

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032492.D
 Acq On : 11 Sep 2018 00:02
 Operator : SY/AP
 Sample : J4820-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

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\VL083118AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.062	28	39	55	rBV2	12646529	20318457	12.89%	1.094%
2	3.265	90	102	125	rBV	17241910	35025062	22.23%	1.886%
3	3.374	125	136	145	rVV	17640340	29354186	18.63%	1.581%
4	3.422	145	151	161	rVV	8631234	12738399	8.08%	0.686%
5	3.477	161	168	184	rVV	2198091	3355903	2.13%	0.181%
6	3.959	302	318	337	rBV2	14657445	36146312	22.94%	1.946%
7	4.101	350	362	377	rBV	12591619	20635679	13.10%	1.111%
8	4.226	391	401	413	rVB	7178526	11187932	7.10%	0.602%
9	4.307	413	426	438	rVB2	1079652	1918644	1.22%	0.103%
10	4.471	467	477	488	rBV3	1651274	2772602	1.76%	0.149%
11	4.702	540	549	566	rVB4	1662416	3311637	2.10%	0.178%
12	5.181	683	698	705	rBV	7266330	13893722	8.82%	0.748%
13	5.233	705	714	726	rVV	13502003	26453954	16.79%	1.425%
14	5.303	726	736	746	rVV	4011194	8445249	5.36%	0.455%
15	5.393	746	764	785	rVV2	22155853	68007332	43.16%	3.662%
16	5.503	785	798	812	rVV	11215968	23217730	14.73%	1.250%
17	5.602	815	829	842	rVB	3281295	6733373	4.27%	0.363%
18	5.824	881	898	914	rBV5	8055267	17237804	10.94%	0.928%
19	5.914	914	926	936	rVV2	3163277	6241341	3.96%	0.336%
20	6.056	957	970	984	rBV4	1030470	2167202	1.38%	0.117%
21	6.262	1021	1034	1051	rVB	1231957	2437759	1.55%	0.131%
22	6.368	1051	1067	1084	rVV2	1232332	2792010	1.77%	0.150%
23	6.474	1084	1100	1134	rVB2	9920932	26857983	17.04%	1.446%
24	6.895	1211	1231	1244	rBV2	1775624	3812464	2.42%	0.205%
25	6.995	1244	1262	1271	rVV9	845883	2685407	1.70%	0.145%
26	7.062	1271	1283	1297	rVV	5332700	11385872	7.23%	0.613%
27	7.149	1297	1310	1320	rVV	1301470	3097650	1.97%	0.167%
28	7.297	1341	1356	1364	rBV	4226485	9087093	5.77%	0.489%
29	7.355	1364	1374	1383	rVV3	5623663	12853201	8.16%	0.692%
30	7.419	1383	1394	1406	rVV	9222428	20632845	13.09%	1.111%
31	7.499	1406	1419	1441	rVV2	8168222	18606711	11.81%	1.002%
32	7.654	1441	1467	1490	rVV4	18409978	51097207	32.43%	2.752%
33	7.888	1524	1540	1550	rBV	5307563	12177038	7.73%	0.656%
34	7.969	1550	1565	1577	rVV5	6591478	21812609	13.84%	1.175%

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Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

35	8.043	1577	1588	1609	rVV2	6988043	16991808	10.78%	0.915%
36	8.300	1655	1668	1680	rVV2	4888202	11433026	7.26%	0.616%
37	8.368	1680	1689	1701	rVV4	2093395	5234240	3.32%	0.282%
38	8.499	1717	1730	1743	rVV2	2270178	4974852	3.16%	0.268%
39	8.667	1764	1782	1789	rVV4	1249823	3520773	2.23%	0.190%
40	8.705	1789	1794	1809	rVB2	957182	1877612	1.19%	0.101%
41	8.962	1854	1874	1877	rBV4	3419594	7008036	4.45%	0.377%
42	9.007	1877	1888	1915	rVB	7697472	21388015	13.57%	1.152%
43	9.229	1945	1957	1968	rBV3	2795248	5855112	3.72%	0.315%
44	9.306	1968	1981	2004	rVB3	6434614	16798694	10.66%	0.905%
45	9.544	2039	2055	2073	rBV4	4246243	10929395	6.94%	0.589%
46	9.760	2097	2122	2132	rBV5	1820121	6094830	3.87%	0.328%
47	9.831	2132	2144	2158	rBV6	2347083	5364881	3.40%	0.289%
48	10.001	2178	2197	2216	rBV3	6106512	15440165	9.80%	0.831%
49	10.107	2216	2230	2244	rBV4	3897869	11040866	7.01%	0.595%
50	10.162	2244	2247	2258	rVB6	1212256	1993031	1.26%	0.107%
51	10.245	2258	2273	2282	rBV3	5878242	14571277	9.25%	0.785%
52	10.319	2282	2296	2311	rVB3	19376893	52841948	33.53%	2.846%
53	10.400	2311	2321	2333	rVB3	1695026	3848204	2.44%	0.207%
54	10.490	2333	2349	2358	rBV3	7428623	18729781	11.89%	1.009%
55	10.538	2358	2364	2376	rVV5	2581698	5396932	3.42%	0.291%
56	10.612	2376	2387	2398	rVB2	5311371	10738676	6.81%	0.578%
57	10.686	2398	2410	2421	rBV3	4666823	10653076	6.76%	0.574%
58	10.737	2421	2426	2440	rVB2	1900186	3780522	2.40%	0.204%
59	10.824	2440	2453	2458	rBV3	1335112	2876822	1.83%	0.155%
60	10.879	2458	2470	2480	rBV	4658488	9561976	6.07%	0.515%
61	10.975	2492	2500	2512	rVB3	2470788	5401368	3.43%	0.291%
62	11.046	2512	2522	2529	rBV3	1277204	2554545	1.62%	0.138%
63	11.094	2529	2537	2547	rVB4	1148789	2313667	1.47%	0.125%
64	11.181	2555	2564	2573	rVB3	1144021	2011761	1.28%	0.108%
65	11.281	2583	2595	2613	rVB4	3225769	9819472	6.23%	0.529%
66	11.367	2613	2622	2645	rVB6	1533070	3815124	2.42%	0.205%
67	11.509	2645	2666	2675	rBV3	4801593	12750382	8.09%	0.687%
68	11.554	2675	2680	2695	rVB2	2893945	5567139	3.53%	0.300%
69	11.711	2715	2729	2746	rVB7	1255259	3564072	2.26%	0.192%
70	11.875	2752	2780	2802	rBV2	3620034	13263651	8.42%	0.714%
71	12.023	2802	2826	2844	rBV4	3122945	9478544	6.01%	0.510%

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72	12.213	2870	2885	2894	rBV3	1952931	5202111	3.30%	0.280%
73	12.293	2894	2910	2928	rVV	5617720	15475114	9.82%	0.833%
74	12.425	2928	2951	2977	rVB8	3182683	14903105	9.46%	0.803%
75	12.551	2977	2990	3002	rBV6	2095109	4861970	3.09%	0.262%
76	12.663	3002	3025	3037	rBV6	1866551	6767476	4.29%	0.364%
77	12.801	3037	3068	3091	rBV10	3068237	13669174	8.67%	0.736%
78	12.924	3091	3106	3121	rVB3	9732580	25277015	16.04%	1.361%
79	13.014	3121	3134	3146	rBV6	2394541	5689152	3.61%	0.306%
80	13.084	3146	3156	3163	rBV4	1257800	2944336	1.87%	0.159%
81	13.174	3170	3184	3204	rVB5	3952791	13987938	8.88%	0.753%
82	13.284	3204	3218	3231	rBV6	3260181	10085723	6.40%	0.543%
83	13.338	3231	3235	3256	rVB3	1076005	2551130	1.62%	0.137%
84	13.518	3270	3291	3308	rVB5	3540757	12477569	7.92%	0.672%
85	13.750	3344	3363	3387	rBV9	3919641	14155820	8.98%	0.762%
86	13.895	3387	3408	3421	rVV7	2110207	6213990	3.94%	0.335%
87	14.004	3423	3442	3467	rVV5	4098065	16257361	10.32%	0.875%
88	14.165	3480	3492	3507	rBV6	645644	1575878	1.00%	0.085%
89	14.348	3538	3549	3562	rBV2	2121012	4706118	2.99%	0.253%
90	14.531	3588	3606	3620	rVB2	508301	1961538	1.24%	0.106%
91	14.628	3620	3636	3648	rBV	5122683	12736752	8.08%	0.686%
92	14.695	3648	3657	3674	rVB4	1481557	4177895	2.65%	0.225%
93	14.795	3674	3688	3702	rBV7	911939	2706945	1.72%	0.146%
94	14.875	3702	3713	3723	rVV3	1685678	3947664	2.51%	0.213%
95	14.936	3723	3732	3749	rVB8	896446	2451468	1.56%	0.132%
96	15.097	3758	3782	3791	rBV4	1459465	4295579	2.73%	0.231%
97	15.194	3806	3812	3827	rVB8	1010557	2433723	1.54%	0.131%
98	15.371	3848	3867	3879	rVV7	1712888	6641607	4.21%	0.358%
99	15.438	3879	3888	3900	rVV4	1647700	5399306	3.43%	0.291%
100	15.522	3900	3914	3933	rVV6	2762388	9883310	6.27%	0.532%
101	15.637	3933	3950	3956	rVV6	696640	2517386	1.60%	0.136%
102	15.708	3956	3972	3984	rVV6	2203851	6958493	4.42%	0.375%
103	15.776	3984	3993	4012	rVB6	1150093	3484103	2.21%	0.188%
104	15.975	4032	4055	4070	rBV9	2228608	8309910	5.27%	0.447%
105	16.065	4070	4083	4104	rVB5	2251686	7727741	4.90%	0.416%
106	16.219	4104	4131	4134	rBV5	1924870	5656920	3.59%	0.305%
107	16.232	4134	4135	4148	rVV3	1462223	2962673	1.88%	0.160%
108	16.325	4148	4164	4170	rVV9	1425597	4951366	3.14%	0.267%
109	16.370	4170	4178	4192	rVB4	1926217	4800396	3.05%	0.258%

