LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.392	85	94	108	rBV	391240	410693	3.54%	0.376%
2	1.466	110	117	127	rVV	102060	119970	1.03%	0.110%
3	1.672	172	181	194	rVB	306887	394277	3.40%	0.361%
4	2.257	352	363	370	rBV	543043	825618	7.12%	0.756%
5	2.306	370	378	402	rVB	911899	1451048	12.51%	1.330%
6	2.428	404	416	437	rBV	403309	712621	6.14%	0.653%
7	2.685	482	496	516	rBV2	264035	495874	4.27%	0.454%
8	4.068	912	926	942	rVB3	34261	90309	0.78%	0.083%
9	4.225	942	975	1004	rBV6	272595	1144906	9.87%	1.049%
10	4.650	1092	1107	1128	rVV	427060	1034065	8.91%	0.947%
11	4.971	1192	1207	1224	rBV2	54355	132043	1.14%	0.121%
12	5.315	1290	1314	1323	rBV2	928551	2730803	23.54%	2.502%
13	5.363	1324	1329	1349	rVB	583489	1144778	9.87%	1.049%
14	5.862	1470	1484	1501	rBV	749140	1485465	12.81%	1.361%
15	6.164	1564	1578	1602	rBV	817665	1627626	14.03%	1.491%
16	6.305	1609	1622	1637	rBV2	629632	1263538	10.89%	1.158%
17	6.399	1640	1651	1666	rVB3	105813	236845	2.04%	0.217%
18	7.206	1892	1902	1920	rVB2	364038	647820	5.58%	0.594%
19	7.437	1955	1974	1990	rBV	4031959	7012709	60.46%	6.425%
20	7.543	1996	2007	2017	rBV	1255644	2082720	17.95%	1.908%
21	7.614	2017	2029	2044	rVB	6961613	11599860	100.00%	10.628%
22	7.826	2079	2095	2103	rBV2	242208	449561	3.88%	0.412%
23	7.884	2103	2113	2151	rVB	2236030	4354586	37.54%	3.990%
24	8.206	2203	2213	2226	rVB3	144893	243787	2.10%	0.223%
25	8.325	2230	2250	2273	rBV8	793066	2190611	18.88%	2.007%
26	8.440	2278	2286	2303	rVV10	59115	161731	1.39%	0.148%
27	9.013	2451	2464	2470	rBV3	72594	135947	1.17%	0.125%
28	9.067	2470	2481	2492	rBV	1068904	1726202	14.88%	1.582%
29	9.228	2518	2531	2542	rBV	1558893	2520128	21.73%	2.309%
30	9.350	2556	2569	2585	rBV	5443460	8934535	77.02%	8.186%
31	9.421	2585	2591	2601	rVV2	132470	215143	1.85%	0.197%
32	9.698	2664	2677	2684	rBV7	52181	125595	1.08%	0.115%
33	9.755	2684	2695	2731	rVB	3593575	5918515	51.02%	5.423%
34	9.900	2731	2740	2745	rBV	112013	177064	1.53%	0.162%

LSC Area Percent Report

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Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Title : VOC Analysis

35	10.022	2770	2778	2787	rBV7	80053	137703	1.19%	0.126%
36	10.141	2806	2815	2826	rVB	134578	214830	1.85%	0.197%
37	10.566	2936	2947	2957	rBV	296322	495581	4.27%	0.454%
38	10.656	2965	2975	2992	rBV	1302974	2636019	22.72%	2.415%
39	10.749	2993	3004	3012	rBV	850145	1305743	11.26%	1.196%
40	10.894	3040	3049	3057	rBV	162430	265098	2.29%	0.243%
41	10.948	3057	3066	3088	rVB	743483	1247537	10.75%	1.143%
42	11.125	3105	3121	3137	rBV	3106408	4782852	41.23%	4.382%
43	11.234	3146	3155	3168	rBV	412262	699514	6.03%	0.641%
44	11.324	3171	3183	3194	rBV4	160165	409085	3.53%	0.375%
45	11.460	3215	3225	3241	rVV	1064122	1677950	14.47%	1.537%
46	11.546	3242	3252	3276	rVB	1358249	2125319	18.32%	1.947%
47	11.739	3300	3312	3322	rBV3	1311343	2681016	23.11%	2.456%
48	11.839	3333	3343	3367	rVB4	1492562	3178198	27.40%	2.912%
49	11.958	3373	3380	3387	rBV2	102800	153816	1.33%	0.141%
50	12.032	3399	3403	3419	rVB	153763	229970	1.98%	0.211%
51	12.122	3423	3431	3436	rBV	212906	316445	2.73%	0.290%
52	12.228	3456	3464	3471	rBV	271829	374444	3.23%	0.343%
53	12.331	3488	3496	3504	rBV2	249158	434187	3.74%	0.398%
54	12.472	3534	3540	3549	rVB4	74159	120211	1.04%	0.110%
55	12.527	3551	3557	3568	rVB3	124390	203925	1.76%	0.187%
56	12.595	3570	3578	3582	rBV4	111716	175814	1.52%	0.161%
57	12.627	3582	3588	3596	rVB	233268	338342	2.92%	0.310%
58	12.681	3597	3605	3623	rVB	349785	615504	5.31%	0.564%
59	12.765	3624	3631	3637	rBV2	110644	169379	1.46%	0.155%
60	12.942	3679	3686	3699	rVB	327020	497980	4.29%	0.456%
61	13.009	3700	3707	3715	rBV3	92660	137048	1.18%	0.126%
62	13.061	3716	3723	3727	rBV2	116260	167904	1.45%	0.154%
63	13.103	3727	3736	3749	rVV4	665263	1184312	10.21%	1.085%
64	13.164	3751	3755	3764	rVB4	146836	201574	1.74%	0.185%
65	13.215	3765	3771	3777	rBV	76770	93439	0.81%	0.086%
66	13.263	3778	3786	3795	rBV4	184303	328830	2.83%	0.301%
67	13.382	3815	3823	3831	rVB4	110922	181432	1.56%	0.166%
68	13.434	3831	3839	3847	rBV2	149605	214930	1.85%	0.197%
69	13.485	3847	3855	3862	rBV3	232539	381915	3.29%	0.350%
70	13.720	3918	3928	3938	rVB	1933379	2981773	25.71%	2.732%
71	13.836	3954	3964	3982	rVB5	309375	682254	5.88%	0.625%

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Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Title : VOC Analysis

