

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032367.D
 Acq On : 16 Aug 2018 1:51
 Operator : SY/AP
 Sample : J4457-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-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	2.926	559	572	591	rBV	8302939	16322175	4.92%	0.322%
2	3.071	605	617	632	rBV4	43570981	98040828	29.56%	1.935%
3	3.138	632	638	648	rVB	2833409	4476379	1.35%	0.088%
4	3.273	668	680	699	rVV2	32704254	61701306	18.60%	1.218%
5	3.383	699	714	721	rVV	26394534	44394346	13.38%	0.876%
6	3.415	721	724	742	rVV2	59969920	158359395	47.74%	3.126%
7	3.489	742	747	765	rVV2	12973907	25993580	7.84%	0.513%
8	3.579	765	775	791	rVB	8467332	15289429	4.61%	0.302%
9	3.704	805	814	835	rVB	1750979	3386975	1.02%	0.067%
10	3.823	839	851	863	rBV	5130143	8123709	2.45%	0.160%
11	3.974	879	898	926	rBV6	66784417	238579589	71.92%	4.710%
12	4.132	936	947	960	rVB3	12313778	24138332	7.28%	0.476%
13	4.203	960	969	974	rVV	6195468	10278420	3.10%	0.203%
14	4.251	974	984	1002	rVV3	61758420	173831030	52.40%	3.431%
15	4.341	1002	1012	1020	rVV	9109309	18942047	5.71%	0.374%
16	4.389	1020	1027	1036	rVV	6162799	11767763	3.55%	0.232%
17	4.440	1036	1043	1052	rVV	4633309	8280864	2.50%	0.163%
18	4.508	1052	1064	1087	rVB	9700610	21273113	6.41%	0.420%
19	4.691	1105	1121	1125	rBV	3603260	6702427	2.02%	0.132%
20	4.743	1125	1137	1150	rVV	17892816	40114443	12.09%	0.792%
21	4.810	1150	1158	1171	rVB	4219645	7122218	2.15%	0.141%
22	5.051	1217	1233	1241	rVV4	5445491	16724576	5.04%	0.330%
23	5.080	1241	1242	1263	rVB4	3217903	5304789	1.60%	0.105%
24	5.219	1265	1285	1294	rBV2	39570527	106903563	32.23%	2.110%
25	5.286	1294	1306	1330	rVV3	60202372	199321439	60.09%	3.935%
26	5.395	1330	1340	1362	rVV	13827819	30932295	9.33%	0.611%
27	5.553	1366	1389	1405	rVV2	47904645	153514461	46.28%	3.030%
28	5.646	1405	1418	1440	rVB3	10935322	27540376	8.30%	0.544%
29	5.891	1467	1494	1507	rBV4	61588835	212699221	64.12%	4.199%
30	5.961	1507	1516	1524	rVV5	5561397	13976585	4.21%	0.276%
31	6.013	1524	1532	1547	rVB	5574999	11428513	3.45%	0.226%
32	6.109	1547	1562	1573	rBV4	3636849	8535509	2.57%	0.168%
33	6.174	1573	1582	1595	rVB3	3374942	6852308	2.07%	0.135%
34	6.309	1610	1624	1640	rVB3	2231165	4934237	1.49%	0.097%

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35	6.424	1640	1660	1673	rBV2	6203914	16477649	4.97%	0.325%
36	6.527	1673	1692	1723	rVB3	56018077	196271490	59.17%	3.874%
37	6.665	1723	1735	1745	rBV3	3163156	6548311	1.97%	0.129%
38	6.923	1803	1815	1829	rBV6	2054025	4779903	1.44%	0.094%
39	7.042	1829	1852	1857	rVV4	4720413	10657662	3.21%	0.210%
40	7.096	1857	1869	1887	rVB2	21225219	55868499	16.84%	1.103%
41	7.206	1887	1903	1919	rBV2	7312023	19613257	5.91%	0.387%
42	7.363	1929	1952	1969	rBV4	62000955	217859866	65.68%	4.301%
43	7.479	1969	1988	2001	rVV	37014817	125288017	37.77%	2.473%
44	7.556	2001	2012	2032	rVV2	23467582	65029707	19.60%	1.284%
45	7.717	2032	2062	2106	rVB4	38903664	166693770	50.25%	3.291%
46	7.945	2112	2133	2144	rBV2	21351793	63056094	19.01%	1.245%
47	8.022	2144	2157	2169	rVV4	22132178	74114588	22.34%	1.463%
48	8.096	2169	2180	2205	rVB	24276663	69317523	20.90%	1.368%
49	8.370	2242	2265	2291	rVV	44886452	160970743	48.53%	3.178%
50	8.476	2291	2298	2314	rVB2	1648129	3748867	1.13%	0.074%
51	9.090	2449	2489	2516	rVB4	77648836	331709735	100.00%	6.548%
52	9.283	2532	2549	2560	rBV2	9192508	23013298	6.94%	0.454%
53	9.360	2560	2573	2593	rVV4	17345433	48193139	14.53%	0.951%
54	9.598	2620	2647	2666	rVB5	9576387	27708458	8.35%	0.547%
55	9.810	2692	2713	2727	rBV3	7618990	21374152	6.44%	0.422%
56	10.058	2767	2790	2805	rVV3	34708550	113869610	34.33%	2.248%
57	10.157	2805	2821	2832	rVV	6528219	17865777	5.39%	0.353%
58	10.218	2832	2840	2849	rVV	4640223	10928051	3.29%	0.216%
59	10.302	2849	2866	2878	rVV2	27034885	87958610	26.52%	1.736%
60	10.353	2878	2882	2899	rVB3	11134044	22691902	6.84%	0.448%
61	10.453	2899	2913	2924	rBV2	3654638	8912438	2.69%	0.176%
62	10.540	2924	2940	2968	rVV3	19077212	65576352	19.77%	1.294%
63	10.733	2983	3000	3010	rVV3	19002595	55476295	16.72%	1.095%
64	10.791	3010	3018	3033	rVV2	15901220	38458792	11.59%	0.759%
65	10.993	3065	3081	3102	rVV6	8259962	32750724	9.87%	0.647%
66	11.096	3102	3113	3118	rVV4	3576810	7804092	2.35%	0.154%
67	11.138	3118	3126	3141	rVB4	5532587	13472466	4.06%	0.266%
68	11.234	3141	3156	3166	rBV3	2277507	6091594	1.84%	0.120%
69	11.331	3166	3186	3208	rVB4	31271979	106179807	32.01%	2.096%
70	11.469	3218	3229	3241	rVB7	1759346	4224060	1.27%	0.083%
71	11.556	3241	3256	3280	rVB3	7306123	20137229	6.07%	0.398%

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

72	11.755	3306	3318	3338	rVB3	1289897	3413969	1.03%	0.067%
73	11.922	3338	3370	3394	rBV4	4376249	18681961	5.63%	0.369%
74	12.067	3396	3415	3434	rBV2	3764480	10422716	3.14%	0.206%
75	12.257	3457	3474	3487	rVV	13782916	38517145	11.61%	0.760%
76	12.334	3487	3498	3514	rVV5	6168026	21487370	6.48%	0.424%
77	12.447	3514	3533	3563	rVV5	27473878	96600135	29.12%	1.907%
78	12.598	3563	3580	3595	rVV2	12253878	33908598	10.22%	0.669%
79	12.685	3595	3607	3623	rVV3	3798265	10277869	3.10%	0.203%
80	12.958	3672	3692	3710	rVB2	16943124	47536236	14.33%	0.938%
81	13.057	3710	3723	3732	rBV2	2988968	7066813	2.13%	0.140%
82	13.122	3732	3743	3755	rVV2	5891892	14118845	4.26%	0.279%
83	13.221	3755	3774	3794	rVV3	20730460	87497850	26.38%	1.727%
84	13.337	3794	3810	3832	rVB5	12223655	39876457	12.02%	0.787%
85	13.559	3854	3879	3906	rBV2	11183852	35656672	10.75%	0.704%
86	13.800	3937	3954	3972	rVB9	1986945	6239205	1.88%	0.123%
87	13.942	3972	3998	4011	rBV2	11887841	30553931	9.21%	0.603%
88	14.035	4011	4027	4045	rVV6	4874135	16874960	5.09%	0.333%
89	14.131	4045	4057	4069	rVV3	4900551	12206847	3.68%	0.241%
90	14.212	4069	4082	4094	rVV2	3455805	8311169	2.51%	0.164%
91	14.389	4118	4137	4154	rVB2	19755670	53830669	16.23%	1.063%
92	14.662	4204	4222	4234	rBV2	5940907	15242369	4.60%	0.301%
93	14.742	4234	4247	4261	rVB4	3469571	9520159	2.87%	0.188%
94	14.964	4305	4316	4334	rVB5	2355344	7143390	2.15%	0.141%
95	15.131	4343	4368	4377	rBV4	2993998	8782483	2.65%	0.173%
96	15.183	4377	4384	4397	rVB3	1674467	3736975	1.13%	0.074%
97	15.305	4409	4422	4437	rBV8	1334384	3764580	1.13%	0.074%
98	15.421	4437	4458	4461	rVV5	5222620	12783777	3.85%	0.252%
99	15.466	4461	4472	4490	rVV2	9496191	28673714	8.64%	0.566%
100	15.549	4490	4498	4514	rVV7	1754425	5060566	1.53%	0.100%
101	15.723	4539	4552	4565	rVV3	4450779	11105126	3.35%	0.219%
102	15.810	4565	4579	4596	rVB4	3225587	9938931	3.00%	0.196%
103	16.012	4623	4642	4654	rBV	6820514	17033518	5.14%	0.336%
104	16.086	4654	4665	4691	rVB5	5370986	15471499	4.66%	0.305%
105	16.253	4691	4717	4729	rBV5	5131684	18842694	5.68%	0.372%
106	16.334	4729	4742	4759	rVB3	6840793	16887191	5.09%	0.333%
107	16.543	4792	4807	4841	rVB3	4318964	16168201	4.87%	0.319%
108	17.009	4935	4952	4971	rBV4	6140863	17169002	5.18%	0.339%
109	17.112	4971	4984	4994	rVV4	1953141	4840559	1.46%	0.096%

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Integration Parameters: RTEINT.P

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Smoothing : ON Filtering: 5
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Start Thrs: 0.001 Max Peaks: 100
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110	17.192	4994	5009	5031	rVB2	4759810	14304867	4.31%	0.282%
111	17.347	5038	5057	5072	rBV2	12197843	31997439	9.65%	0.632%
112	17.443	5075	5087	5099	rVV10	1356018	3823428	1.15%	0.075%
113	17.520	5099	5111	5137	rVB10	1303770	5555363	1.67%	0.110%
114	17.761	5167	5186	5202	rBV	11606990	34397711	10.37%	0.679%
115	18.048	5259	5275	5296	rVB	3887044	9797269	2.95%	0.193%
116	18.408	5357	5387	5400	rBV5	2107268	8315574	2.51%	0.164%
117	19.083	5582	5597	5614	rBV5	1357836	3702722	1.12%	0.073%
118	19.183	5614	5628	5648	rBV6	1646567	5895682	1.78%	0.116%
119	19.366	5673	5685	5698	rBV3	1495100	3363286	1.01%	0.066%
120	20.131	5908	5923	5937	rBV	3545573	8129213	2.45%	0.160%
121	21.713	6394	6415	6435	rVB2	1390277	4761533	1.44%	0.094%