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110	16.483	4192	4213	4217	rBV4	1651272	4328751	2.75%	0.233%
111	16.538	4217	4230	4246	rVB7	2087808	6829230	4.33%	0.368%
112	16.833	4290	4322	4350	rBV9	2757189	12103241	7.68%	0.652%
113	16.981	4350	4368	4395	rVV5	2396171	7975932	5.06%	0.429%
114	17.187	4413	4432	4453	rVB	9985916	31074300	19.72%	1.673%
115	17.525	4523	4537	4563	rVB5	2205169	7868007	4.99%	0.424%
116	17.740	4585	4604	4624	rBV	8538882	24885900	15.79%	1.340%
117	18.004	4672	4686	4693	rBV2	1115020	2777909	1.76%	0.150%
118	18.071	4693	4707	4725	rVV4	2239936	7199077	4.57%	0.388%
119	18.174	4725	4739	4754	rVV7	3183715	10025869	6.36%	0.540%
120	18.248	4754	4762	4784	rVB2	2586047	7444820	4.72%	0.401%
121	18.438	4784	4821	4850	rBV3	35233724	157583343	100.00%	8.486%
122	18.583	4850	4866	4877	rBV	4384265	11414177	7.24%	0.615%
123	18.666	4877	4892	4907	rVB	8530666	22526876	14.30%	1.213%
124	18.759	4920	4921	4952	rVB10	1464097	4153932	2.64%	0.224%
125	18.968	4962	4986	4987	rBV6	6856050	17026794	10.80%	0.917%
126	19.004	4987	4997	5028	rVB4	10911057	44936845	28.52%	2.420%
127	19.271	5067	5080	5093	rBV4	2324346	8497799	5.39%	0.458%
128	19.348	5103	5104	5120	rVB6	1851129	2755163	1.75%	0.148%
129	19.547	5141	5166	5167	rBV5	1338878	3417507	2.17%	0.184%
130	19.676	5190	5206	5212	rVV5	2587157	6428689	4.08%	0.346%
131	19.724	5212	5221	5234	rVB3	4475197	10899678	6.92%	0.587%
132	19.811	5234	5248	5262	rBV3	3154100	8650210	5.49%	0.466%
133	19.933	5273	5286	5287	rBV4	1238731	1927027	1.22%	0.104%
134	19.972	5287	5298	5313	rVB4	2291863	7146684	4.54%	0.385%
135	20.116	5327	5343	5356	rBV	3403341	8120163	5.15%	0.437%
136	20.190	5356	5366	5379	rVB4	815998	2134667	1.35%	0.115%
137	20.316	5401	5405	5418	rVB7	1170367	2279619	1.45%	0.123%
138	20.396	5418	5430	5442	rBV4	1178212	3209019	2.04%	0.173%
139	20.640	5470	5506	5534	rVV	11956691	44814541	28.44%	2.413%
140	20.746	5534	5539	5546	rVV4	1755509	3473766	2.20%	0.187%
141	20.785	5546	5551	5569	rVB4	1159229	2759844	1.75%	0.149%
142	20.959	5585	5605	5614	rBV5	757637	2550215	1.62%	0.137%
143	21.033	5614	5628	5642	rBV5	1649819	4178621	2.65%	0.225%
144	21.119	5642	5655	5662	rBV8	752900	1751403	1.11%	0.094%
145	21.209	5676	5683	5696	rVB5	1533243	3627853	2.30%	0.195%
146	21.380	5717	5736	5777	rVB8	2109151	9344481	5.93%	0.503%

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147	21.566	5777	5794	5810	rBV6	2211883	8814669	5.59%	0.475%
148	21.698	5810	5835	5862	rVB3	5664874	27377593	17.37%	1.474%
149	21.836	5862	5878	5879	rBV3	1125454	1701305	1.08%	0.092%
150	21.849	5879	5882	5906	rVB6	1063476	3305301	2.10%	0.178%
151	22.007	5906	5931	5950	rVB4	1527858	5194885	3.30%	0.280%
152	22.174	5950	5983	5999	rBV8	2183129	9720207	6.17%	0.523%
153	22.264	5999	6011	6027	rVB9	769702	2482191	1.58%	0.134%
154	22.547	6082	6099	6115	rVB3	2073067	5481080	3.48%	0.295%
155	22.711	6129	6150	6164	rVB9	1130082	3802310	2.41%	0.205%
156	22.824	6172	6185	6198	rVV3	764998	1959361	1.24%	0.106%
157	22.952	6198	6225	6234	rVV4	2380359	7171373	4.55%	0.386%
158	23.020	6234	6246	6274	rVB3	6302718	17756354	11.27%	0.956%
159	23.261	6302	6321	6343	rVB6	1379684	5111690	3.24%	0.275%
160	23.386	6343	6360	6373	rBV3	3046011	7696008	4.88%	0.414%
161	23.582	6398	6421	6447	rVB5	2062602	8229866	5.22%	0.443%
162	23.923	6514	6527	6541	rVB5	657602	1875926	1.19%	0.101%
163	24.171	6583	6604	6626	rVB4	5232695	14048799	8.92%	0.757%
164	24.341	6644	6657	6671	rVB2	1841368	3948135	2.51%	0.213%
165	24.521	6699	6713	6729	rVV6	1876053	5355082	3.40%	0.288%
166	24.605	6729	6739	6757	rVB5	659151	1785085	1.13%	0.096%
167	24.923	6824	6838	6852	rBV4	1056660	2367807	1.50%	0.128%
168	25.071	6873	6884	6900	rVB5	1123561	2620913	1.66%	0.141%
169	25.158	6900	6911	6924	rBV	1008779	2430041	1.54%	0.131%
170	25.277	6936	6948	6958	rVB	1711001	3602517	2.29%	0.194%
171	25.496	7002	7016	7039	rBV5	1712576	6279214	3.98%	0.338%

