

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036765.D
 Acq On : 9 Apr 2021 1:04
 Operator : SY/AP
 Sample : M1981-03 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

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\VL032521AIR.M
 Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.864	13	24	37	rBV	817670	1705699	3.92%	0.135%
2	2.932	37	45	55	rVV2	633128	1020523	2.34%	0.081%
3	3.006	57	68	85	rVV3	1281015	2631395	6.04%	0.208%
4	3.115	96	102	115	rVB3	229600	483312	1.11%	0.038%
5	3.192	115	126	136	rVV2	626124	970970	2.23%	0.077%
6	3.247	136	143	150	rVV	370160	585328	1.34%	0.046%
7	3.295	150	158	168	rVV	1217114	2038967	4.68%	0.161%
8	3.346	168	174	184	rVV2	545232	859501	1.97%	0.068%
9	3.835	315	326	363	rBV	3187583	7054080	16.20%	0.558%
10	4.118	405	414	424	rBV2	311892	467235	1.07%	0.037%
11	4.250	444	455	473	rBV	10256180	20235660	46.48%	1.601%
12	4.333	473	481	515	rVB2	2588677	5695038	13.08%	0.451%
13	5.047	689	703	710	rBV3	265654	527326	1.21%	0.042%
14	5.099	710	719	730	rVV	749108	1479369	3.40%	0.117%
15	5.237	752	762	778	rBV2	369705	728325	1.67%	0.058%
16	5.359	787	800	815	rBV2	721498	1439575	3.31%	0.114%
17	5.539	844	856	880	rBV	1202096	2565946	5.89%	0.203%
18	5.671	880	897	919	rBV3	3746509	10393602	23.87%	0.822%
19	6.208	1048	1064	1081	rBV3	257692	599903	1.38%	0.047%
20	6.324	1081	1100	1102	rVV5	982699	2204644	5.06%	0.174%
21	6.333	1102	1103	1128	rVB2	964438	1358390	3.12%	0.107%
22	6.883	1263	1274	1293	rVV3	643168	1350822	3.10%	0.107%
23	7.124	1334	1349	1352	rBV2	907414	1675564	3.85%	0.133%
24	7.166	1352	1362	1375	rVV	4328798	9687133	22.25%	0.767%
25	7.247	1375	1387	1399	rVV	2454283	5909234	13.57%	0.468%
26	7.320	1399	1410	1433	rVB3	2342747	5593024	12.85%	0.443%
27	7.478	1435	1459	1484	rBV2	4241294	11434897	26.26%	0.905%
28	7.706	1511	1530	1540	rBV3	1304237	3084361	7.08%	0.244%
29	7.780	1540	1553	1559	rVV4	1519620	4086707	9.39%	0.323%
30	7.861	1559	1578	1608	rVB3	7899466	26976727	61.96%	2.135%
31	8.118	1642	1658	1669	rBV3	1270289	2859765	6.57%	0.226%
32	8.182	1669	1678	1704	rVB4	365423	1018311	2.34%	0.081%
33	8.372	1723	1737	1748	rVV4	450959	1214836	2.79%	0.096%
34	8.455	1748	1763	1797	rVB2	5082934	13518020	31.05%	1.070%

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Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

35	8.616	1797	1813	1828	rBV3	460663	1059889	2.43%	0.084%
36	8.812	1844	1874	1885	rBV3	7481651	22584744	51.87%	1.787%
37	8.854	1885	1887	1898	rVV4	2858074	5064392	11.63%	0.401%
38	8.915	1898	1906	1919	rVV2	1558695	3781493	8.69%	0.299%
39	9.041	1931	1945	1956	rVV3	3039959	7211747	16.56%	0.571%
40	9.115	1956	1968	2019	rVB5	4893305	18738460	43.04%	1.483%
41	9.349	2024	2041	2060	rBV4	5698437	14992625	34.44%	1.186%
42	9.439	2068	2069	2085	rVB4	364040	488304	1.12%	0.039%
43	9.565	2085	2108	2118	rBV3	3255462	8510779	19.55%	0.673%
44	9.632	2118	2129	2158	rVB2	4201043	11029594	25.33%	0.873%
45	9.806	2161	2183	2203	rBV9	6944192	21990530	50.51%	1.740%
46	9.918	2203	2218	2227	rVV2	2490123	6240560	14.33%	0.494%
47	9.973	2227	2235	2245	rVV3	1672332	3850436	8.84%	0.305%
48	10.057	2245	2261	2271	rVV2	8103204	20633103	47.39%	1.633%
49	10.108	2271	2277	2294	rVB4	3591620	7894221	18.13%	0.625%
50	10.205	2294	2307	2319	rBV3	1351209	3180586	7.31%	0.252%
51	10.295	2319	2335	2346	rVV5	5424490	14792759	33.98%	1.171%
52	10.340	2346	2349	2366	rVV6	1980858	4375605	10.05%	0.346%
53	10.423	2366	2375	2379	rVV5	975184	1795312	4.12%	0.142%
54	10.488	2379	2395	2425	rVB4	9466295	36172285	83.08%	2.862%
55	10.629	2425	2439	2461	rVB2	2866819	7379740	16.95%	0.584%
56	10.751	2461	2477	2478	rBV5	1782391	3302311	7.58%	0.261%
57	10.774	2478	2484	2496	rVV2	1892155	4104480	9.43%	0.325%
58	10.848	2496	2507	2511	rVV3	1456683	2785948	6.40%	0.220%
59	10.889	2511	2520	2537	rVV3	3285456	8164725	18.75%	0.646%
60	10.986	2541	2550	2561	rVB5	388775	770476	1.77%	0.061%
61	11.098	2568	2585	2609	rBV5	4936288	14139441	32.48%	1.119%
62	11.211	2609	2620	2634	rVV2	2210515	5120608	11.76%	0.405%
63	11.304	2636	2649	2676	rVB5	3463235	9982432	22.93%	0.790%
64	11.442	2676	2692	2693	rBV6	293765	570341	1.31%	0.045%
65	11.507	2693	2712	2729	rVB5	1907027	5969826	13.71%	0.472%
66	11.632	2729	2751	2760	rBV3	1486456	4082531	9.38%	0.323%
67	11.700	2760	2772	2789	rVB6	2290379	6139885	14.10%	0.486%
68	11.825	2789	2811	2829	rBV3	3615093	10414583	23.92%	0.824%
69	11.928	2833	2843	2851	rVB8	313393	642153	1.47%	0.051%
70	12.018	2851	2871	2882	rBV2	9434269	26654635	61.22%	2.109%
71	12.082	2882	2891	2911	rVV4	5043502	19112351	43.90%	1.512%

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72	12.188	2911	2924	2931	rVV4	6602528	18427887	42.33%	1.458%
73	12.233	2931	2938	2959	rVV2	6416255	18150483	41.69%	1.436%
74	12.349	2959	2974	2989	rVV2	10104469	27661796	63.54%	2.189%
75	12.439	2989	3002	3008	rVV4	3136909	7878756	18.10%	0.623%
76	12.475	3008	3013	3022	rVV6	2871096	6785479	15.59%	0.537%
77	12.507	3022	3023	3038	rVV6	2005427	3757088	8.63%	0.297%
78	12.577	3038	3045	3048	rVV4	356455	587533	1.35%	0.046%
79	12.635	3048	3063	3064	rVV3	1591371	3312144	7.61%	0.262%
80	12.693	3064	3081	3100	rVB6	3377016	13669141	31.40%	1.082%
81	12.812	3100	3118	3126	rBV4	5048708	13106813	30.10%	1.037%
82	12.877	3126	3138	3151	rVV5	7103122	22524399	51.74%	1.782%
83	12.963	3151	3165	3189	rVV5	3695248	16817711	38.63%	1.331%
84	13.089	3189	3204	3220	rVB5	4941719	15282122	35.10%	1.209%
85	13.176	3220	3231	3250	rBV6	1406408	4265737	9.80%	0.338%
86	13.320	3250	3276	3294	rBV3	6241675	19964089	45.85%	1.580%
87	13.404	3294	3302	3311	rVB7	296862	518662	1.19%	0.041%
88	13.468	3311	3322	3332	rVB7	532868	1244283	2.86%	0.098%
89	13.549	3332	3347	3366	rBV9	3143546	10024428	23.02%	0.793%
90	13.687	3366	3390	3401	rVB7	1469753	5313616	12.20%	0.420%
91	13.793	3401	3423	3432	rBV8	4588012	16015180	36.78%	1.267%
92	13.838	3432	3437	3442	rVV3	2630675	4794683	11.01%	0.379%
93	13.886	3442	3452	3465	rVB2	5597029	13451424	30.90%	1.064%
94	13.963	3465	3476	3487	rBV2	2697317	5943609	13.65%	0.470%
95	14.079	3493	3512	3526	rVB2	1618326	6723048	15.44%	0.532%
96	14.153	3526	3535	3540	rBV6	352231	604903	1.39%	0.048%
97	14.201	3540	3550	3564	rVB5	655043	1451657	3.33%	0.115%
98	14.317	3566	3586	3601	rVB6	2272352	7386068	16.96%	0.584%
99	14.413	3601	3616	3626	rBV4	4977479	12702307	29.18%	1.005%
100	14.494	3626	3641	3657	rVB4	6137382	18573895	42.66%	1.470%
101	14.600	3657	3674	3689	rBV9	1875953	6493866	14.92%	0.514%
102	14.738	3700	3717	3735	rBV6	2970427	9657177	22.18%	0.764%
103	14.883	3737	3762	3774	rVV5	5564713	16512679	37.93%	1.307%
104	14.950	3774	3783	3795	rVV3	3004084	7876853	18.09%	0.623%
105	14.999	3795	3798	3809	rVB4	963789	1398779	3.21%	0.111%
106	15.076	3809	3822	3833	rBV7	2519438	6124840	14.07%	0.485%
107	15.172	3833	3852	3861	rBV4	6491852	19305835	44.34%	1.528%
108	15.237	3861	3872	3889	rVV	10855611	30653963	70.41%	2.426%
109	15.327	3889	3900	3914	rVV7	3281539	9226204	21.19%	0.730%

