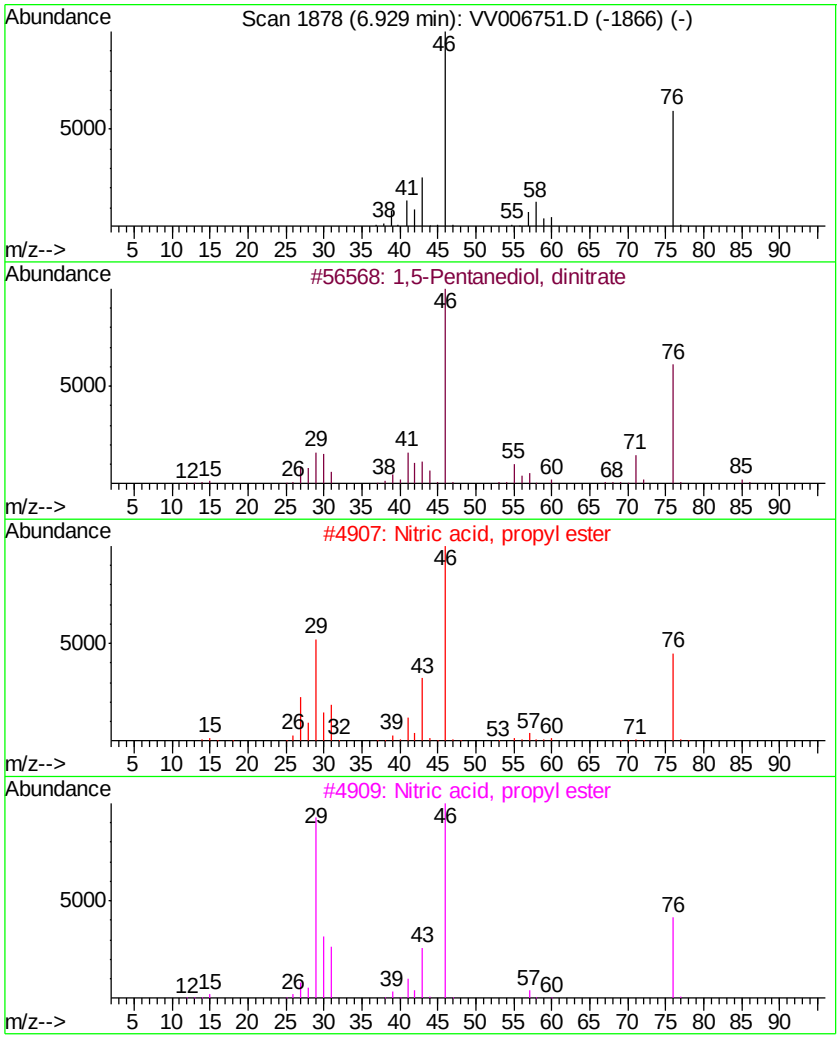
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

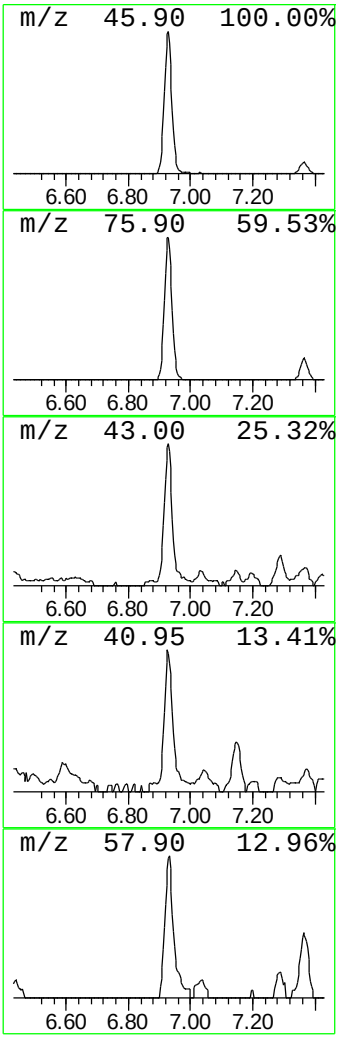
****

Peak Number 11 1,5-Pentanediol, dinitrate Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.93	0.65 ug/L	71473	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Pentanediol, dinitrate	194	C5H10N2O6	003457-92-9	72
2	Nitric acid, propyl ester	105	C3H7NO3	000627-13-4	50
3	Nitric acid, propyl ester	105	C3H7NO3	000627-13-4	39
4	1,4-Butanediol, dinitrate	180	C4H8N2O6	003457-91-8	9
5	Hydrazine, methyl-	46	CH6N2	000060-34-4	5





Library Search Compound Report

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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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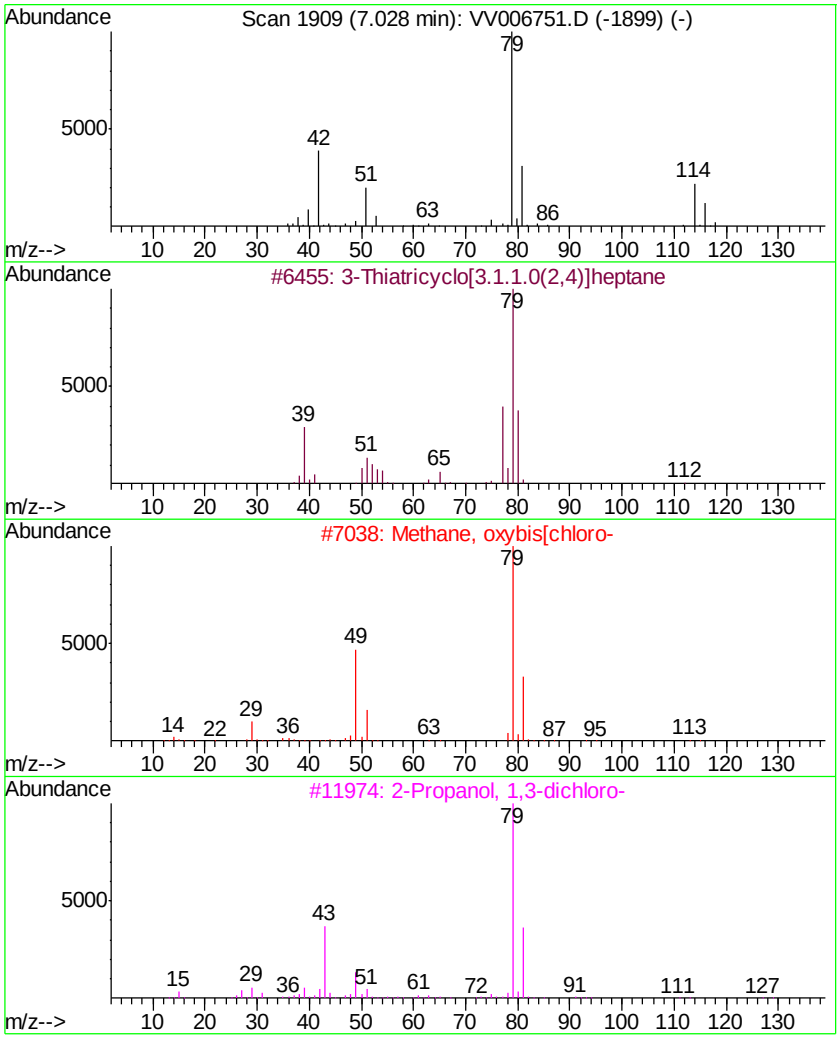
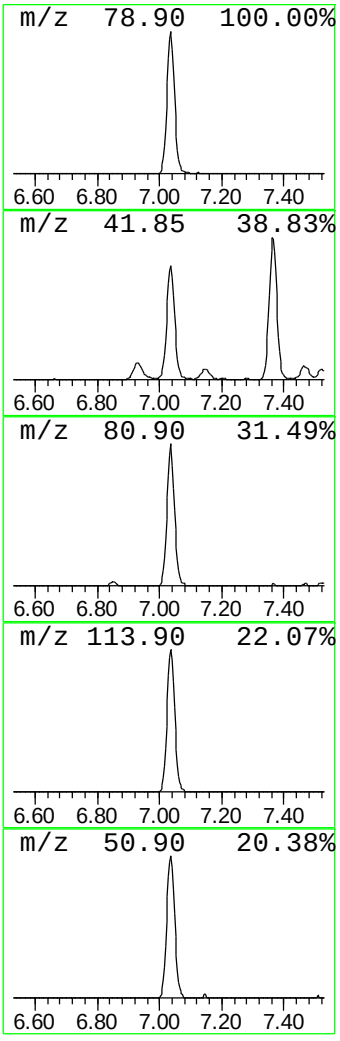
Peak Number 12 unknown-01 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.03	1.13 ug/L	124492	1,4-Difluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	38
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	33
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	28
4	1,3-Cyclohexadiene	80	C6H8	000592-57-4	28
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23