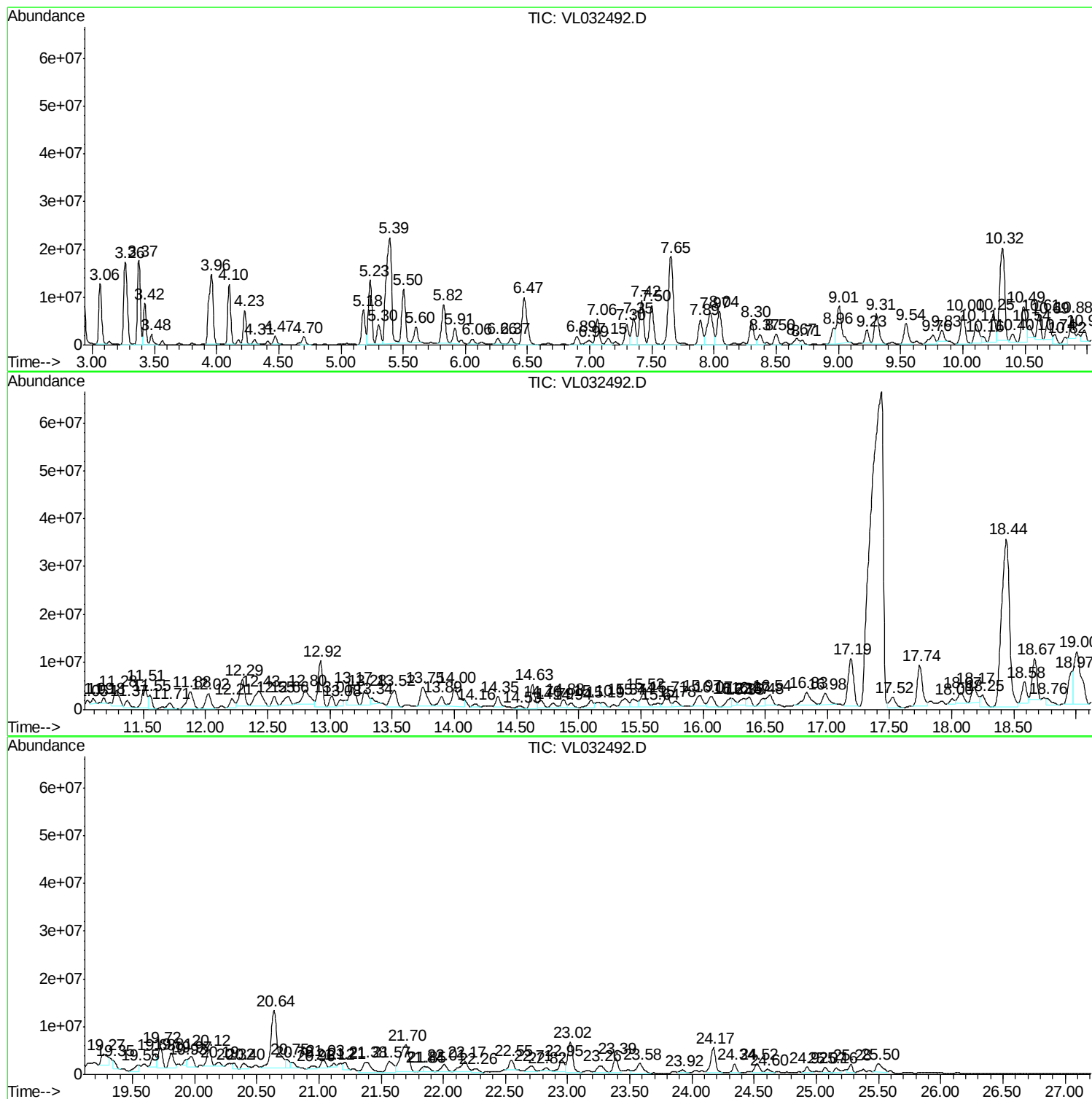
Sum of corrected areas: 1857028063

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

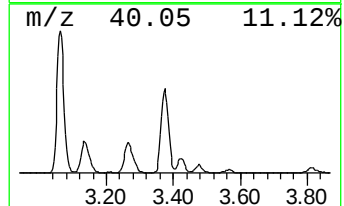
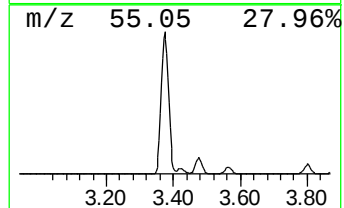
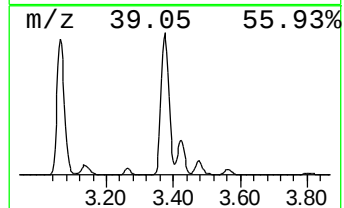
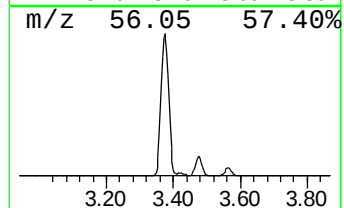
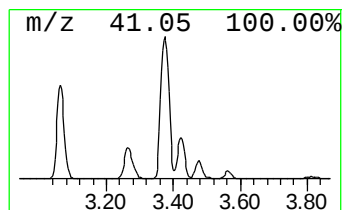
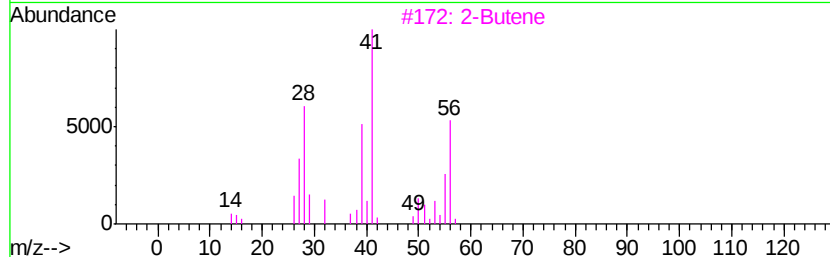
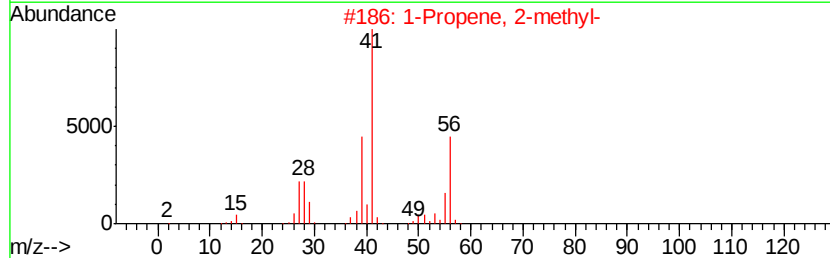
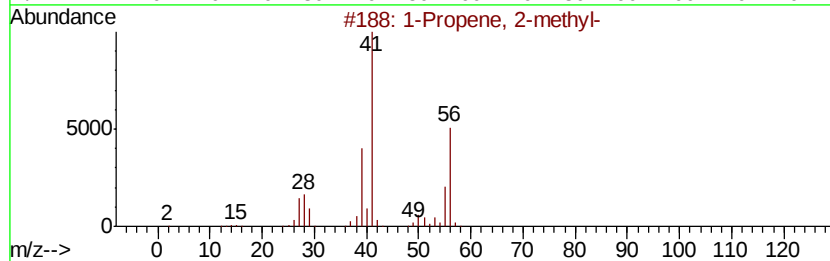
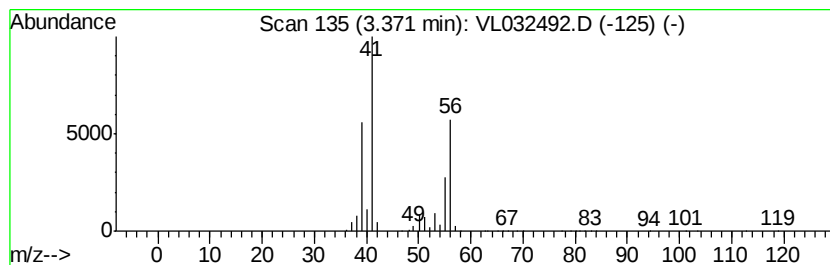
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.37	17.03 ppbv	29354200	Bromochloromethane	5.82

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	91
2		1-Propene, 2-methyl-	56	C4H8	000115-11-7	91
3		2-Butene	56	C4H8	000107-01-7	83
4		1-Propene, 2-methyl-	56	C4H8	000115-11-7	80
5		1-Butene	56	C4H8	000106-98-9	72



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

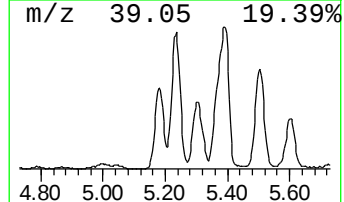
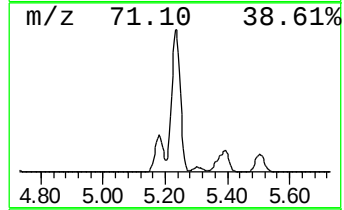
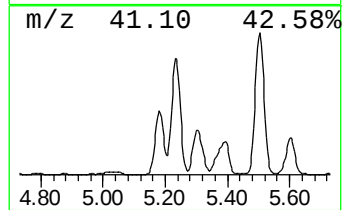
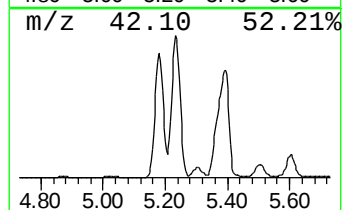
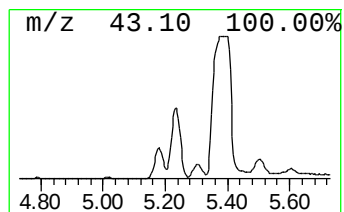
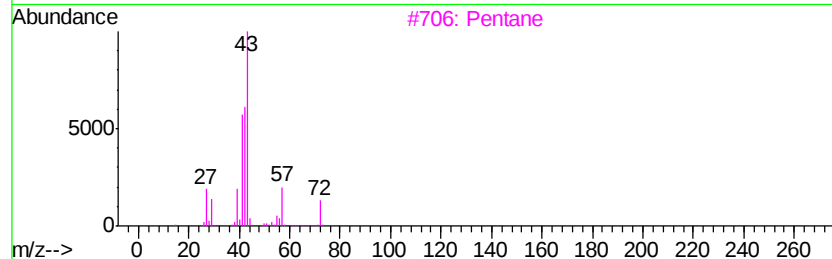
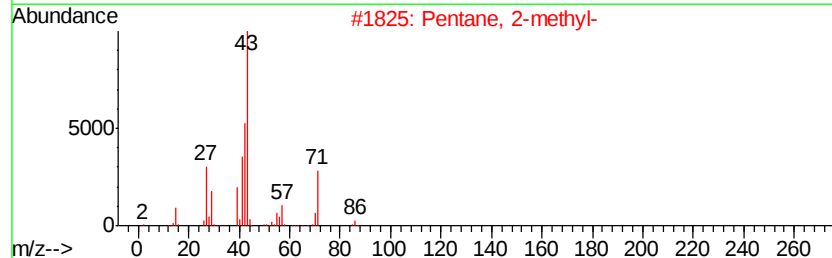
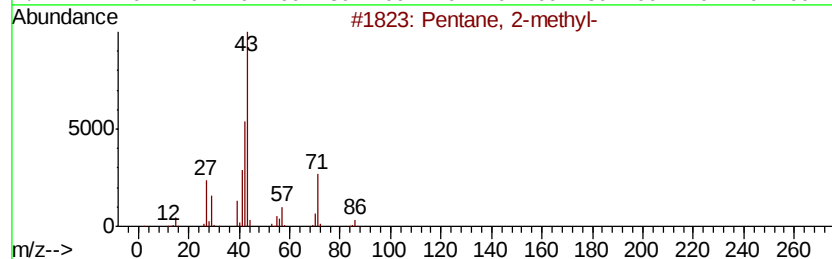
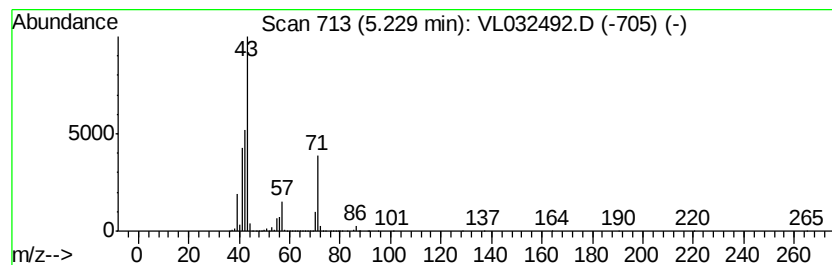
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.23	15.35 ppbv	26454000	Bromochloromethane	5.82

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91	
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91	
3	Pentane	72	C5H12	000109-66-0	49	
4	Pentane	72	C5H12	000109-66-0	37	
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	33	



