

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032371.D
 Acq On : 16 Aug 2018 4:34
 Operator : SY/AP
 Sample : J4457-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG07-MIVI

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 3
 Start Thrs: 0.001
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 0

Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.929	557	573	590	rBV	9401244	24097050	11.91%	2.447%
2	3.009	590	598	605	rVV	5011623	6418765	3.17%	0.652%
3	3.071	605	617	630	rVV2	6174064	11300965	5.59%	1.148%
4	3.141	630	639	649	rVV	1669027	2714879	1.34%	0.276%
5	3.270	670	679	689	rVV2	2523229	3558491	1.76%	0.361%
6	3.382	702	714	723	rBV	5379451	8363202	4.13%	0.849%
7	3.431	723	729	739	rVV	4557815	6333767	3.13%	0.643%
8	3.498	739	750	764	rVV3	1427809	2400474	1.19%	0.244%
9	3.939	877	887	909	rBV	8469202	16889032	8.35%	1.715%
10	4.112	916	941	958	rBV4	15934828	92487439	45.71%	9.393%
11	4.170	958	959	1018	rVB7	13824753	68533168	33.87%	6.960%
12	4.694	1106	1122	1140	rVB3	1087759	2500634	1.24%	0.254%
13	5.218	1282	1285	1306	rVB2	16401622	45302596	22.39%	4.601%
14	5.302	1306	1311	1324	rVB	1358658	2337509	1.16%	0.237%
15	5.379	1324	1335	1351	rVB	2351798	4400275	2.17%	0.447%
16	5.601	1389	1404	1418	rVB4	1161099	2669003	1.32%	0.271%
17	5.823	1458	1473	1490	rBV5	4415746	9133833	4.51%	0.928%
18	7.353	1937	1949	1961	rVV	4435487	8331871	4.12%	0.846%
19	7.421	1961	1970	1986	rVB2	1064465	2203971	1.09%	0.224%
20	7.662	2028	2045	2068	rVB4	1340882	3216817	1.59%	0.327%
21	7.922	2105	2126	2143	rBV	6998004	18846098	9.31%	1.914%
22	8.308	2234	2246	2257	rBV3	1375220	2790829	1.38%	0.283%
23	10.012	2759	2776	2794	rBV2	5282457	11439059	5.65%	1.162%
24	10.369	2875	2887	2909	rVB6	845630	2397291	1.18%	0.243%
25	10.819	2998	3027	3057	rBV2	16997952	68290639	33.75%	6.936%
26	11.176	3124	3138	3158	rBV2	1312589	3737121	1.85%	0.380%
27	11.906	3332	3365	3390	rBV2	24799192	88570449	43.77%	8.995%
28	12.308	3472	3490	3512	rBV2	5027374	11714091	5.79%	1.190%
29	12.684	3588	3607	3633	rBV3	857051	2393466	1.18%	0.243%
30	12.945	3667	3688	3710	rBV6	2182848	6906789	3.41%	0.701%
31	13.186	3747	3763	3784	rBV2	2381153	7470800	3.69%	0.759%
32	13.289	3784	3795	3810	rVV3	847241	2126457	1.05%	0.216%
33	13.903	3963	3986	3987	rVV2	1468548	2936913	1.45%	0.298%
34	13.913	3987	3989	4006	rVB	1487281	2154158	1.06%	0.219%

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35	14.305	4091	4111	4123	rBV3	1934388	5499711	2.72%	0.559%
36	14.649	4197	4218	4236	rBV	4650793	11481988	5.67%	1.166%
37	15.546	4470	4497	4516	rVB2	4695006	12984719	6.42%	1.319%
38	16.093	4651	4667	4689	rVB6	852566	3039055	1.50%	0.309%
39	16.347	4726	4746	4754	rVV2	2304775	6559141	3.24%	0.666%
40	16.388	4754	4759	4785	rVV2	1878572	4553738	2.25%	0.462%
41	16.996	4935	4948	4962	rVB2	1198150	2797431	1.38%	0.284%
42	17.215	4971	5016	5043	rBV3	54024214	202333666	100.00%	20.549%
43	17.340	5043	5055	5076	rVB3	1921606	5690893	2.81%	0.578%
44	17.758	5151	5185	5198	rBV5	893444	3435502	1.70%	0.349%
45	17.916	5218	5234	5251	rVB3	681041	2135154	1.06%	0.217%
46	18.186	5292	5318	5351	rVB5	14960828	47405780	23.43%	4.815%
47	18.404	5362	5386	5402	rBV2	1936393	5475547	2.71%	0.556%
48	18.591	5423	5444	5482	rVV	5949897	18998470	9.39%	1.929%
49	19.047	5565	5586	5597	rVV4	982011	3354231	1.66%	0.341%
50	19.141	5601	5615	5629	rVV2	3703491	11194764	5.53%	1.137%
51	19.202	5629	5634	5644	rVV6	1345550	3059894	1.51%	0.311%
52	19.285	5644	5660	5677	rVB4	3925506	11642389	5.75%	1.182%
53	19.690	5765	5786	5795	rBV5	2420007	7680544	3.80%	0.780%
54	19.735	5795	5800	5817	rVB5	1772243	3792092	1.87%	0.385%
55	20.128	5911	5922	5935	rVV3	993265	2313563	1.14%	0.235%
56	20.263	5956	5964	5982	rVB5	751653	2063167	1.02%	0.210%
57	20.935	6157	6173	6190	rVB6	786247	2137985	1.06%	0.217%
58	21.723	6389	6418	6446	rBV2	12634205	50040688	24.73%	5.082%