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110	15.394	3914	3921	3922	rVV5	821450	1122860	2.58%	0.089%
111	15.404	3922	3924	3936	rVB3	793764	1277310	2.93%	0.101%
112	15.494	3936	3952	3965	rBV4	7770401	21503290	49.39%	1.702%
113	15.574	3965	3977	3978	rVV4	2175380	4800039	11.03%	0.380%
114	15.581	3978	3979	3991	rVB5	2143734	2771495	6.37%	0.219%
115	15.658	3991	4003	4018	rVB8	1995643	5693677	13.08%	0.451%
116	15.770	4018	4038	4050	rBV8	1826717	4837538	11.11%	0.383%
117	15.860	4050	4066	4086	rVB7	5148126	17260866	39.65%	1.366%
118	15.986	4086	4105	4110	rBV6	1813564	4658687	10.70%	0.369%
119	16.031	4110	4119	4126	rVV2	1649401	3076443	7.07%	0.243%
120	16.089	4126	4137	4172	rVB9	7171819	30725916	70.57%	2.431%
121	16.230	4172	4181	4193	rVB4	1188729	2321527	5.33%	0.184%
122	16.314	4193	4207	4218	rBV3	2146941	5336912	12.26%	0.422%
123	16.372	4218	4225	4236	rVB5	886277	1778153	4.08%	0.141%
124	16.513	4236	4269	4270	rBV8	3283238	10979757	25.22%	0.869%
125	16.519	4270	4271	4283	rVB4	1621440	1945910	4.47%	0.154%
126	16.603	4294	4297	4307	rVB3	1360495	2021516	4.64%	0.160%
127	16.667	4307	4317	4336	rVB8	1133214	3785606	8.70%	0.300%
128	16.777	4336	4351	4366	rBV6	4482371	13133851	30.17%	1.039%
129	16.873	4366	4381	4394	rVB6	3030867	7824476	17.97%	0.619%
130	16.966	4394	4410	4429	rVB6	2378824	6971645	16.01%	0.552%
131	17.047	4429	4435	4448	rVB10	519648	1139094	2.62%	0.090%
132	17.134	4448	4462	4471	rBV5	1630970	4168553	9.57%	0.330%
133	17.249	4471	4498	4534	rVB	10056753	43537592	100.00%	3.445%
134	17.429	4534	4554	4557	rBV	1086996	2901858	6.67%	0.230%
135	17.497	4557	4575	4592	rBV	11347102	32169203	73.89%	2.545%
136	17.587	4592	4603	4614	rVB7	1578138	3552097	8.16%	0.281%
137	17.648	4614	4622	4629	rBV9	546659	978197	2.25%	0.077%
138	17.732	4647	4648	4659	rVB4	907882	1061378	2.44%	0.084%
139	17.822	4659	4676	4704	rBV4	6197679	18356156	42.16%	1.452%
140	17.998	4704	4731	4732	rBV9	1480491	4777654	10.97%	0.378%
141	18.172	4766	4785	4799	rBV6	3325927	9748495	22.39%	0.771%
142	18.256	4799	4811	4816	rVV5	1628224	3904164	8.97%	0.309%
143	18.294	4816	4823	4833	rVV4	1784702	4194996	9.64%	0.332%
144	18.365	4833	4845	4869	rVB6	2902730	10610902	24.37%	0.840%
145	18.487	4869	4883	4894	rBV7	879763	2494522	5.73%	0.197%
146	18.574	4894	4910	4923	rVB7	1068252	2698351	6.20%	0.214%

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147	18.642	4923	4931	4932	rBV4	443460	526183	1.21%	0.042%
148	18.703	4937	4950	4961	rVV7	1984317	5133668	11.79%	0.406%
149	18.764	4961	4969	4981	rVB5	933401	2149760	4.94%	0.170%
150	18.857	4981	4998	5007	rBV9	807635	2331239	5.35%	0.184%
151	18.960	5007	5030	5046	rVV9	3124221	10558959	24.25%	0.836%
152	19.056	5046	5060	5072	rVB5	873641	2538168	5.83%	0.201%
153	19.137	5072	5085	5096	rBV5	910094	1927701	4.43%	0.153%
154	19.217	5096	5110	5111	rVV8	724979	1351887	3.11%	0.107%
155	19.224	5111	5112	5134	rVB8	769410	1813644	4.17%	0.144%
156	19.452	5160	5183	5197	rBV8	1064685	3843085	8.83%	0.304%
157	19.635	5221	5240	5257	rVB9	1335047	5059249	11.62%	0.400%
158	19.825	5287	5299	5310	rVB9	547768	1417479	3.26%	0.112%
159	19.902	5313	5323	5329	rBV9	342332	683783	1.57%	0.054%
160	20.008	5346	5356	5365	rBV6	540924	1155077	2.65%	0.091%
161	20.076	5376	5377	5398	rVB9	656965	1294429	2.97%	0.102%
162	20.330	5445	5456	5463	rBV3	249744	531452	1.22%	0.042%
163	20.404	5477	5479	5504	rVB10	774724	2031518	4.67%	0.161%
164	20.542	5506	5522	5552	rBV10	1329993	5363249	12.32%	0.424%
165	20.706	5561	5573	5582	rBV4	481266	1168173	2.68%	0.092%
166	20.757	5582	5589	5605	rVB3	512269	1201819	2.76%	0.095%
167	20.876	5617	5626	5640	rVB3	264855	637630	1.46%	0.050%
168	21.024	5657	5672	5690	rVV6	1731355	5666787	13.02%	0.448%
169	21.085	5690	5691	5705	rVB7	398458	501602	1.15%	0.040%
170	21.481	5795	5814	5835	rVB6	313514	1215312	2.79%	0.096%
171	22.198	6021	6037	6041	rBV6	313685	708061	1.63%	0.056%
172	22.567	6136	6152	6168	rBV6	222587	833774	1.92%	0.066%
173	23.236	6344	6360	6379	rVB6	185213	650315	1.49%	0.051%