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
245-BERRY

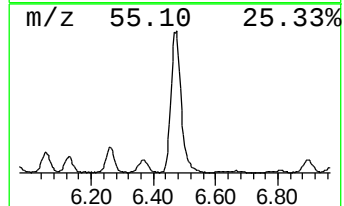
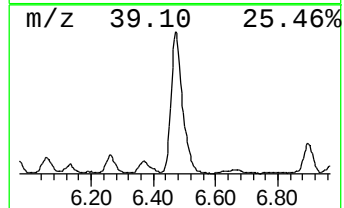
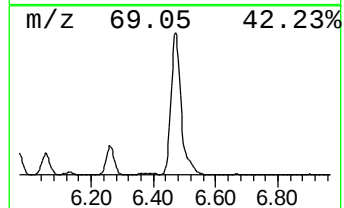
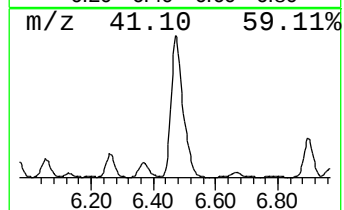
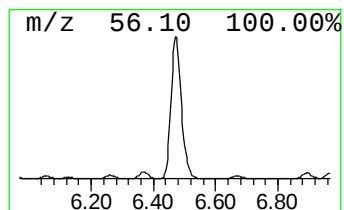
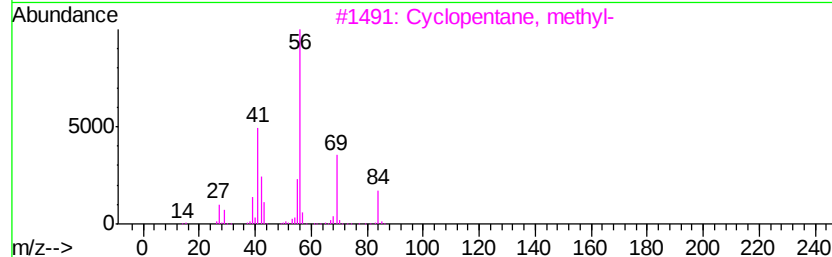
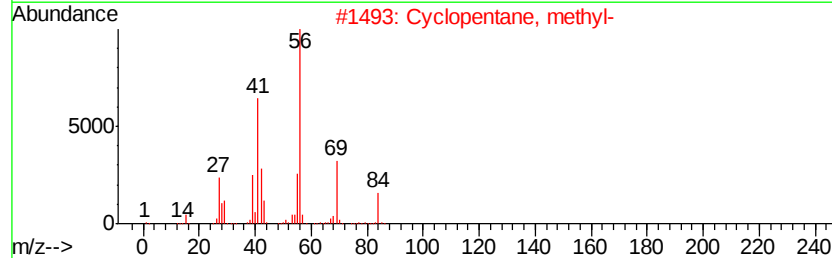
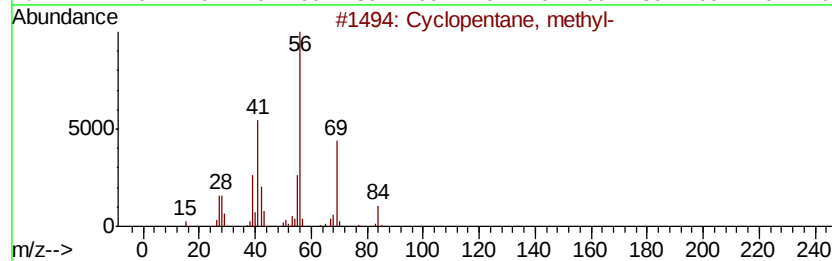
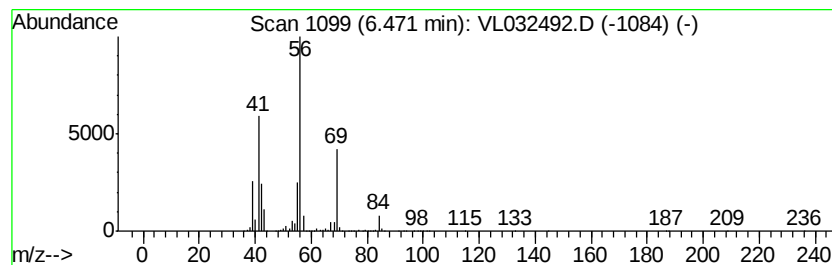
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 4 Cyclopentane, methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	15.58 ppbv	26858000	Bromochloromethane	5.82

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclopentane, methyl-	84	C6H12	000096-37-7	87
2		Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3		Cyclopentane, methyl-	84	C6H12	000096-37-7	83
4		Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5		1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

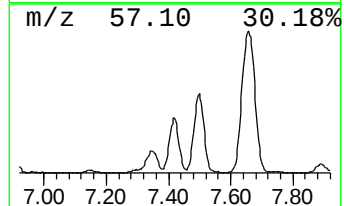
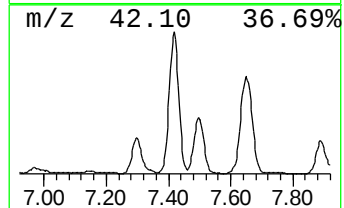
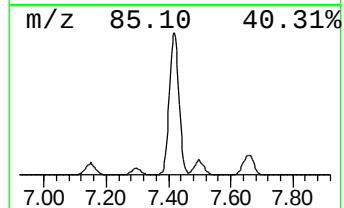
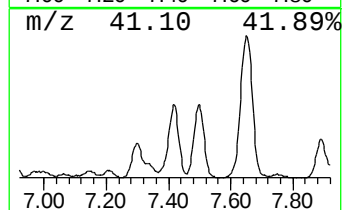
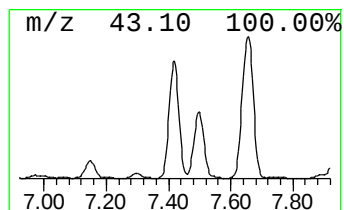
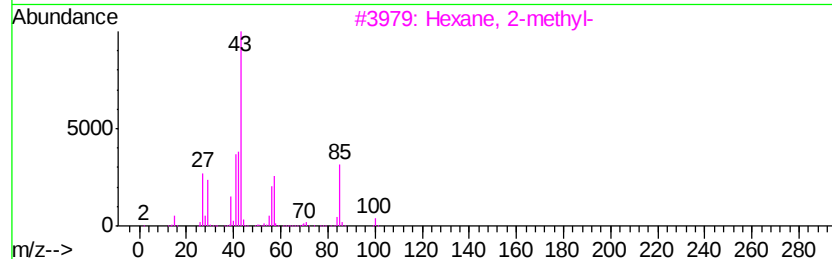
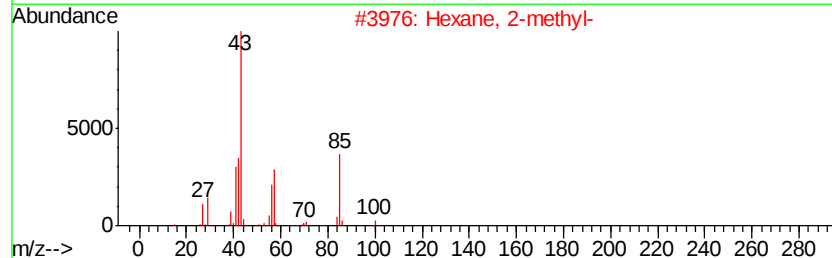
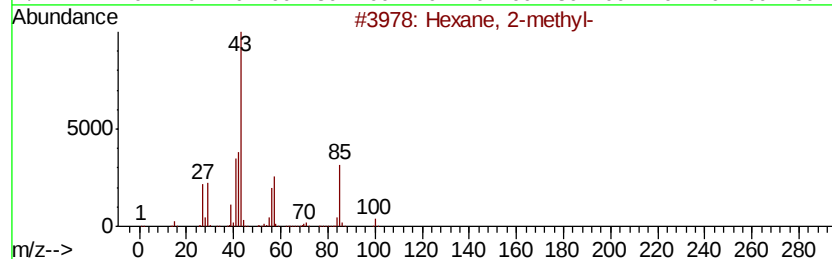
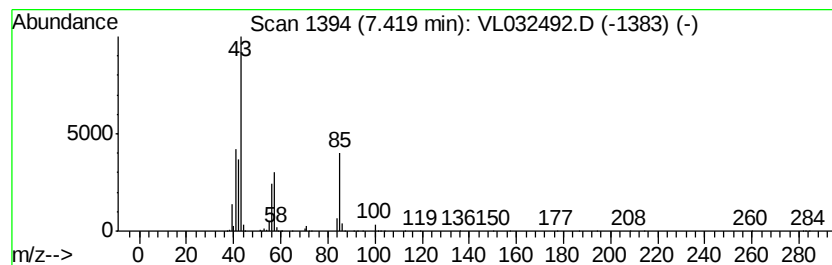
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 5 Hexane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.42	16.05 ppbv	20632800	1,4-Difluorobenzene	7.35

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-		100	C7H16	000591-76-4	93
2	Hexane, 2-methyl-		100	C7H16	000591-76-4	90
3	Hexane, 2-methyl-		100	C7H16	000591-76-4	90
4	Pentane, 3-ethyl-2,4-dimethyl-		128	C9H20	001068-87-7	50
5	Heptane, 3,4,5-trimethyl-		142	C10H22	020278-89-1	50