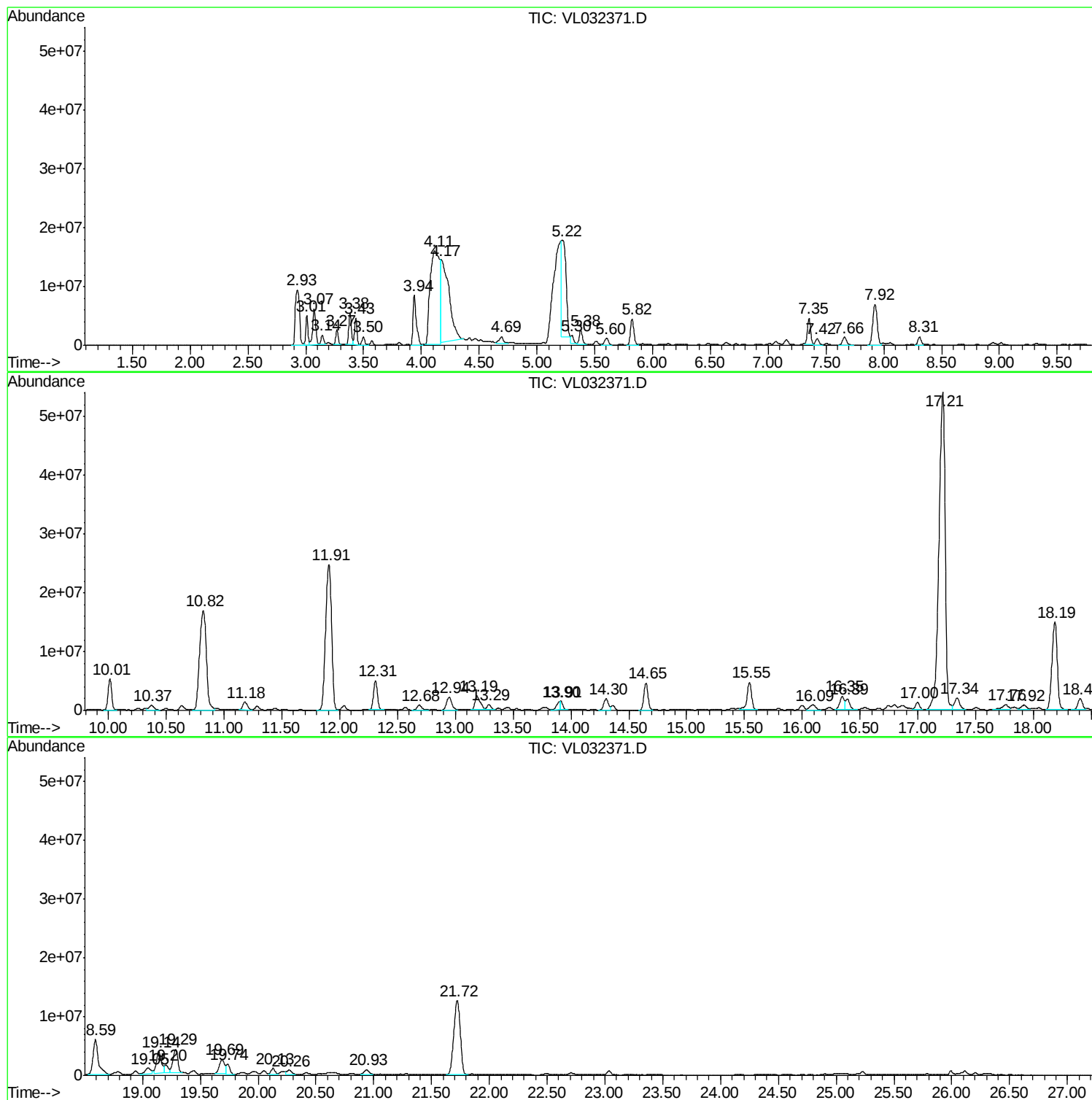
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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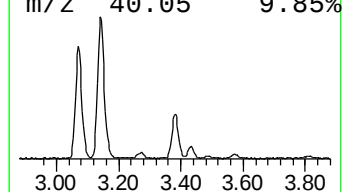
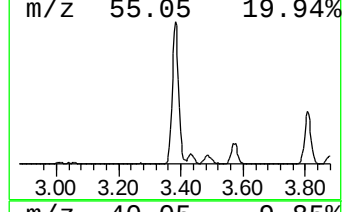
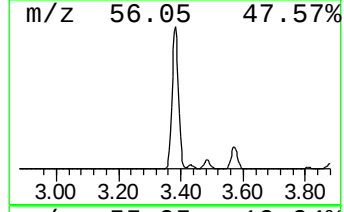
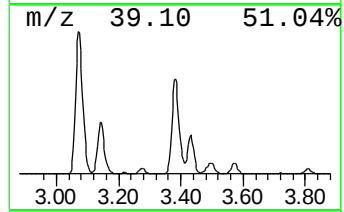
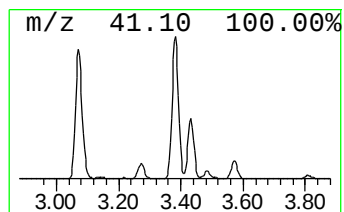
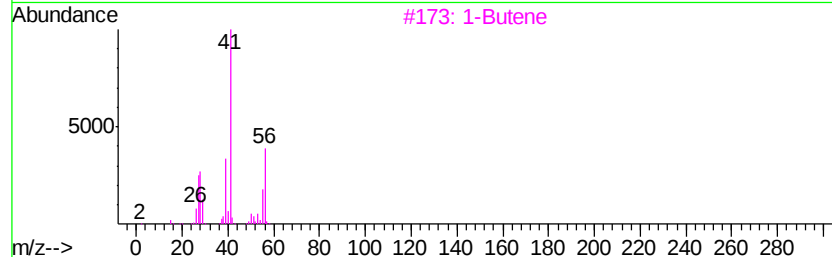
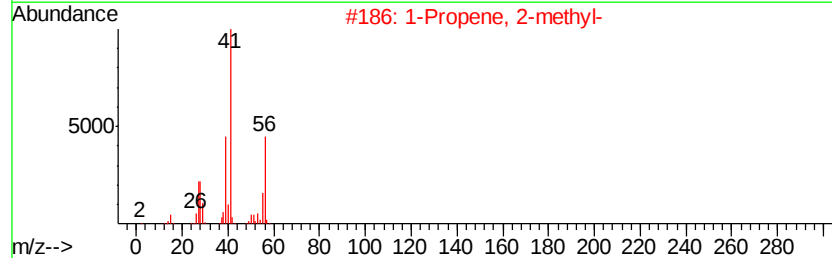
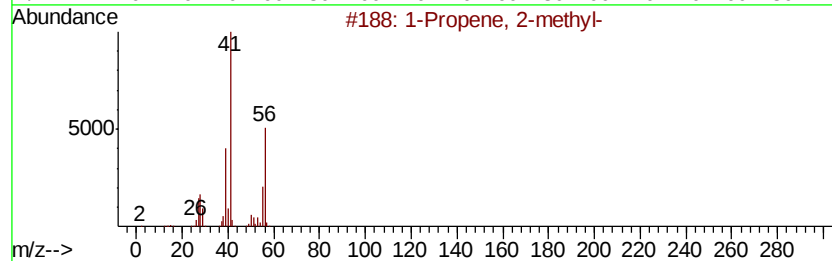
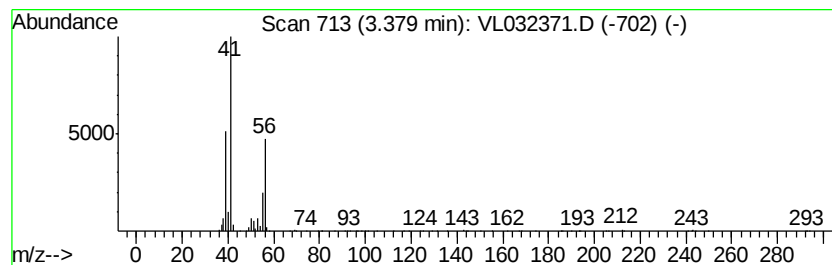
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 3 1-Propene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.38	9.16 ppbv	8363200	Bromochloromethane	5.82

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
2		1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
3		1-Butene	56	C4H8	000106-98-9	87
4		1-Butene	56	C4H8	000106-98-9	87
5		1-Butene	56	C4H8	000106-98-9	87