72	13.932	3986	3994	4003	rBV5	176750	335516	2.89%	0.307%
73	14.125	4046	4054	4069	rBV3	216453	434577	3.75%	0.398%
74	14.328	4103	4117	4129	rBV4	428966	918869	7.92%	0.842%
75	14.456	4150	4157	4166	rBV3	109278	171682	1.48%	0.157%
76	14.521	4170	4177	4188	rVB5	221208	415510	3.58%	0.381%
77	14.585	4189	4197	4209	rBV7	77760	155981	1.34%	0.143%
78	14.656	4211	4219	4236	rBV4	194959	420039	3.62%	0.385%
79	14.848	4269	4279	4292	rBV2	798971	1662249	14.33%	1.523%
80	14.913	4293	4299	4313	rVB3	248109	437739	3.77%	0.401%
81	14.990	4317	4323	4329	rBV2	100334	134866	1.16%	0.124%
82	15.038	4331	4338	4352	rBV2	308928	553205	4.77%	0.507%
83	15.106	4354	4359	4365	rBV3	100833	123610	1.07%	0.113%
84	15.221	4388	4395	4406	rVB4	133434	258914	2.23%	0.237%
85	15.565	4494	4502	4518	rVB3	297639	717217	6.18%	0.657%
86	15.646	4520	4527	4534	rBV6	135124	209567	1.81%	0.192%
87	15.781	4561	4569	4591	rVB4	228443	560862	4.84%	0.514%
88	15.893	4592	4604	4616	rBV	623715	1211874	10.45%	1.110%
89	16.038	4641	4649	4656	rBV	667353	1056941	9.11%	0.968%
90	16.077	4656	4661	4678	rVB	440586	733599	6.32%	0.672%
91	16.266	4715	4720	4737	rVB4	160255	309442	2.67%	0.284%
92	16.411	4760	4765	4773	rVB2	86047	110600	0.95%	0.101%
93	16.514	4790	4797	4810	rVB	197927	316469	2.73%	0.290%
94	16.749	4863	4870	4881	rVV	167452	258638	2.23%	0.237%
95	16.803	4882	4887	4894	rVB4	72249	99355	0.86%	0.091%
96	16.948	4927	4932	4940	rVB	197402	258900	2.23%	0.237%
97	16.996	4940	4947	4958	rVB	209929	325437	2.81%	0.298%
98	17.144	4986	4993	5004	rVB3	203512	318212	2.74%	0.292%
99	17.205	5005	5012	5020	rBV3	137499	216610	1.87%	0.198%
100	17.344	5042	5055	5084	rVB7	152329	575533	4.96%	0.527%

Sum of corrected areas: 109140879

LSC Report - Integrated Chromatogram

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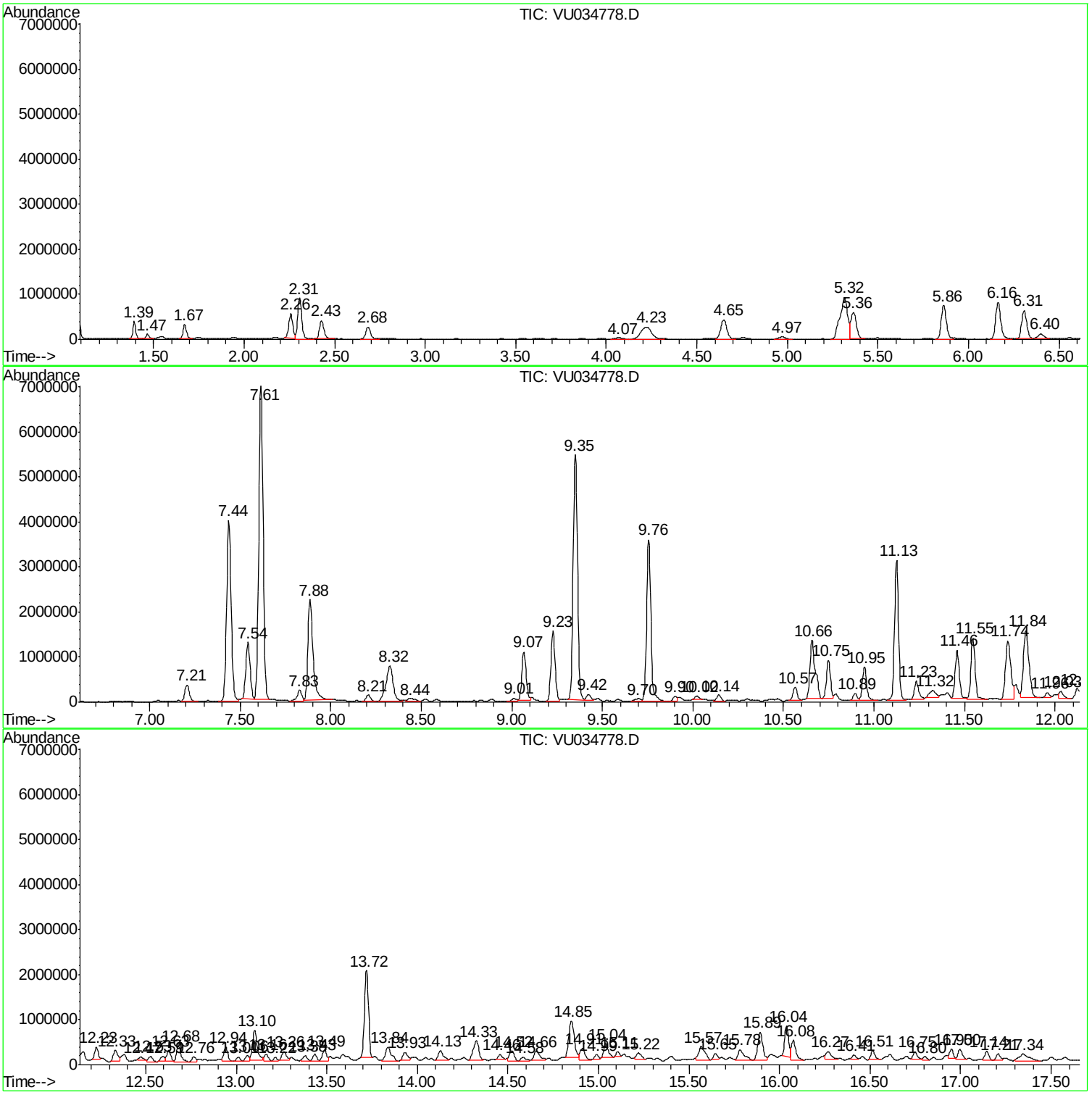
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