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

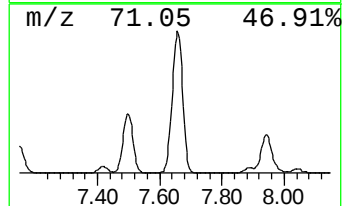
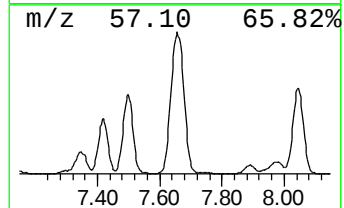
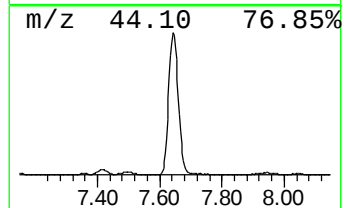
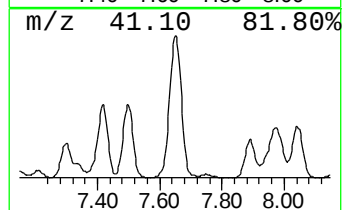
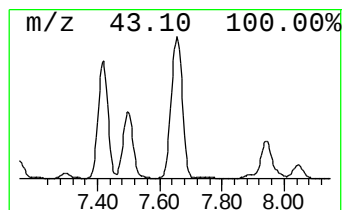
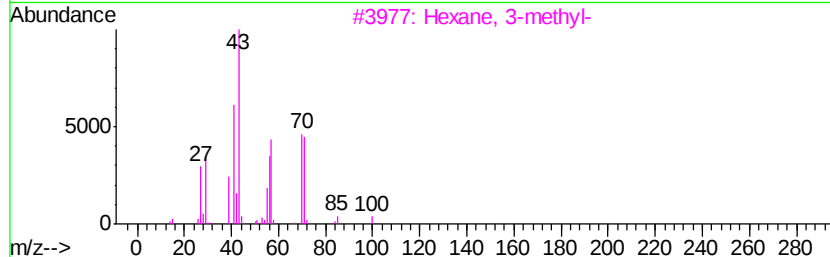
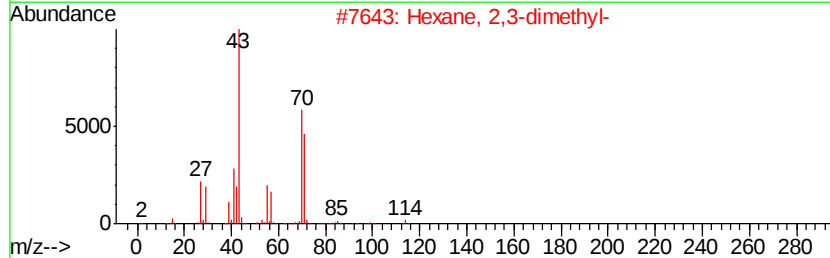
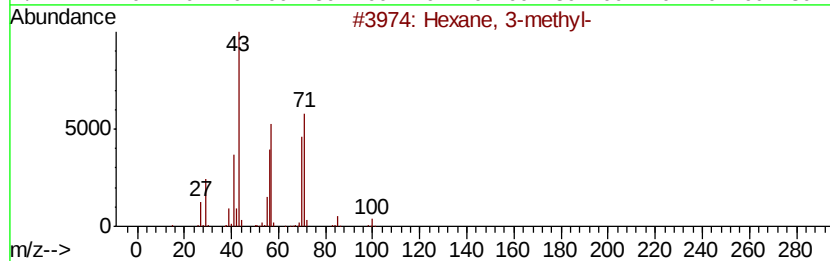
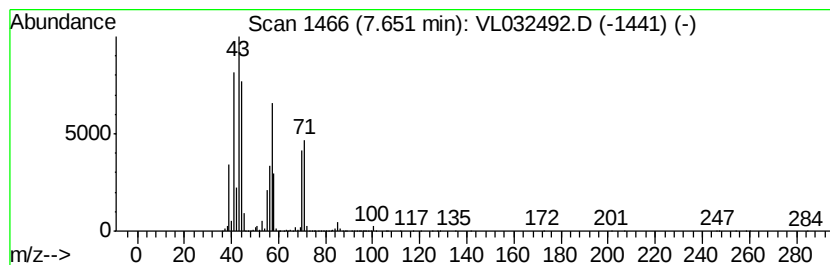
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 6 unknown 7.65 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.65	39.75 ppbv	51097200	1,4-Difluorobenzene	7.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexane, 3-methyl-	100	C7H16	000589-34-4	49
2		Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	47
3		Hexane, 3-methyl-	100	C7H16	000589-34-4	46
4		Pyrrolidine	71	C4H9N	000123-75-1	46
5		Hexane, 3-methyl-	100	C7H16	000589-34-4	38



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
245-BERRY

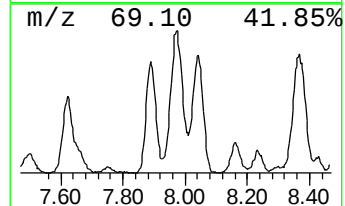
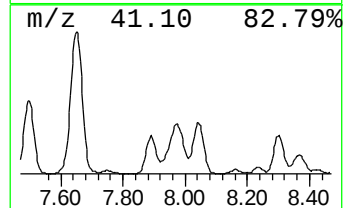
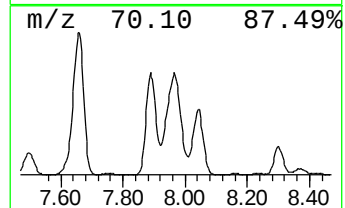
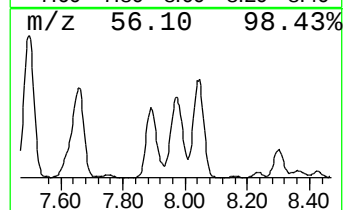
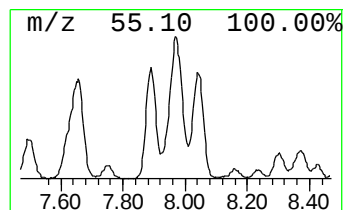
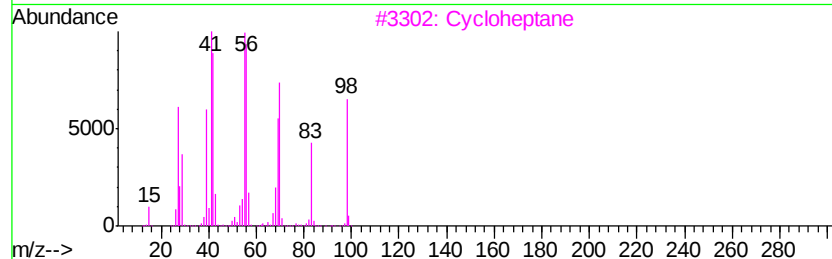
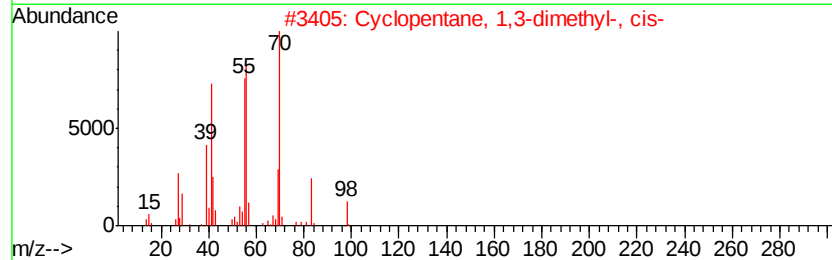
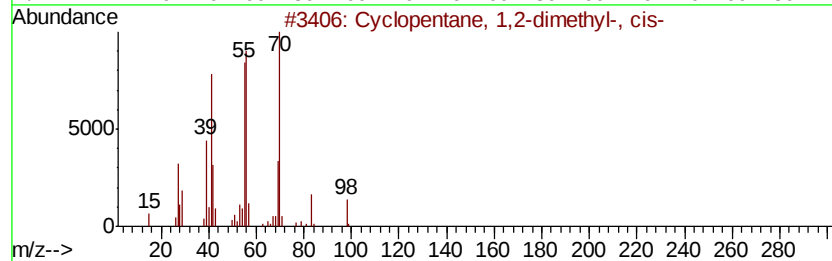
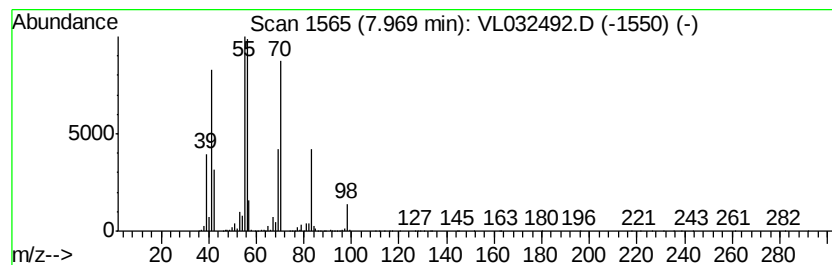
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 7 Cyclopentane, 1,2-dimethyl-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.97	16.97 ppbv	21812600	1,4-Difluorobenzene	7.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	90
2		Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	87
3		Cycloheptane	98	C7H14	000291-64-5	87
4		Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	76
5		Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	76