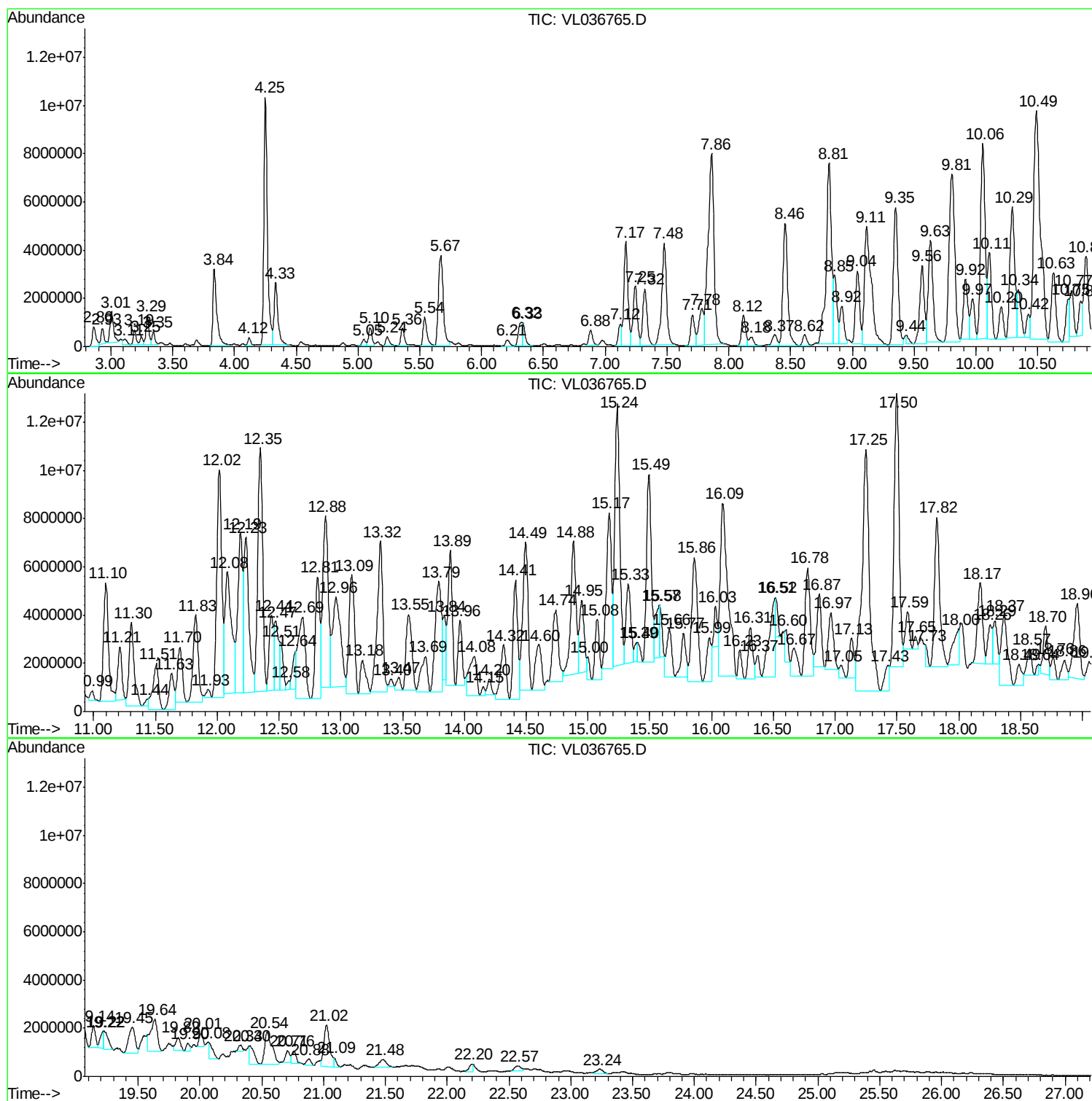
Sum of corrected areas: 1263781905

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SG-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-2

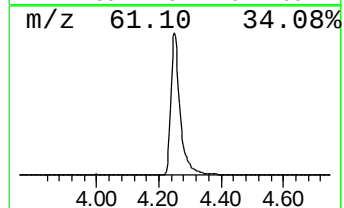
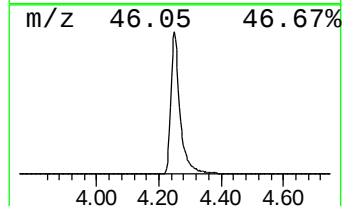
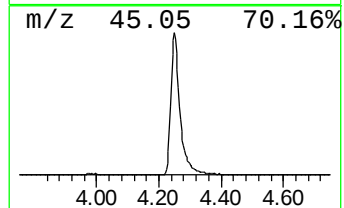
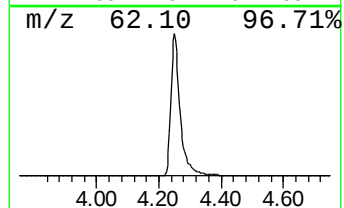
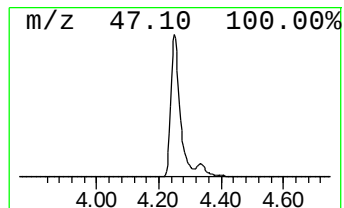
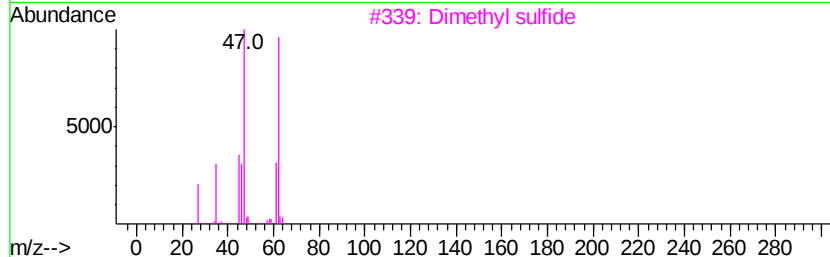
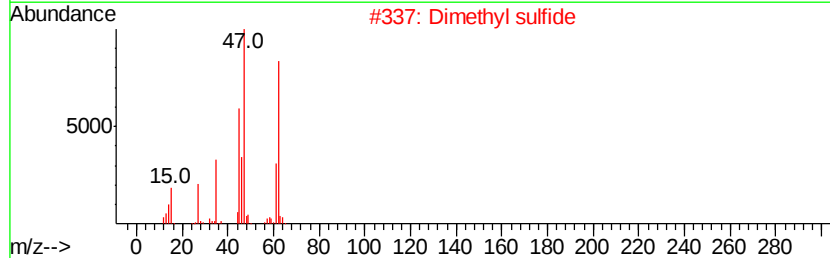
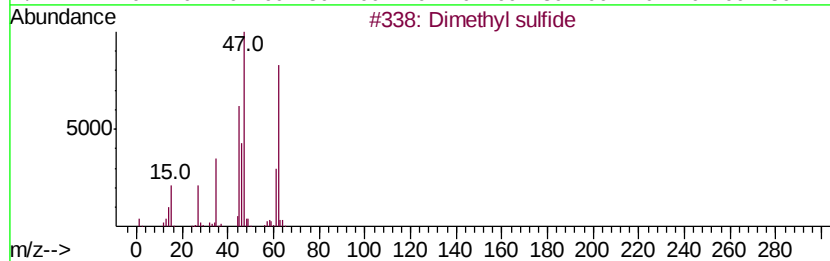
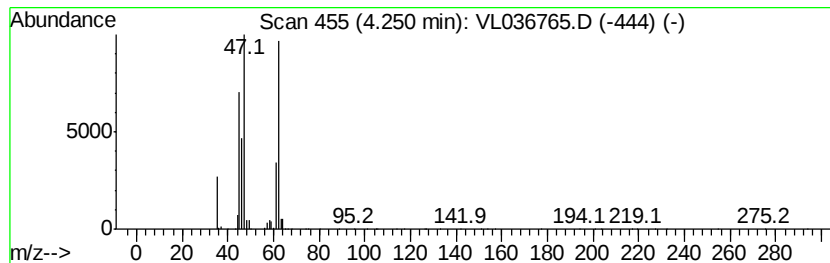
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 1 Dimethyl sulfide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.25	19.47 ppbv	20235700	Bromochloromethane	5.66

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl sulfide		62	C2H6S	000075-18-3	96
2	Dimethyl sulfide		62	C2H6S	000075-18-3	94
3	Dimethyl sulfide		62	C2H6S	000075-18-3	93
4	Dimethyl sulfide		62	C2H6S	000075-18-3	90
5	Borane-methyl sulfide complex		76	C2H9BS	013292-87-0	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