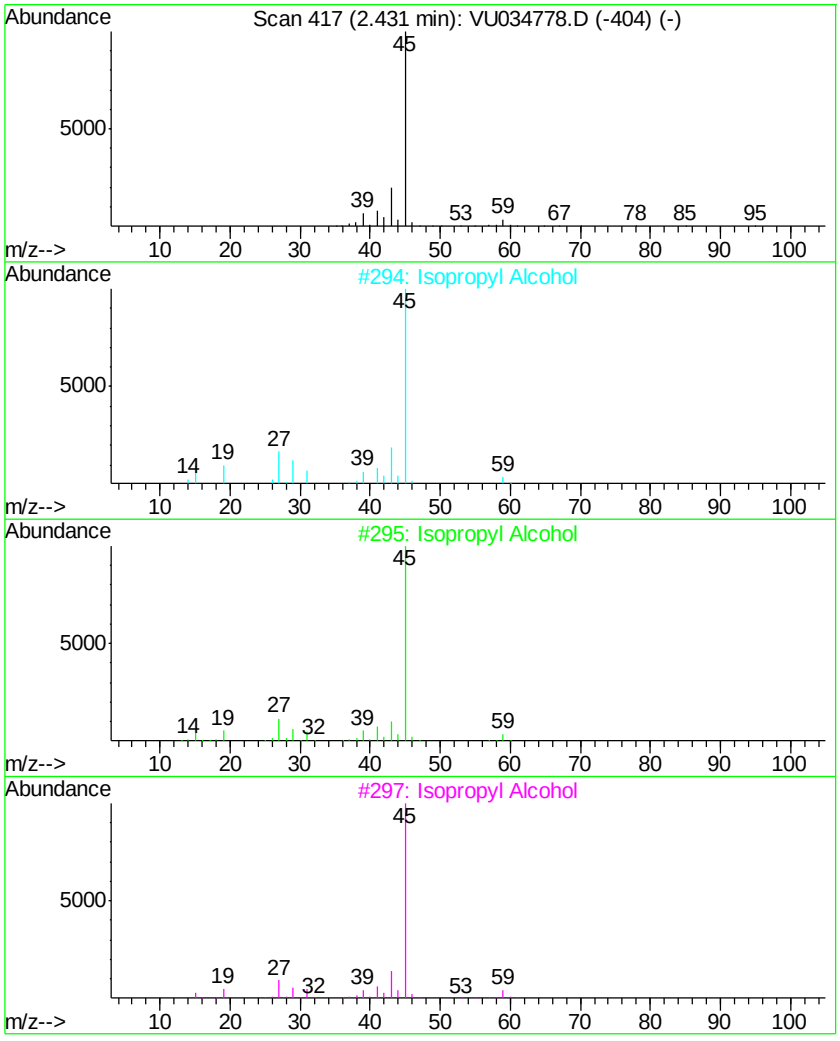
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

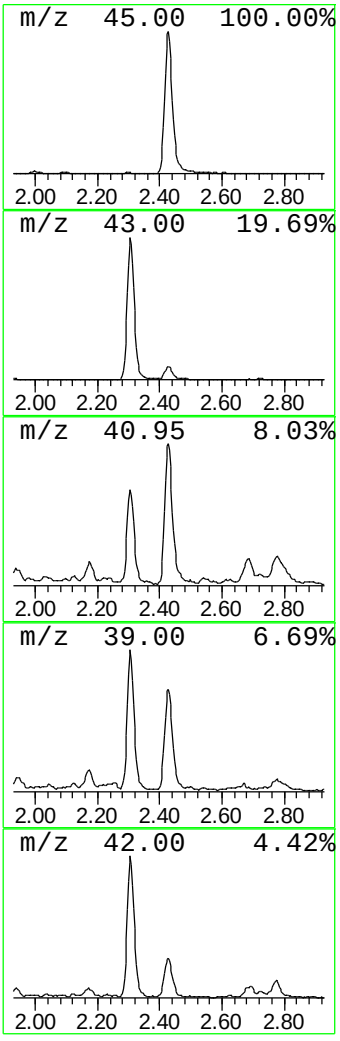
****

Peak Number 2 Isopropyl Alcohol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.43	23.99 ug/L	712621	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	83
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
4	Hydrazine, 1,2-dimethyl-	60	C2H8N2	000540-73-8	9
5	Hydrazine, 1,2-dimethyl-	60	C2H8N2	000540-73-8	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

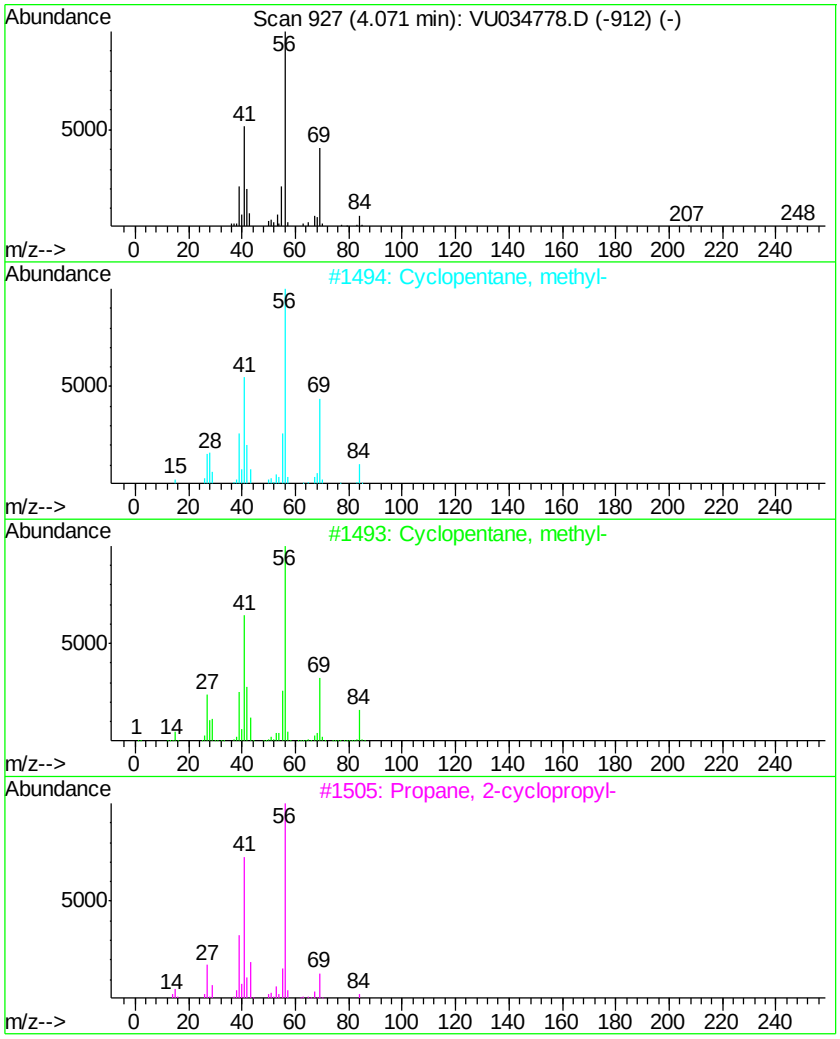
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