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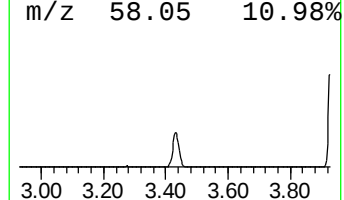
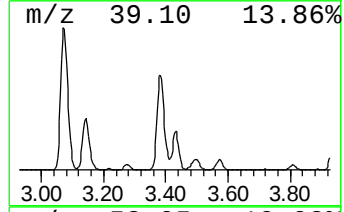
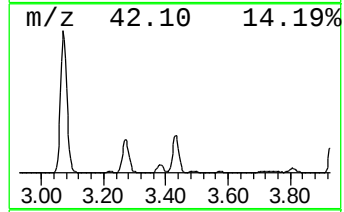
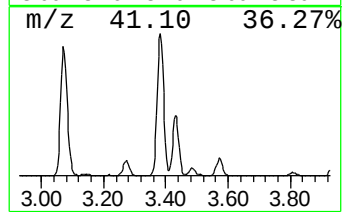
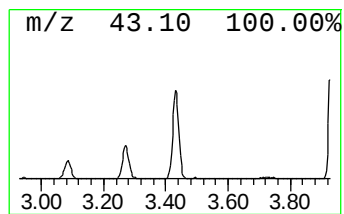
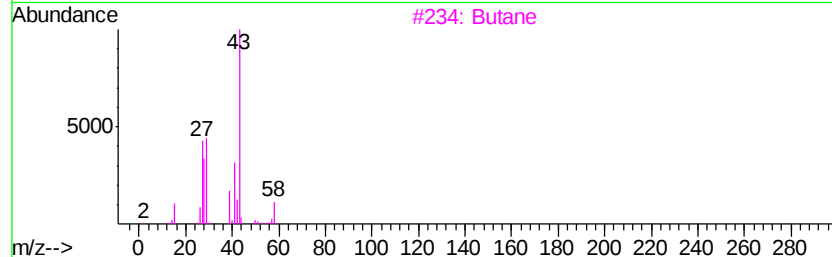
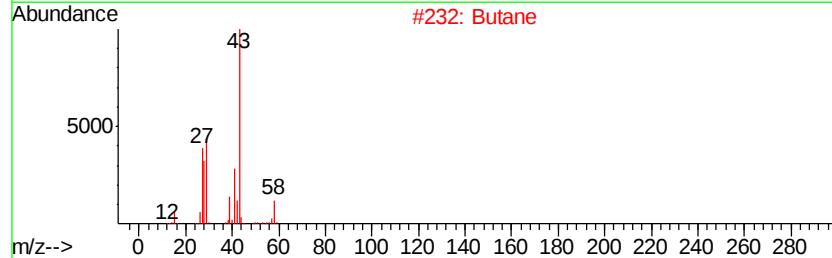
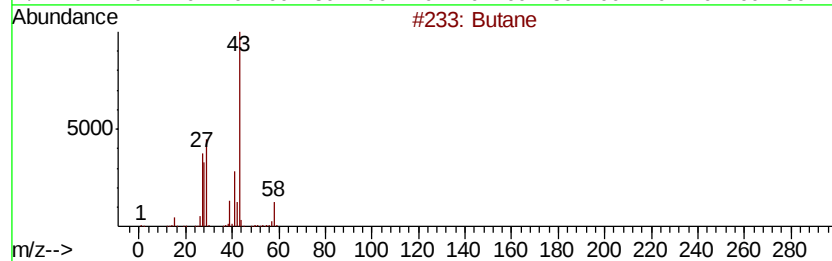
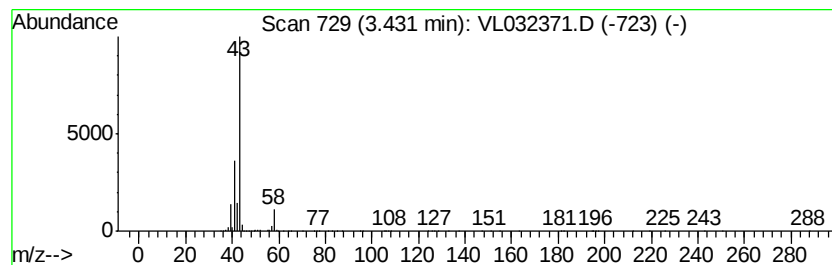
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 4 Butane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
3.43	6.93 ppbv	6333770	Bromochloromethane	5.82	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	86
2	Butane	58	C4H10	000106-97-8	86
3	Butane	58	C4H10	000106-97-8	72
4	Isobutane	58	C4H10	000075-28-5	28
5	Isobutane	58	C4H10	000075-28-5	9



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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

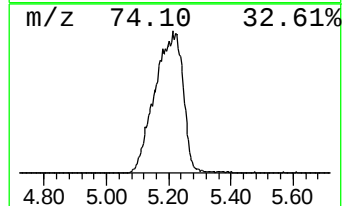
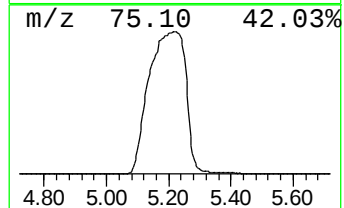
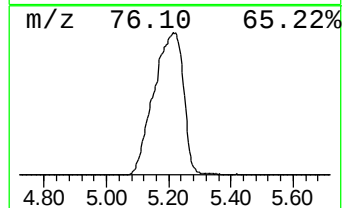
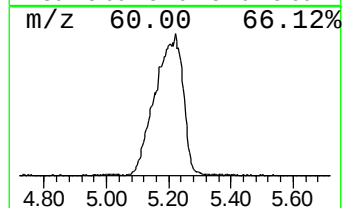
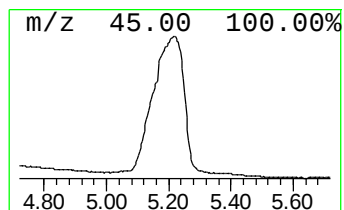
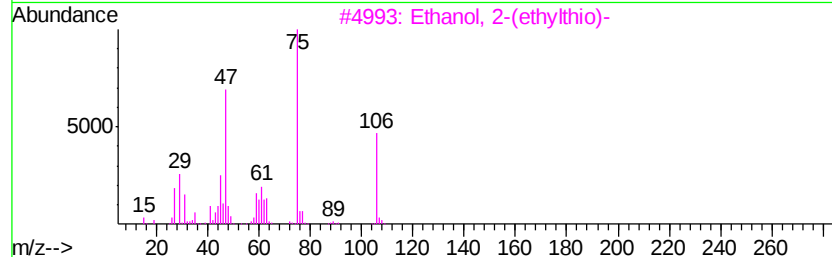
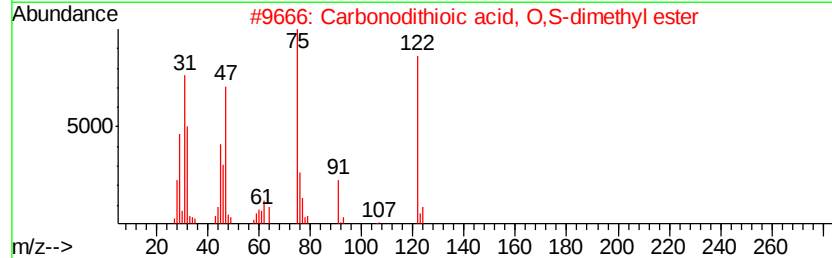
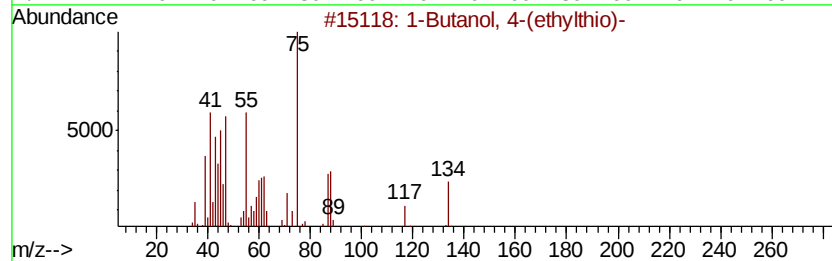
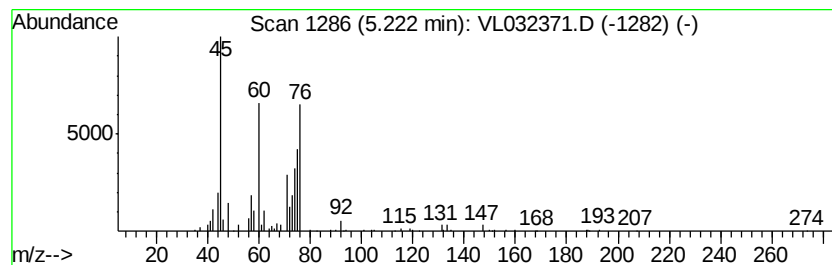
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 5 unknown5.22 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
5.22	49.60 ppbv	45302600	Bromochloromethane	5.82	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butanol, 4-(ethylthio)-	134	C6H14OS	1000362-58-1	36
2	Carbonodithioic acid, O,S-dimeth...	122	C3H6OS2	019708-81-7	33
3	Ethanol, 2-(ethylthio)-	106	C4H10OS	000110-77-0	28
4	2-Chloroethyl ethyl sulfide	124	C4H9ClS	000693-07-2	25
5	Silanol, dimethyl(1,1,2-trimethy...	160	C8H20OSi	055644-10-5	23