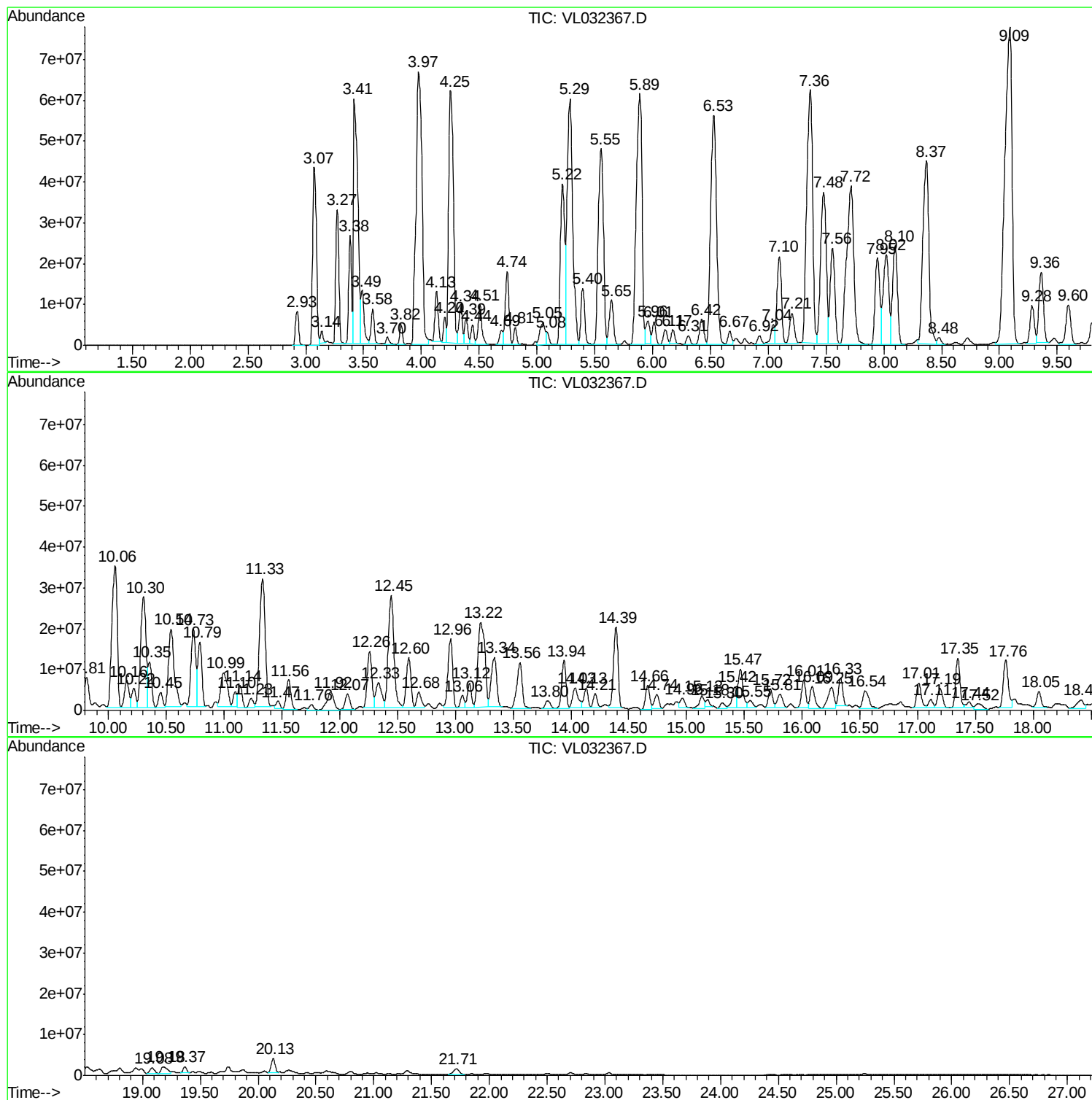
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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



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Instrument :
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ClientSampled :
SG06-MIVI

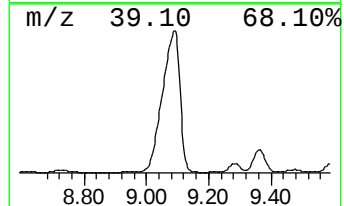
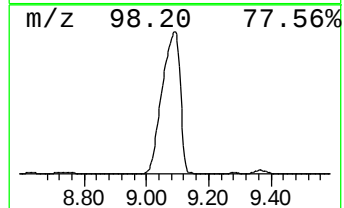
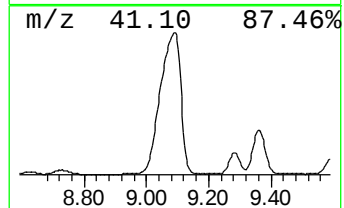
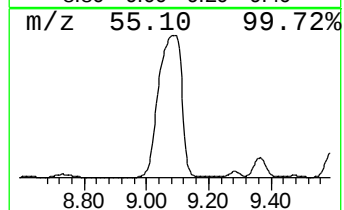
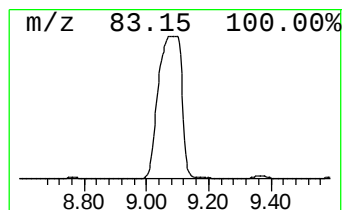
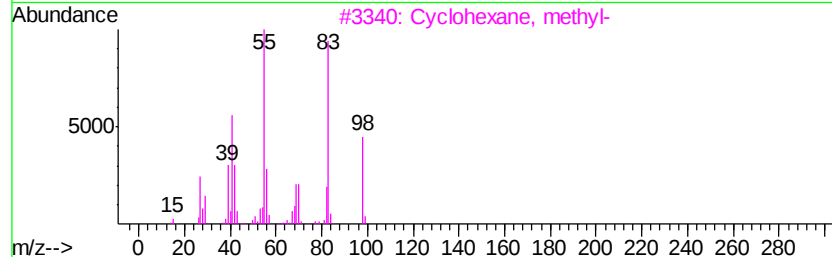
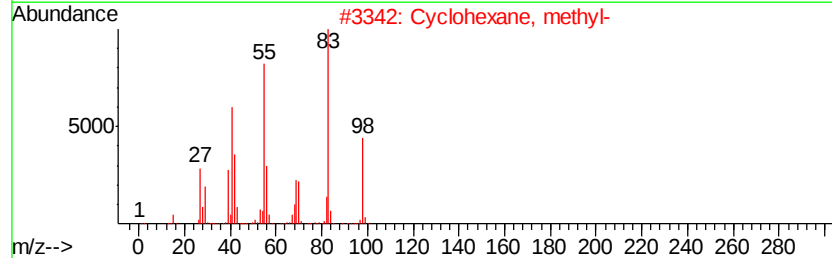
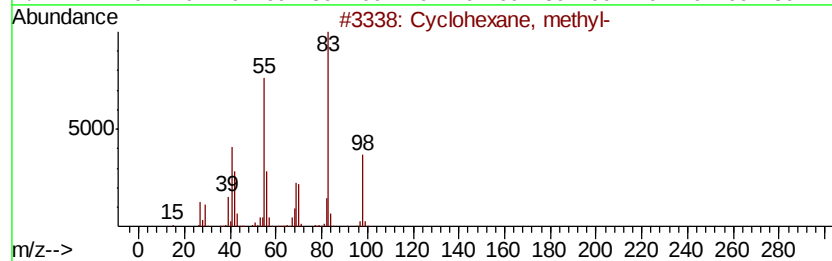
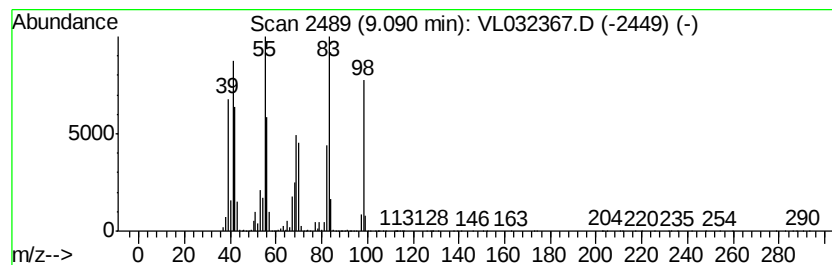
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Cyclohexane, methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	15.23 ppbv	331710000	1,4-Difluorobenzene	7.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, methyl-	98	C7H14	000108-87-2	70
2		Cyclohexane, methyl-	98	C7H14	000108-87-2	64
3		Cyclohexane, methyl-	98	C7H14	000108-87-2	58
4		Cycloheptane	98	C7H14	000291-64-5	49
5		2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	46