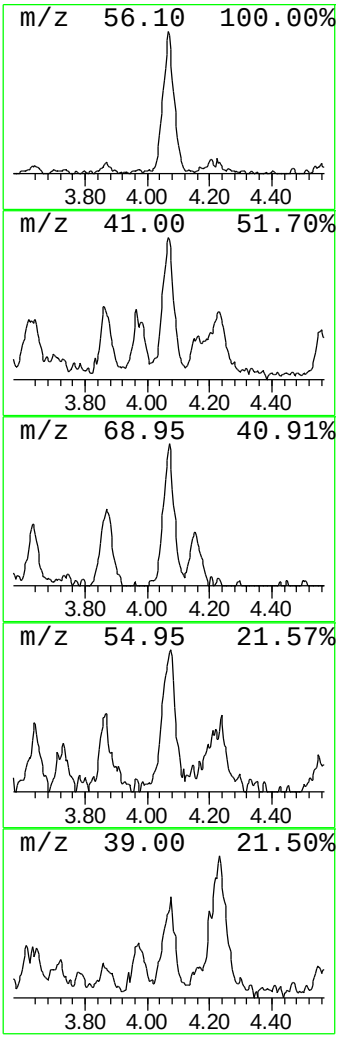
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Cyclic4.07 Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.07	3.04 ug/L	90309	1,4-Difluorobenzene	5.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3	Propane, 2-cyclopropyl-	84	C6H12	003638-35-5	72
4	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64
5	Cyclohexane	84	C6H12	000110-82-7	64





Library Search Compound Report

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ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

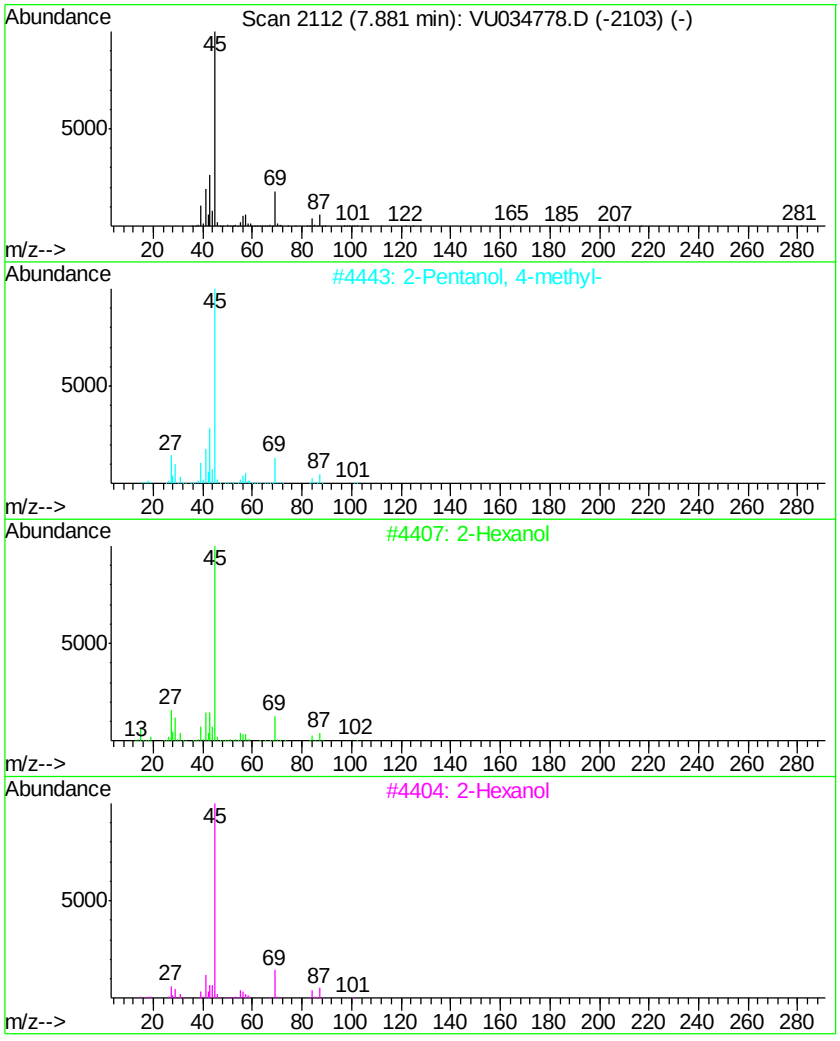
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

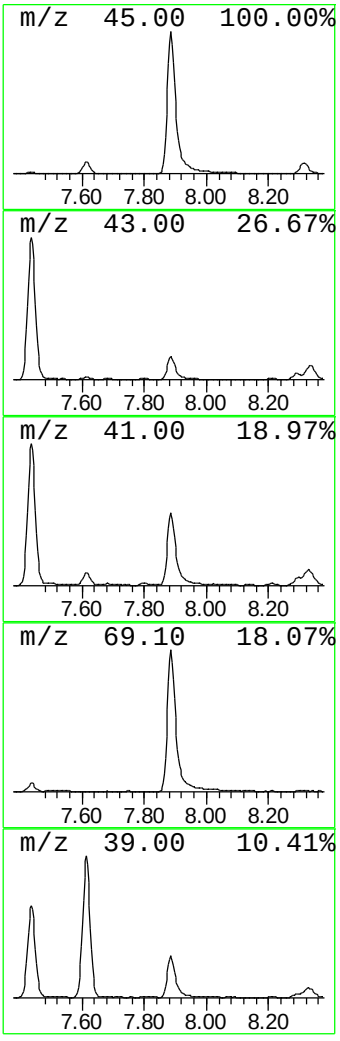
****

Peak Number 5 2-Pentanol, 4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.88	126.13 ug/L	4354590	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 4-methyl-	102	C6H14O	000108-11-2	83
2	2-Hexanol	102	C6H14O	000626-93-7	83
3	2-Hexanol	102	C6H14O	000626-93-7	78
4	2-Hexanol	102	C6H14O	000626-93-7	78
5	2-Pentanol, 4-methyl-	102	C6H14O	000108-11-2	64





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ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

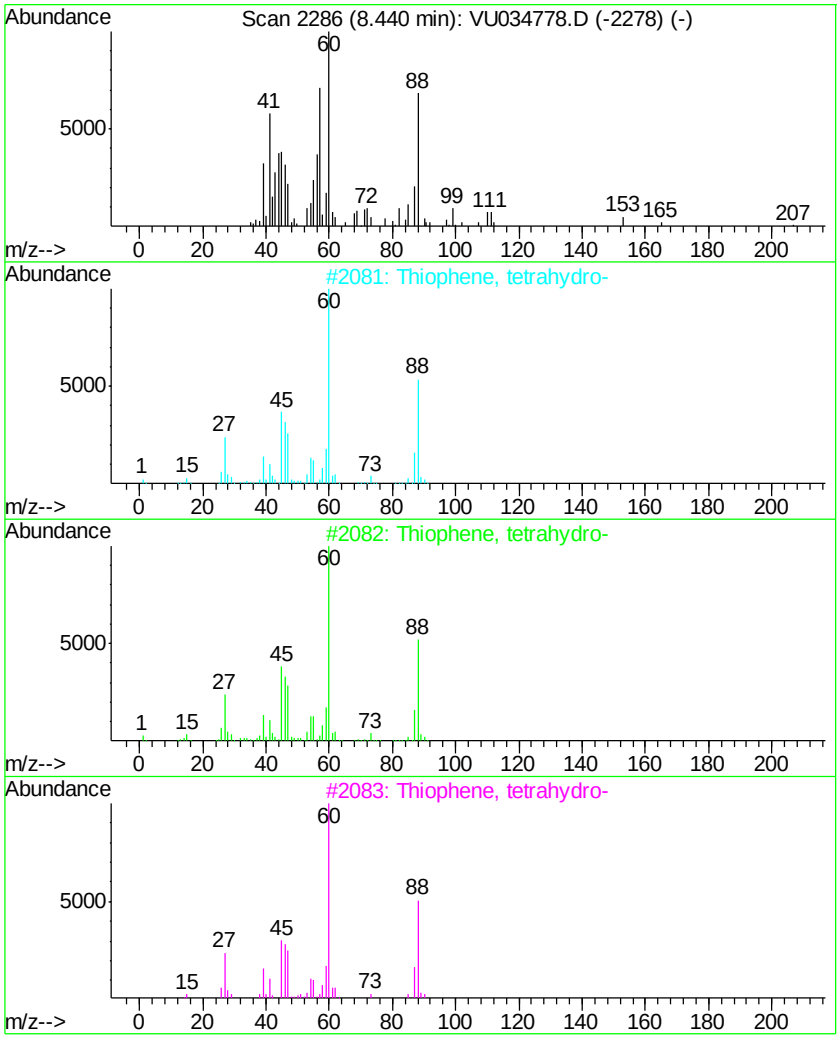
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