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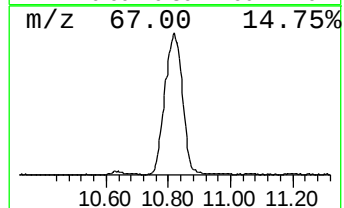
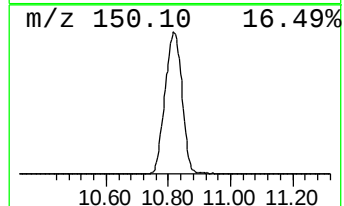
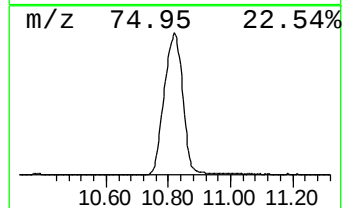
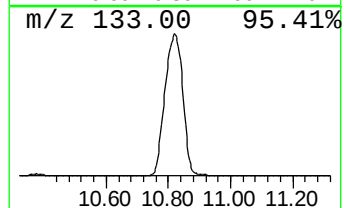
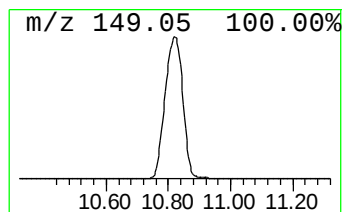
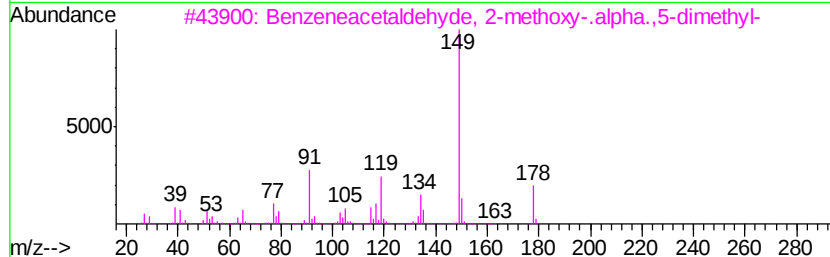
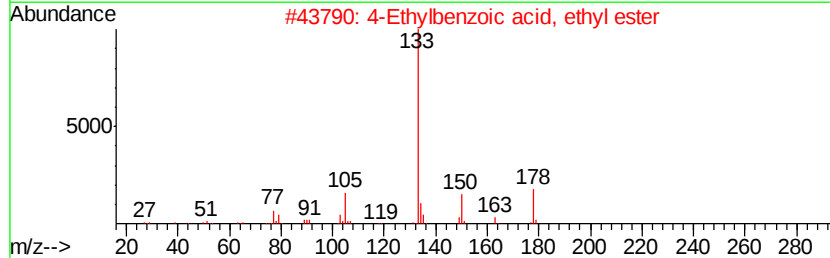
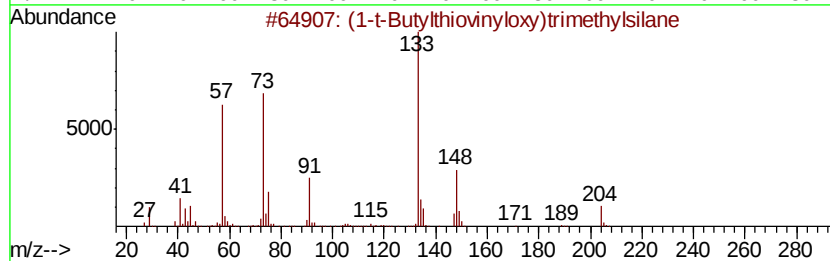
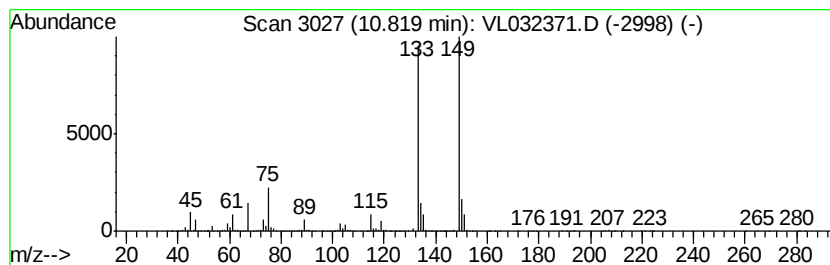
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 7 unknown10.82 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.82	58.30 ppbv	68290600	Chlorobenzene-d5	12.31
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		(1-t-Butylthiovinloxy)trimethyl...	204 C9H20OSi	063584-47-4 37
2		4-Ethylbenzoic acid, ethyl ester	178 C11H14O2	036207-13-3 32
3		Benzeneacetaldehyde, 2-methoxy-....	178 C11H14O2	053155-90-1 32
4		Benzo[blthiophene-3-methanol, 2,...	180 C10H12OS	039891-65-1 25
5		Benzene, 2-methoxy-4-methyl-1-(1...	164 C11H16O	001076-56-8 23



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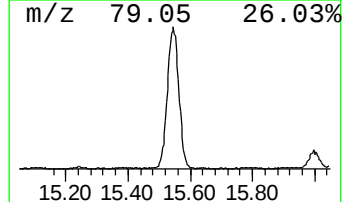
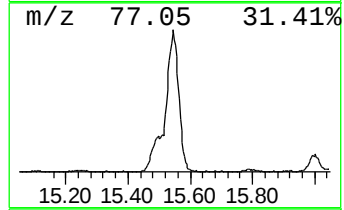
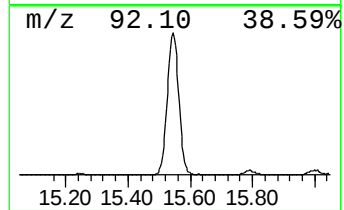
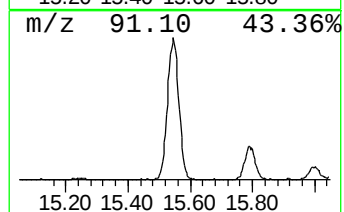
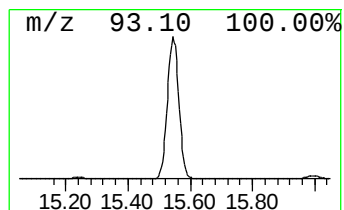
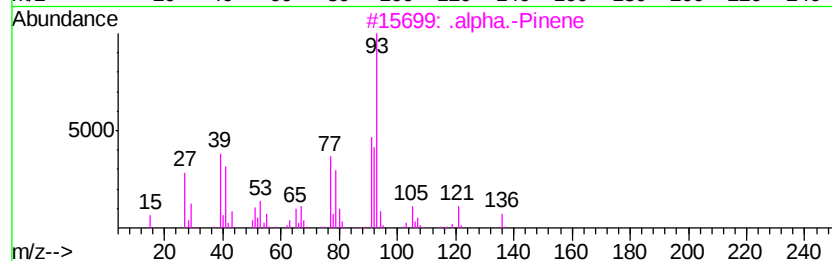
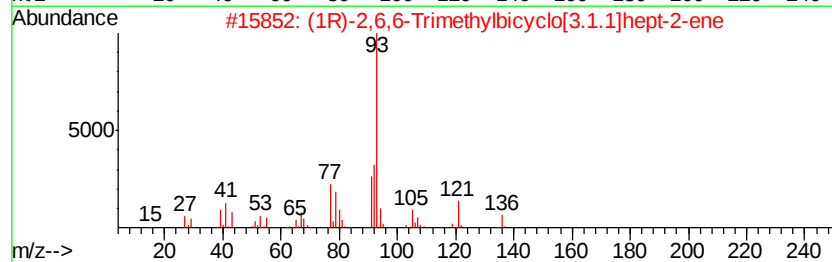
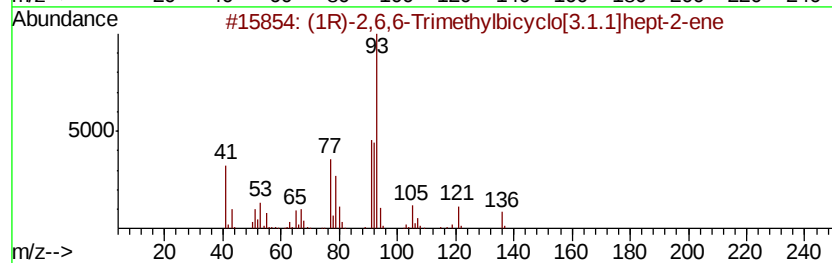
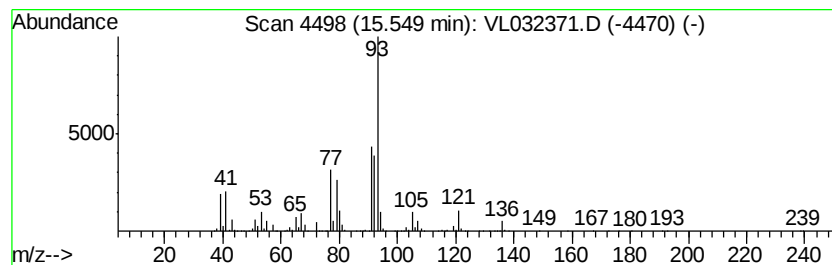
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 9 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	11.08 ppbv	12984700	Chlorobenzene-d5	12.31