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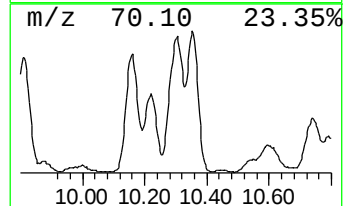
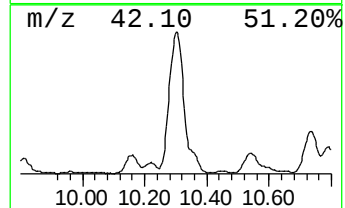
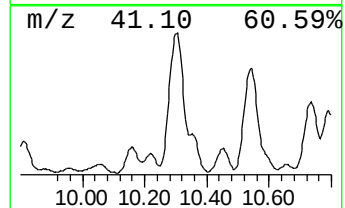
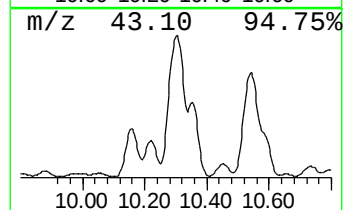
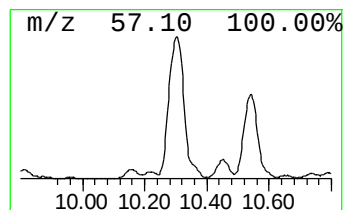
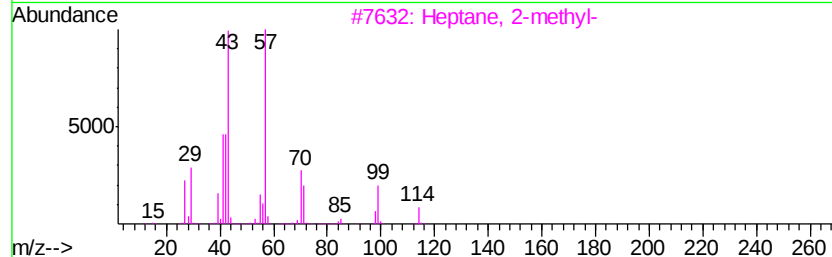
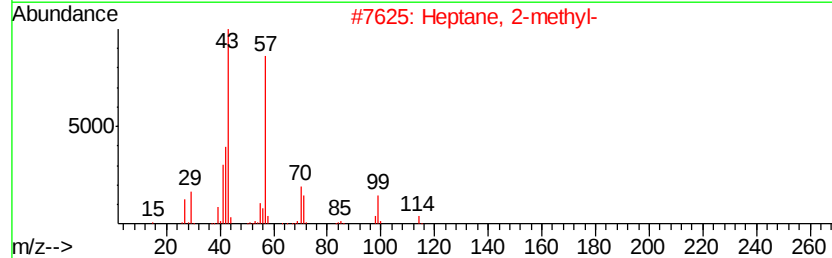
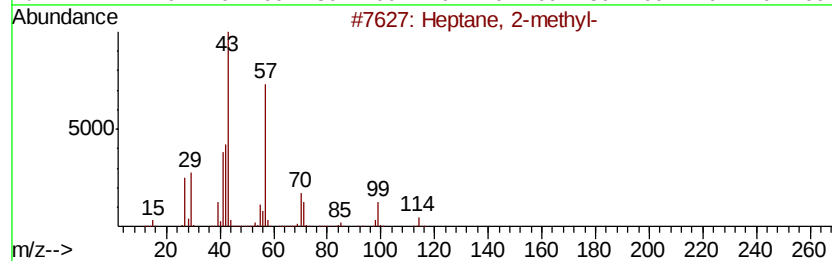
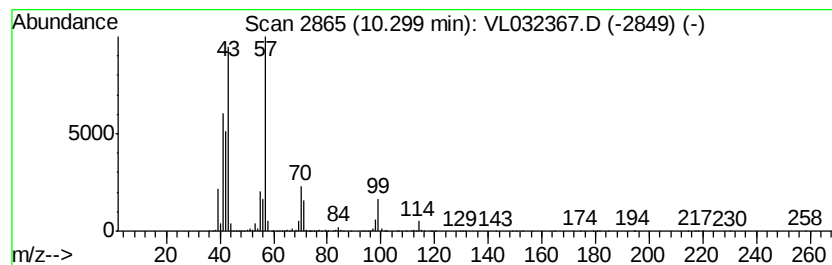
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ClientSampleId :
SG06-MIVI

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 2 Heptane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.30	40.94 ppbv	87958600	Chlorobenzene-d5	12.33
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Heptane, 2-methyl-	114 C8H18	000592-27-8	91
2	Heptane, 2-methyl-	114 C8H18	000592-27-8	91
3	Heptane, 2-methyl-	114 C8H18	000592-27-8	91
4	Hexane, 2,5-dimethyl-	114 C8H18	000592-13-2	58
5	Heptane, 2,3,6-trimethyl-	142 C10H22	004032-93-3	47



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

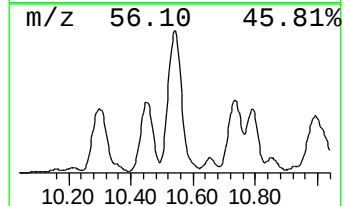
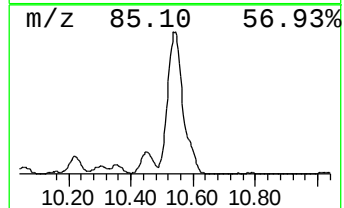
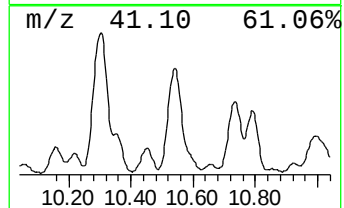
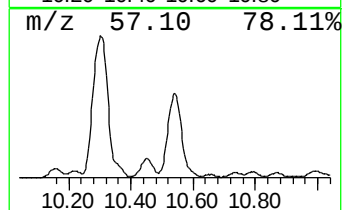
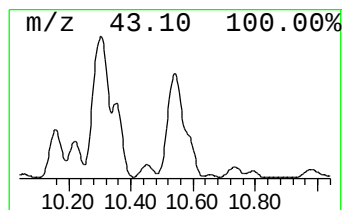
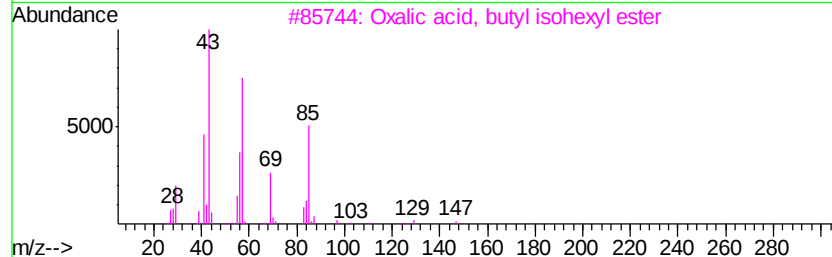
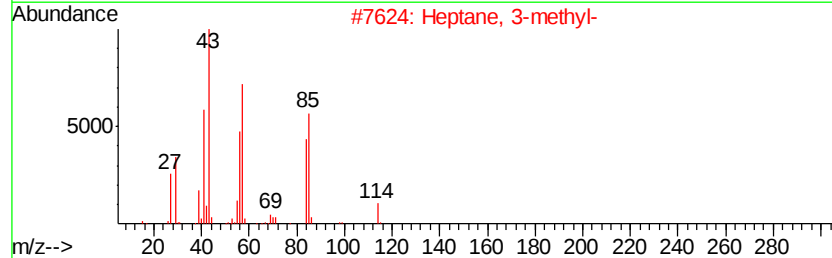
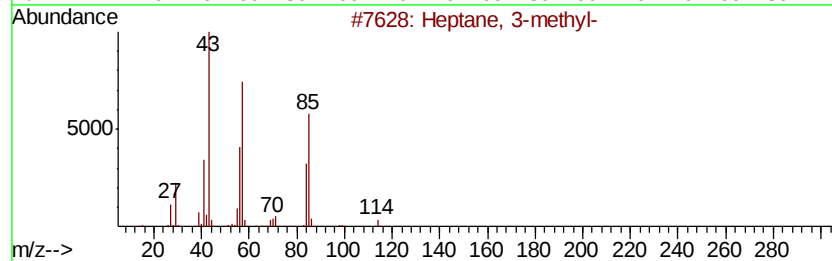
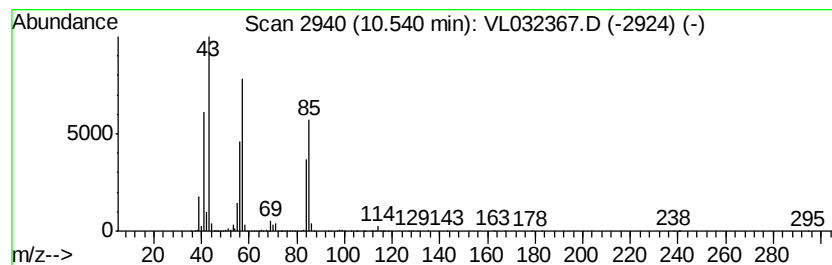
Instrument :
MSVOA_L
ClientSampled :
SG06-MIVI

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 3 Heptane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.54	30.52 ppbv	65576400	Chlorobenzene-d5	12.33
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Heptane, 3-methyl-	114 C8H18	000589-81-1	91
2	Heptane, 3-methyl-	114 C8H18	000589-81-1	90
3	Oxalic acid, butyl isohexyl ester	230 C12H22O4	1000309-32-7	78
4	Hexane, 1,1'-oxybis-	186 C12H26O	000112-58-3	64
5	Hexane, 2,4-dimethyl-	114 C8H18	000589-43-5	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

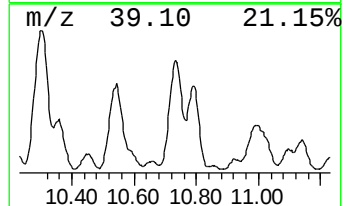
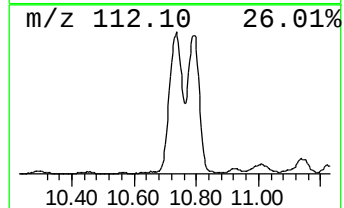
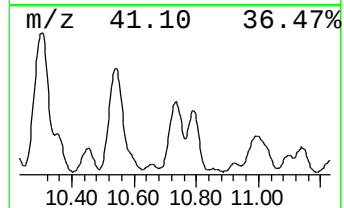
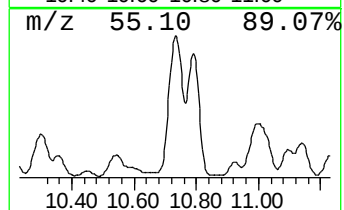
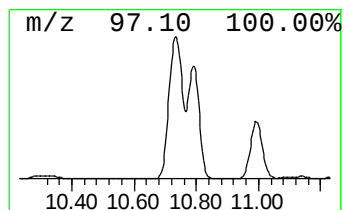
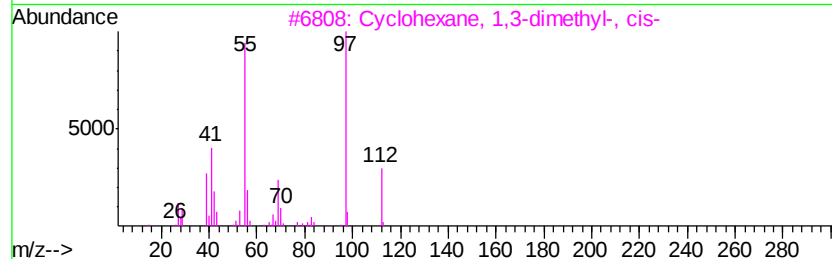
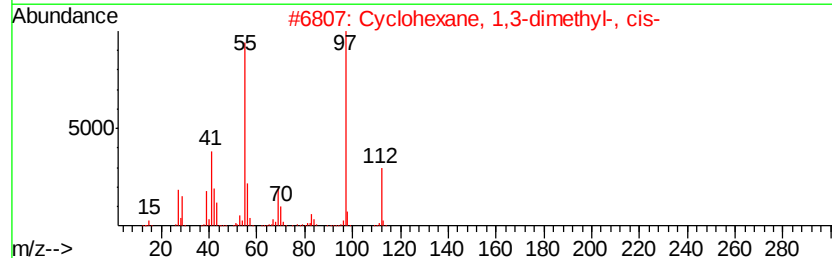
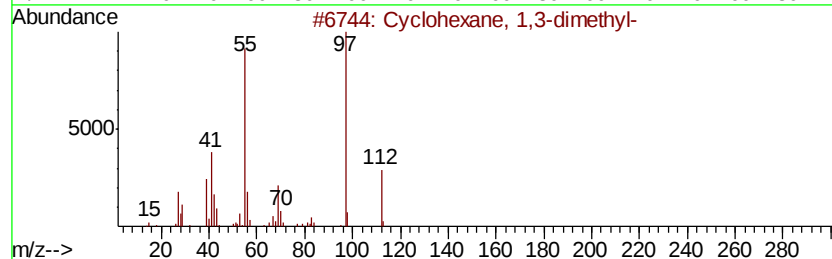
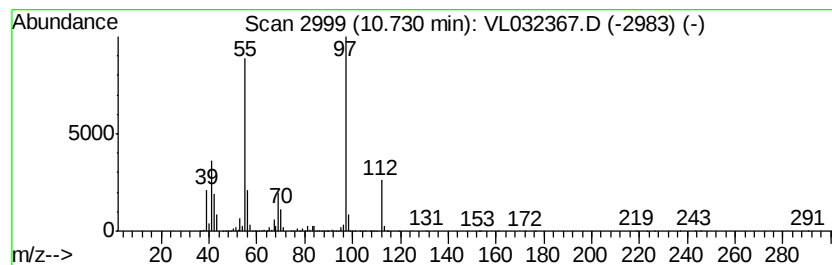
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MSVOA_L
ClientSampleId :
SG06-MIVI