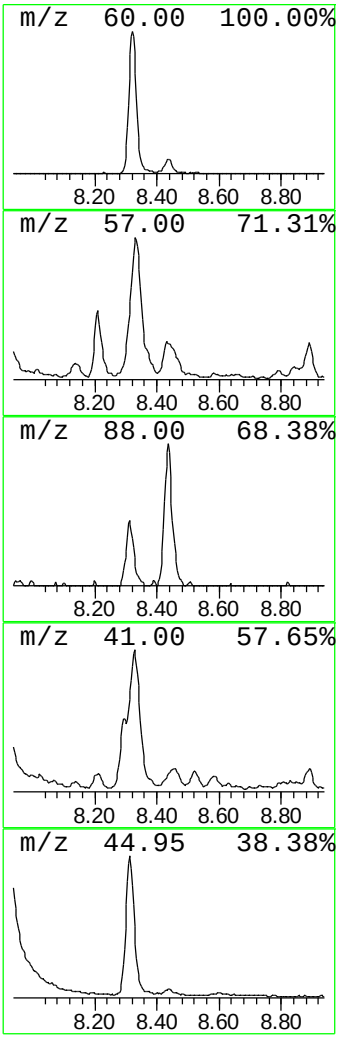
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Thiophene, tetrahydro- Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.44	4.68 ug/L	161731	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, tetrahydro-	88	C4H8S	000110-01-0	93
2	Thiophene, tetrahydro-	88	C4H8S	000110-01-0	89
3	Thiophene, tetrahydro-	88	C4H8S	000110-01-0	76
4	Phospholane	88	C4H9P	003466-00-0	72
5	Ethylvinyl sulfide	88	C4H8S	000627-50-9	47





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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

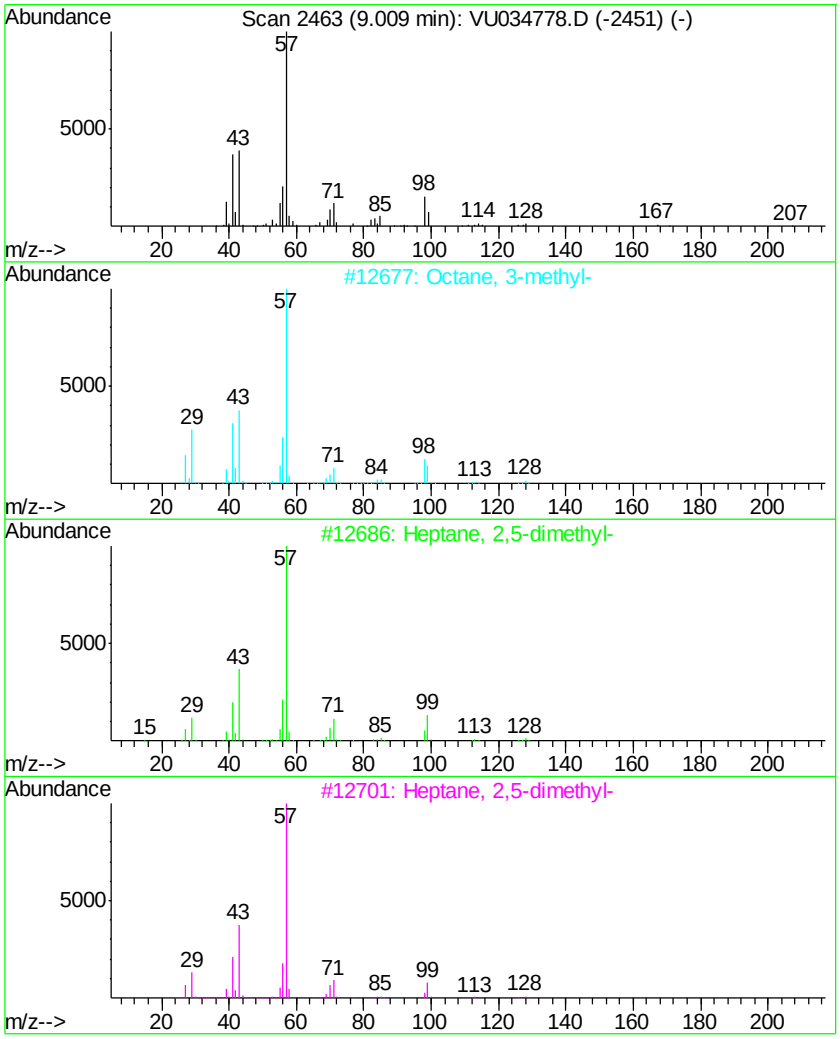
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

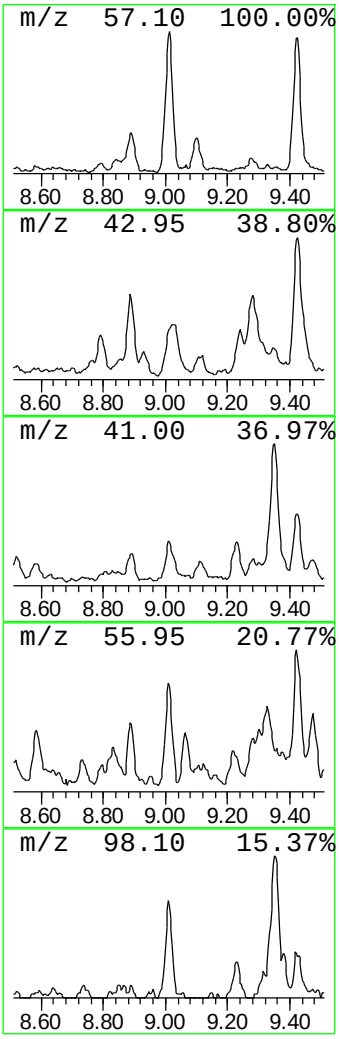
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.01	3.94 ug/L	135947	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	83
2	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72
4	Decane, 2,5-dimethyl-	170	C12H26	017312-50-4	72
5	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	68