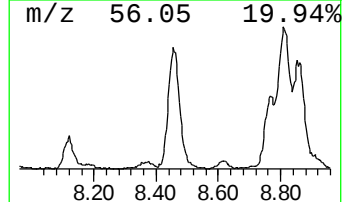
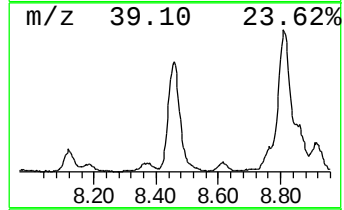
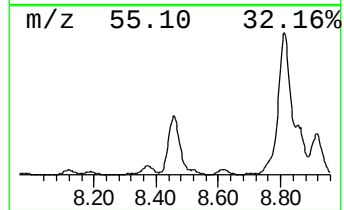
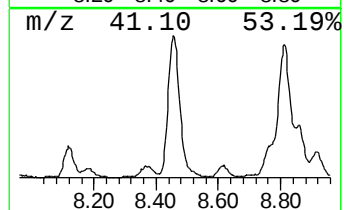
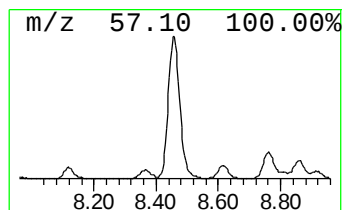
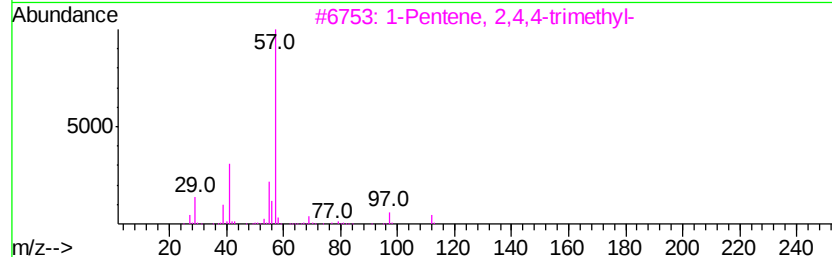
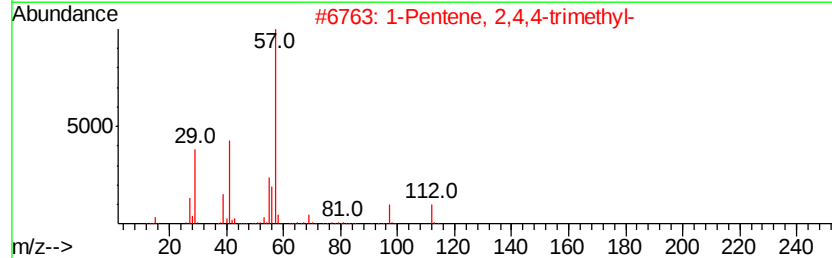
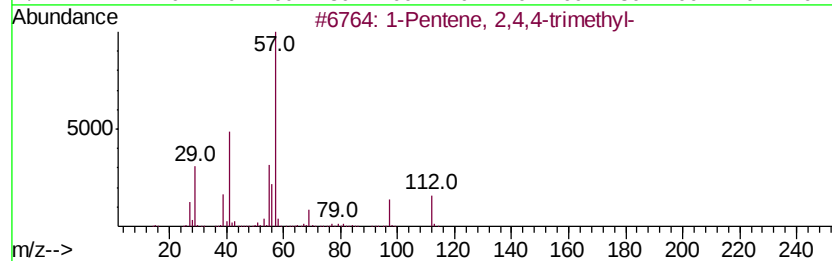
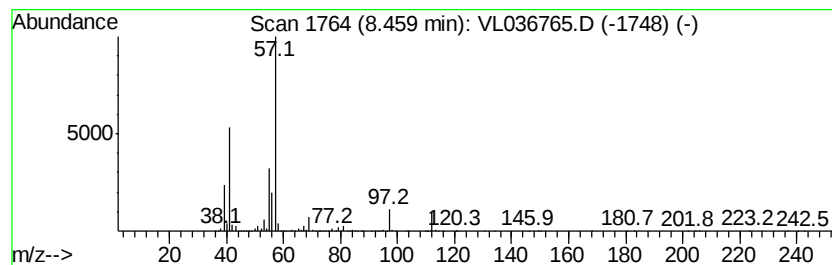
Instrument :
MSVOA_L
ClientSampleId :
SG-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 2 1-Pentene, 2,4,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
8.46	13.95 ppbv	13518000	1,4-Difluorobenzene	7.17	
Hit# of	5	Tentative ID	MW MolForm	CAS#	Qual
1	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	91
2	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	91
3	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	64
4	2-Hexene, 5,5-dimethyl-, (Z)-	112	C8H16	039761-61-0	59
5	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	53



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
SG-2

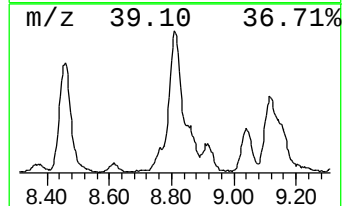
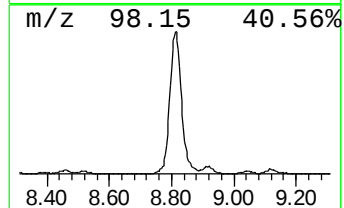
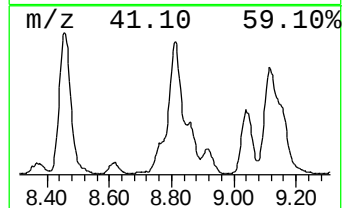
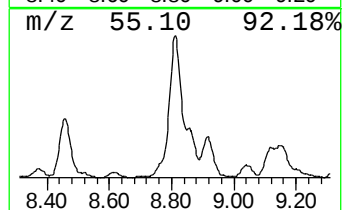
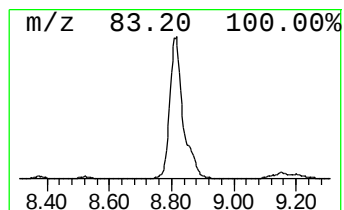
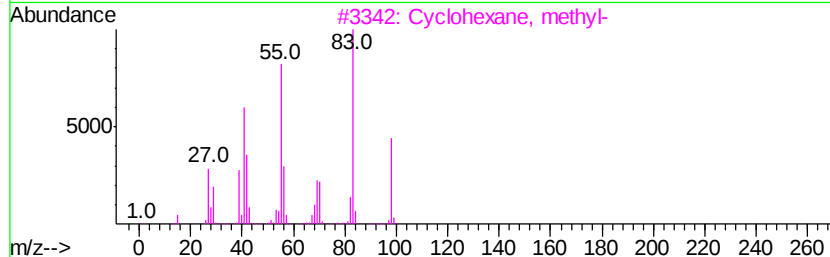
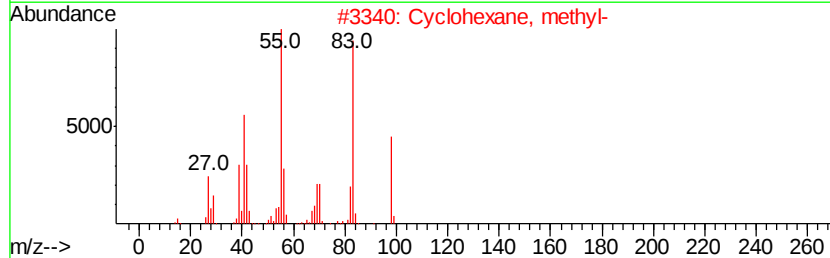
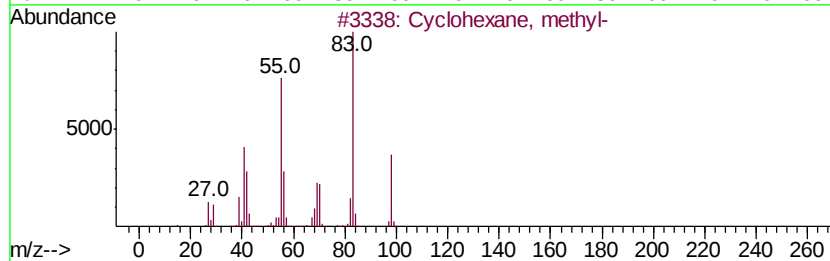
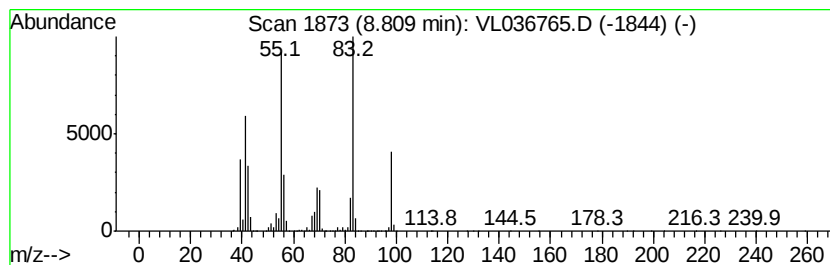
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 3 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.81	23.31 ppbv	22584700	1,4-Difluorobenzene	7.17

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2		Cyclohexane, methyl-	98	C7H14	000108-87-2	96
3		Cyclohexane, methyl-	98	C7H14	000108-87-2	96
4		Cyclohexane, methyl-	98	C7H14	000108-87-2	91
5		2-Pentene, 2,3-dimethyl-	98	C7H14	010574-37-5	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