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 4 Cyclohexane, 1,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.73	25.82 ppbv	55476300	Chlorobenzene-d5	12.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cvclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	94
2	Cvclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
3	Cvclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
4	Cvclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
5	Cvclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVI

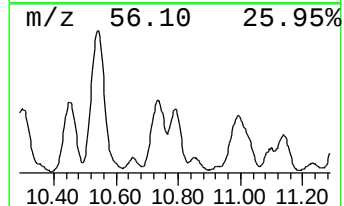
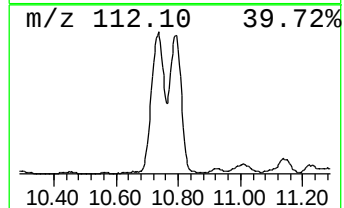
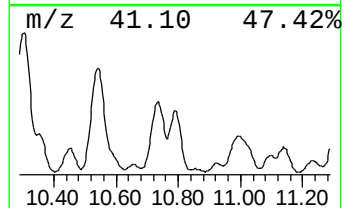
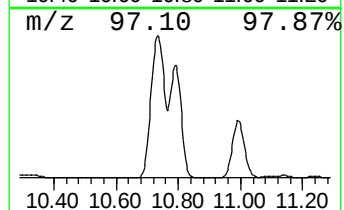
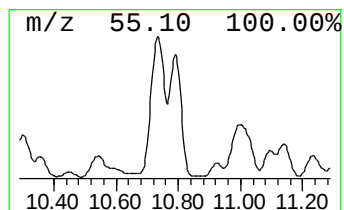
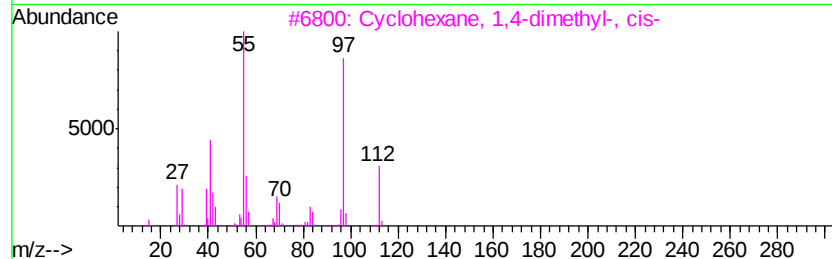
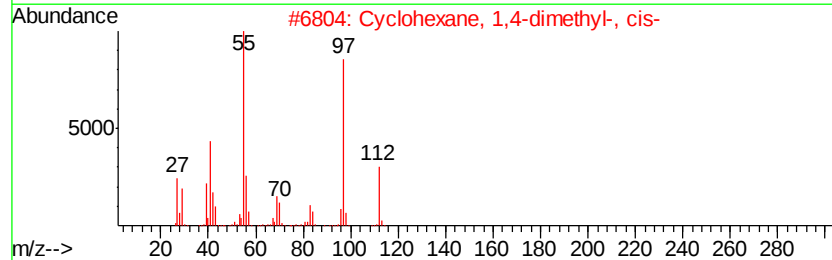
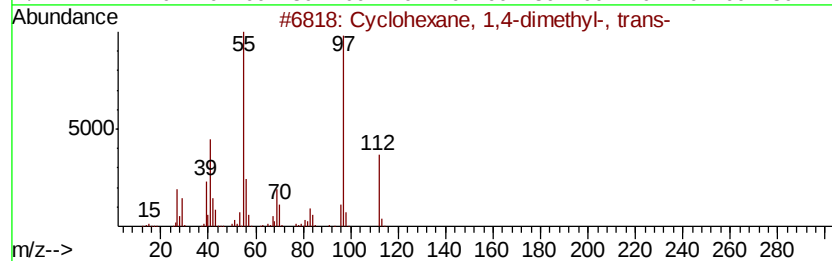
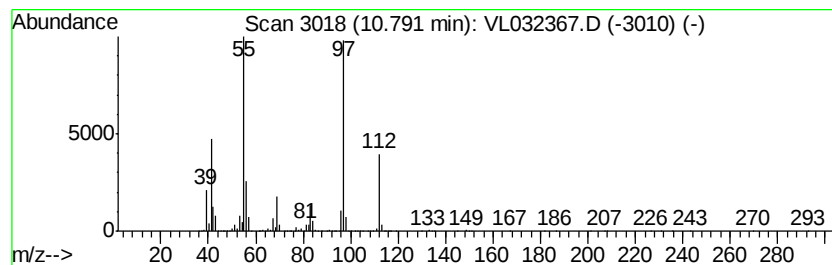
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 5 Cyclohexane, 1,4-dimethyl-,... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	17.90 ppbv	38458800	Chlorobenzene-d5	12.33

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	94
2		Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
3		Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
4		Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91
5		Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	90



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVI

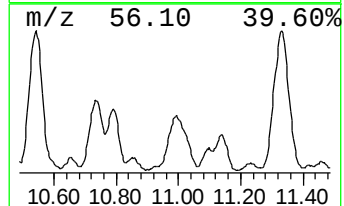
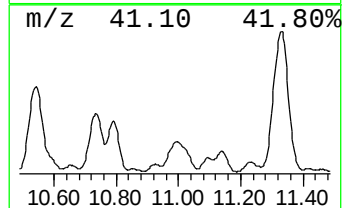
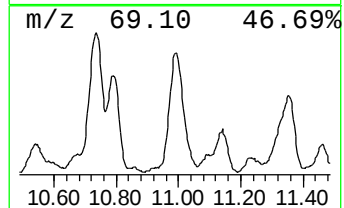
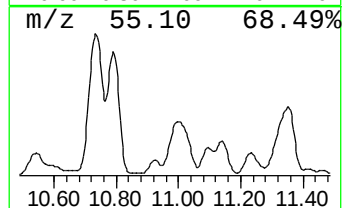
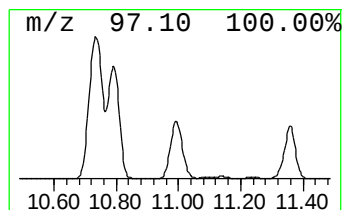
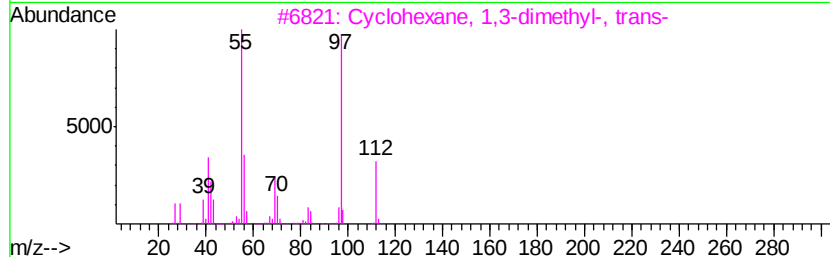
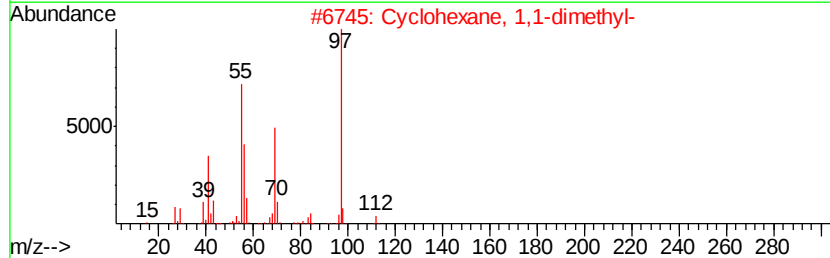
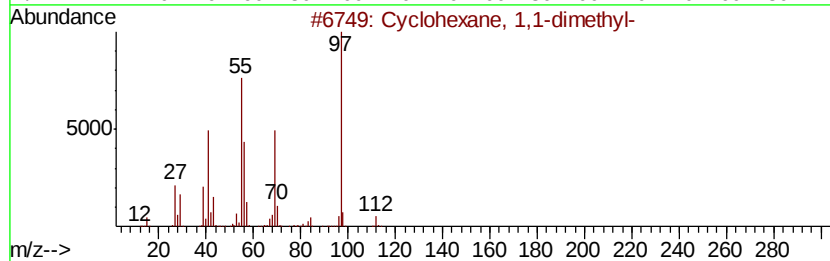
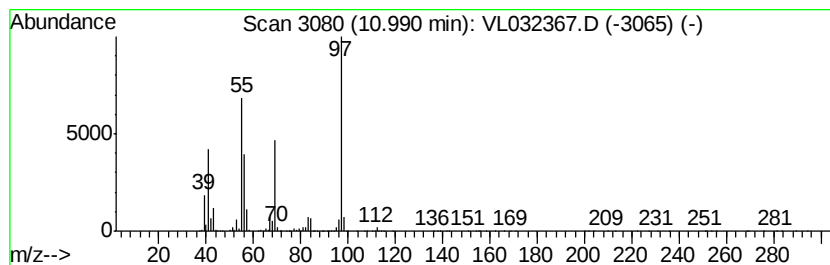
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 6 Cyclohexane, 1,1-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	15.24 ppbv	32750700	Chlorobenzene-d5	12.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	83
2		Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	83
3		Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	64
4		Oxalic acid, cyclohexylmethyl is...	270	C15H26O4	1000309-68-3	59
5		Cyclohexane, 1-bromo-3-methyl-	176	C7H13Br	013905-48-1	50