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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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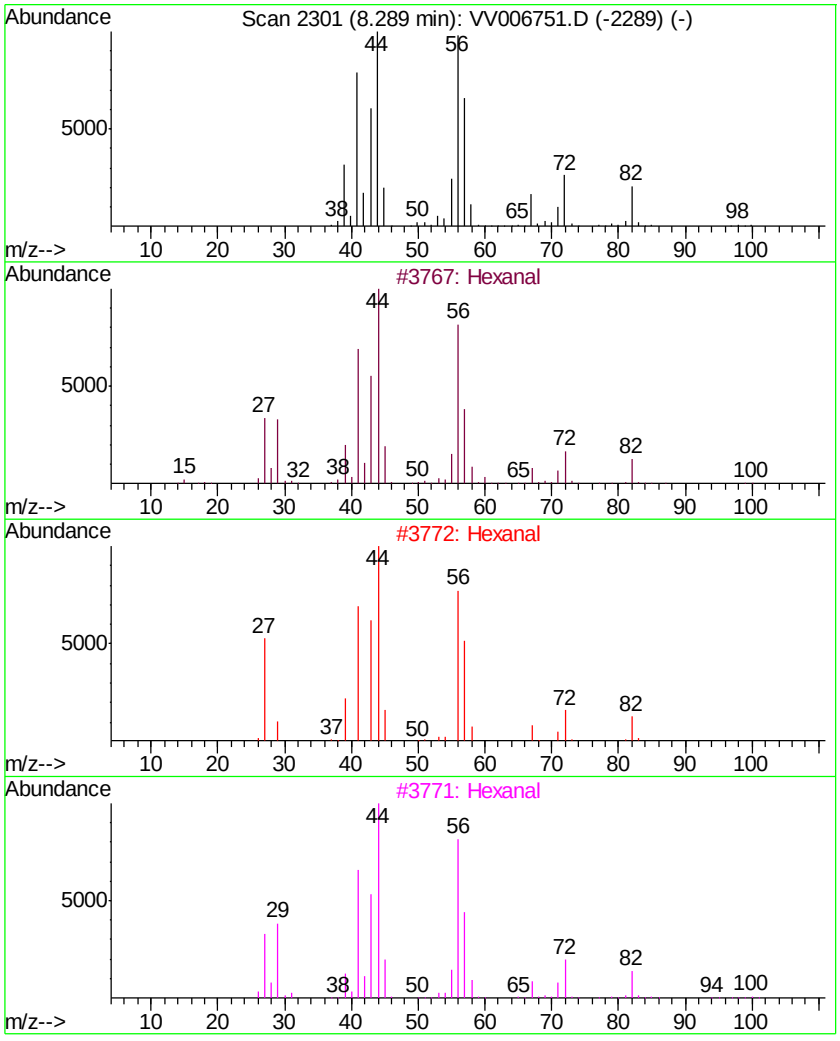
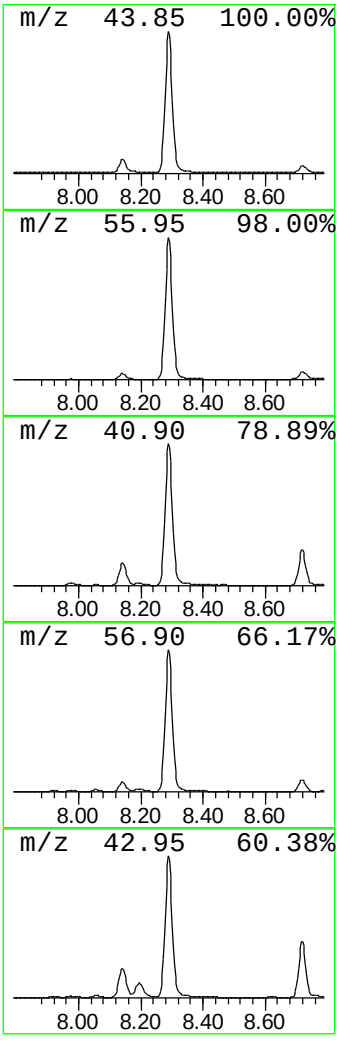
Peak Number 13 Hexanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.29	6.07 ug/L	808964	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	91
2	Hexanal	100	C6H12O	000066-25-1	90
3	Hexanal	100	C6H12O	000066-25-1	90
4	Hexanal	100	C6H12O	000066-25-1	83
5	Glutaraldehyde	100	C5H8O2	000111-30-8	25





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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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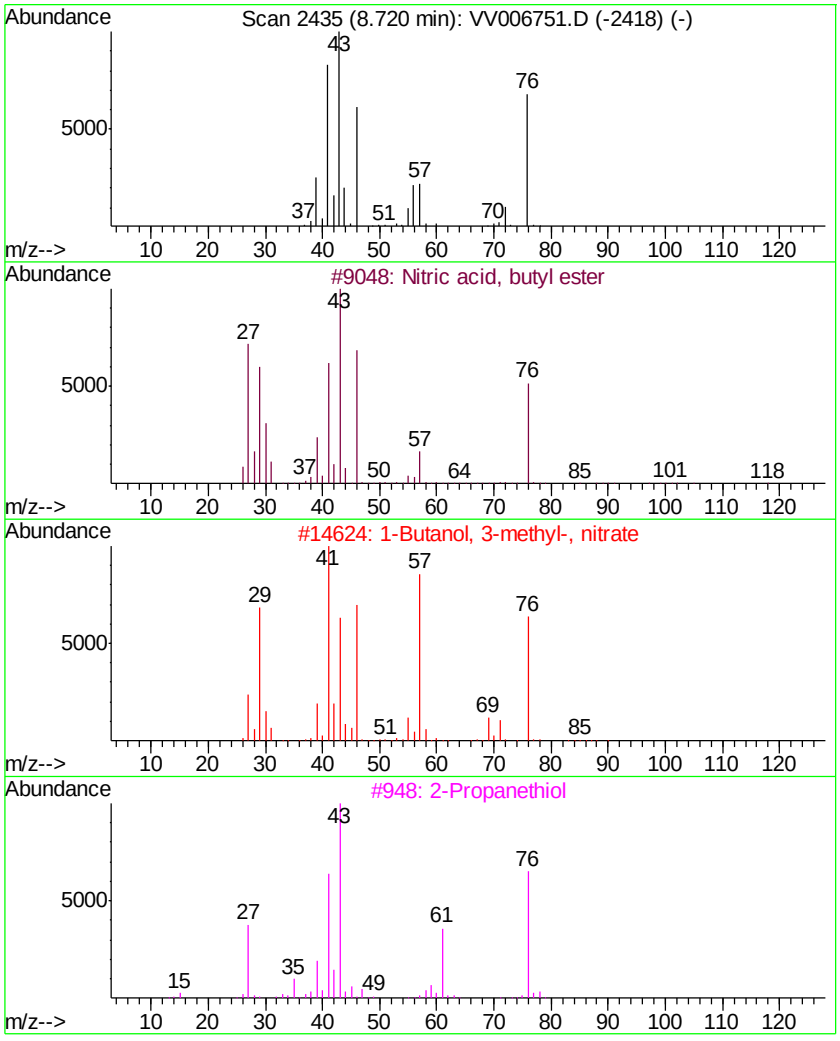
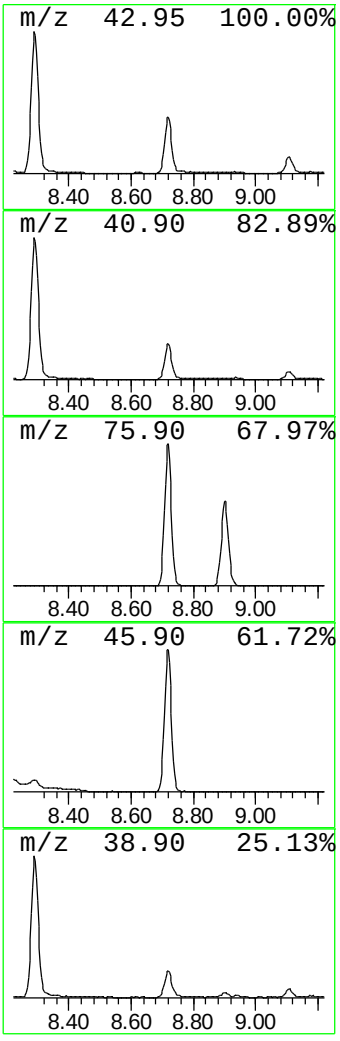
Peak Number 14 unknown-02 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.72	1.12 ug/L	149289	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitric acid, butyl ester	119	C4H9NO3	000928-45-0	42
2	1-Butanol, 3-methyl-, nitrate	133	C5H11NO3	000543-87-3	40
3	2-Propanethiol	76	C3H8S	000075-33-2	12
4	Pentane	72	C5H12	000109-66-0	10
5	1-Butene	56	C4H8	000106-98-9	10





Library Search Compound Report

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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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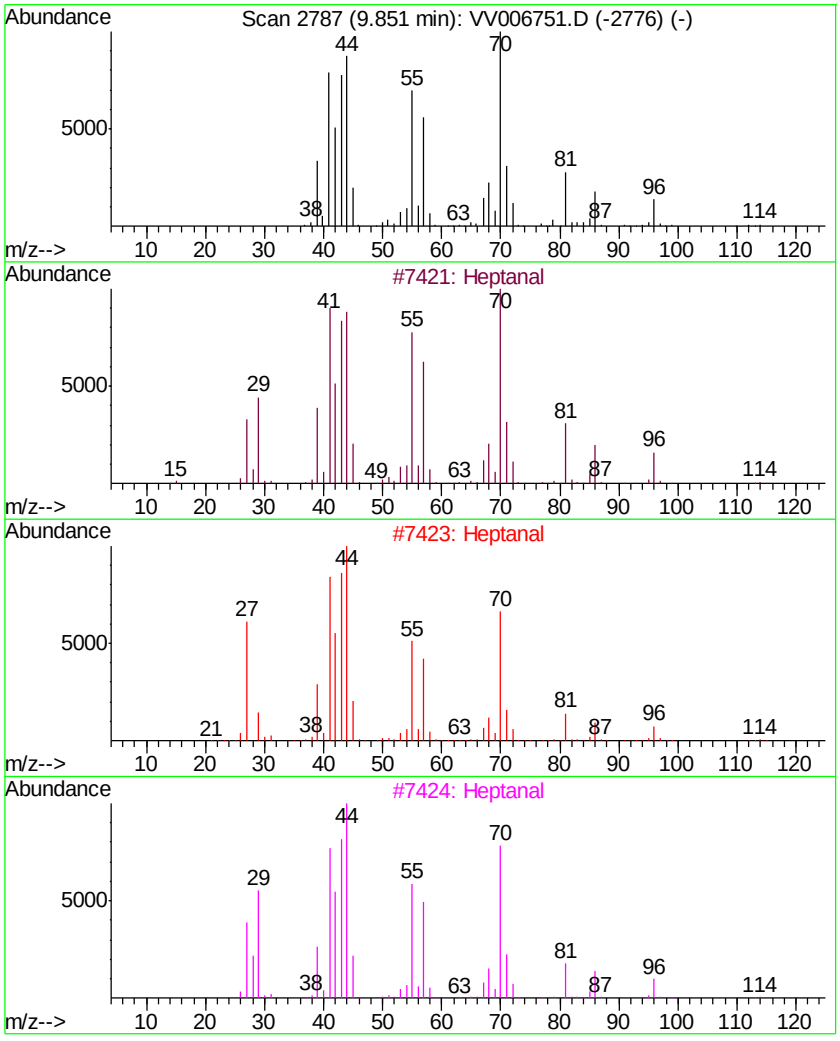
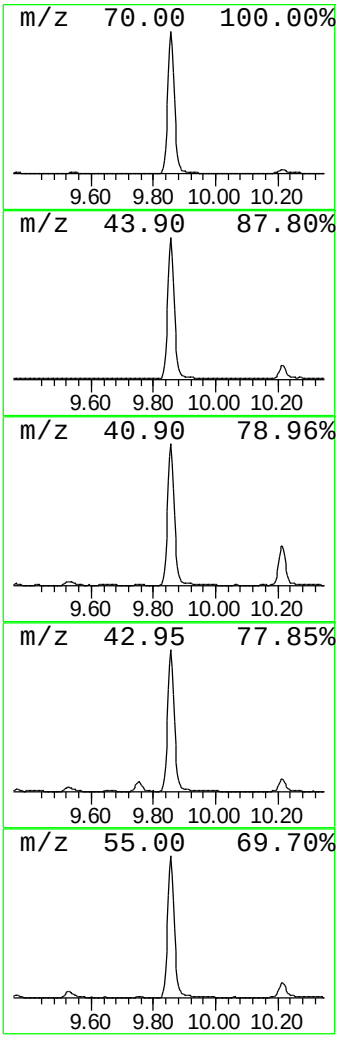
Peak Number 15 Heptanal Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	8.94 ug/L	1190550	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal	114	C7H14O	000111-71-7	98
2	Heptanal	114	C7H14O	000111-71-7	95
3	Heptanal	114	C7H14O	000111-71-7	91
4	Heptanal	114	C7H14O	000111-71-7	91
5	Heptanal	114	C7H14O	000111-71-7	81