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

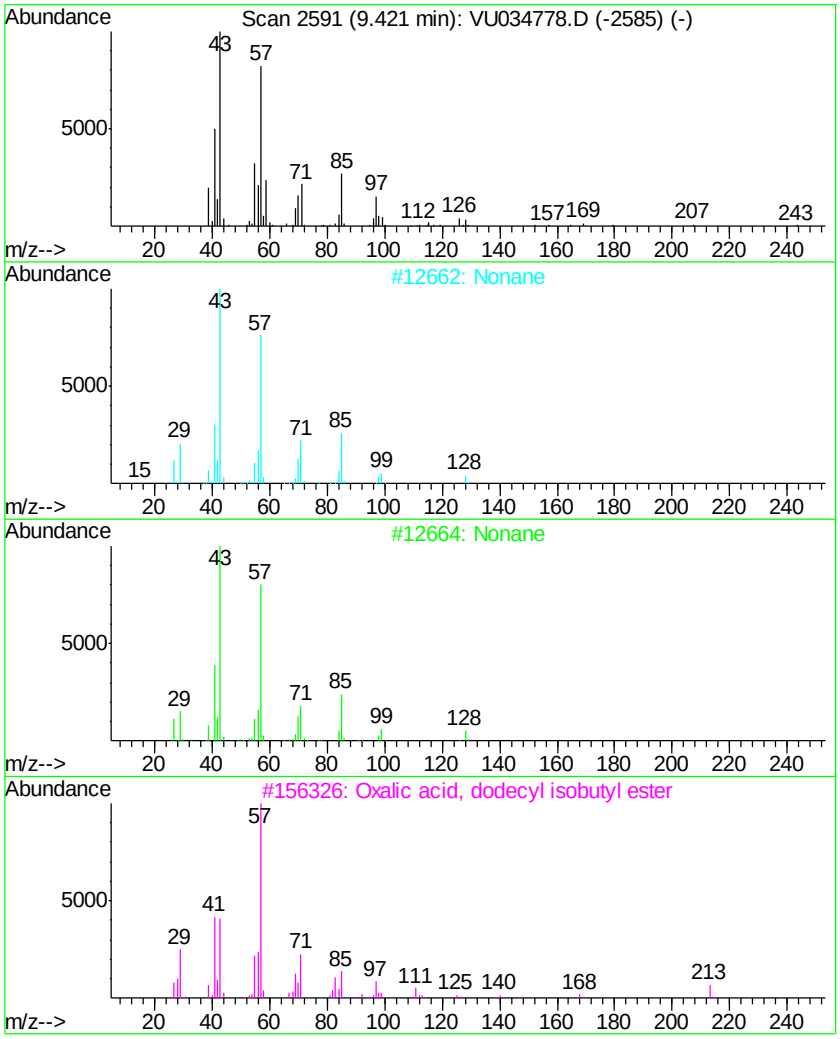
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

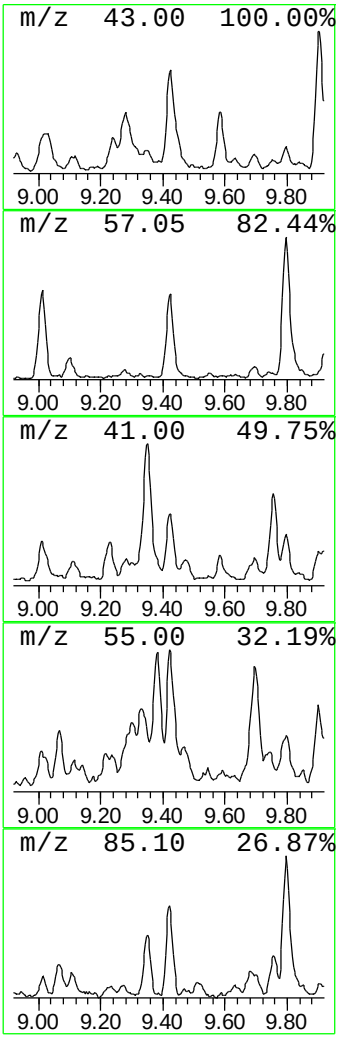
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	6.23 ug/L	215143	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane	128	C9H20	000111-84-2	64
2	Nonane	128	C9H20	000111-84-2	58
3	Oxalic acid, dodecyl isobutyl ester	314	C18H34O4	1000309-37-7	53
4	Sulfurous acid, butyl decyl ester	278	C14H30O3S	1000309-17-7	47
5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	43





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

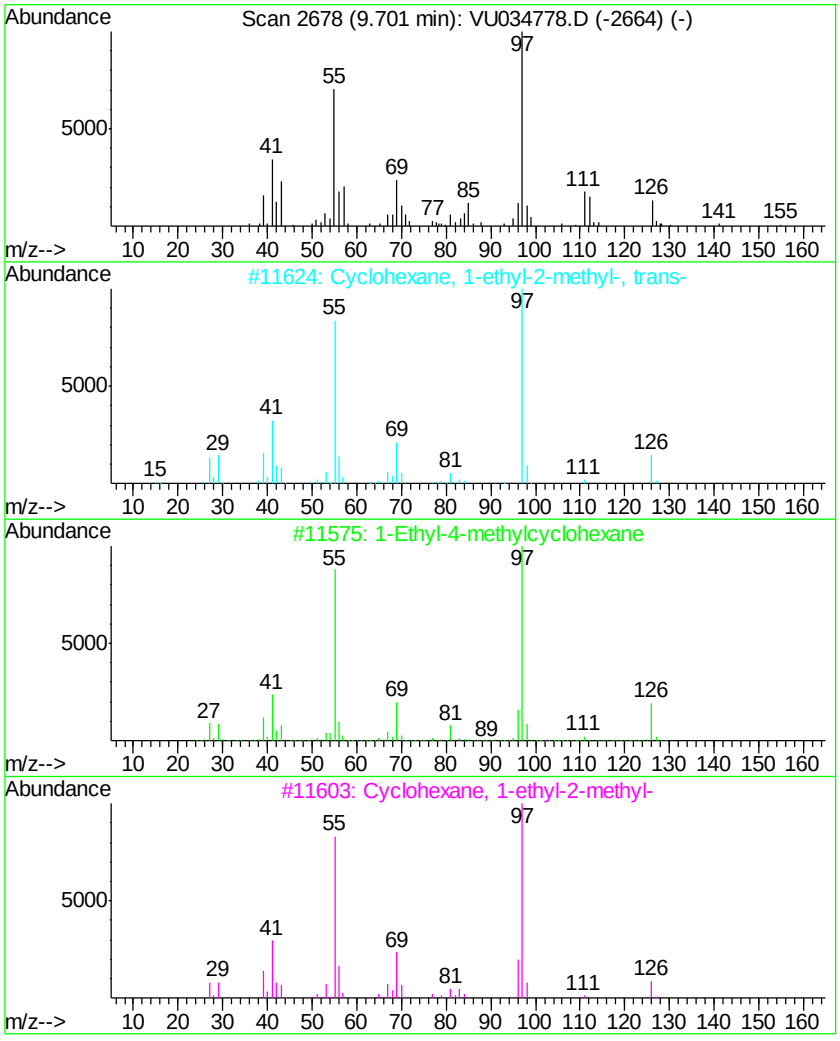
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