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

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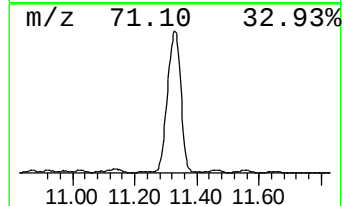
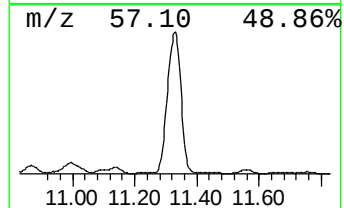
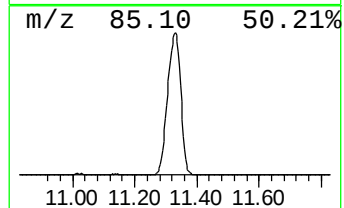
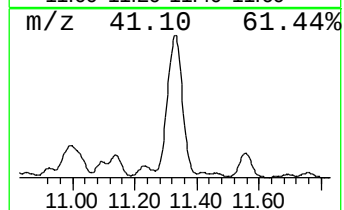
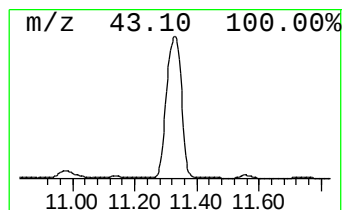
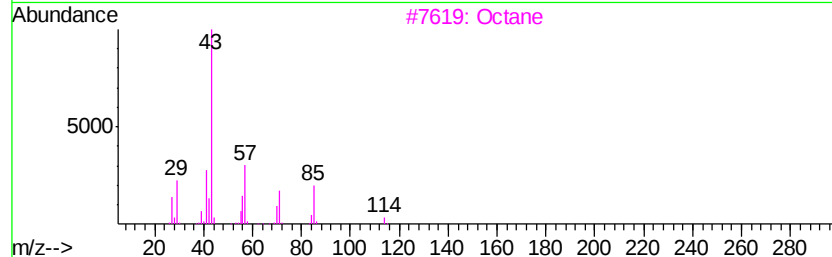
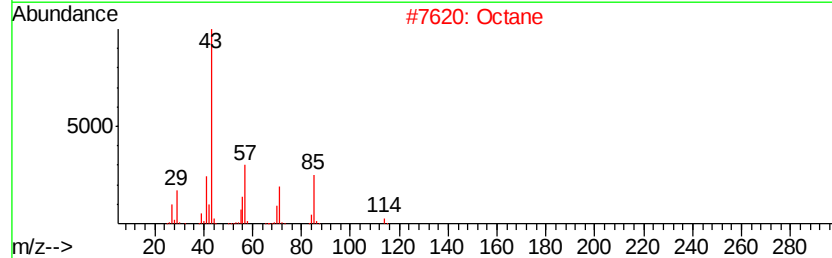
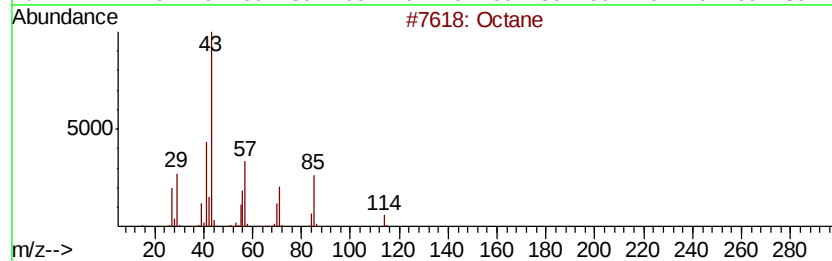
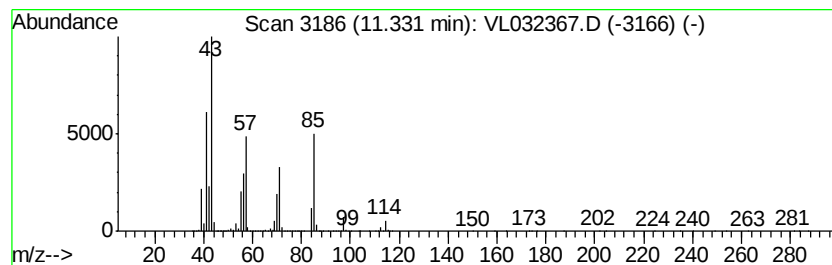
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 7 Octane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.33	49.42 ppbv	106180000	Chlorobenzene-d5	12.33

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane		114	C8H18	000111-65-9	90
2	Octane		114	C8H18	000111-65-9	87
3	Octane		114	C8H18	000111-65-9	72
4	Heptane, 2,4-dimethyl-		128	C9H20	002213-23-2	64
5	Decane, 5,6-dimethyl-		170	C12H26	001636-43-7	59



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

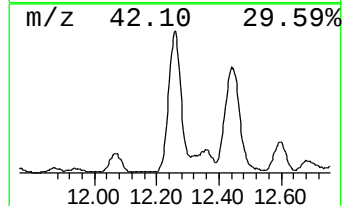
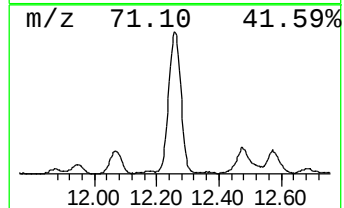
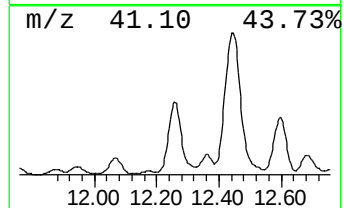
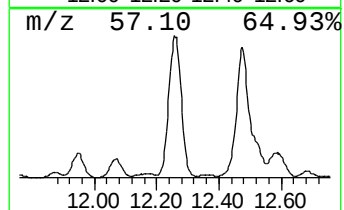
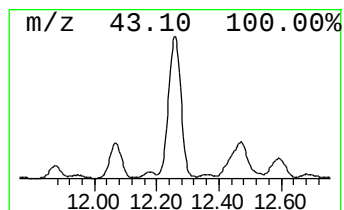
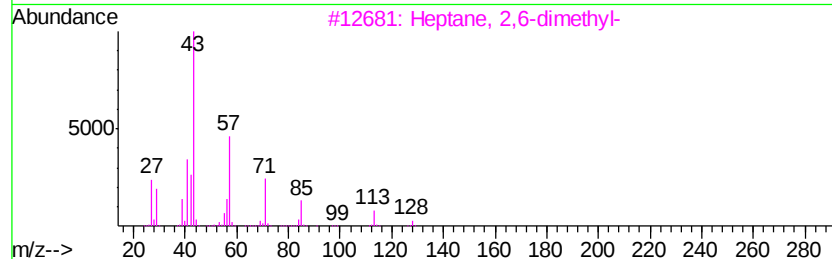
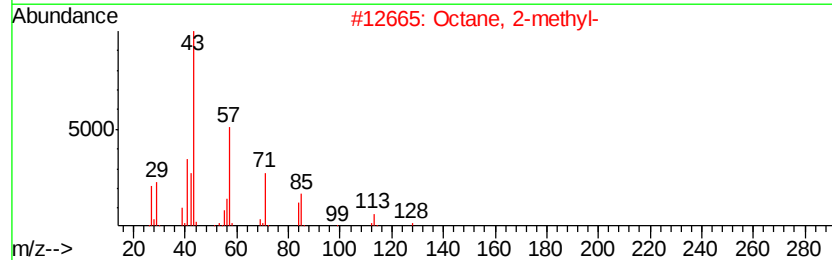
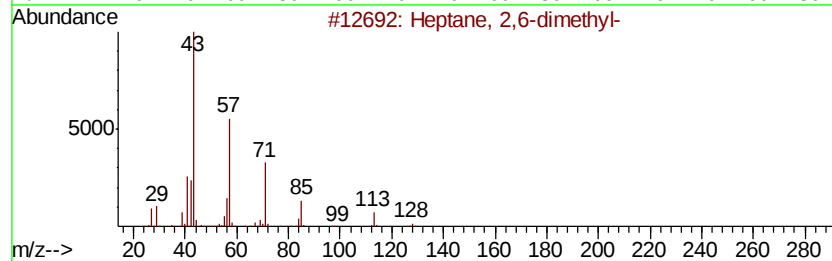
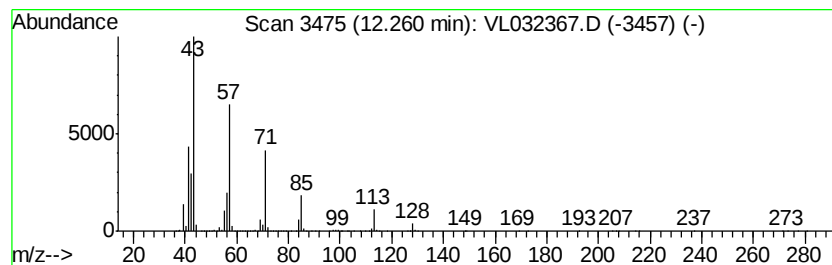
Instrument :
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ClientSampleId :
SG06-MIVI

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

Peak Number 8 Heptane, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	17.93 ppbv	38517100	Chlorobenzene-d5	12.33
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Heptane, 2,6-dimethyl-	128 C9H20	001072-05-5	91
2	Octane, 2-methyl-	128 C9H20	003221-61-2	91
3	Heptane, 2,6-dimethyl-	128 C9H20	001072-05-5	87
4	Octane, 2-methyl-	128 C9H20	003221-61-2	81
5	Octane, 2-methyl-	128 C9H20	003221-61-2	53