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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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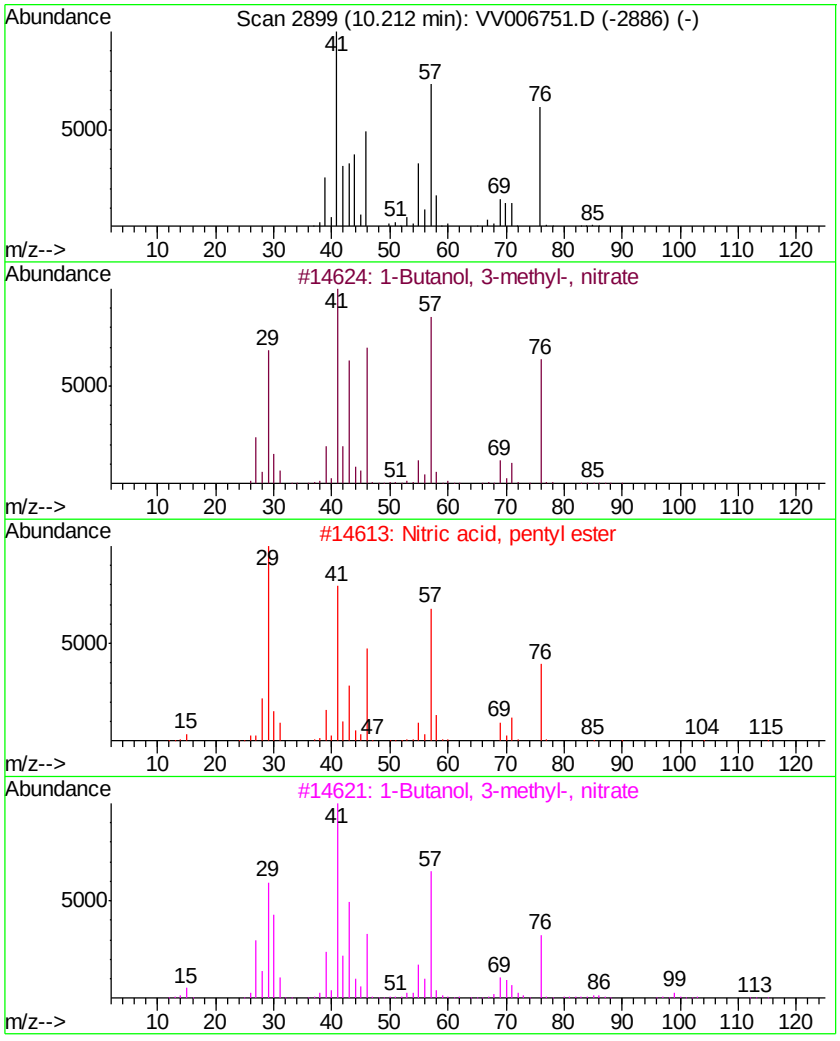
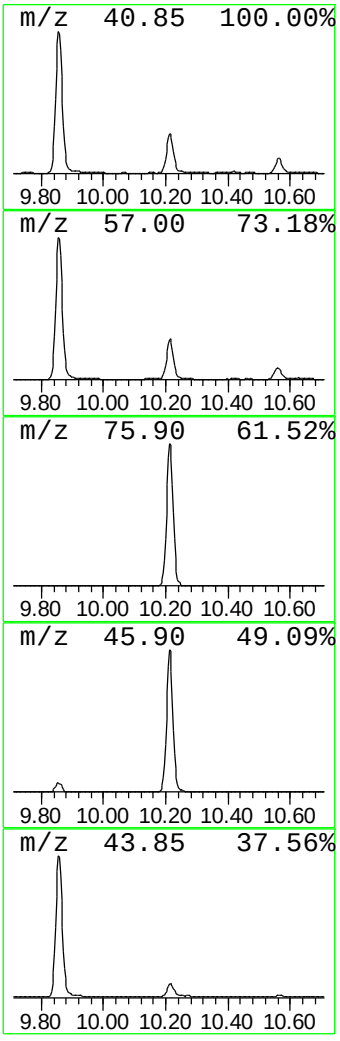
Peak Number 16 1-Butanol, 3-methyl-, nitrate Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	1.42 ug/L	179667	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butanol, 3-methyl-, nitrate	133	C5H11NO3	000543-87-3	53
2	Nitric acid, pentyl ester	133	C5H11NO3	001002-16-0	53
3	1-Butanol, 3-methyl-, nitrate	133	C5H11NO3	000543-87-3	28
4	Aziridine, 2,2-dimethyl-	71	C4H9N	002658-24-4	9
5	1-Propene, 2-chloro-	76	C3H5Cl	000557-98-2	9





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Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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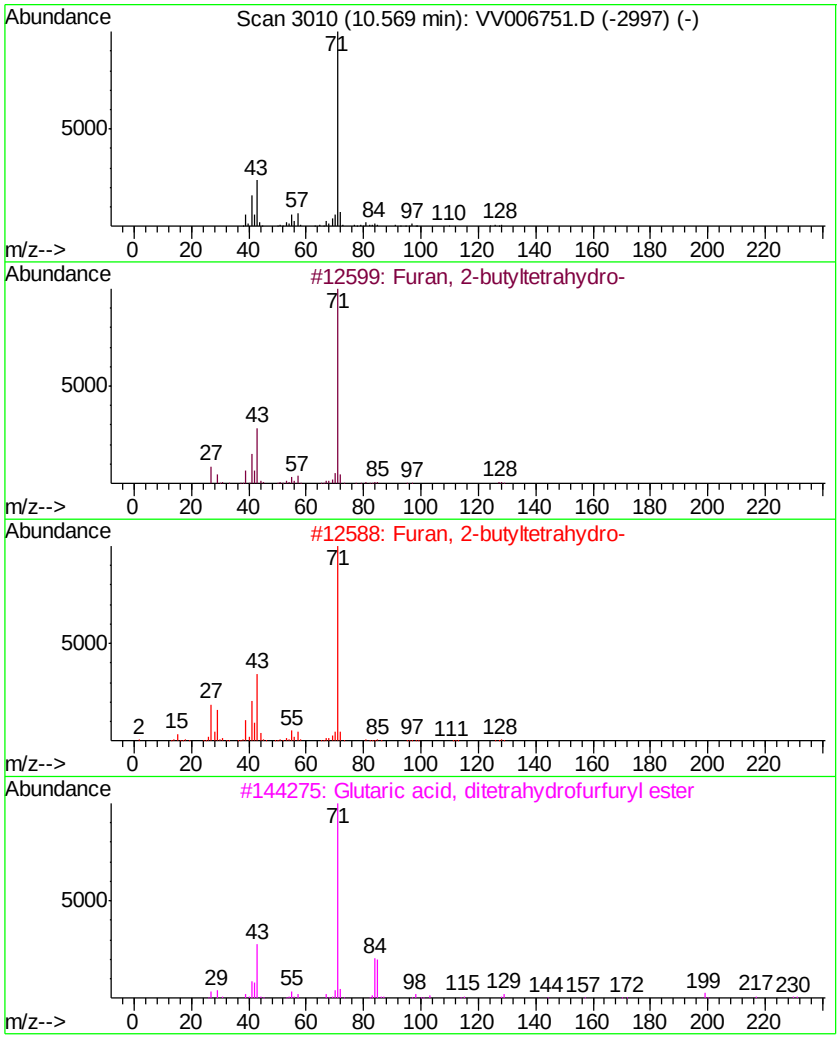
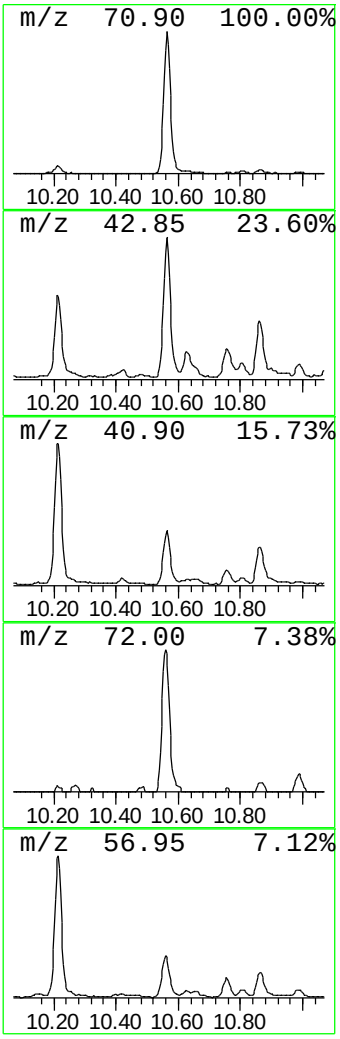
Peak Number 17 Furan, 2-butyltetrahydro- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.57	1.35 ug/L	170463	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2-butyltetrahydro-	128	C8H16O	001004-29-1	91
2	Furan, 2-butyltetrahydro-	128	C8H16O	001004-29-1	86
3	Glutaric acid, ditetrahydrofurfu...	300	C15H24O6	1000359-67-4	78
4	Butanoic acid, 2-propenyl ester	128	C7H12O2	002051-78-7	64
5	Butanoic acid, anhydride	158	C8H14O3	000106-31-0	56