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	136	C10H16	007785-70-8	95
2		(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	136	C10H16	007785-70-8	95
3		.alpha.-Pinene	136	C10H16	000080-56-8	95
4		.alpha.-Pinene	136	C10H16	000080-56-8	94
5		.alpha.-Pinene	136	C10H16	000080-56-8	91



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

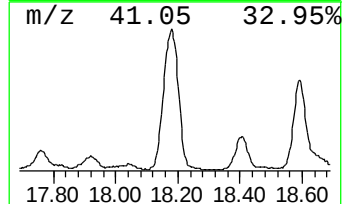
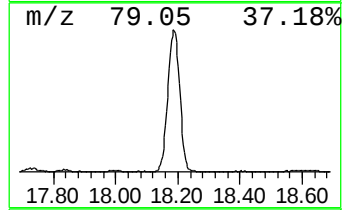
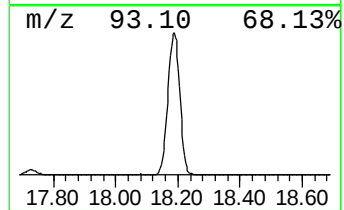
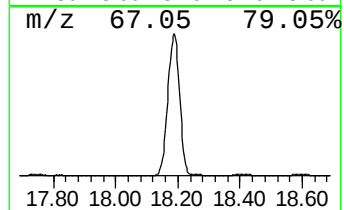
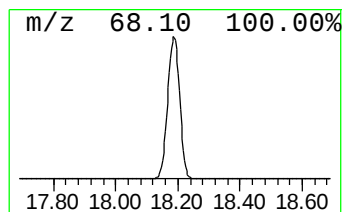
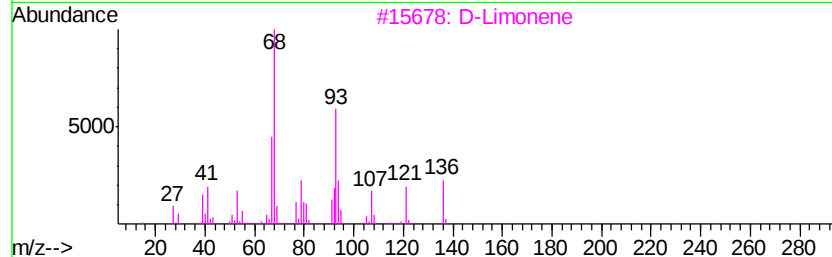
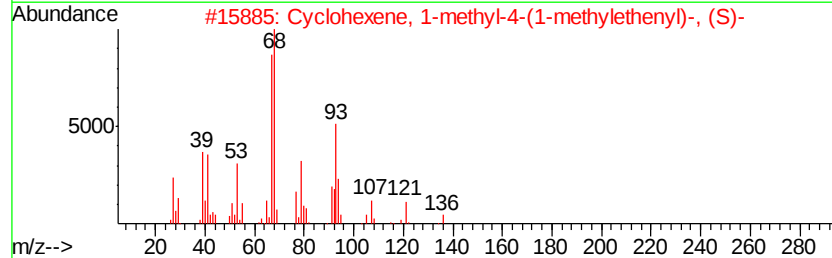
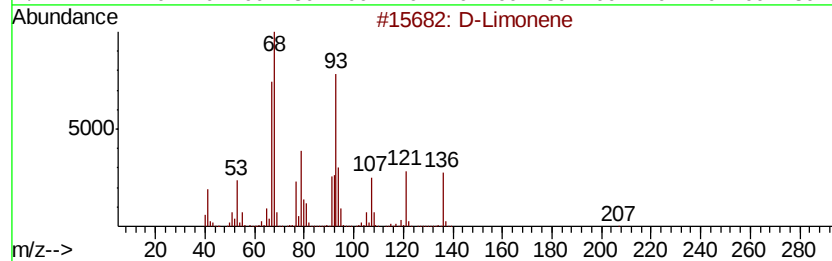
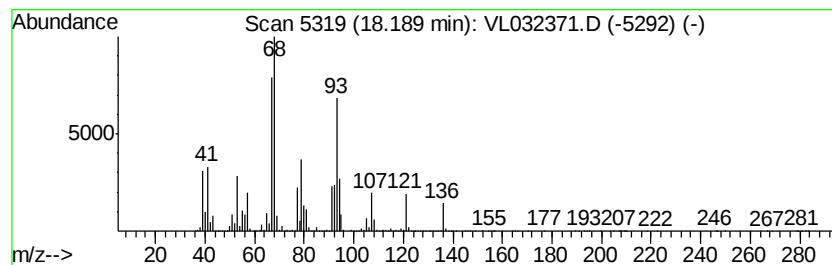
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 10 D-Limonene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	40.47 ppbv	47405800	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	D-Limonene	136	C10H16	005989-27-5	98
2		Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	95
3		D-Limonene	136	C10H16	005989-27-5	93
4		Limonene	136	C10H16	000138-86-3	93
5		Limonene	136	C10H16	000138-86-3	91