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

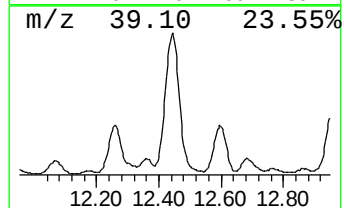
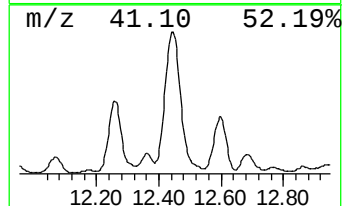
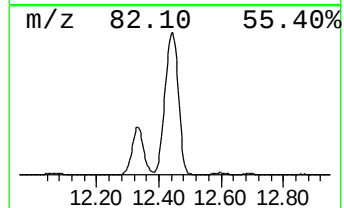
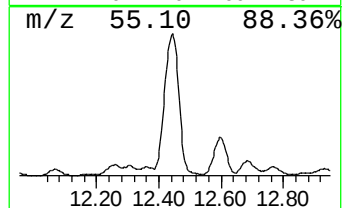
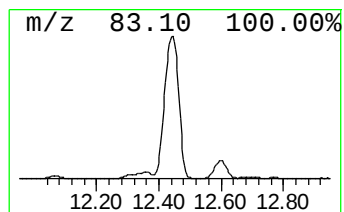
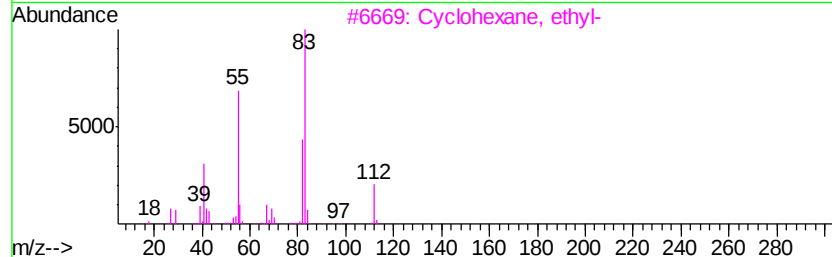
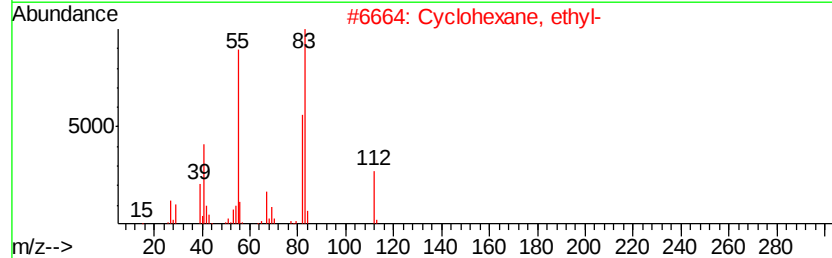
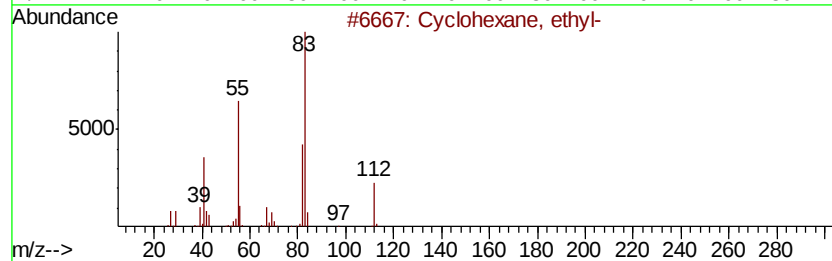
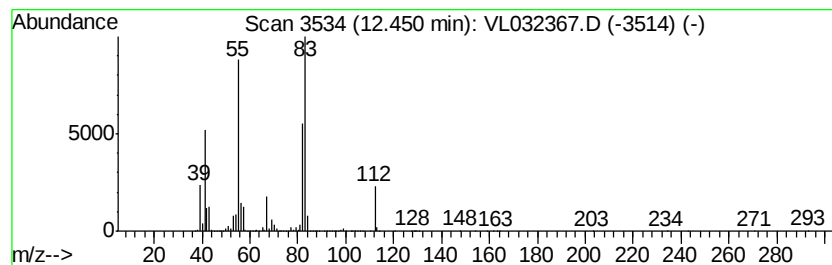
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MSVOA_L
ClientSampleId :
SG06-MIVI

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 9 Cyclohexane, ethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	44.96 ppbv	96600100	Chlorobenzene-d5	12.33
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Cyclohexane, ethyl-	112 C8H16	001678-91-7 91
2		Cyclohexane, ethyl-	112 C8H16	001678-91-7 91
3		Cyclohexane, ethyl-	112 C8H16	001678-91-7 91
4		Cyclohexane, ethyl-	112 C8H16	001678-91-7 91
5		Cyclohexane, ethyl-	112 C8H16	001678-91-7 90



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
SG06-MIVI

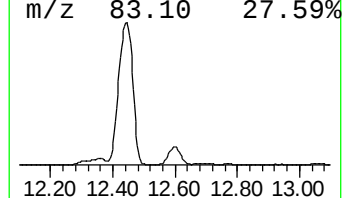
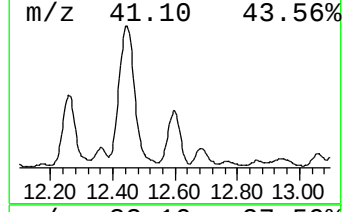
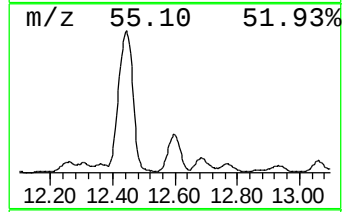
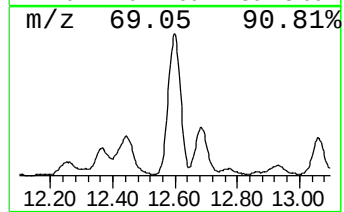
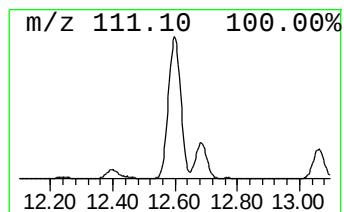
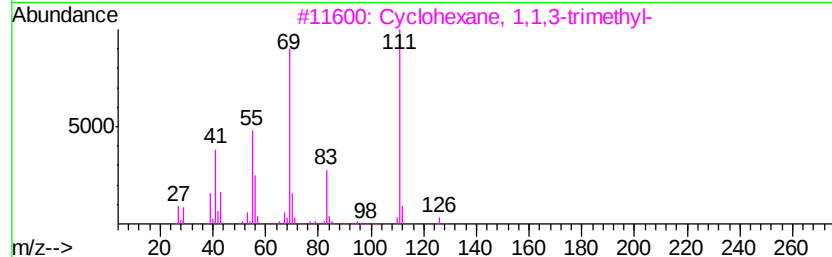
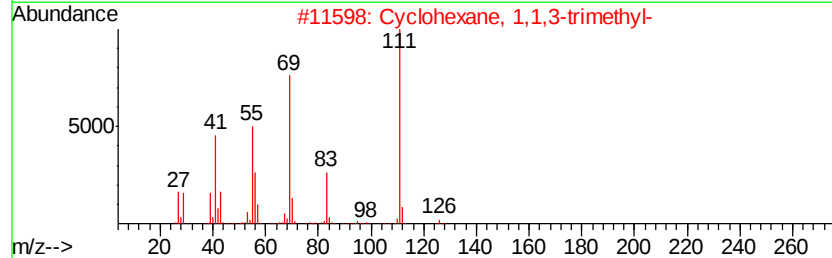
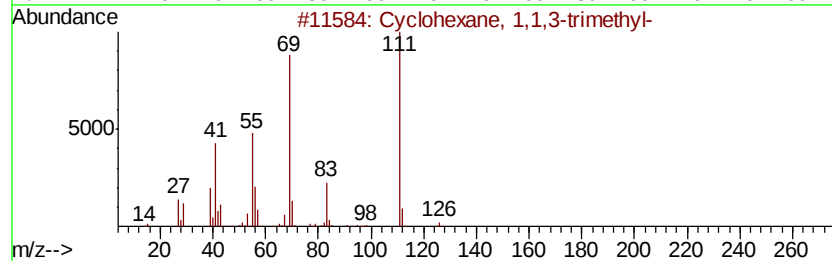
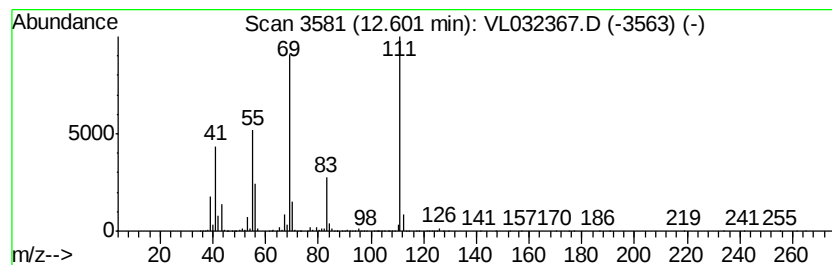
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 10 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	15.78 ppbv	33908600	Chlorobenzene-d5	12.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
2		Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3		Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
4		Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	86
5		Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

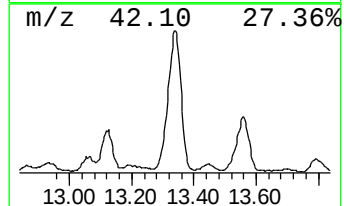
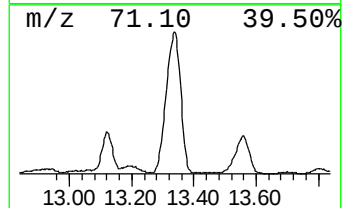
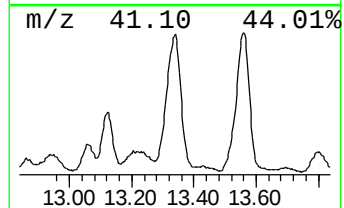
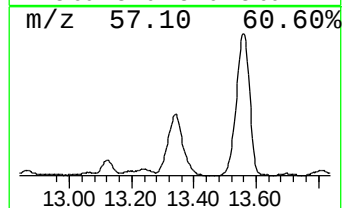
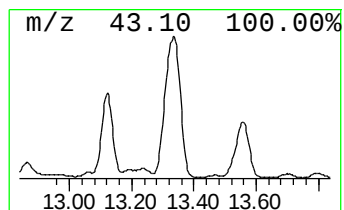
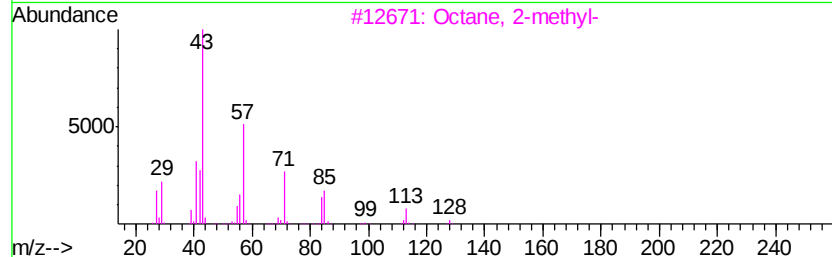
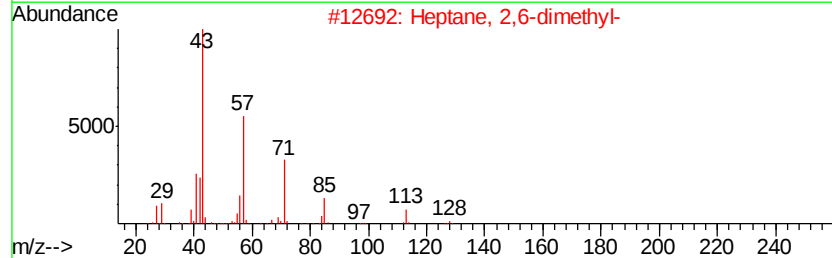
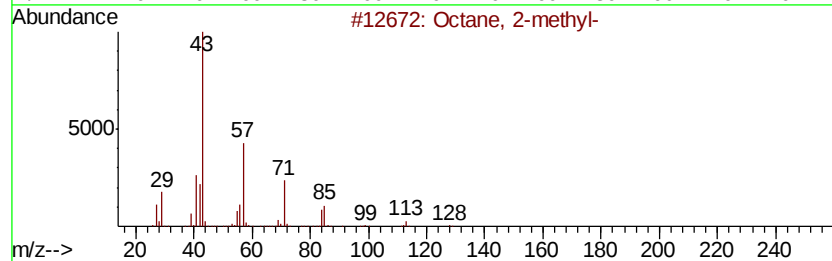
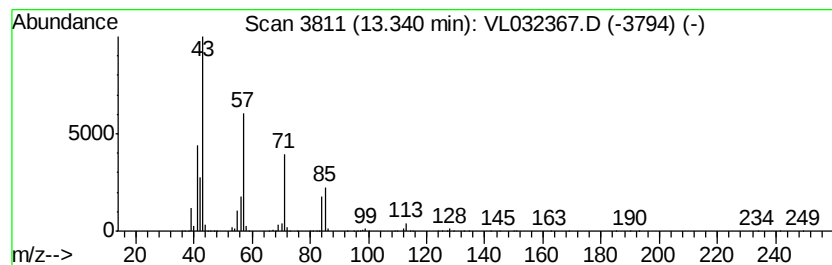
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ClientSampleId :
SG06-MIVI