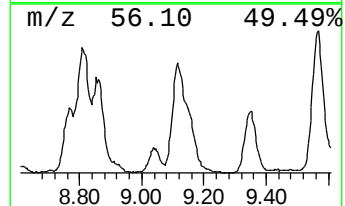
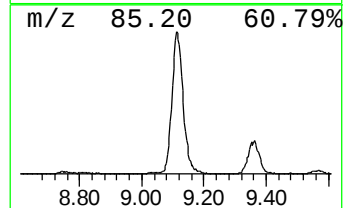
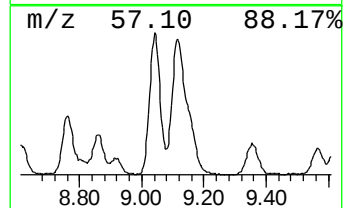
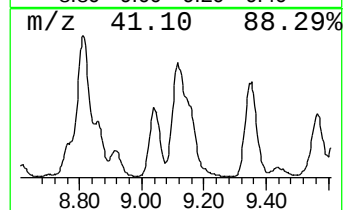
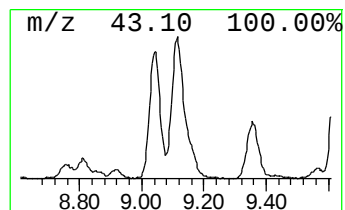
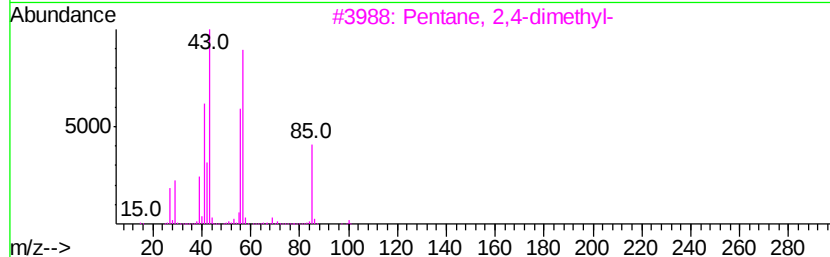
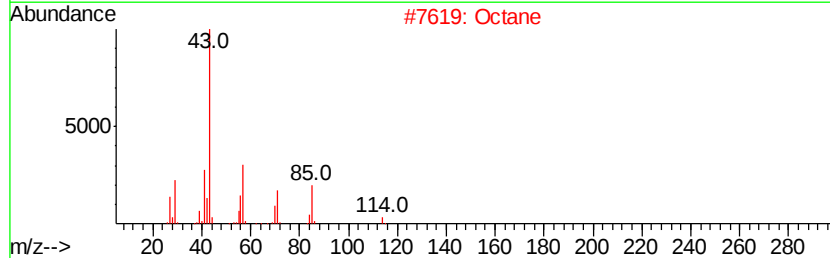
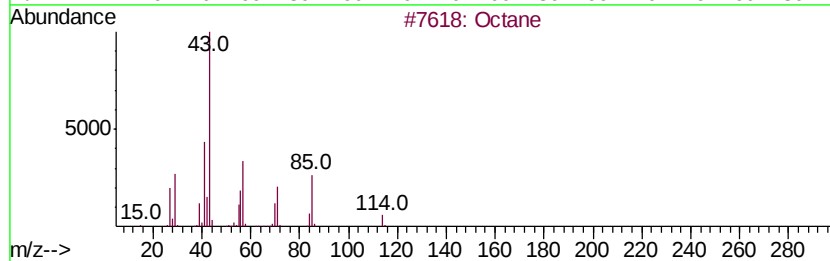
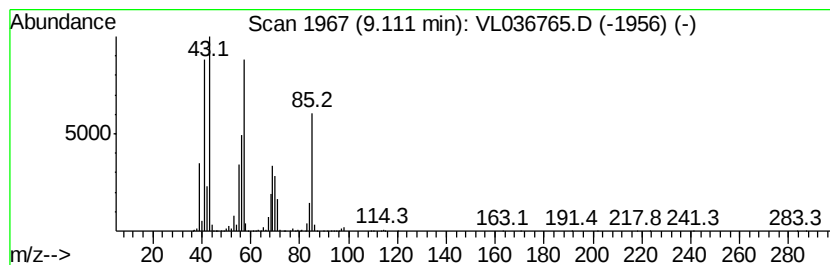
Instrument :
MSVOA_L
ClientSampled :
SG-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 4 Octane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.11	19.34 ppbv	18738500	1,4-Difluorobenzene	7.17
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Octane		114 C8H18	000111-65-9 72
2	Octane		114 C8H18	000111-65-9 64
3	Pentane, 2,4-dimethyl-		100 C7H16	000108-08-7 53
4	Oxetane, 2-ethyl-3-methyl-		100 C6H12O	053778-62-4 50
5	Oxirane, (2-methylbutyl)-		114 C7H14O	053229-42-8 50



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
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Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

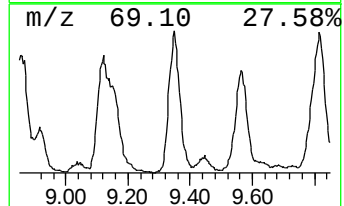
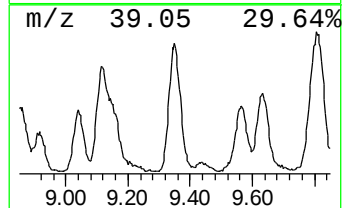
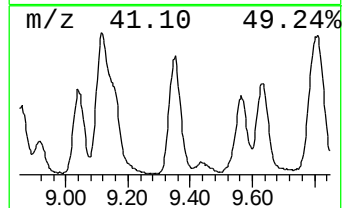
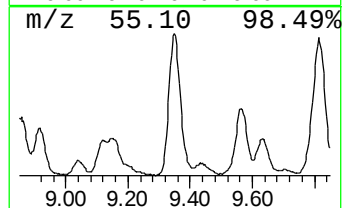
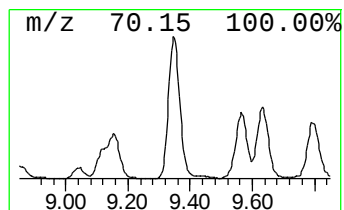
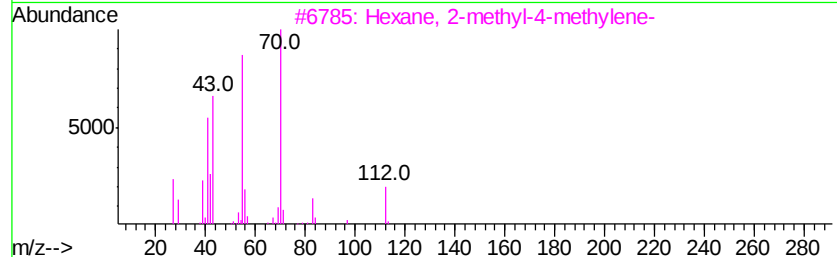
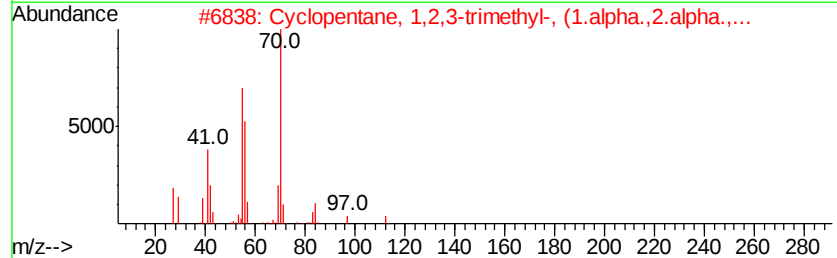
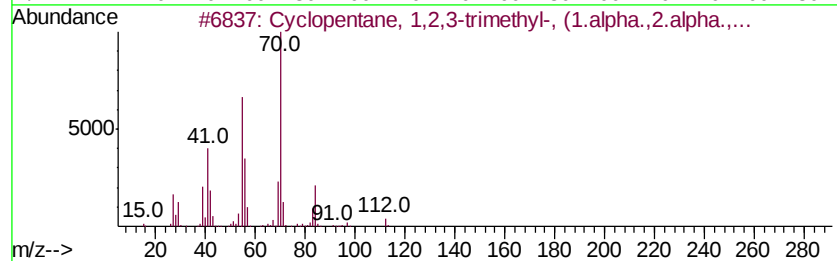
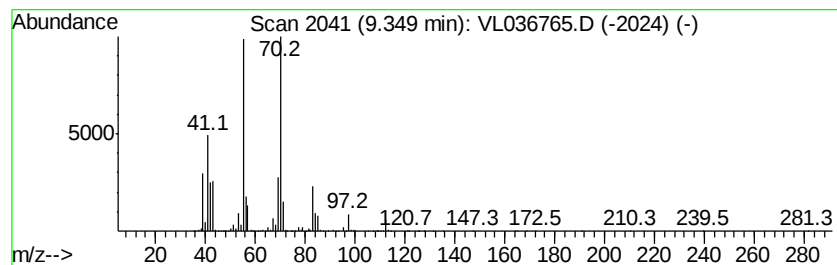
Instrument :
MSVOA_L
ClientSampled :
SG-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 5 Cyclopentane, 1,2,3-trimeth... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	15.48 ppbv	14992600	1,4-Difluorobenzene	7.17
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Cyclopentane, 1,2,3-trimethyl-, ...	112 C8H16	002613-69-6 80
2		Cyclopentane, 1,2,3-trimethyl-, ...	112 C8H16	002613-69-6 72
3		Hexane, 2-methyl-4-methylene-	112 C8H16	003404-80-6 72
4		Cyclopentane, 1,3-dimethyl-, cis-	98 C7H14	002532-58-3 72
5		Cyclopentane, 1,2,4-trimethyl-	112 C8H16	002815-58-9 64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
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Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