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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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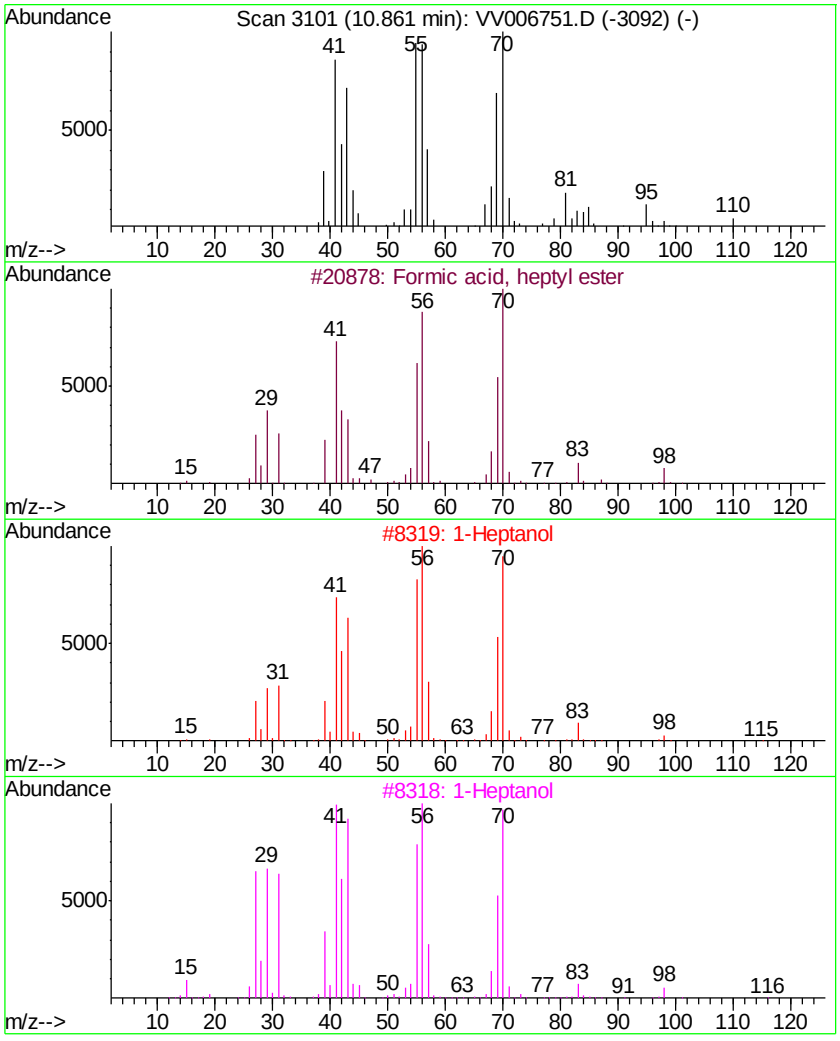
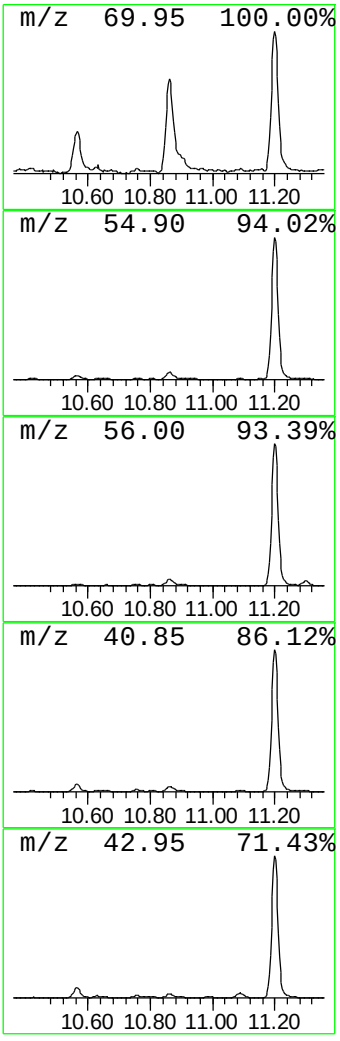
Peak Number 18 Formic acid, heptyl ester Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	0.79 ug/L	100019	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formic acid, heptyl ester	144	C8H16O2	000112-23-2	64
2	1-Heptanol	116	C7H16O	000111-70-6	64
3	1-Heptanol	116	C7H16O	000111-70-6	59
4	1-Heptanol	116	C7H16O	000111-70-6	59
5	1-Heptanol	116	C7H16O	000111-70-6	59





Library Search Compound Report

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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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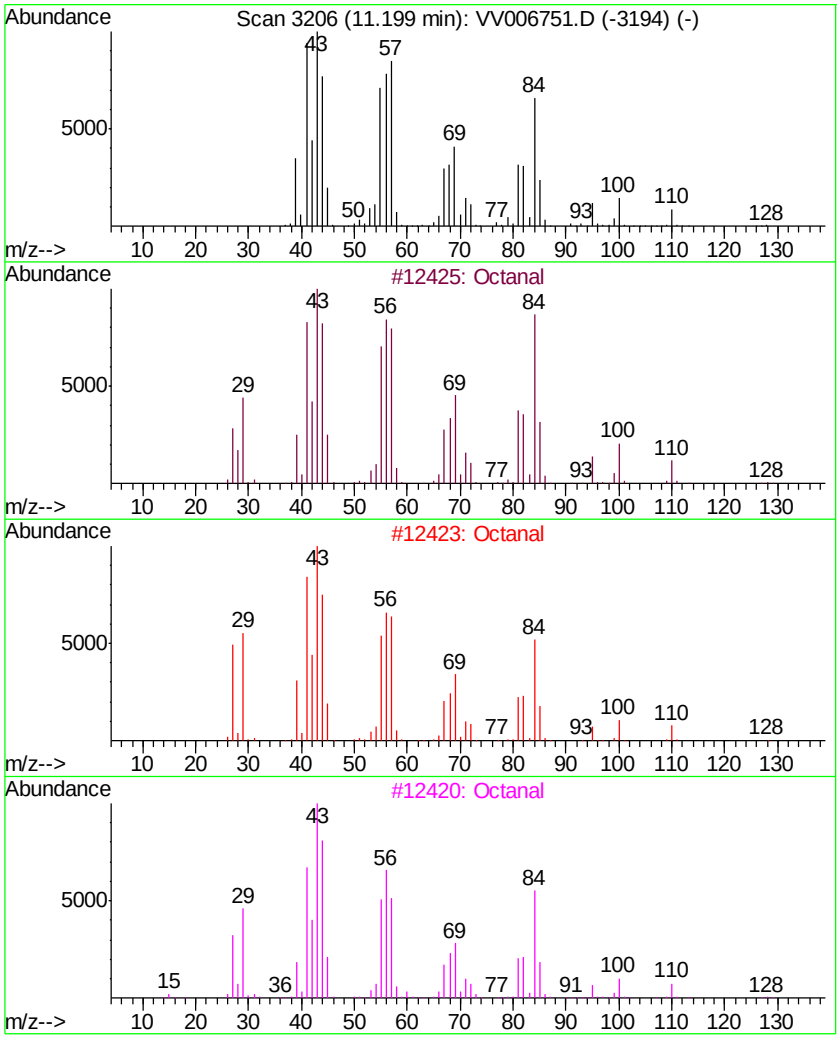
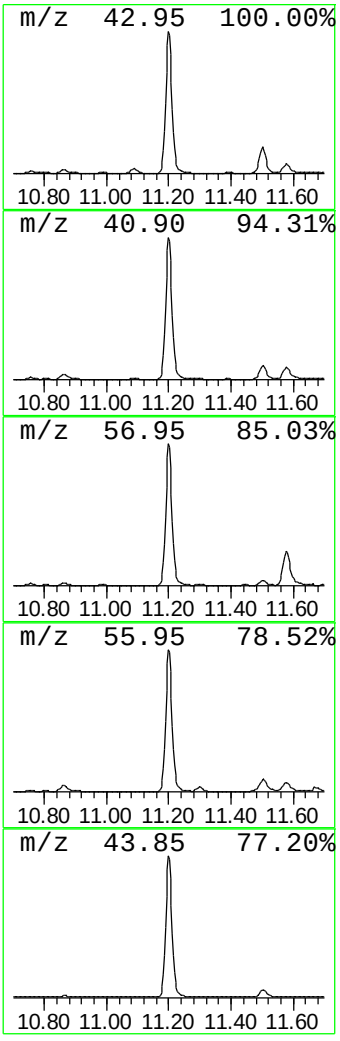
Peak Number 19 Octanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	18.90 ug/L	2385430	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal	128	C8H16O	000124-13-0	98
2	Octanal	128	C8H16O	000124-13-0	97
3	Octanal	128	C8H16O	000124-13-0	97
4	Octanal	128	C8H16O	000124-13-0	95
5	Octanal	128	C8H16O	000124-13-0	91





Library Search Compound Report

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Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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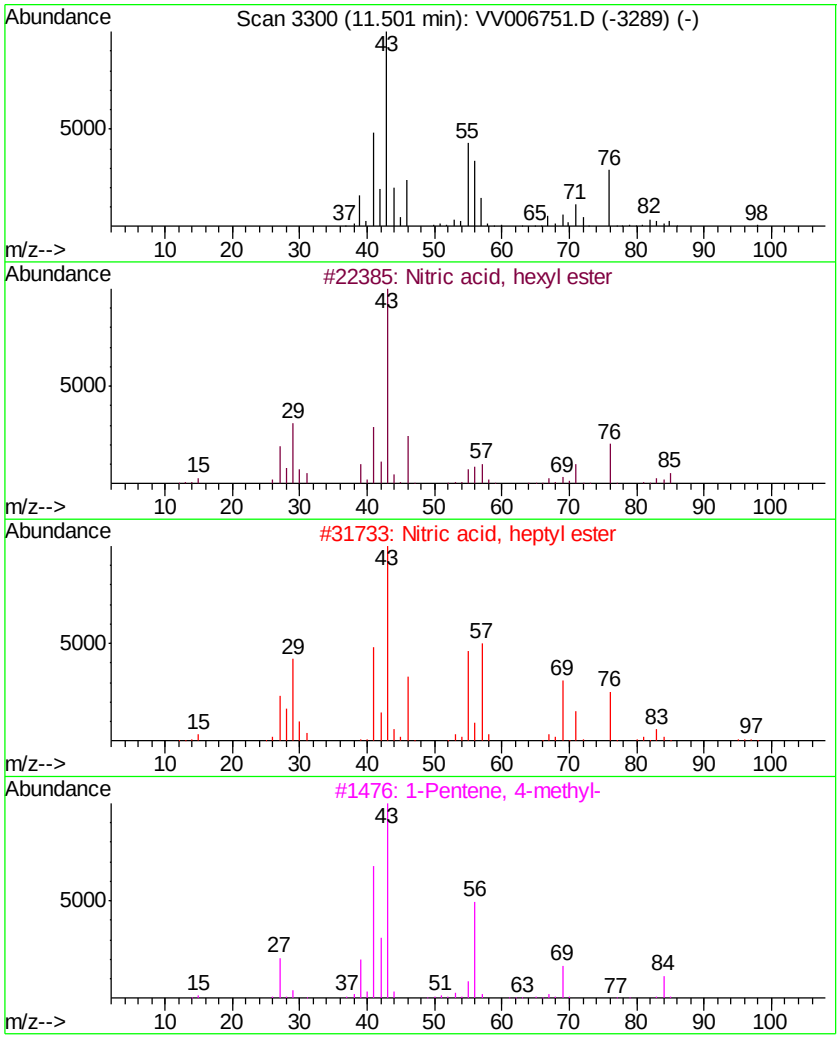
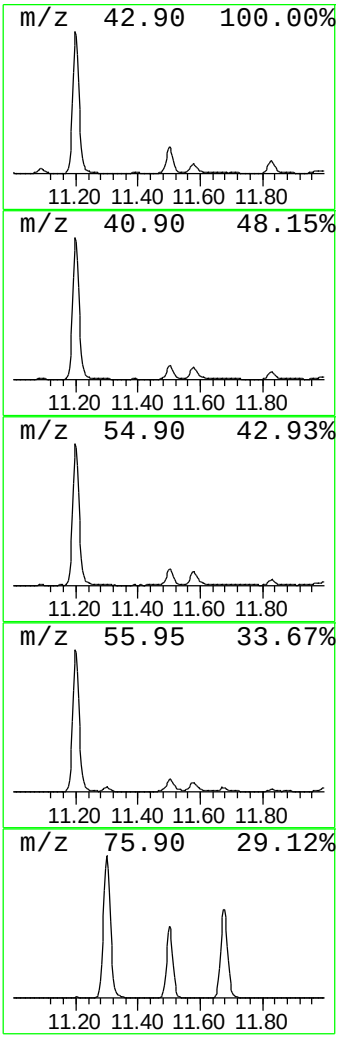
Peak Number 20 unknown-03 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.50	1.60 ug/L	201792	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitric acid, hexyl ester	147	C6H13NO3	020633-11-8	38
2	Nitric acid, heptyl ester	161	C7H15NO3	020633-12-9	25
3	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	10
4	2,4,6,8-Tetraazabicyclo[3.3.0]oc...	186	C4H6N6O3	223690-54-8	10
5	Nitric acid, pentyl ester	133	C5H11NO3	001002-16-0	10