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

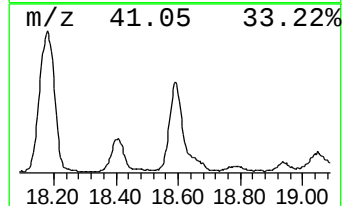
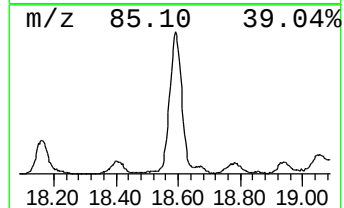
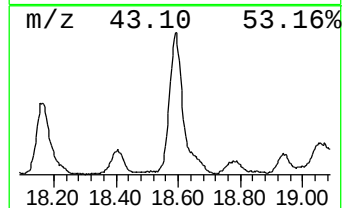
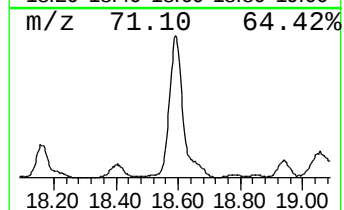
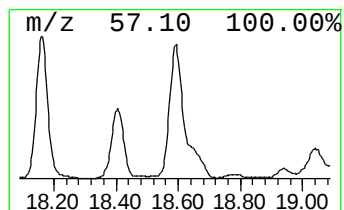
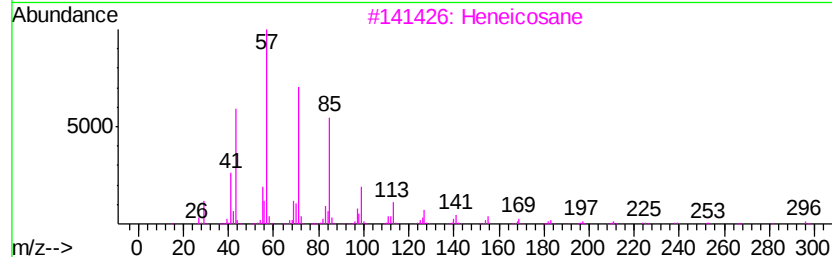
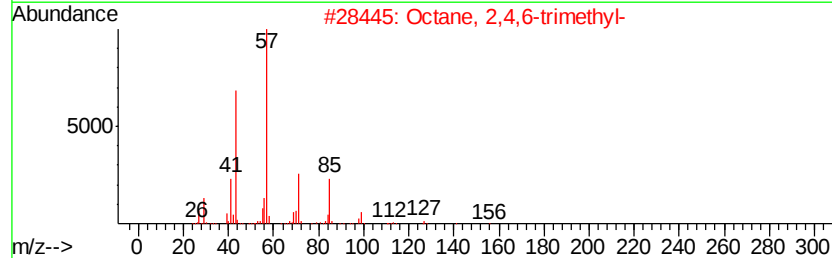
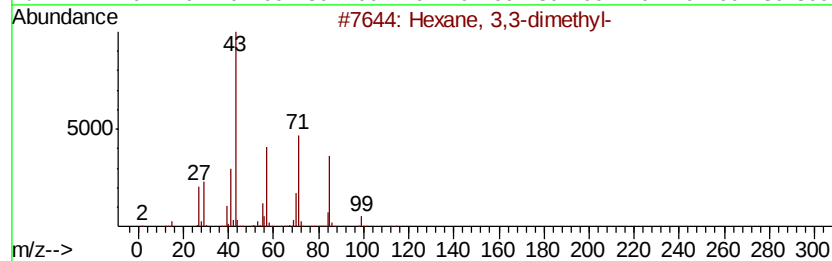
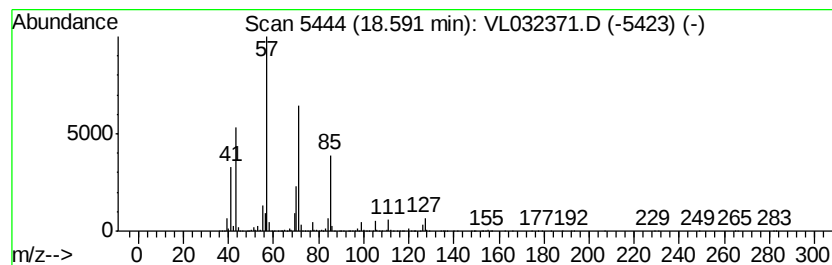
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 11 Hexane, 3,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	16.22 ppbv	18998500	Chlorobenzene-d5	12.31

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
2		Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	72
3		Heneicosane	296	C21H44	000629-94-7	72
4		Tetracosane	338	C24H50	000646-31-1	64
5		Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	64



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

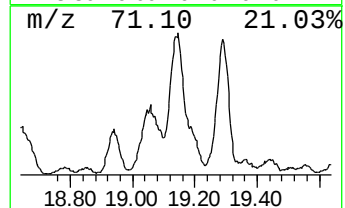
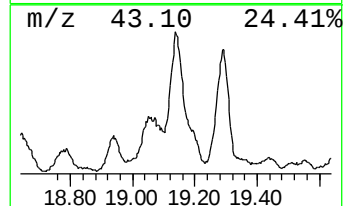
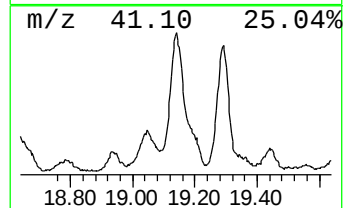
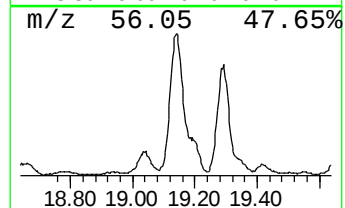
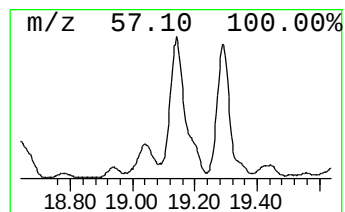
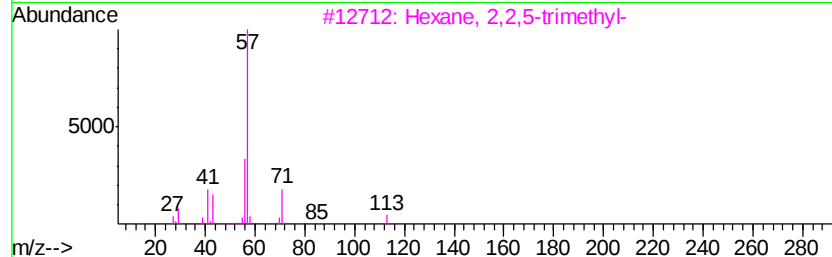
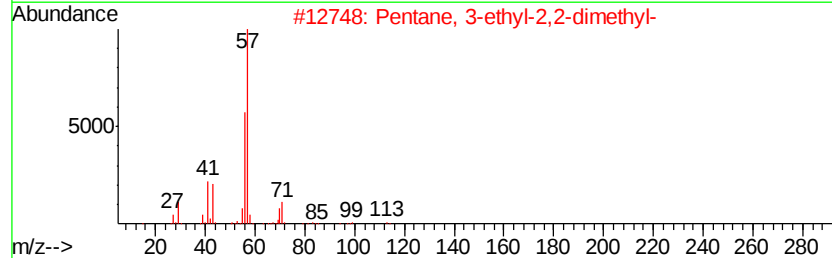
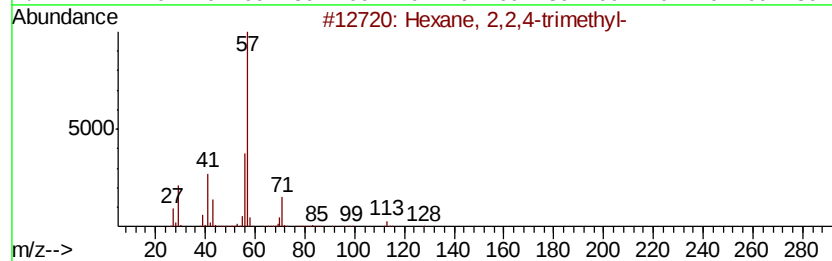
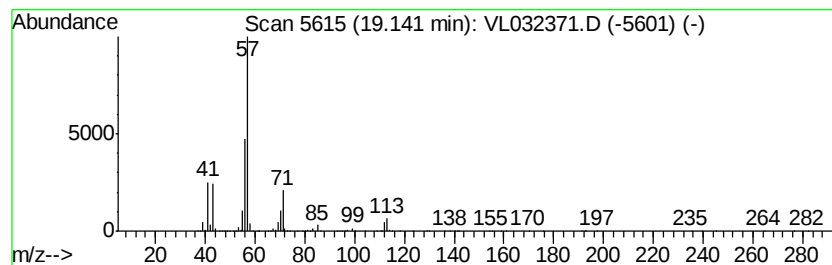
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 12 Hexane, 2,2,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.14	9.56 ppbv	11194800	Chlorobenzene-d5	12.31

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72
2			Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	72
3			Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
4			Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
5			Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	64