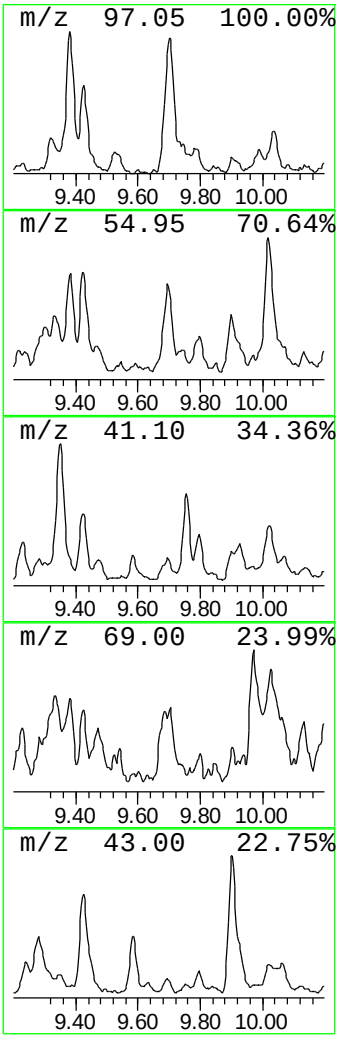
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 (DEL) Alkane: Cyclic9.70 Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.70	3.64 ug/L	125595	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	70
2	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	68
3	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	68
4	2-Hexene, 3,4,4-trimethyl-	126	C9H18	053941-19-8	58
5	2-Pyrazoline, 5-ethyl-1,4-dimethyl-	126	C7H14N2	014339-23-2	52





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

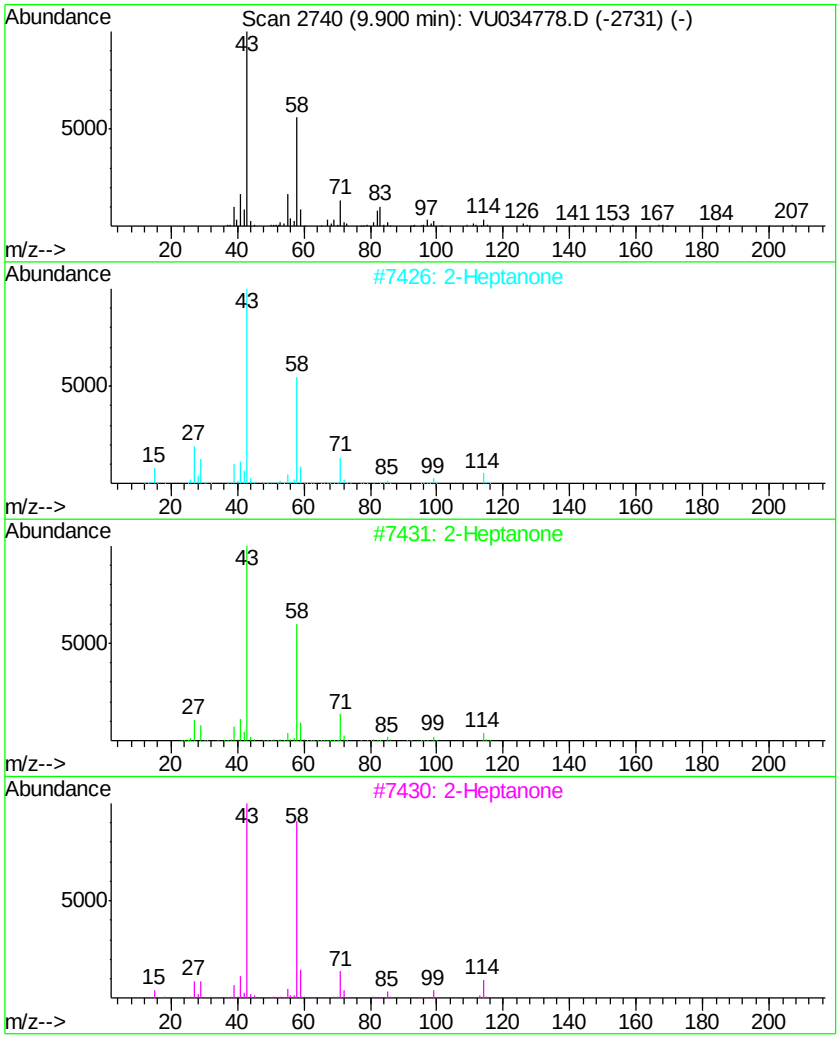
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

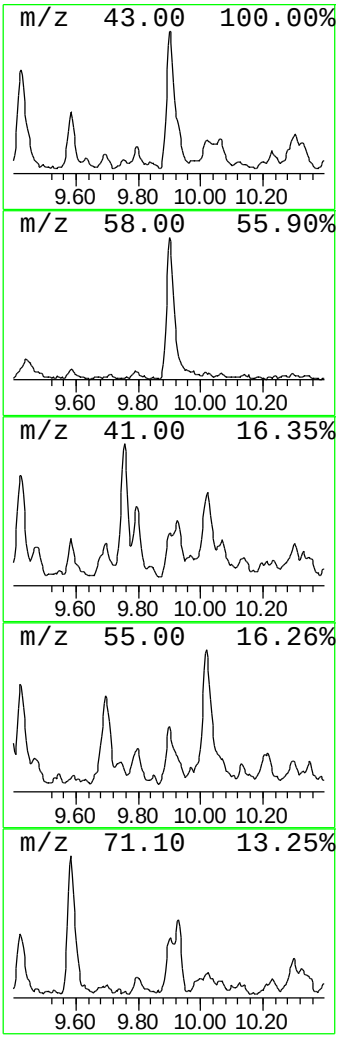
****

Peak Number 10 2-Heptanone Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.90	5.13 ug/L	177064	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone	114	C7H14O	000110-43-0	74
2	2-Heptanone	114	C7H14O	000110-43-0	74
3	2-Heptanone	114	C7H14O	000110-43-0	64
4	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	64
5	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	49