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

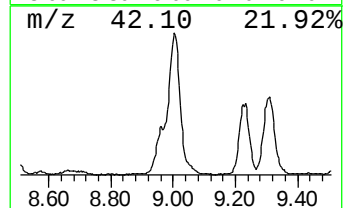
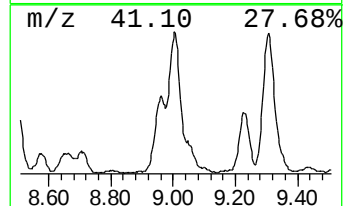
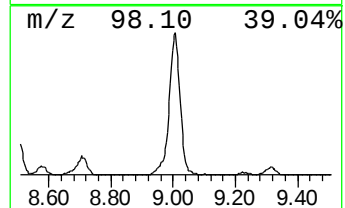
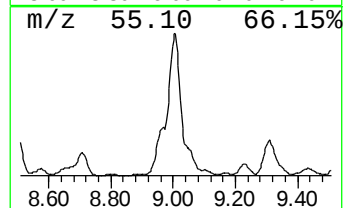
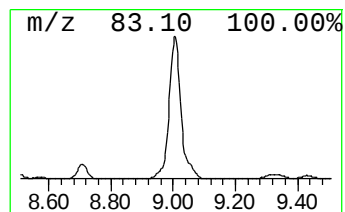
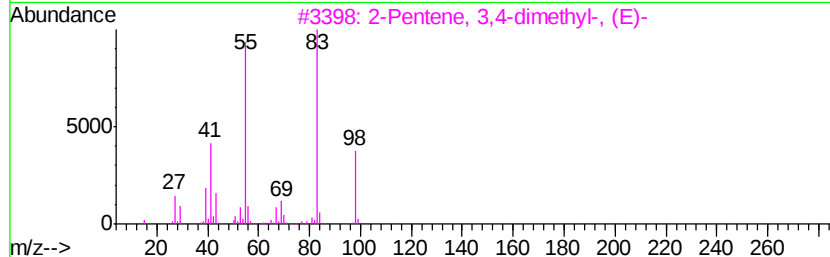
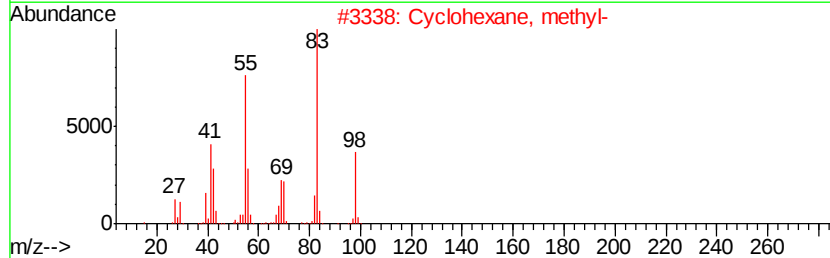
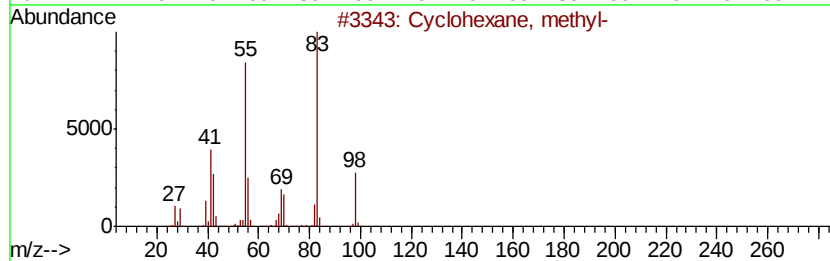
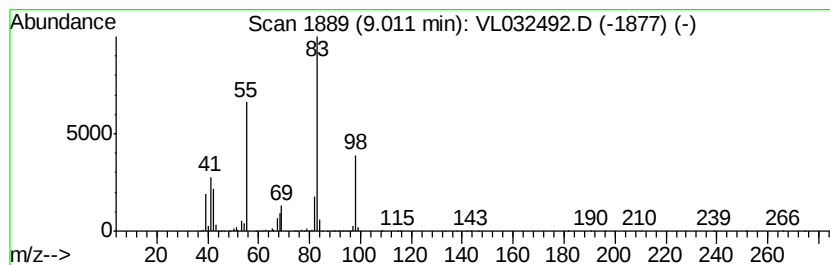
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 8 Cyclohexane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.01	16.64 ppbv	21388000	1,4-Difluorobenzene	7.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, methyl-	98	C7H14	000108-87-2	83
2		Cyclohexane, methyl-	98	C7H14	000108-87-2	78
3		2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	64
4		Cyclohexane, methyl-	98	C7H14	000108-87-2	64
5		2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	59



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

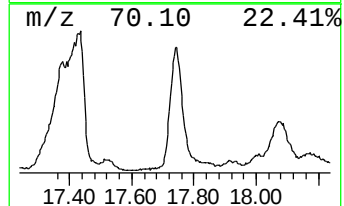
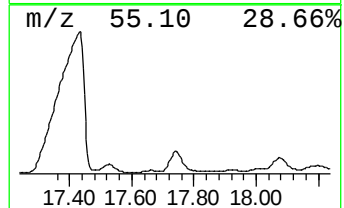
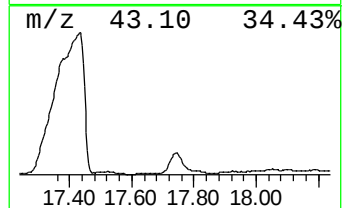
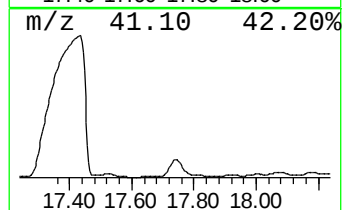
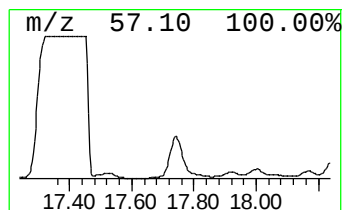
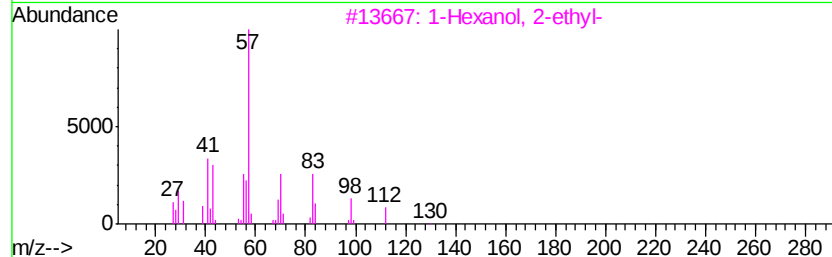
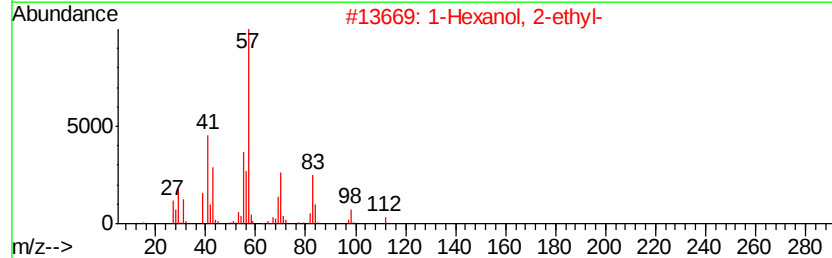
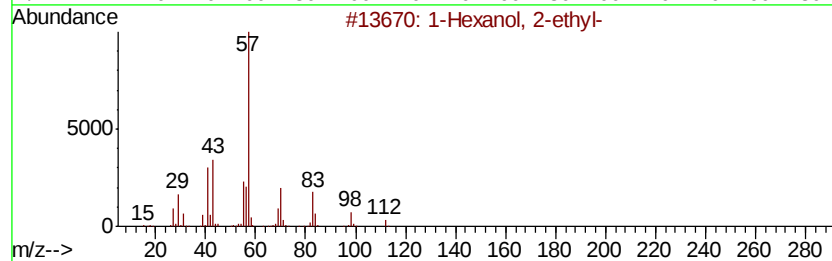
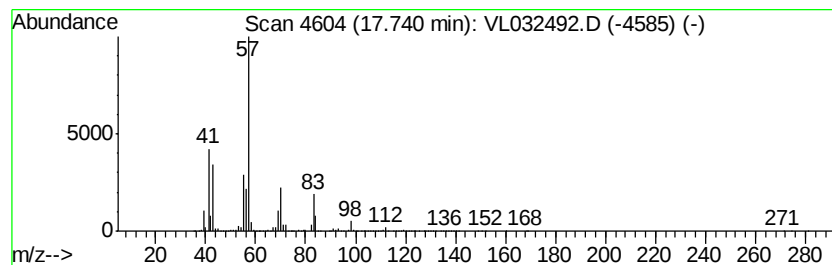
Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 10 1-Hexanol, 2-ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.74	16.08 ppbv	24885900	Chlorobenzene-d5	12.29
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	1-Hexanol, 2-ethyl-	130 C8H18O	000104-76-7	83
2	1-Hexanol, 2-ethyl-	130 C8H18O	000104-76-7	64
3	1-Hexanol, 2-ethyl-	130 C8H18O	000104-76-7	59
4	2-Propyl-1-pentanol	130 C8H18O	058175-57-8	53
5	2-Ethylhexyl hydrogen maleate	228 C12H20O4	002370-71-0	53