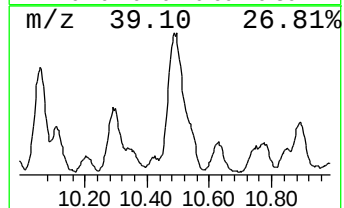
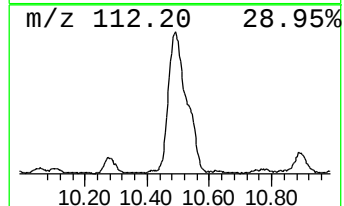
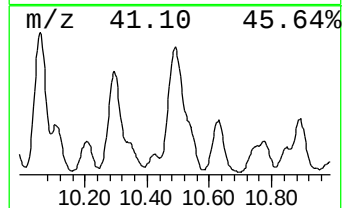
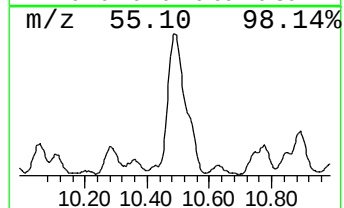
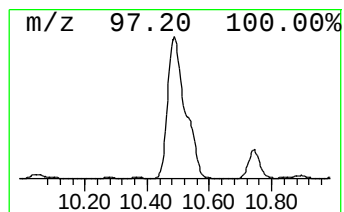
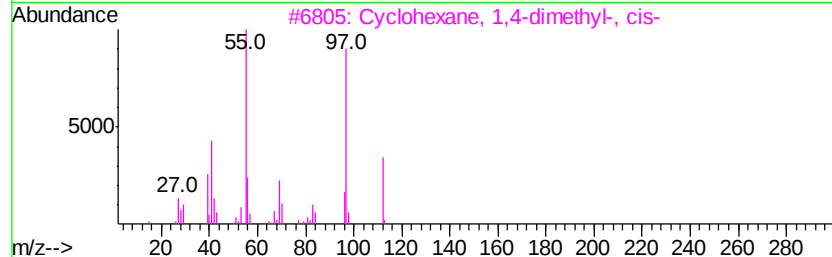
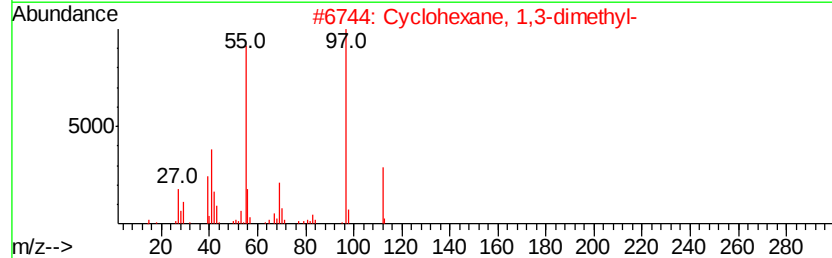
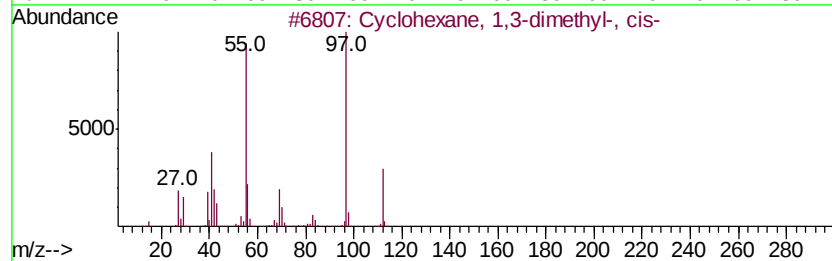
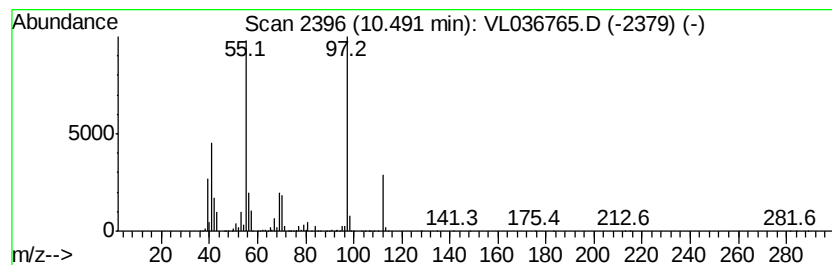
Instrument :
MSVOA_L
ClientSampleId :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 6 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.49	18.93 ppbv	36172300	Chlorobenzene-d5	12.08	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cvclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
2	Cvclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	91
3	Cvclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
4	Cvclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
5	Cvclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
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Acq On : 9 Apr 2021 1:04
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Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-2

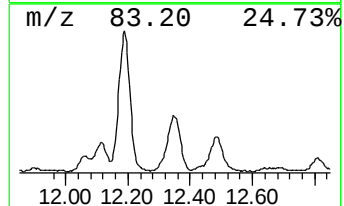
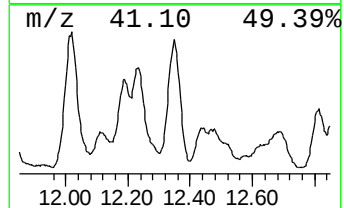
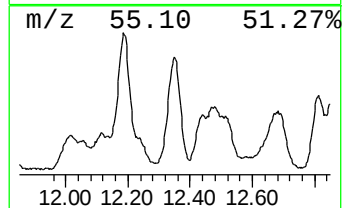
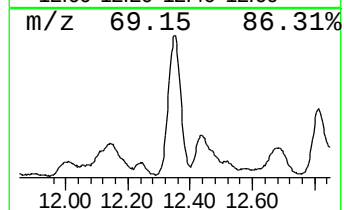
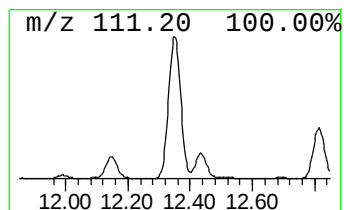
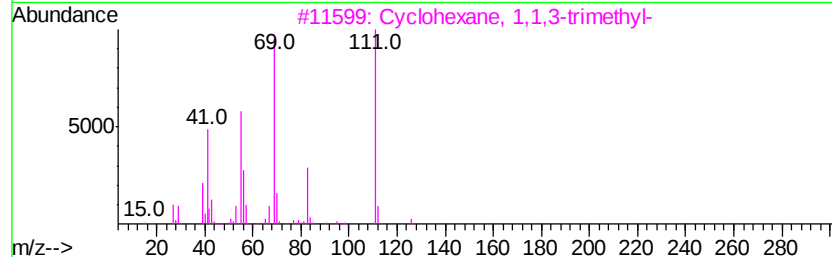
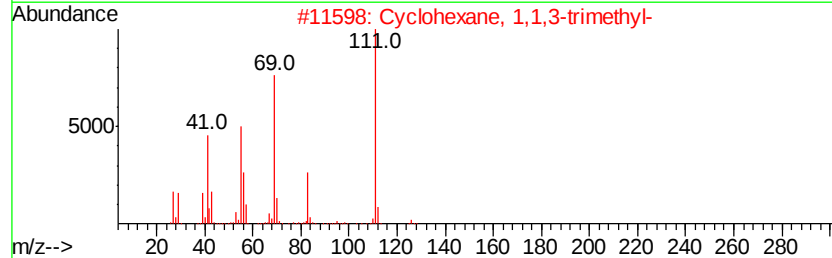
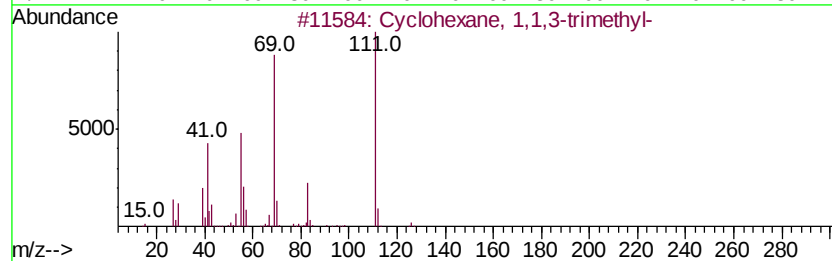
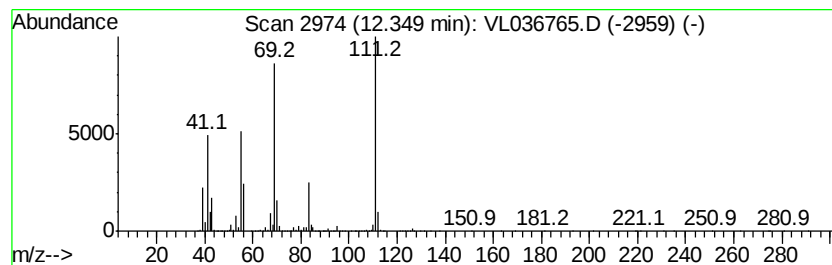
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 7 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	14.47 ppbv	27661800	Chlorobenzene-d5	12.08