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

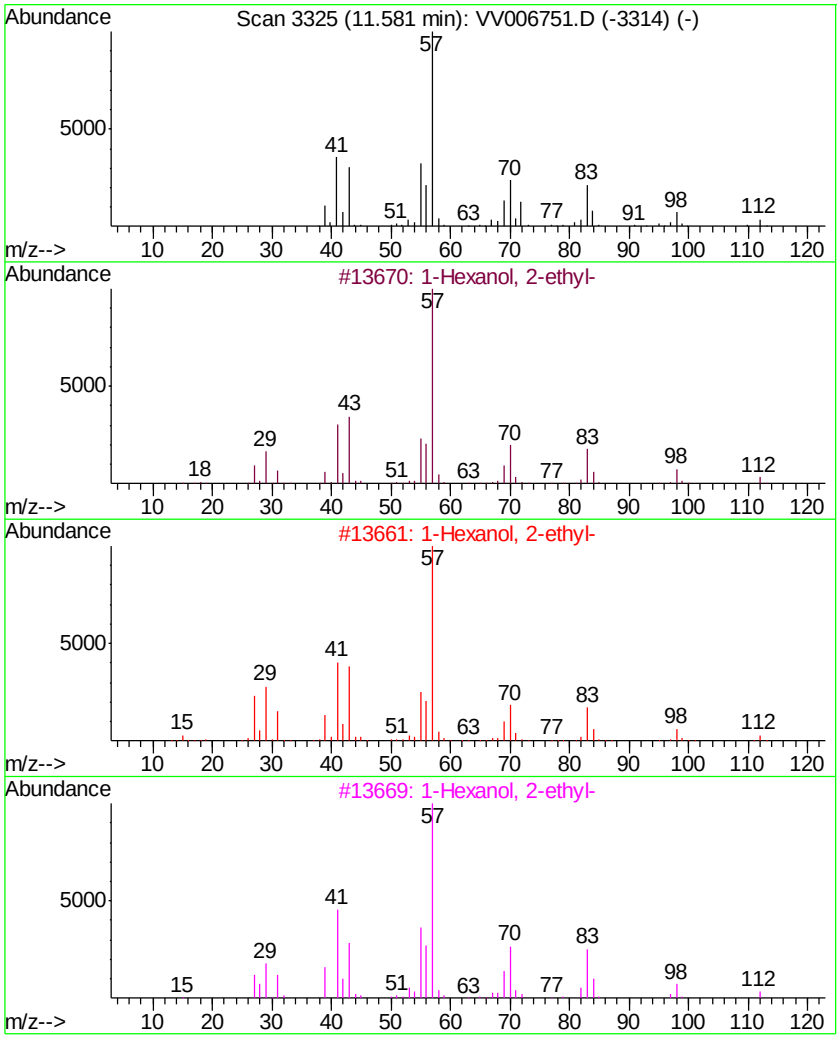
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

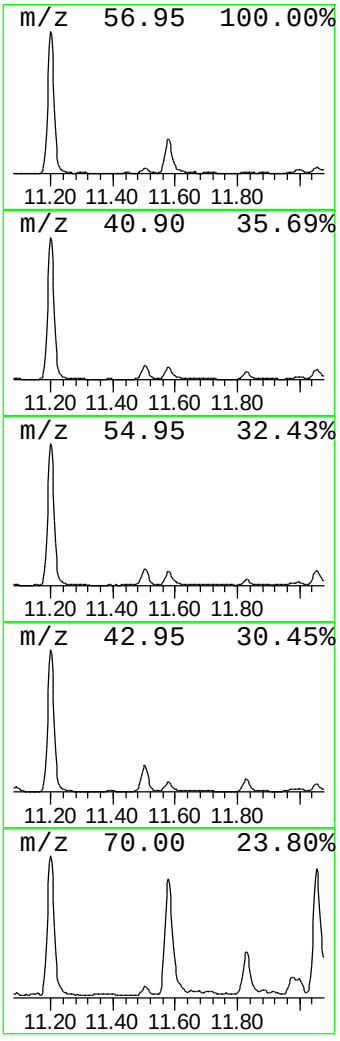
****

Peak Number 21 1-Hexanol, 2-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	1.88 ug/L	237611	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	86
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	86
3	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	64
4	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	56
5	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

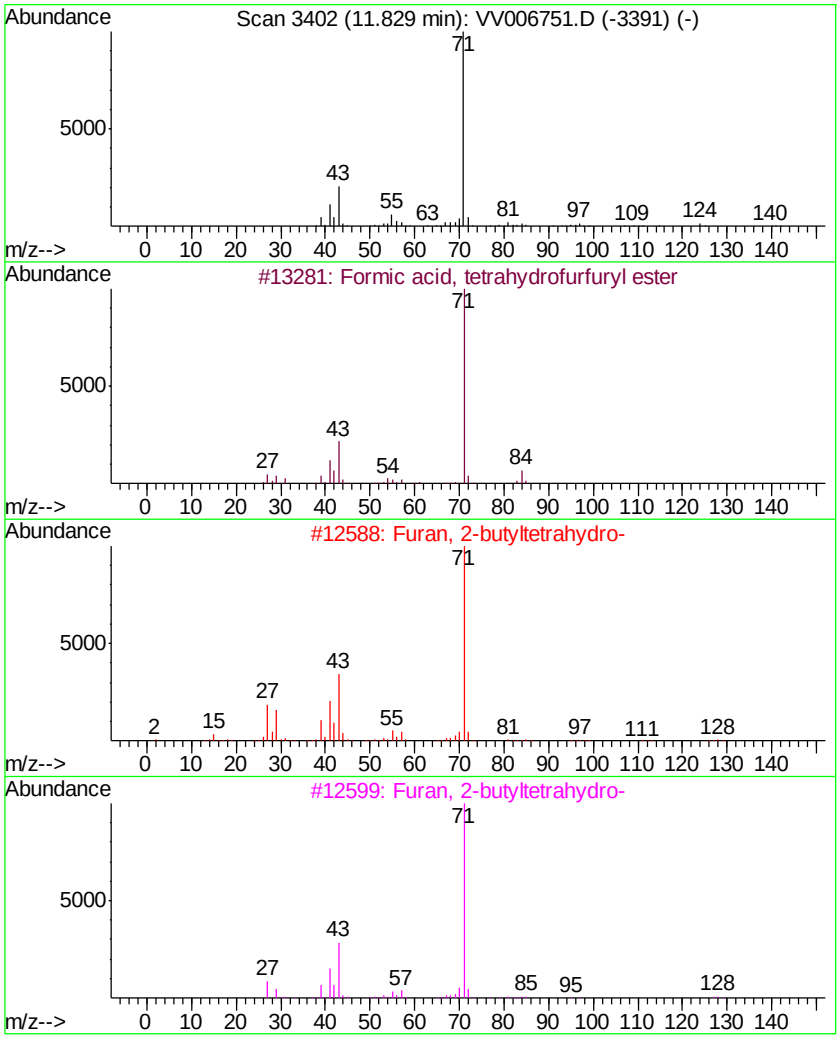
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

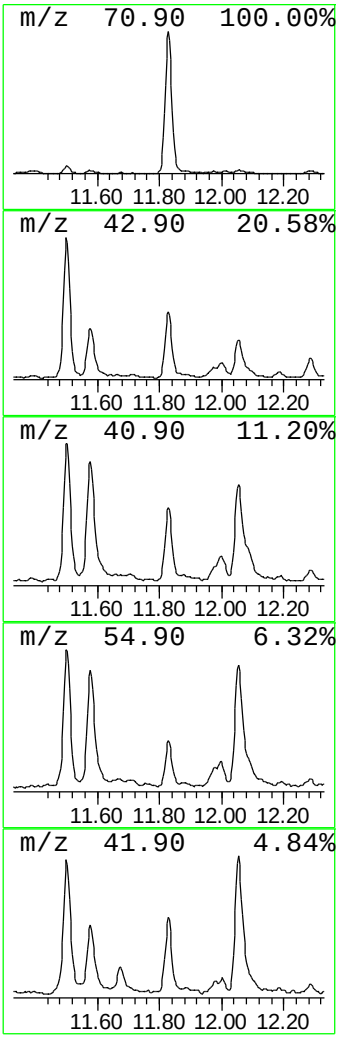
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 Formic acid, tetrahydrofurf... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	1.66 ug/L	209842	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formic acid, tetrahydrofurfuryl ...	130	C6H10O3	1000368-75-5	56
2	Furan, 2-butyltetrahydro-	128	C8H16O	001004-29-1	56
3	Furan, 2-butyltetrahydro-	128	C8H16O	001004-29-1	56
4	Diethylmalonic acid, monochlorid...	262	C12H19ClO4	1000370-65-0	56
5	Butanoic acid, anhydride	158	C8H14O3	000106-31-0	56