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
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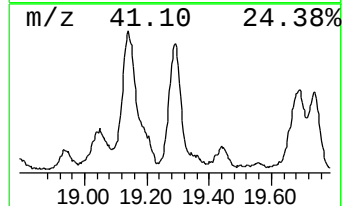
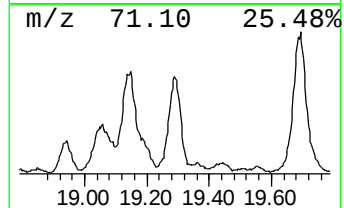
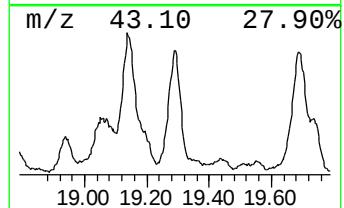
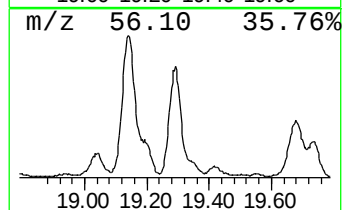
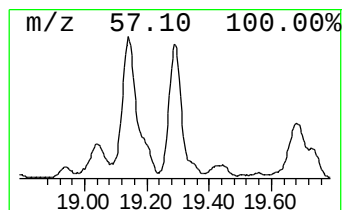
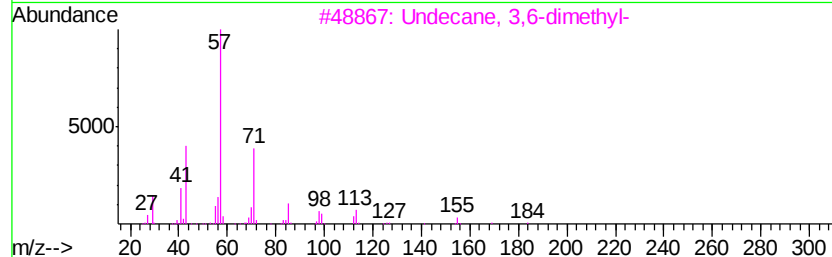
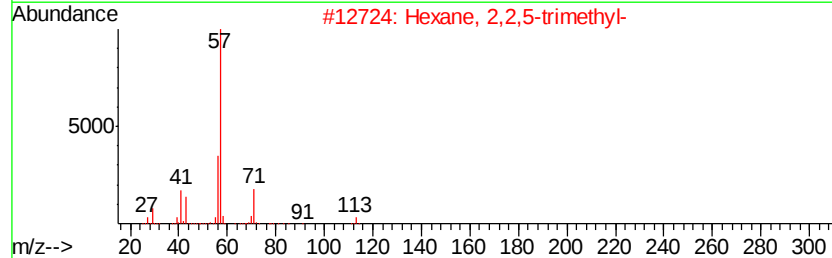
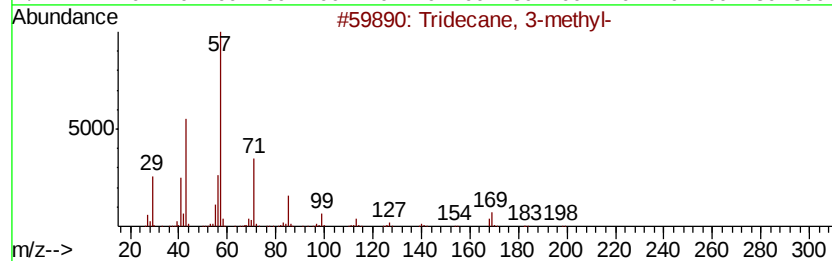
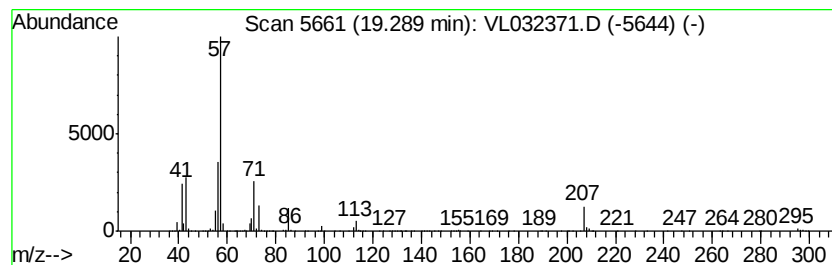
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 13 Tridecane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.29	9.94 ppbv	11642400	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecane, 3-methyl-	198	C14H30	006418-41-3	53
2		Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	47
3		Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	47
4		Heptane, 4-ethyl-2,2,6,6-tetrame...	184	C13H28	062108-31-0	47
5		Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	47



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

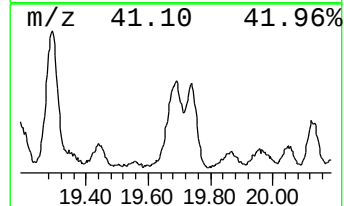
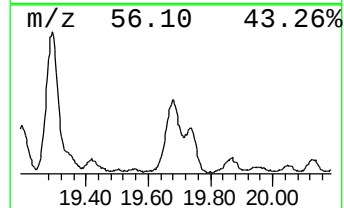
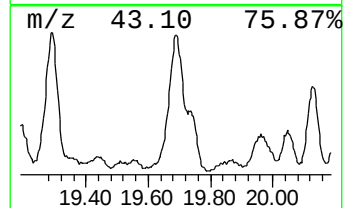
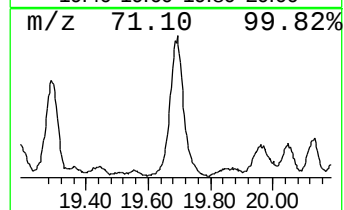
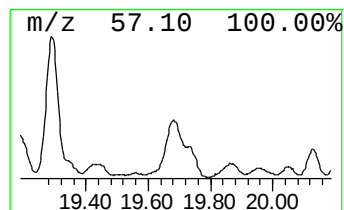
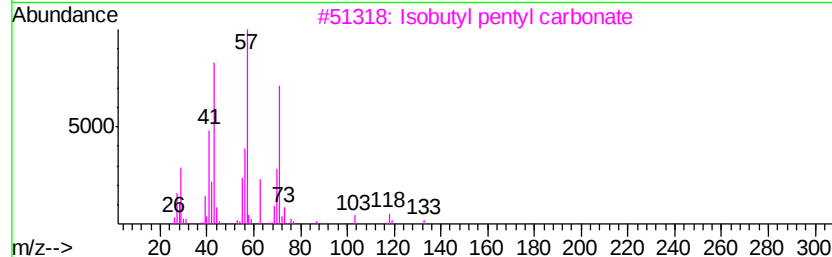
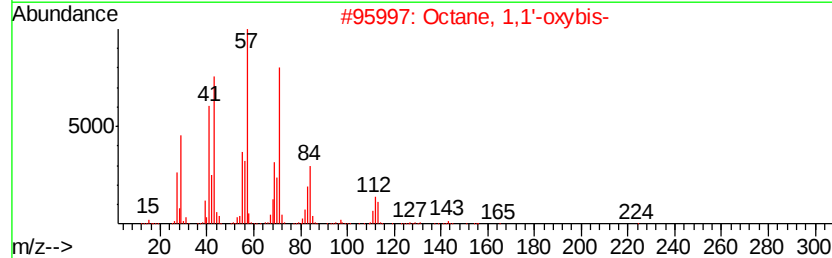
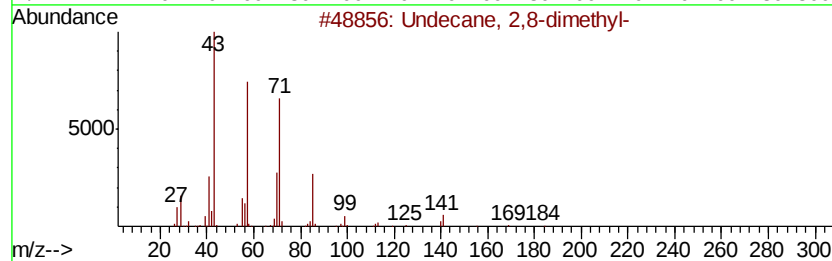
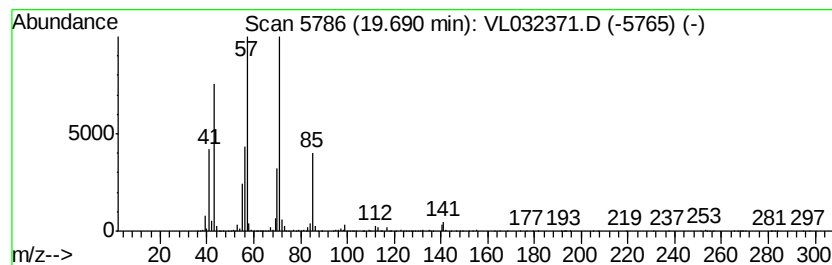
Instrument :
MSVOA_L
ClientSampleId :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 14 Undecane, 2,8-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
19.69	6.56 ppbv	7680540	Chlorobenzene-d5	12.31	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	64
2	Octane, 1,1'-oxybis-	242	C16H34O	000629-82-3	64
3	Isobutyl pentyl carbonate	188	C10H20O3	178442-32-5	59
4	Sulfurous acid, nonyl pentyl ester	278	C14H30O3S	1000309-14-2	53
5	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	53