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 11 Octane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	18.56 ppbv	39876500	Chlorobenzene-d5	12.33
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Octane, 2-methyl-	128 C9H20	003221-61-2	91
2	Heptane, 2,6-dimethyl-	128 C9H20	001072-05-5	86
3	Octane, 2-methyl-	128 C9H20	003221-61-2	78
4	Undecane, 5-methyl-	170 C12H26	001632-70-8	72
5	Undecane, 5-methyl-	170 C12H26	001632-70-8	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032367.D
 Acq On : 16 Aug 2018 1:51
 Operator : SY/AP
 Sample : J4457-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-MIVI

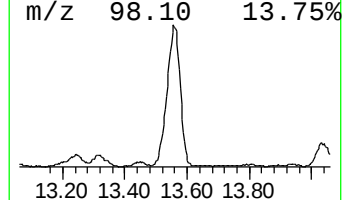
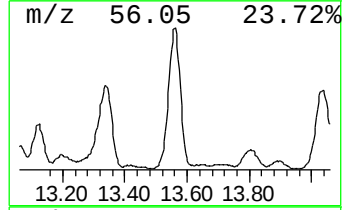
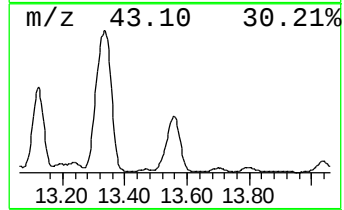
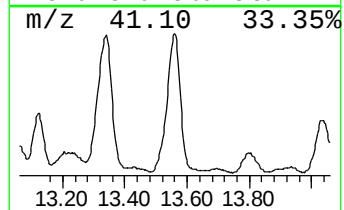
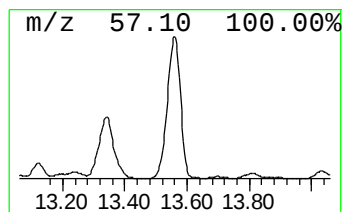
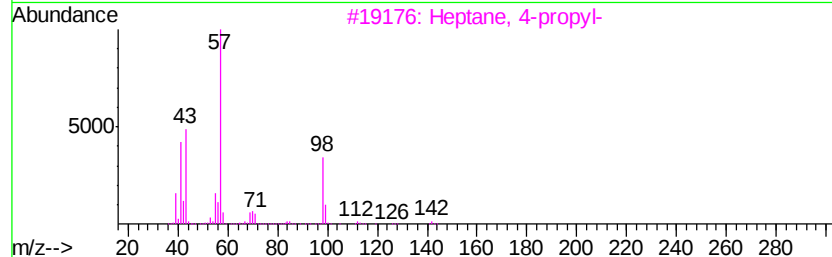
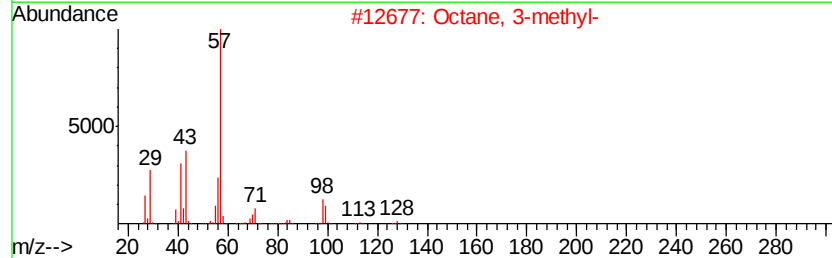
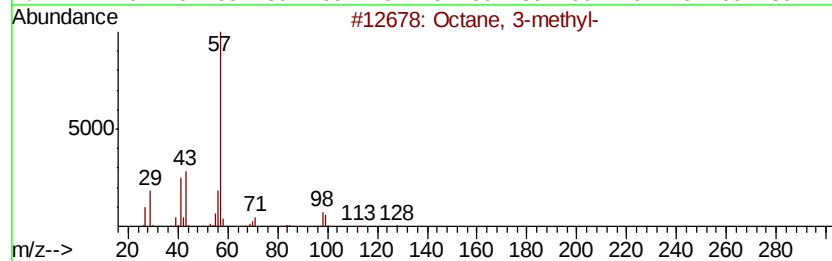
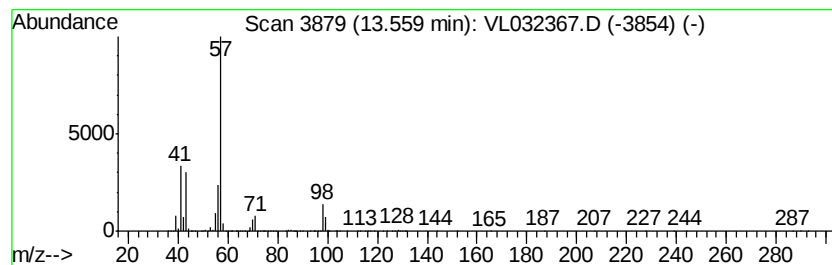
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

 Peak Number 12 Octane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.56	16.59 ppbv	35656700	Chlorobenzene-d5	12.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octane, 3-methyl-	128	C9H20	002216-33-3	91
2		Octane, 3-methyl-	128	C9H20	002216-33-3	64
3		Heptane, 4-propyl-	142	C10H22	003178-29-8	59
4		Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	58
5		Octane, 3-methyl-	128	C9H20	002216-33-3	50



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVI

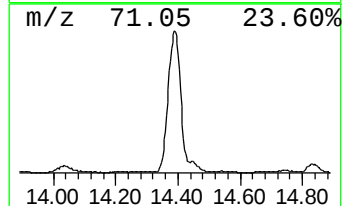
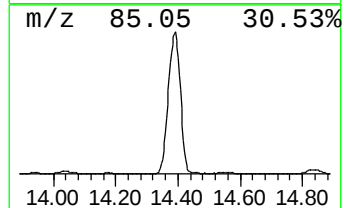
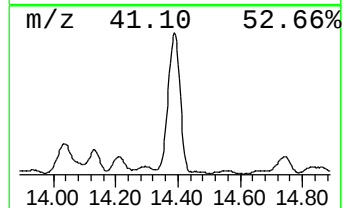
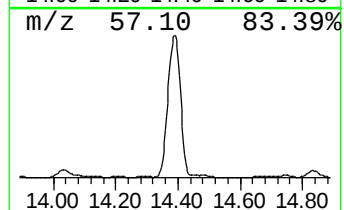
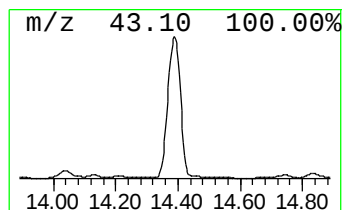
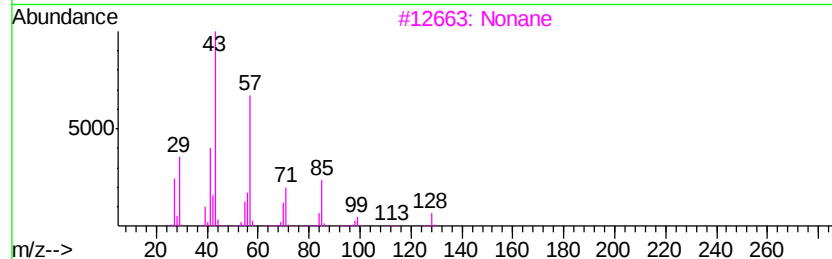
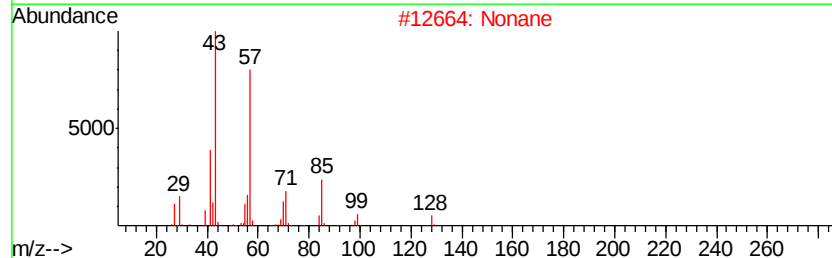
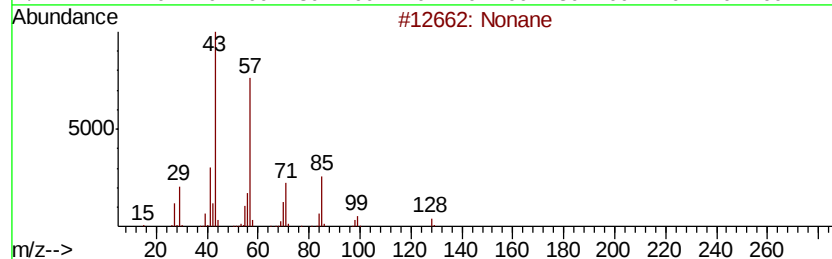
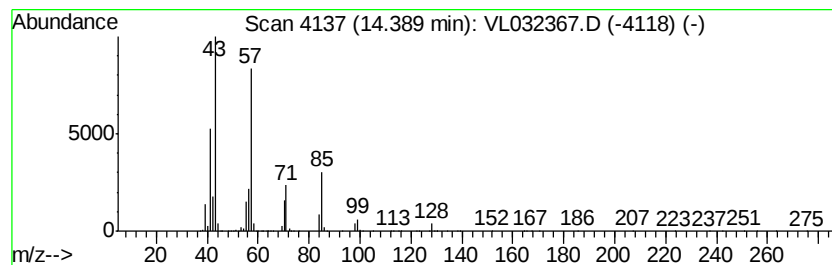
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 13 Nonane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.39	25.05 ppbv	53830700	Chlorobenzene-d5	12.33

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane		128	C9H20	000111-84-2	94
2	Nonane		128	C9H20	000111-84-2	91
3	Nonane		128	C9H20	000111-84-2	90
4	Octane, 4-methyl-		128	C9H20	002216-34-4	64
5	Decane		142	C10H22	000124-18-5	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVI