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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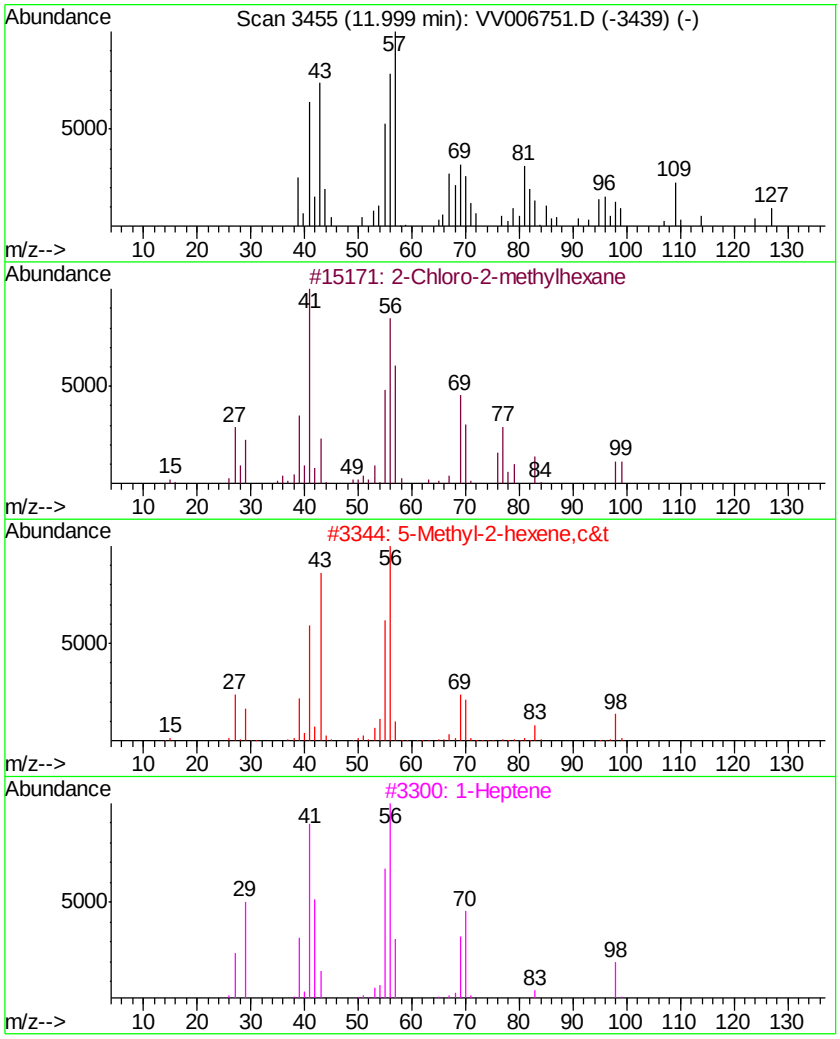
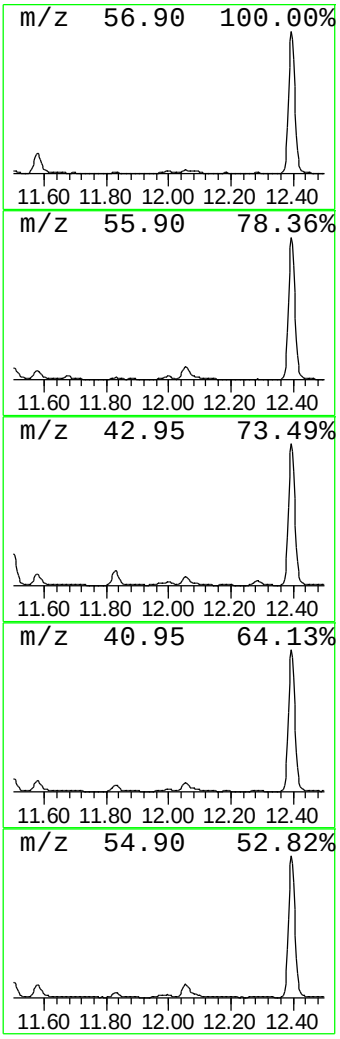
Peak Number 23 unknown-04 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	0.60 ug/L	75800	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Chloro-2-methylhexane	134	C7H15Cl	004398-65-6	43
2	5-Methyl-2-hexene,c&t	98	C7H14	003404-62-4	43
3	1-Heptene	98	C7H14	000592-76-7	38
4	2-Hexene, 5-methyl-, (E)-	98	C7H14	007385-82-2	38
5	2-Hexene, 5-methyl-, (E)-	98	C7H14	007385-82-2	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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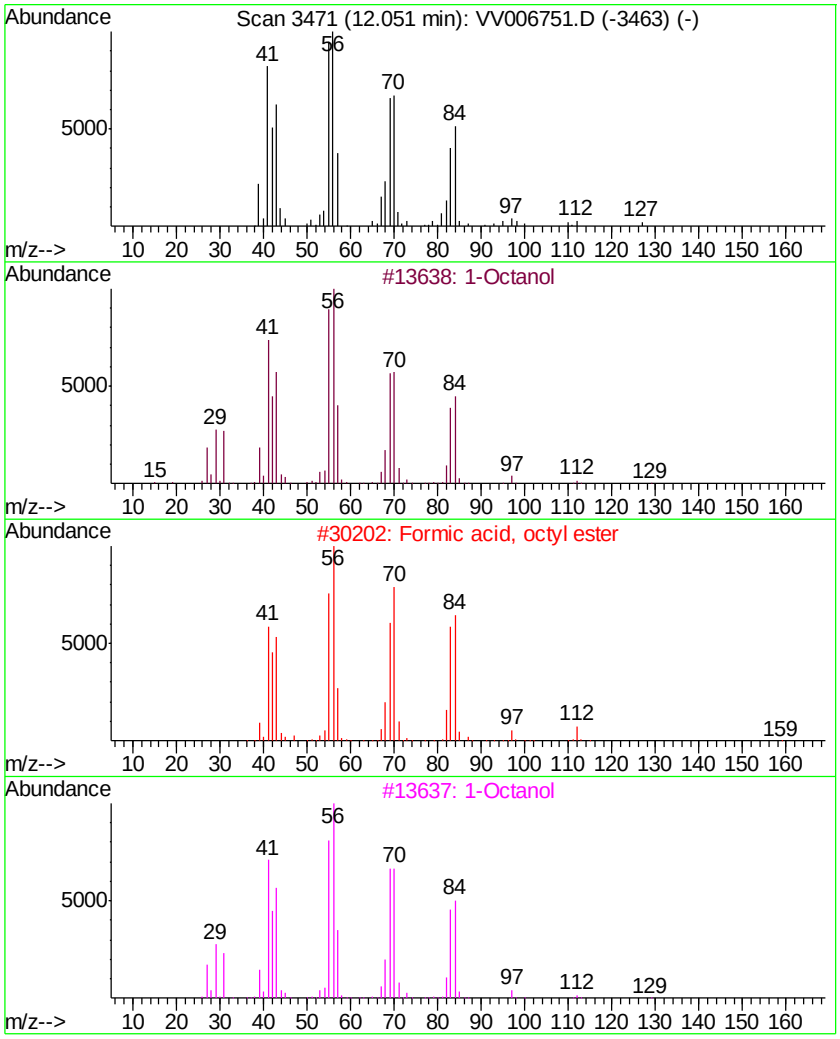
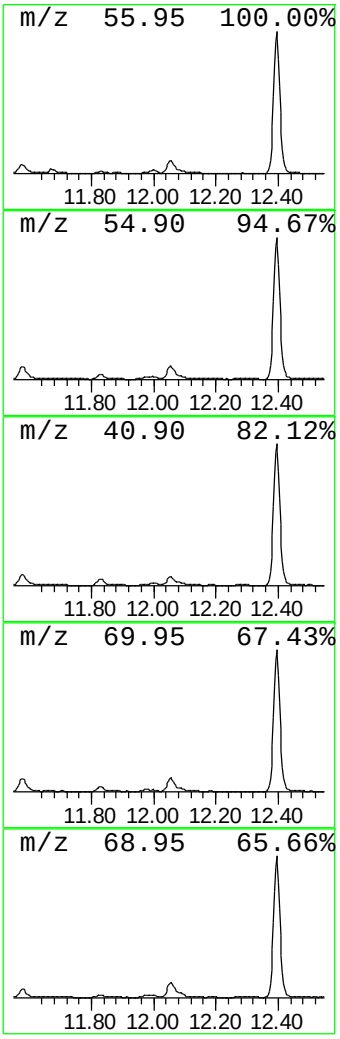
Peak Number 24 1-Octanol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	1.36 ug/L	171824	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octanol	130	C8H18O	000111-87-5	91
2	Formic acid, octyl ester	158	C9H18O2	000112-32-3	90
3	1-Octanol	130	C8H18O	000111-87-5	90
4	Cyclooctane	112	C8H16	000292-64-8	87
5	Cyclooctane	112	C8H16	000292-64-8	83





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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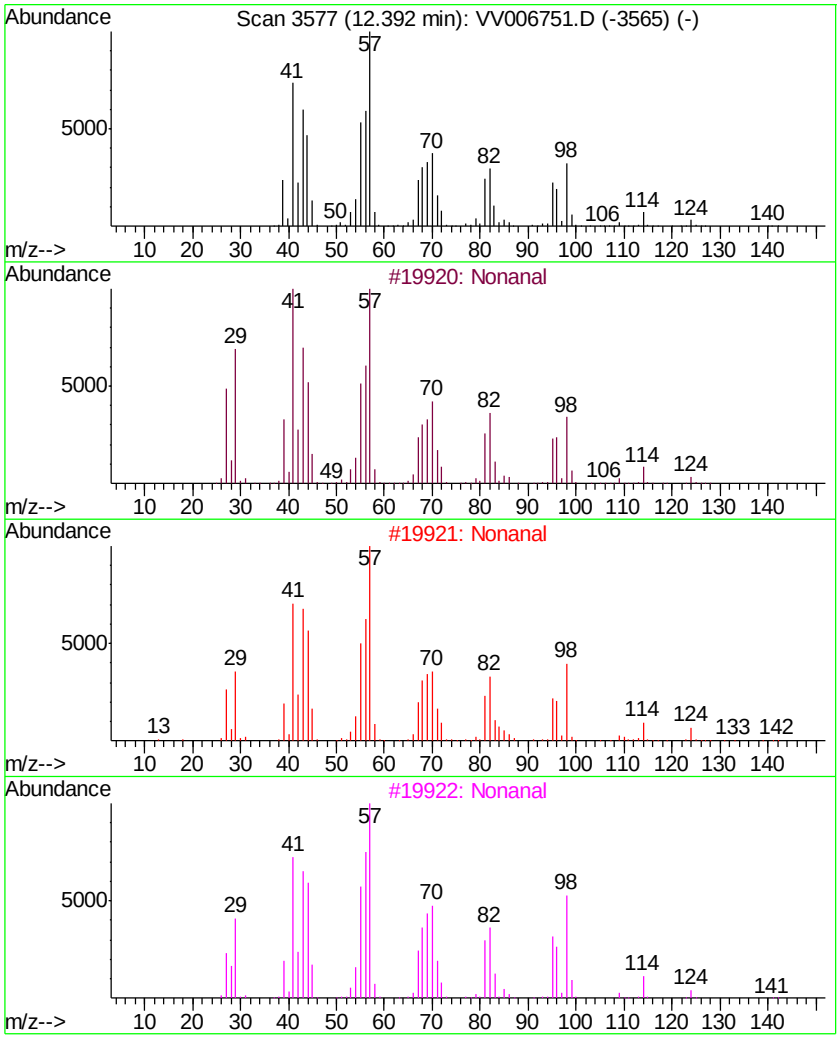
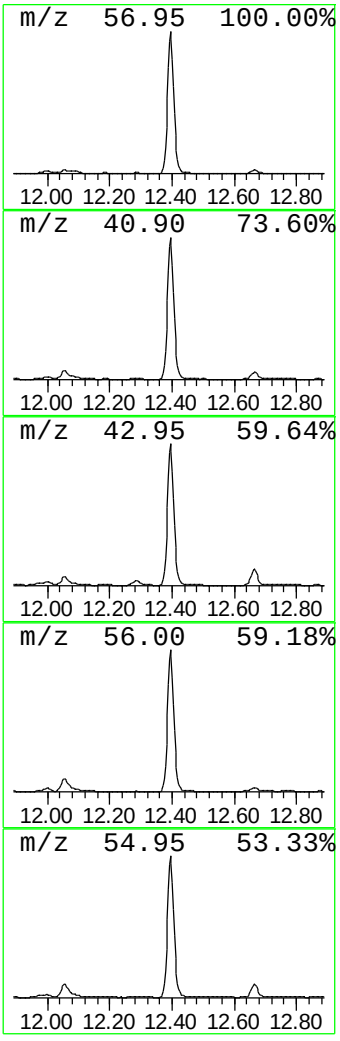
Peak Number 25 Nonanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	22.26 ug/L	2809850	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanal	142	C9H18O	000124-19-6	91
2	Nonanal	142	C9H18O	000124-19-6	91
3	Nonanal	142	C9H18O	000124-19-6	91
4	Nonanal	142	C9H18O	000124-19-6	90
5	2-Nonen-1-ol	142	C9H18O	022104-79-6	38