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

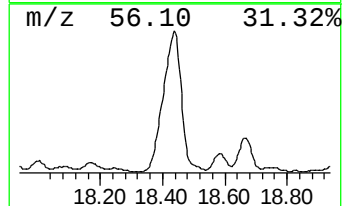
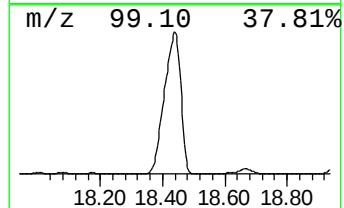
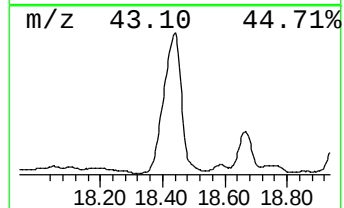
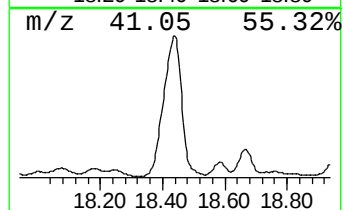
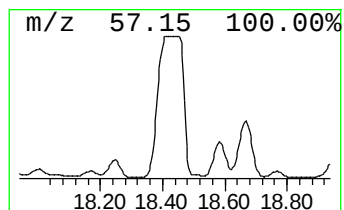
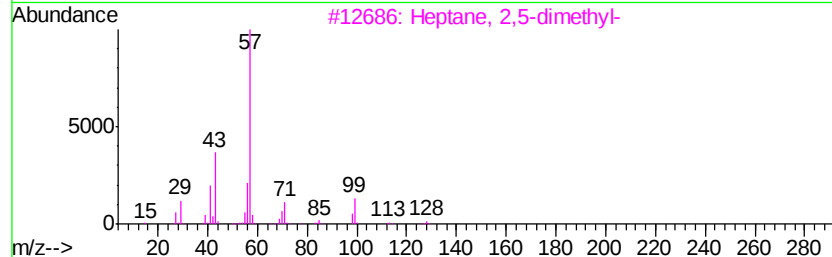
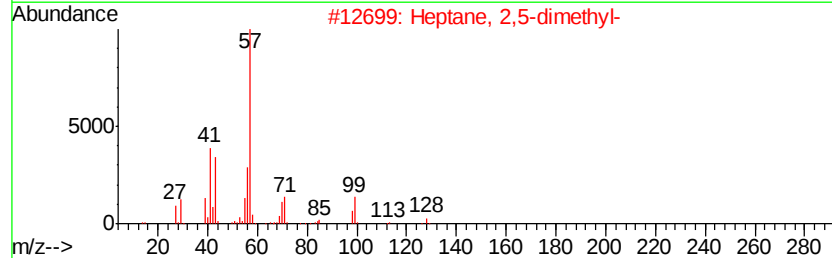
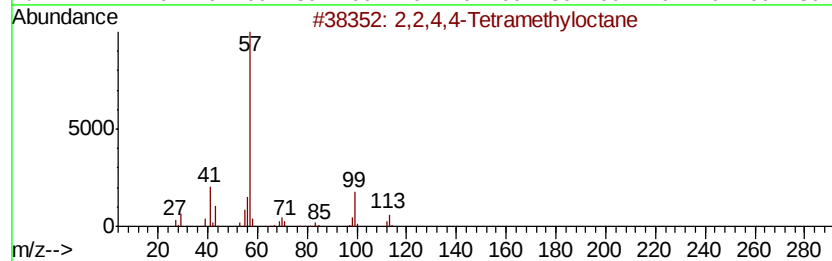
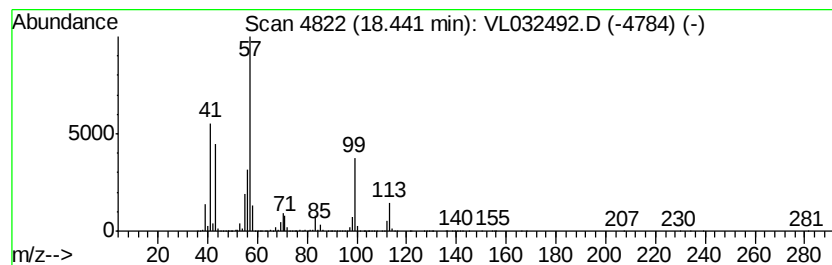
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ClientSampleId :
245-BERRY

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 11 2,2,4,4-Tetramethyloctane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.		
18.44	101.83 ppbv	157583000	Chlorobenzene-d5	12.29		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4,4-Tetramethyloctane		170	C12H26	062183-79-3	59
2	Heptane, 2,5-dimethyl-		128	C9H20	002216-30-0	53
3	Heptane, 2,5-dimethyl-		128	C9H20	002216-30-0	42
4	Butane, 2,2,3,3-tetramethyl-		114	C8H18	000594-82-1	40
5	Octane, 2,6-dimethyl-		142	C10H22	002051-30-1	38



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

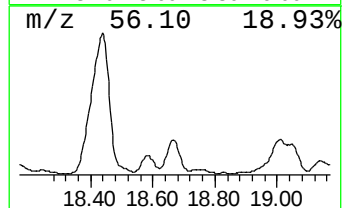
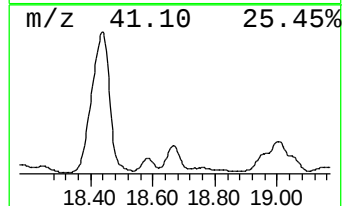
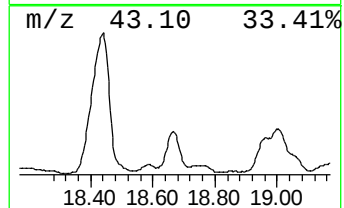
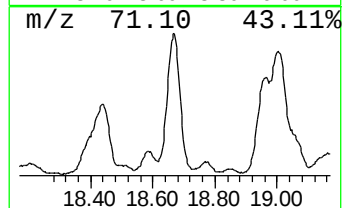
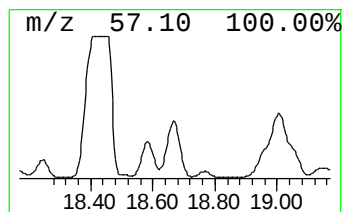
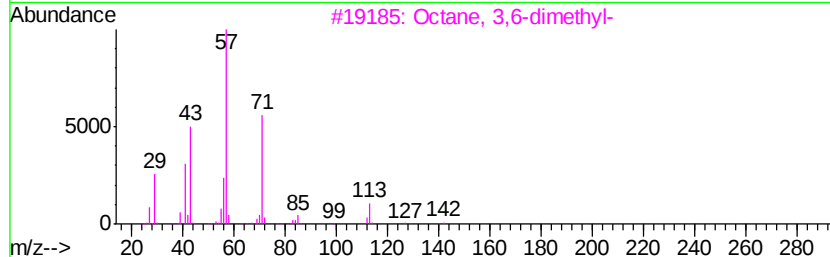
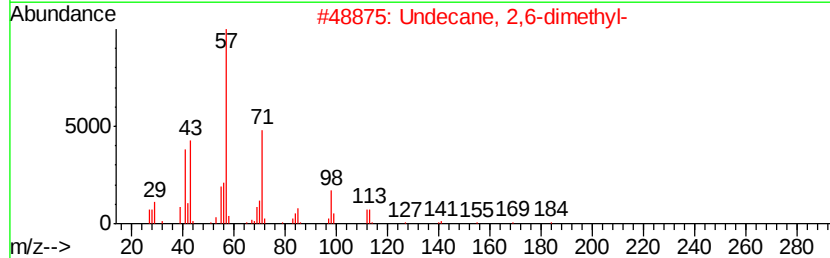
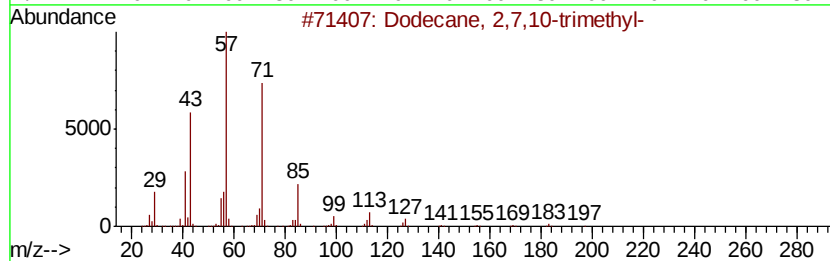
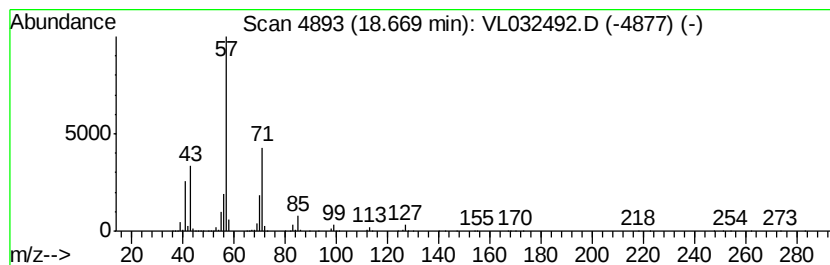
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 12 Dodecane, 2,7,10-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	14.56 ppbv	22526900	Chlorobenzene-d5	12.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	64
2		Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	64
3		Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	64
4		Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	56
5		Oxalic acid, isobutyl pentyl ester	216	C11H20O4	1000309-37-0	56