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032371.D
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Sample : J4457-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

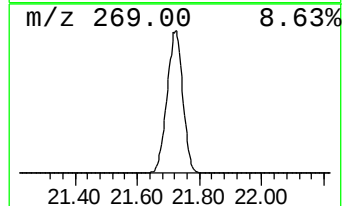
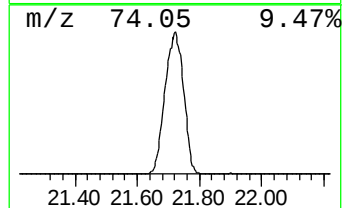
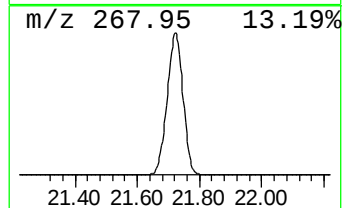
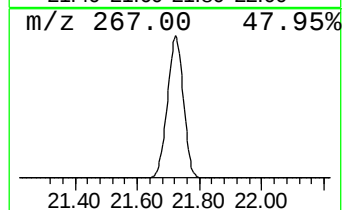
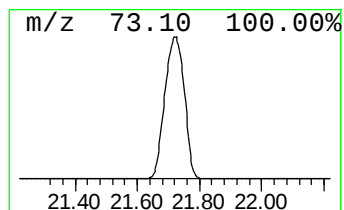
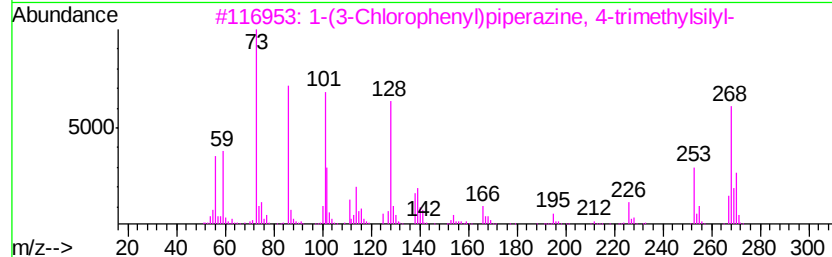
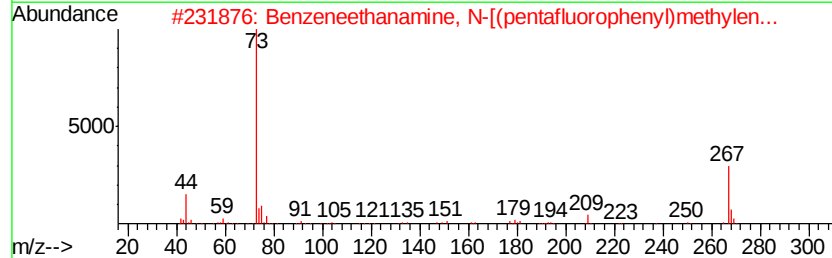
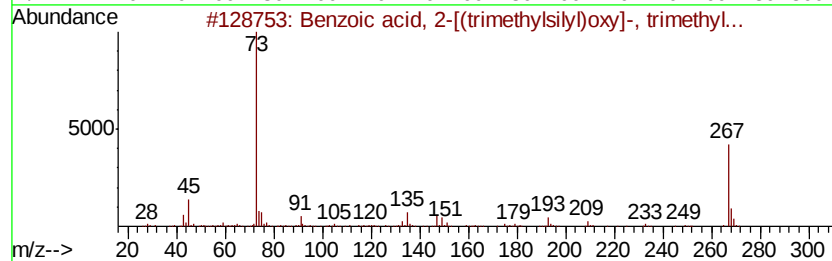
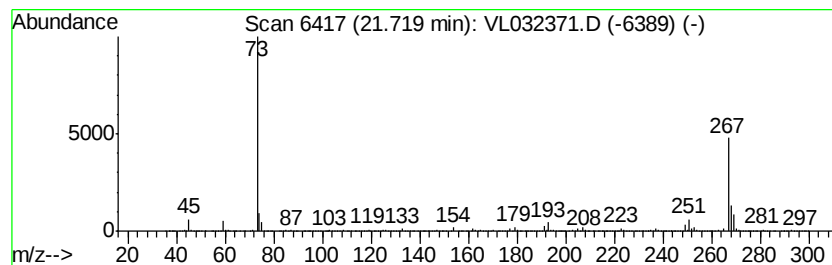
Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 15 Benzoic acid, 2-[(trimethyl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.		
21.72	42.72 ppbv	50040700	Chlorobenzene-d5	12.31		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl...	282	C13H22O3Si2	003789-85-3	56
2		Benzenethanamine, N-[(pentafluorophenyl)methyl]...	475	C21H26F5N2Si2	055429-85-1	37
3		1-(3-Chlorophenyl)piperazine, 4-trimethylsilyl-	268	C13H21ClN2Si	1000373-99-3	10
4		Tetrasiloxane, 1,1,3,3,5,5,7,7-octamethyl-	282	C8H26O3Si4	001000-05-1	9
5		11H-Dibenzo[b,e][1,4]diazepin-11-yl	267	C16H17N3O	013450-73-2	9



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081518\
Data File : VL032371.D
Acq On : 16 Aug 2018 4:34
Operator : SY/AP
Sample : J4457-07
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG07-MIVI

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Propene, 2-methyl-	3.38	9.2	ppbv	8363200	1	5.82	9133830	10.0
Butane	3.43	6.9	ppbv	6333770	1	5.82	9133830	10.0
unknown5.22	5.22	49.6	ppbv	45302600	1	5.82	9133830	10.0
unknown10.82	10.82	58.3	ppbv	68290600	3	12.31	11714100	10.0
(1R)-2,6,6-Trimet...	15.55	11.1	ppbv	12984700	3	12.31	11714100	10.0
D-Limonene	18.19	40.5	ppbv	47405800	3	12.31	11714100	10.0
Hexane, 3,3-dimet...	18.59	16.2	ppbv	18998500	3	12.31	11714100	10.0
Hexane, 2,2,4-tri...	19.14	9.6	ppbv	11194800	3	12.31	11714100	10.0
Tridecane, 3-methyl-	19.29	9.9	ppbv	11642400	3	12.31	11714100	10.0
Undecane, 2,8-dim...	19.69	6.6	ppbv	7680540	3	12.31	11714100	10.0
Benzoic acid, 2-[...	21.72	42.7	ppbv	50040700	3	12.31	11714100	10.0