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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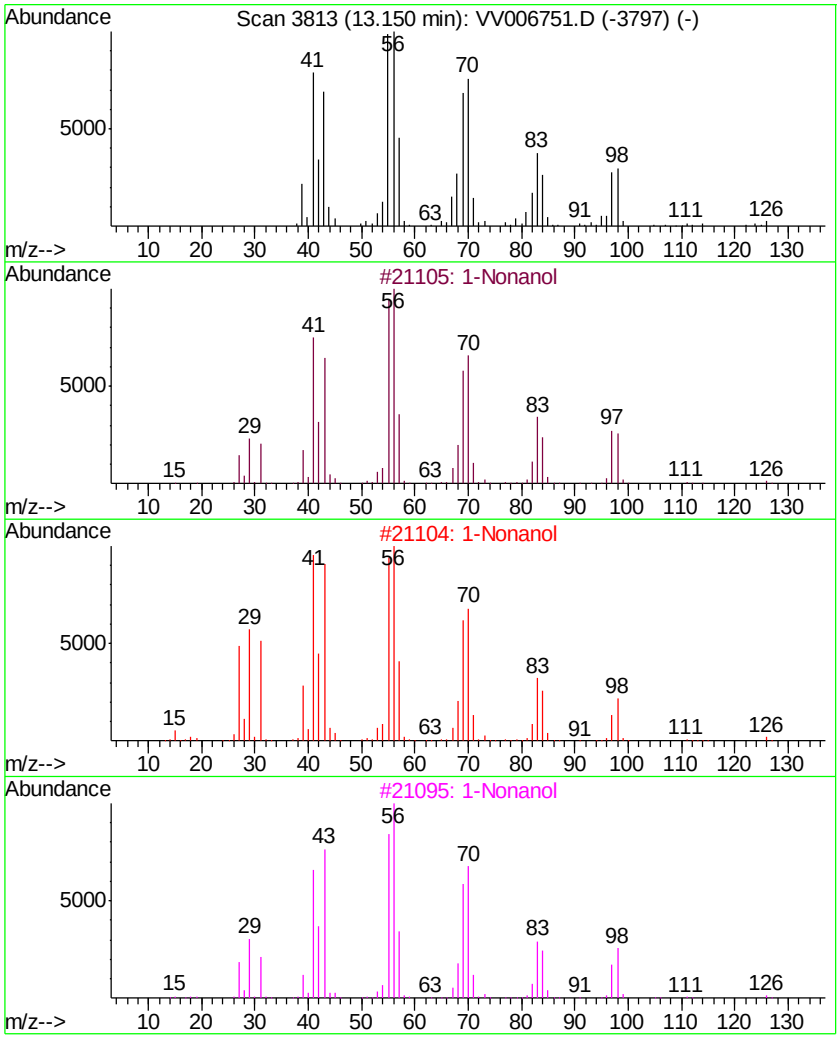
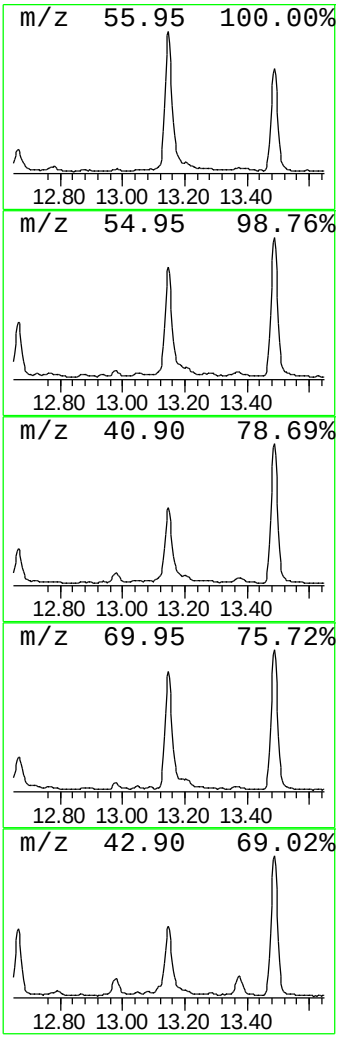
Peak Number 27 1-Nonanol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.82 ug/L	356292	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonanol	144	C9H20O	000143-08-8	91
2	1-Nonanol	144	C9H20O	000143-08-8	86
3	1-Nonanol	144	C9H20O	000143-08-8	86
4	Cyclopropane, 1-methyl-2-octyl-	168	C12H24	037617-26-8	86
5	1-Nonanol	144	C9H20O	000143-08-8	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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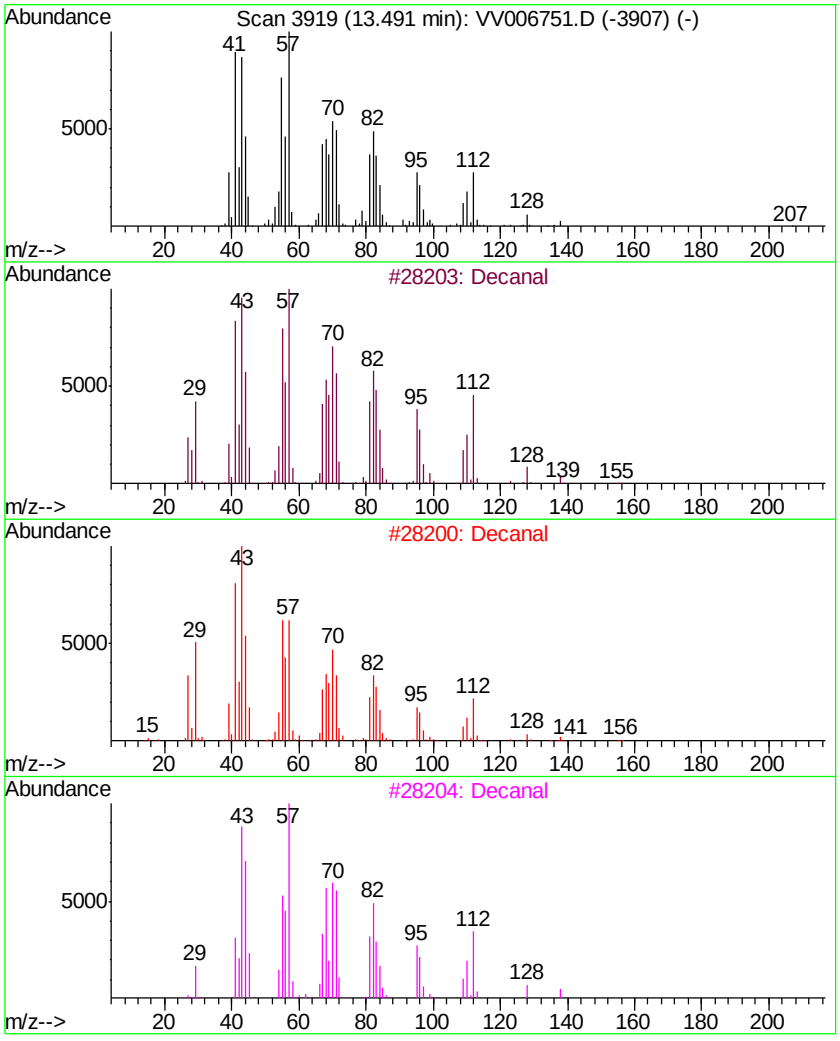
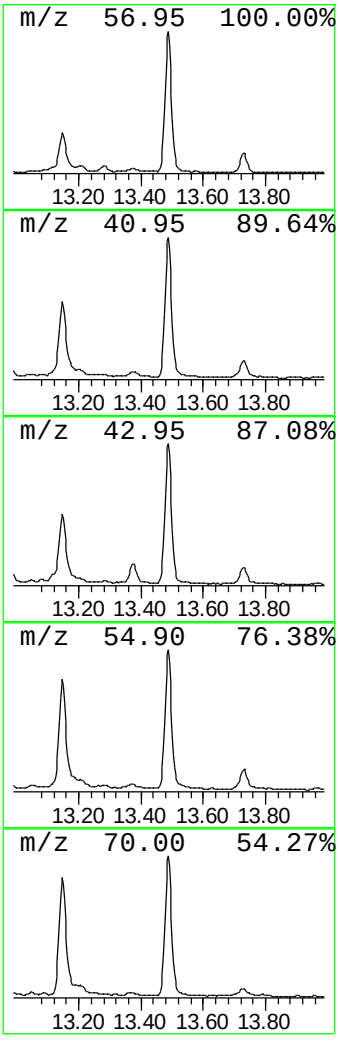
Peak Number 28 Decanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	5.14 ug/L	649174	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decanal	156	C10H20O	000112-31-2	91
2	Decanal	156	C10H20O	000112-31-2	90
3	Decanal	156	C10H20O	000112-31-2	83
4	Decanal	156	C10H20O	000112-31-2	80
5	Decanal	156	C10H20O	000112-31-2	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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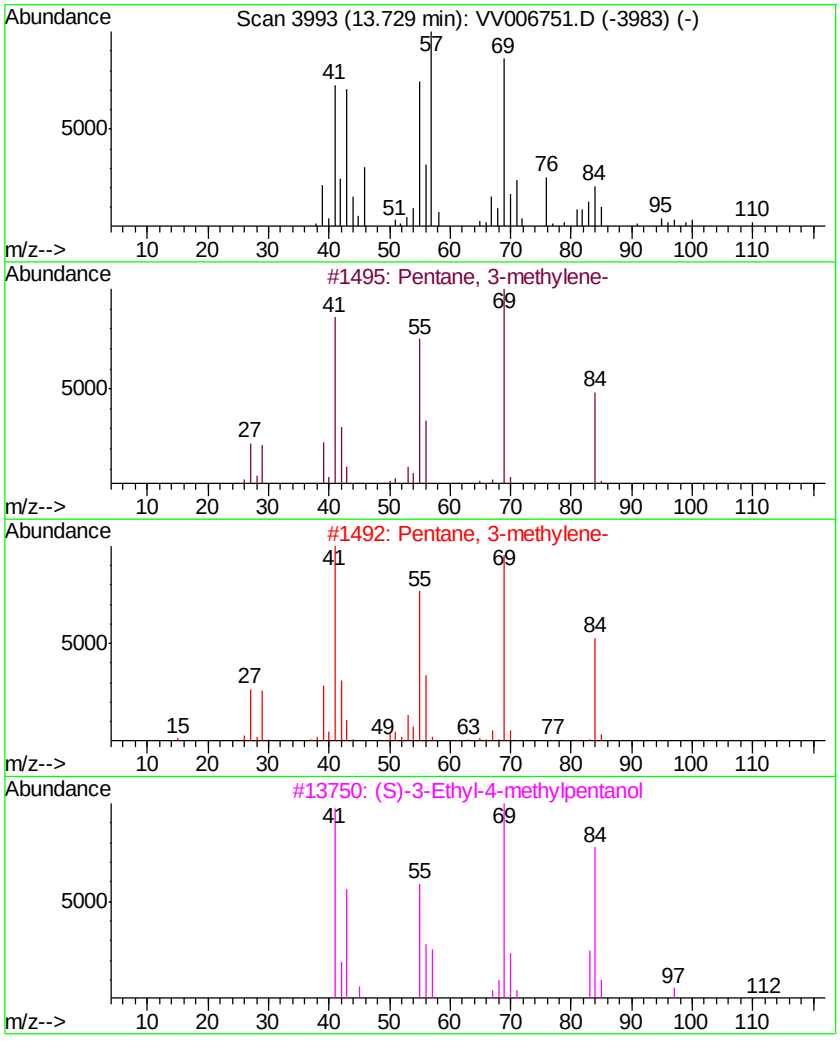
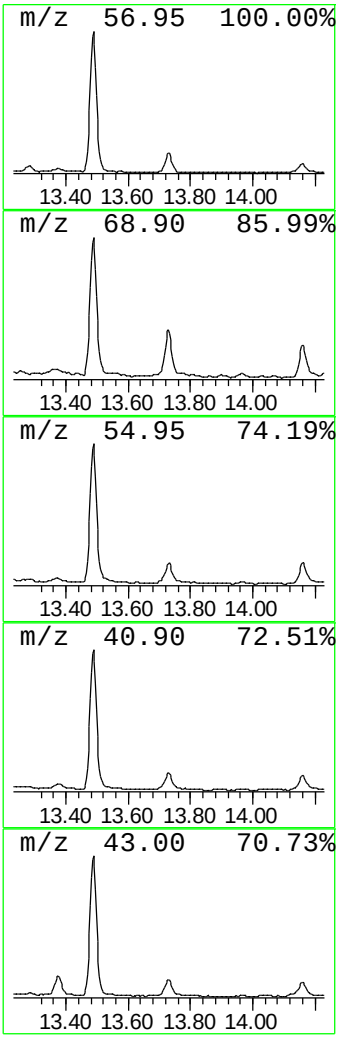
Peak Number 29 (DEL) Alkane: Cyclic13.73 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	0.56 ug/L	70290	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methylene-	84	C6H12	000760-21-4	52
2	Pentane, 3-methylene-	84	C6H12	000760-21-4	52
3	(S)-3-Ethyl-4-methylpentanol	130	C8H18O	1000144-07-1	47
4	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	46
5	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
Quant Title : TRACE VOA SOM01.0