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
2		Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
3		Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
4		Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
5		Cyclohexane, 1,3,5-trimethyl-, (...)	126	C9H18	001795-27-3	78



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

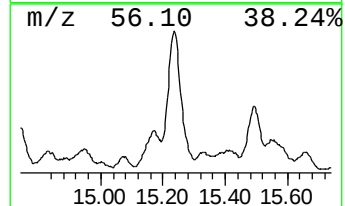
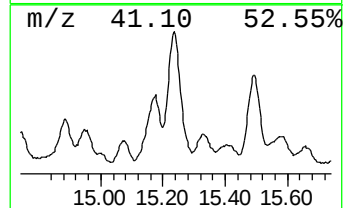
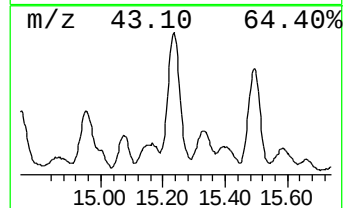
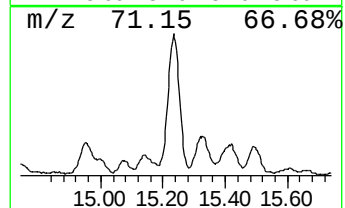
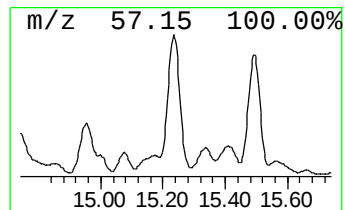
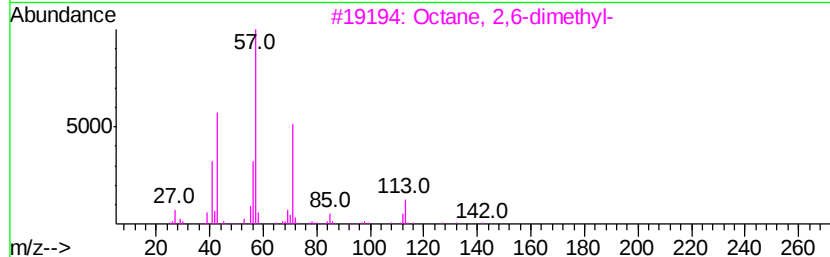
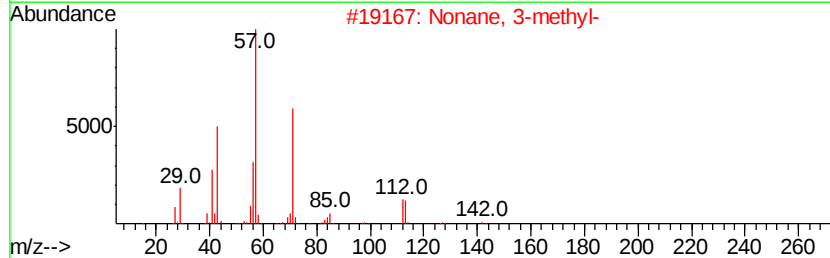
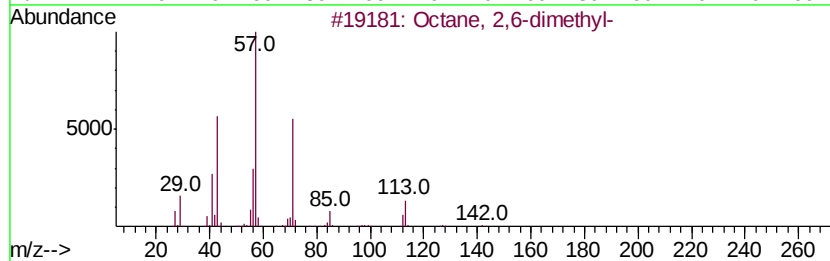
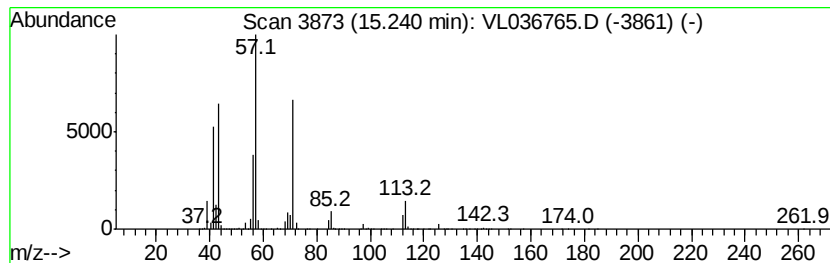
Instrument :
MSVOA_L
ClientSampled :
SG-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 8 Octane, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.24	16.04 ppbv	30654000	Chlorobenzene-d5	12.08		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane,	2,6-dimethyl-	142	C10H22	002051-30-1	93
2	Nonane,	3-methyl-	142	C10H22	005911-04-6	90
3	Octane,	2,6-dimethyl-	142	C10H22	002051-30-1	87
4	Nonane,	3-methyl-	142	C10H22	005911-04-6	83
5	Nonane,	3-methyl-	142	C10H22	005911-04-6	81



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

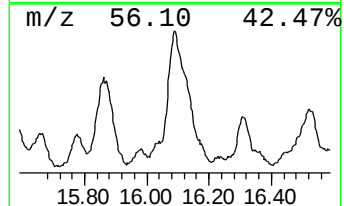
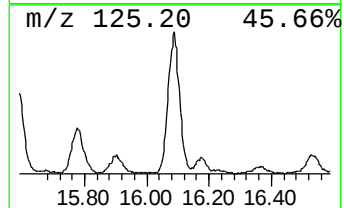
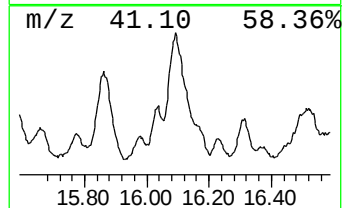
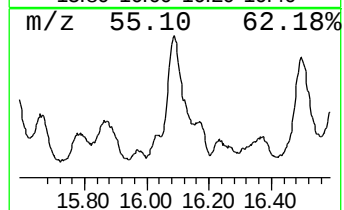
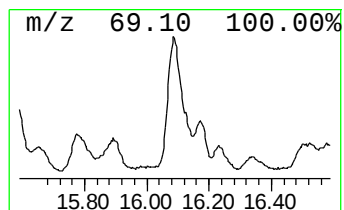
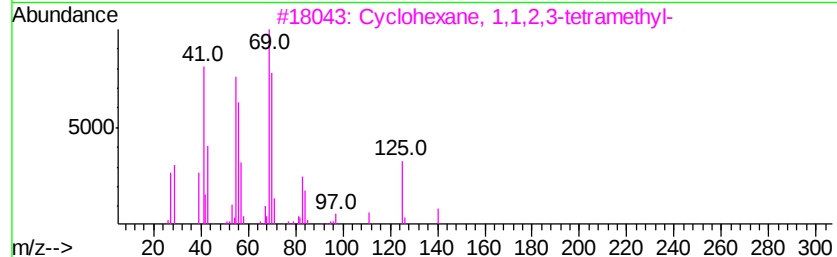
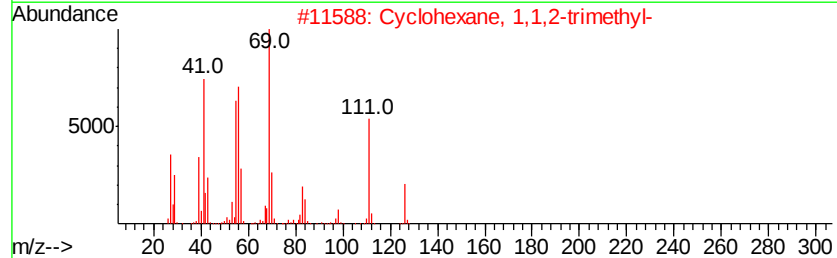
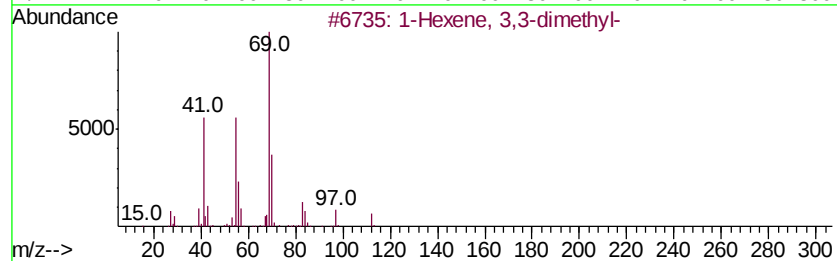
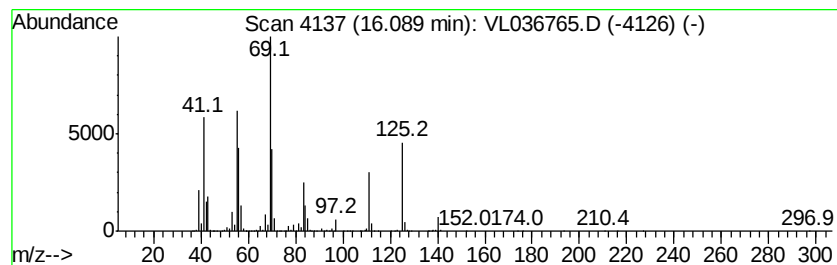
Instrument :
MSVOA_L
ClientSampleId :
SG-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 9 unknown16.09 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.09	16.08 ppbv	30725900	Chlorobenzene-d5	12.08	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 3,3-dimethyl-	112	C8H16	003404-77-1	49
2	Cyclohexane, 1,1,2-trimethyl-	126	C9H18	007094-26-0	49
3	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	43
4	3-Hexene, 2,5-dimethyl-	112	C8H16	015910-22-2	43
5	Cyclopropane, 1,1-dimethyl-2-pen...	140	C10H20	062167-97-9	38