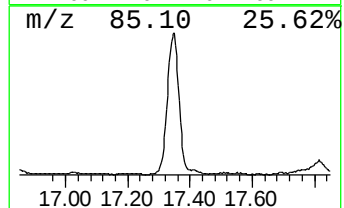
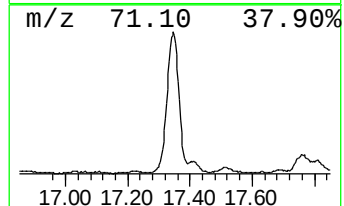
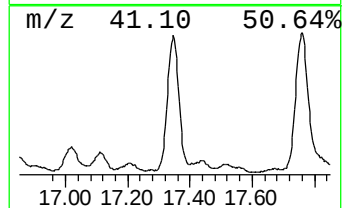
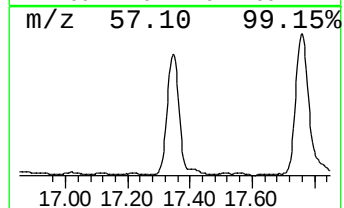
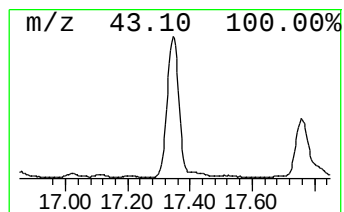
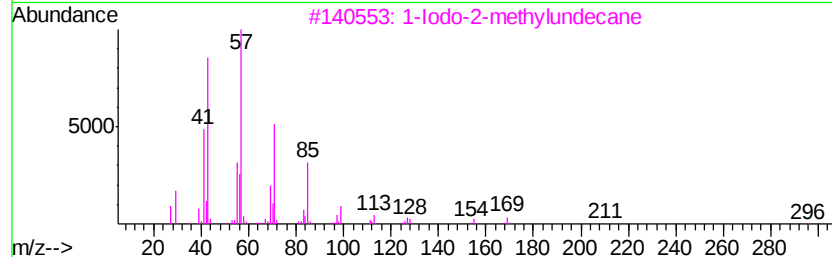
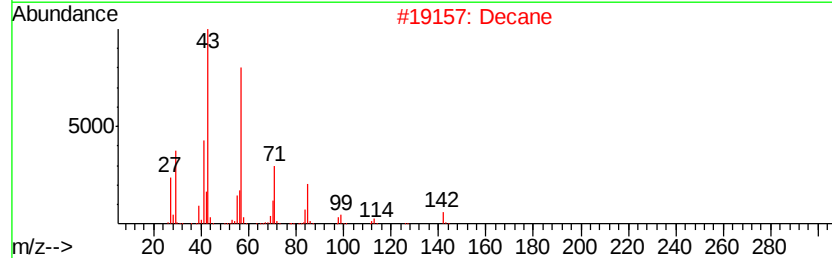
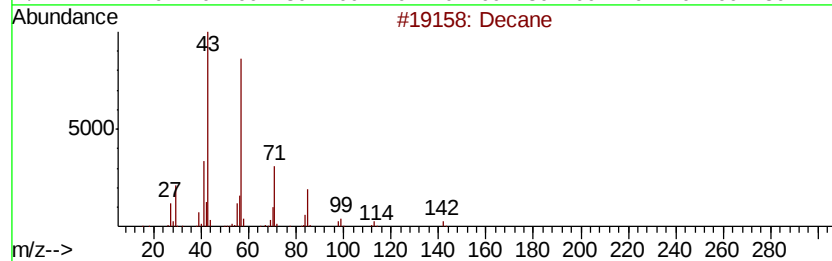
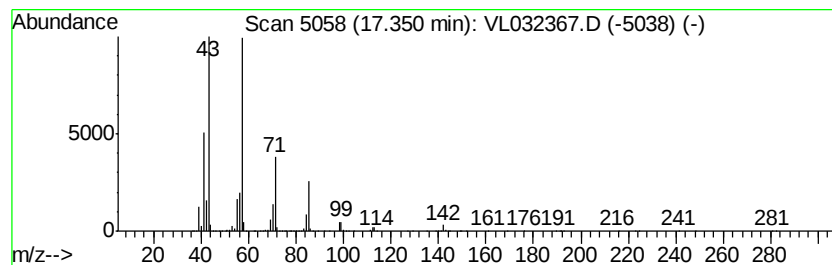
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 14 Decane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.35	14.89 ppbv	31997400	Chlorobenzene-d5	12.33

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane		142	C10H22	000124-18-5	95
2	Decane		142	C10H22	000124-18-5	90
3	1-Iodo-2-methylundecane		296	C12H25I	073105-67-6	83
4	Nonane		128	C9H20	000111-84-2	80
5	Decane		142	C10H22	000124-18-5	72



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032367.D
Acq On : 16 Aug 2018 1:51
Operator : SY/AP
Sample : J4457-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

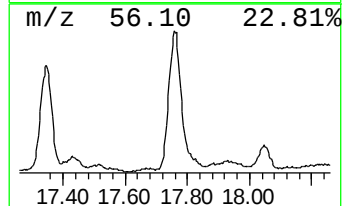
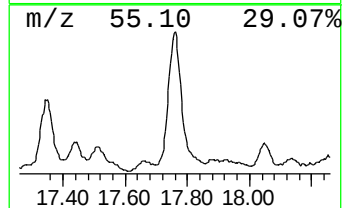
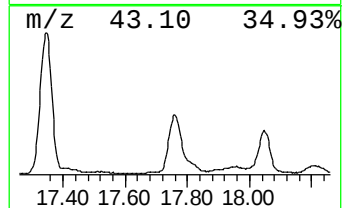
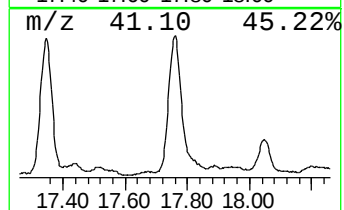
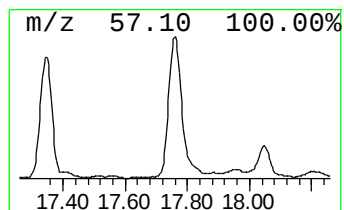
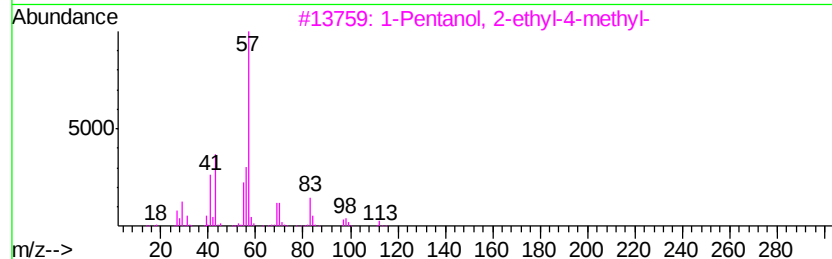
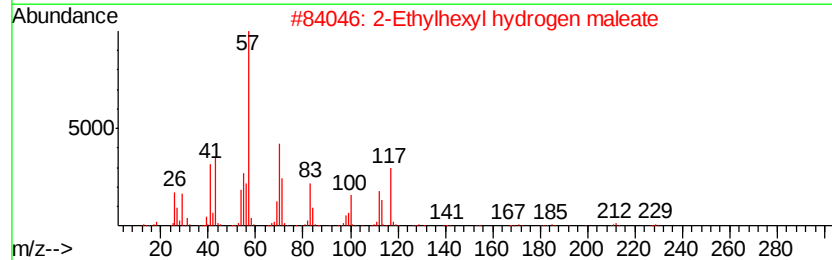
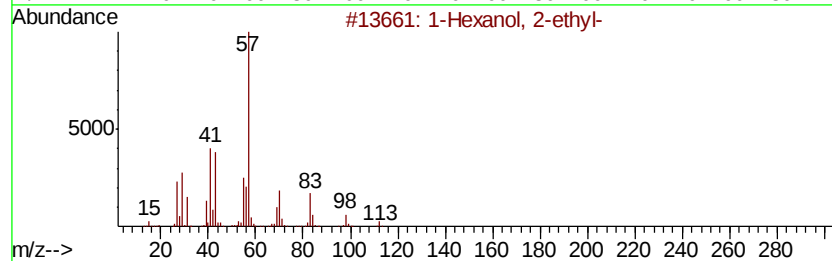
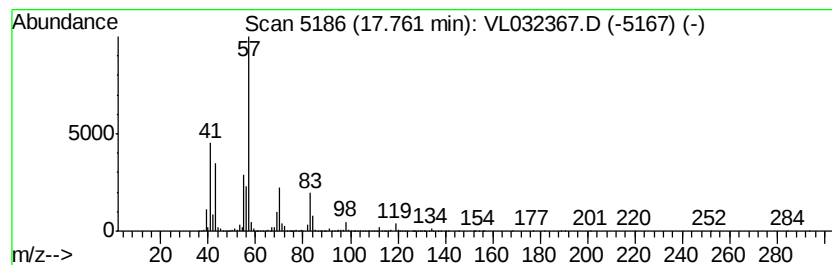
Instrument :
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ClientSampleId :
SG06-MIVI

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 1-Hexanol, 2-ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.76	16.01 ppbv	34397700	Chlorobenzene-d5	12.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	64
2	2-Ethylhexyl hydrogen maleate	228	C12H20O4	002370-71-0	59
3	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	56
4	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	56
5	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	56



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081518\
 Data File : VL032367.D
 Acq On : 16 Aug 2018 1:51
 Operator : SY/AP
 Sample : J4457-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-MIVI

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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
Cyclohexane, methyl-	9.09	15.2	ppbv	331710000	2	7.39	217860000	10.0
Heptane, 2-methyl-	10.30	40.9	ppbv	87958600	3	12.33	21487400	10.0
Heptane, 3-methyl-	10.54	30.5	ppbv	65576400	3	12.33	21487400	10.0
Cyclohexane, 1,3-...	10.73	25.8	ppbv	55476300	3	12.33	21487400	10.0
Cyclohexane, 1,4-...	10.79	17.9	ppbv	38458800	3	12.33	21487400	10.0
Cyclohexane, 1,1-...	10.99	15.2	ppbv	32750700	3	12.33	21487400	10.0
Octane	11.33	49.4	ppbv	106180000	3	12.33	21487400	10.0
Heptane, 2,6-dime...	12.26	17.9	ppbv	38517100	3	12.33	21487400	10.0
Cyclohexane, ethyl-	12.45	45.0	ppbv	96600100	3	12.33	21487400	10.0
Cyclohexane, 1,1,...	12.60	15.8	ppbv	33908600	3	12.33	21487400	10.0
Octane, 2-methyl-	13.34	18.6	ppbv	39876500	3	12.33	21487400	10.0
Octane, 3-methyl-	13.56	16.6	ppbv	35656700	3	12.33	21487400	10.0
Nonane	14.39	25.1	ppbv	53830700	3	12.33	21487400	10.0
Decane	17.35	14.9	ppbv	31997400	3	12.33	21487400	10.0
1-Hexanol, 2-ethyl-	17.76	16.0	ppbv	34397700	3	12.33	21487400	10.0