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

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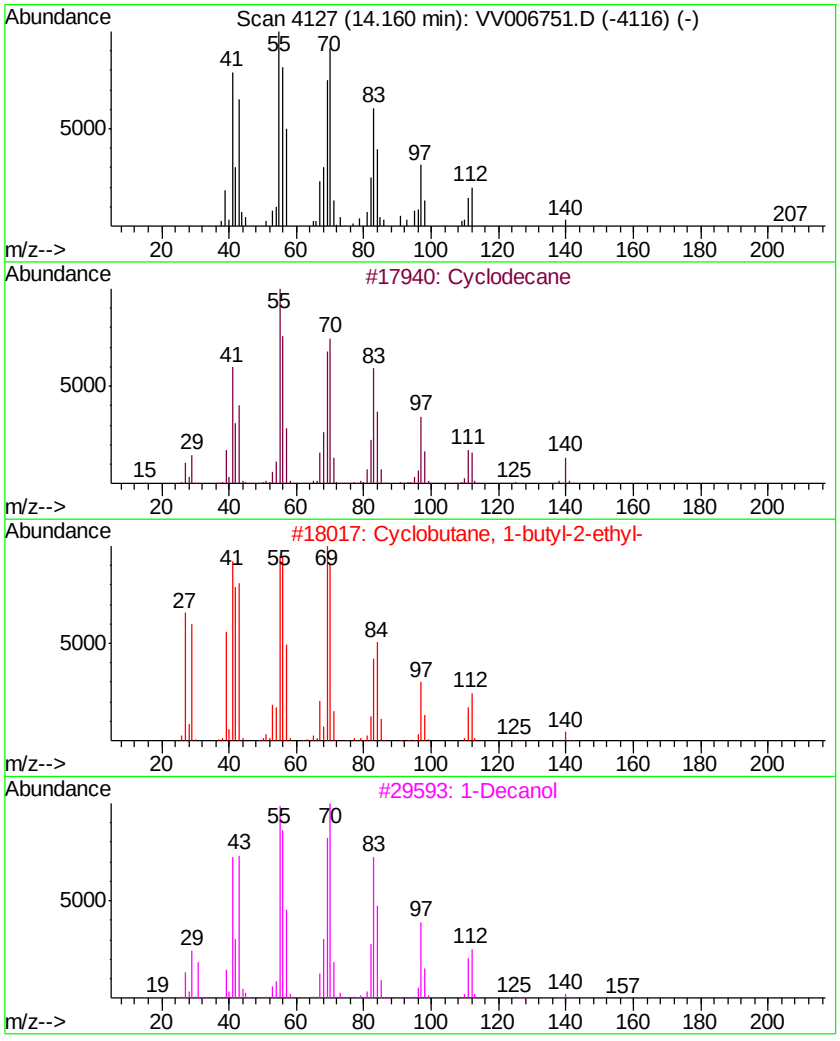
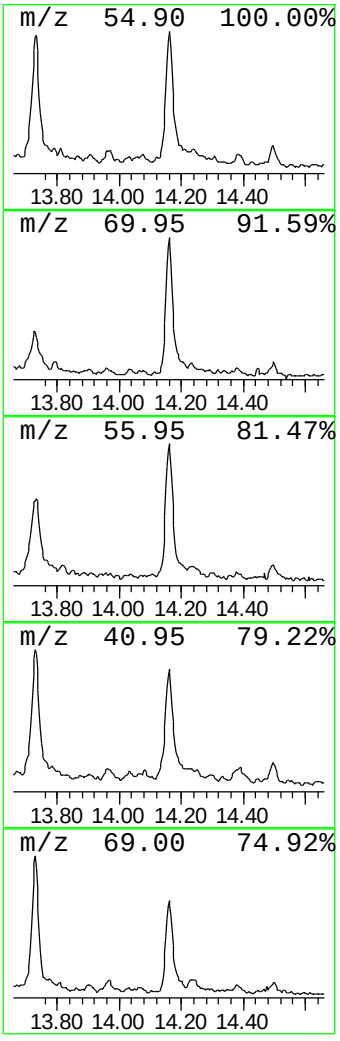
Peak Number 30 (DEL) Alkane: Cyclic14.16 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.16	0.56 ug/L	71074	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclodecane	140	C10H20	000293-96-9	95
2	Cyclobutane, 1-butyl-2-ethyl-	140	C10H20	1000150-67-3	93
3	1-Decanol	158	C10H22O	000112-30-1	90
4	1-Undecanol	172	C11H24O	000112-42-5	86
5	Cyclooctane	112	C8H16	000292-64-8	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072718\
Data File : VV006751.D
Acq On : 28 Jul 2018 03:12
Operator : SY/MD
Sample : J4207-17
Misc : 25 mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : JJ1H9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.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...	1.12	0.8	ug/L	85425	1	5.67	549447	5.0
Acetaldehyde	1.40	1.1	ug/L	120232	1	5.67	549447	5.0
(DEL) Alkane: Cyc...	1.78	0.8	ug/L	85159	1	5.67	549447	5.0
Isopropyl Alcohol	2.33	0.6	ug/L	70145	1	5.67	549447	5.0
(DEL) Alkane: Cyc...	2.98	0.8	ug/L	87206	1	5.67	549447	5.0
Butanal	3.76	4.9	ug/L	534975	1	5.67	549447	5.0
Nitric acid, prop...	4.79	0.7	ug/L	77636	1	5.67	549447	5.0
(DEL) Alkane: Cyc...	5.42	0.6	ug/L	61706	1	5.67	549447	5.0
Pentanal	6.34	3.9	ug/L	430317	1	5.67	549447	5.0
1,5-Pentanediol, ...	6.93	0.7	ug/L	71473	1	5.67	549447	5.0
unknown-01	7.03	1.1	ug/L	124492	1	5.67	549447	5.0
Hexanal	8.29	6.1	ug/L	808964	2	8.90	666066	5.0
unknown-02	8.72	1.1	ug/L	149289	2	8.90	666066	5.0
Heptanal	9.85	8.9	ug/L	1190550	2	8.90	666066	5.0
1-Butanol, 3-meth...	10.21	1.4	ug/L	179667	3	11.30	631141	5.0
Furan, 2-butyltet...	10.57	1.4	ug/L	170463	3	11.30	631141	5.0
Formic acid, hept...	10.86	0.8	ug/L	100019	3	11.30	631141	5.0
Octanal	11.20	18.9	ug/L	2385430	3	11.30	631141	5.0
unknown-03	11.50	1.6	ug/L	201792	3	11.30	631141	5.0
1-Hexanol, 2-ethyl-	11.58	1.9	ug/L	237611	3	11.30	631141	5.0
Formic acid, tetr...	11.83	1.7	ug/L	209842	3	11.30	631141	5.0
unknown-04	12.00	0.6	ug/L	75800	3	11.30	631141	5.0
1-Octanol	12.05	1.4	ug/L	171824	3	11.30	631141	5.0
Nonanal	12.39	22.3	ug/L	2809850	3	11.30	631141	5.0
1-Nonanol	13.15	2.8	ug/L	356292	3	11.30	631141	5.0
Decanal	13.49	5.1	ug/L	649174	3	11.30	631141	5.0
(DEL) Alkane: Cyc...	13.73	0.6	ug/L	70290	3	11.30	631141	5.0
(DEL) Alkane: Cyc...	14.16	0.6	ug/L	71074	3	11.30	631141	5.0