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036765.D
Acq On : 9 Apr 2021 1:04
Operator : SY/AP
Sample : M1981-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

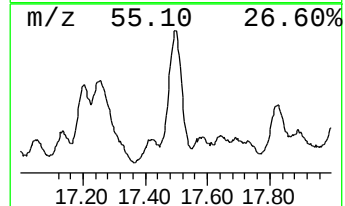
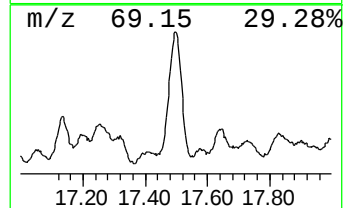
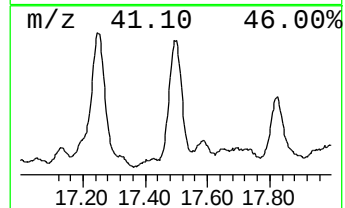
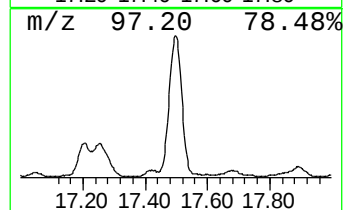
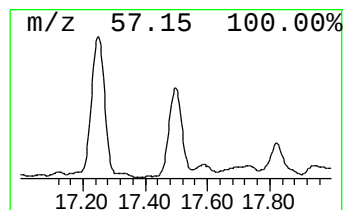
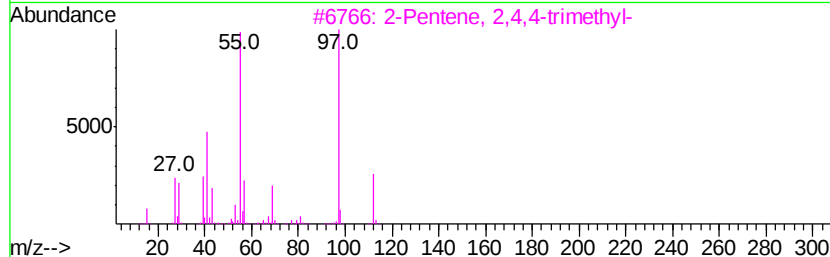
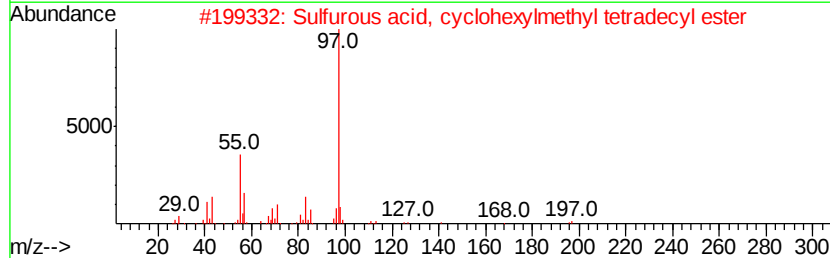
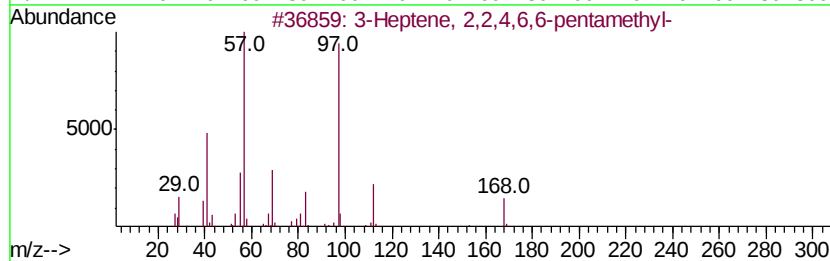
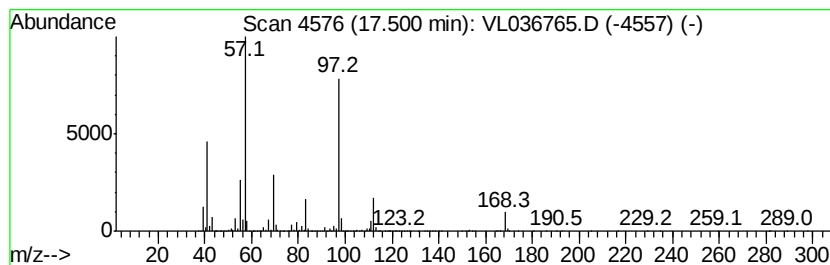
Instrument :
MSVOA_L
ClientSampleId :
SG-2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

Peak Number 10 3-Heptene, 2,2,4,6,6-pentam... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.50	16.83 ppbv	32169200	Chlorobenzene-d5	12.08	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptene, 2,2,4,6,6-pentamethyl-	168	C12H24	000123-48-8	91
2	Sulfurous acid, cyclohexylmethyl...	374	C21H42O3S	1000309-22-2	59
3	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	58
4	2-Pentene, 3,4,4-trimethyl-	112	C8H16	000598-96-9	58
5	Thiophene, 2-ethyl-	112	C6H8S	000872-55-9	58



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
 Data File : VL036765.D
 Acq On : 9 Apr 2021 1:04
 Operator : SY/AP
 Sample : M1981-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Dimethyl sulfide	4.25	19.5	ppbv	20235700	1	5.66	10393600	10.0
1-Pentene, 2,4,4-...	8.46	13.9	ppbv	13518000	2	7.17	9687130	10.0
Cyclohexane, methyl-	8.81	23.3	ppbv	22584700	2	7.17	9687130	10.0
Octane	9.11	19.3	ppbv	18738500	2	7.17	9687130	10.0
Cyclopentane, 1,2...	9.35	15.5	ppbv	14992600	2	7.17	9687130	10.0
Cyclohexane, 1,3-...	10.49	18.9	ppbv	36172300	3	12.08	19112400	10.0
Cyclohexane, 1,1,...	12.35	14.5	ppbv	27661800	3	12.08	19112400	10.0
Octane, 2,6-dimet...	15.24	16.0	ppbv	30654000	3	12.08	19112400	10.0
unknown16.09	16.09	16.1	ppbv	30725900	3	12.08	19112400	10.0
3-Heptene, 2,2,4,...	17.50	16.8	ppbv	32169200	3	12.08	19112400	10.0