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

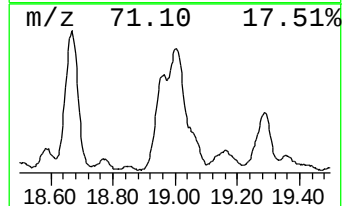
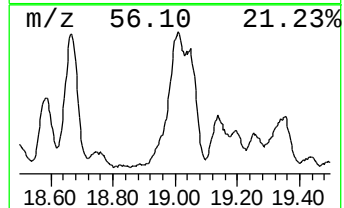
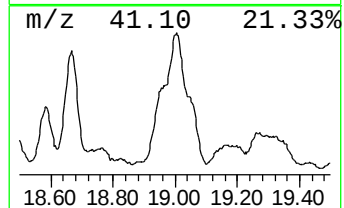
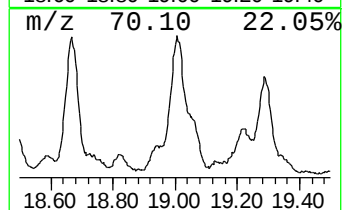
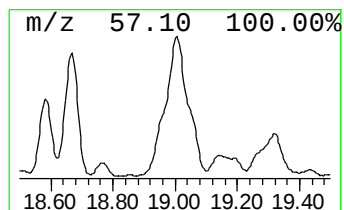
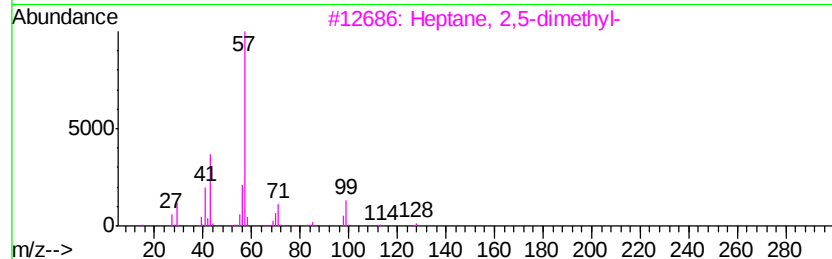
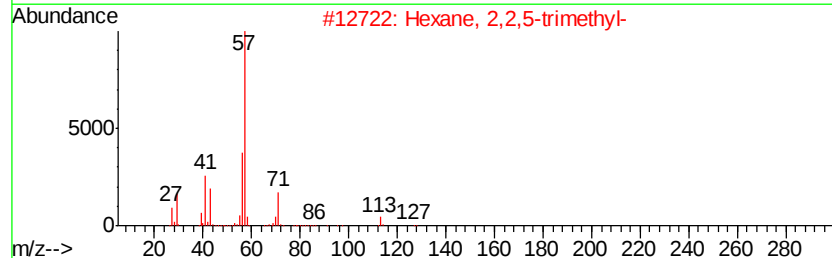
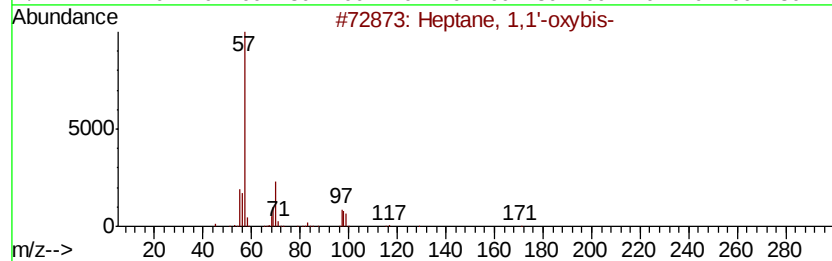
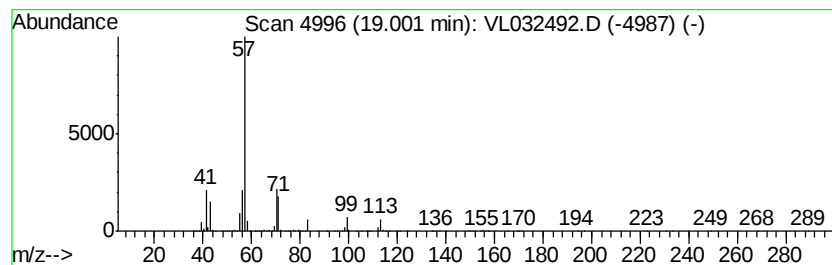
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 13 unknown19.00 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.00	29.04 ppbv	44936800	Chlorobenzene-d5	12.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	45
2		Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	43
3		Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	38
4		Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	38
5		Heptane, 2,3,6-trimethyl-	142	C10H22	004032-93-3	38



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032492.D
Acq On : 11 Sep 2018 00:02
Operator : SY/AP
Sample : J4820-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
245-BERRY

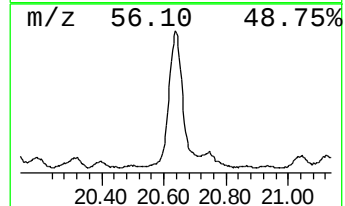
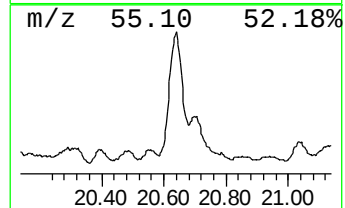
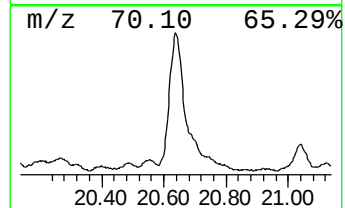
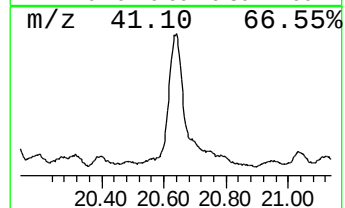
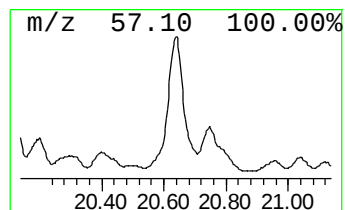
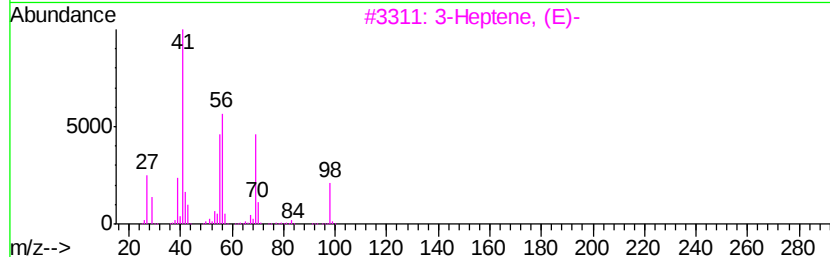
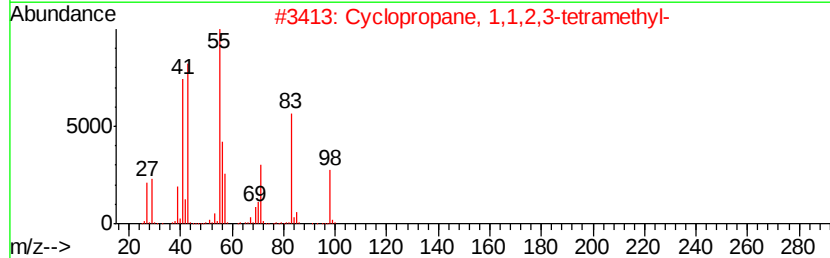
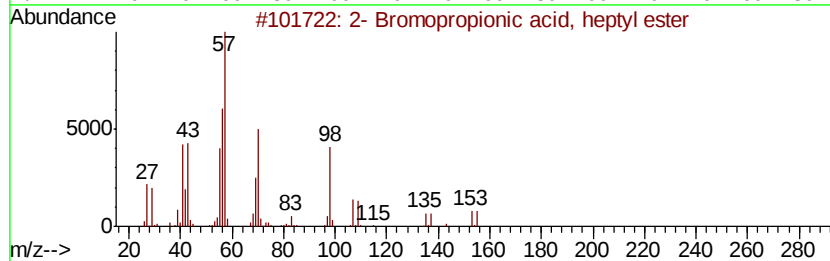
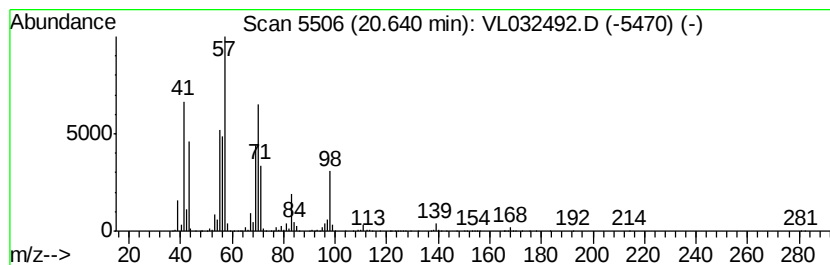
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018

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

Peak Number 14 2- Bromopropionic acid, hep... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.64	28.96 ppbv	44814500	Chlorobenzene-d5	12.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2- Bromopropionic acid, heptyl e...	250	C10H19BrO2	038674-99-6	59
2		Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	43
3		3-Heptene, (E)-	98	C7H14	014686-14-7	42
4		5-Undecene, 3-methyl-, (E)-	168	C12H24	074630-67-4	38
5		(Z)-3-Heptene	98	C7H14	007642-10-6	38



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032492.D
 Acq On : 11 Sep 2018 00:02
 Operator : SY/AP
 Sample : J4820-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRY

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 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-	3.37	17.0	ppbv	29354200	1	5.82	17237800	10.0
Pentane, 2-methyl-	5.23	15.4	ppbv	26454000	1	5.82	17237800	10.0
Cyclopentane, met...	6.47	15.6	ppbv	26858000	1	5.82	17237800	10.0
Hexane, 2-methyl-	7.42	16.1	ppbv	20632800	2	7.35	12853200	10.0
unknown7.65	7.65	39.8	ppbv	51097200	2	7.35	12853200	10.0
Cyclopentane, 1,2...	7.97	17.0	ppbv	21812600	2	7.35	12853200	10.0
Cyclohexane, methyl-	9.01	16.6	ppbv	21388000	2	7.35	12853200	10.0
1-Hexanol, 2-ethyl-	17.74	16.1	ppbv	24885900	3	12.29	15475100	10.0
2,2,4,4-Tetrameth...	18.44	101.8	ppbv	157583000	3	12.29	15475100	10.0
Dodecane, 2,7,10-...	18.67	14.6	ppbv	22526900	3	12.29	15475100	10.0
unknown19.00	19.00	29.0	ppbv	44936800	3	12.29	15475100	10.0
2- Bromopropionic...	20.64	29.0	ppbv	44814500	3	12.29	15475100	10.0