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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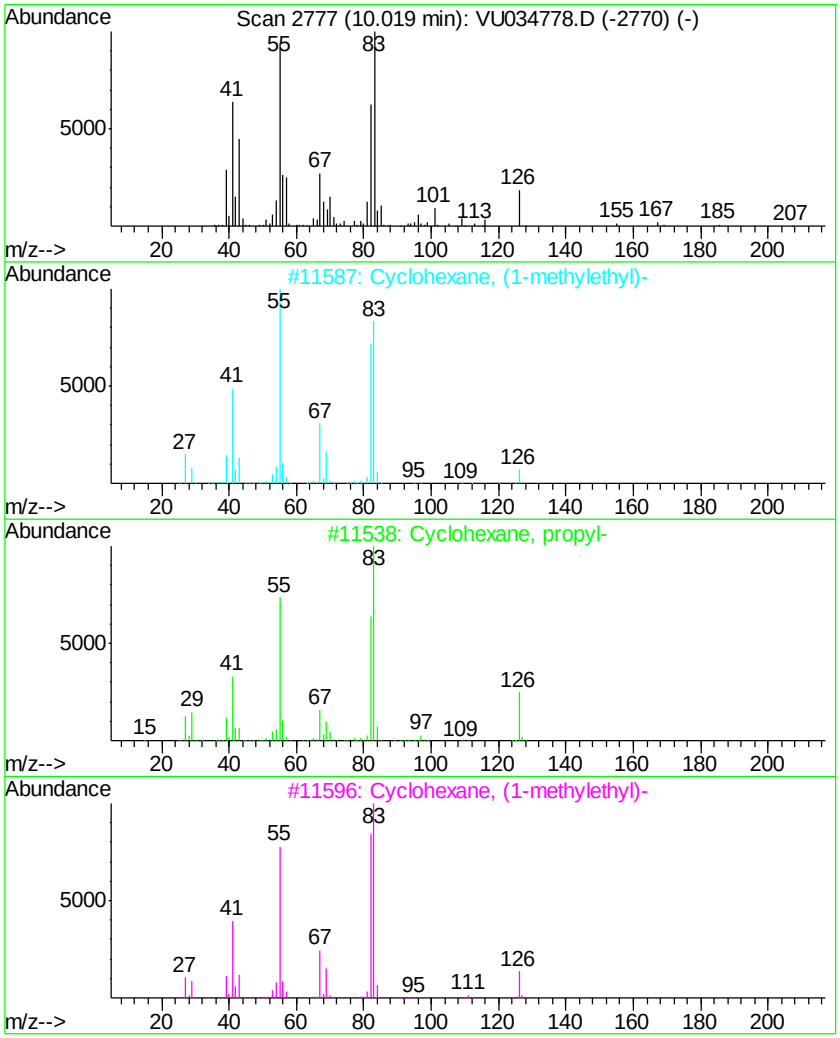
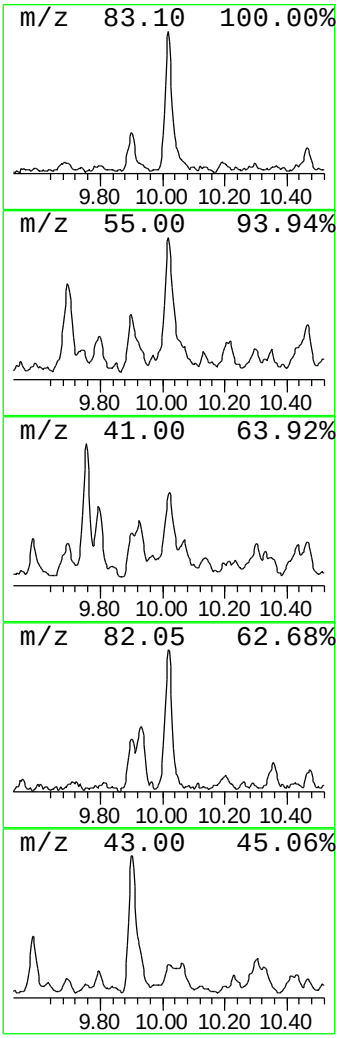
Peak Number 11 (DEL) Alkane: Cyclic10.02 Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.02	3.99 ug/L	137703	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	76
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	68
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	68
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	64
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	64





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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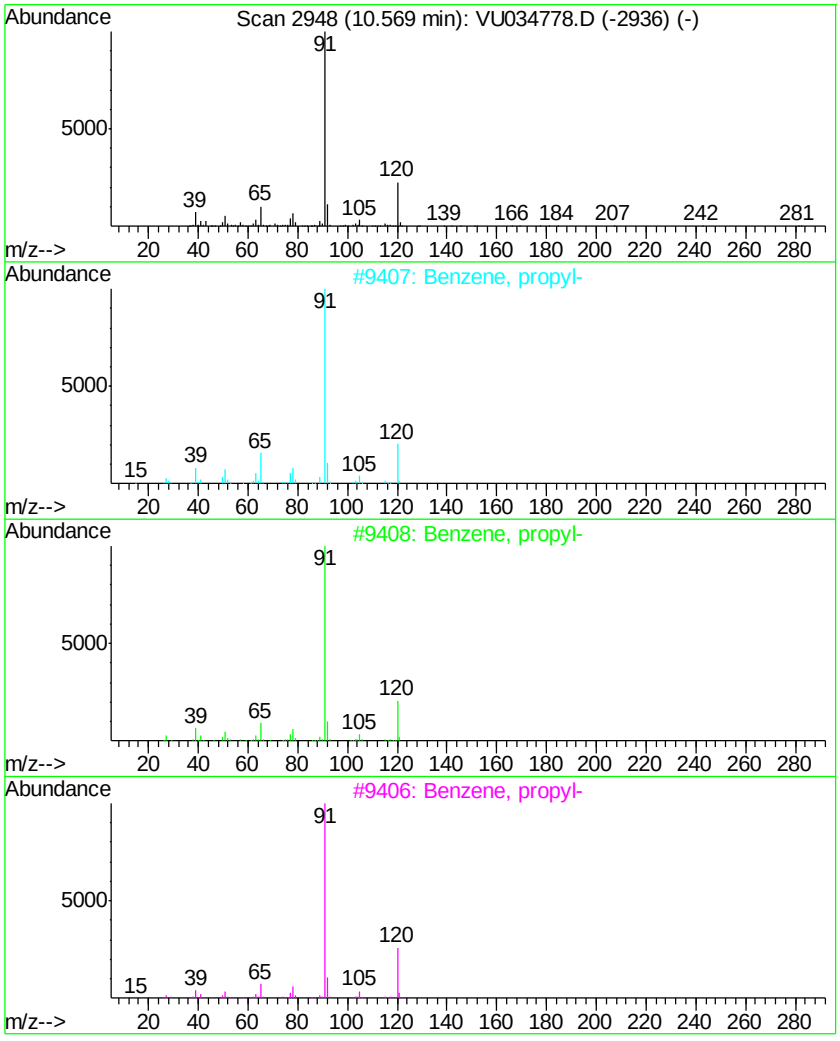
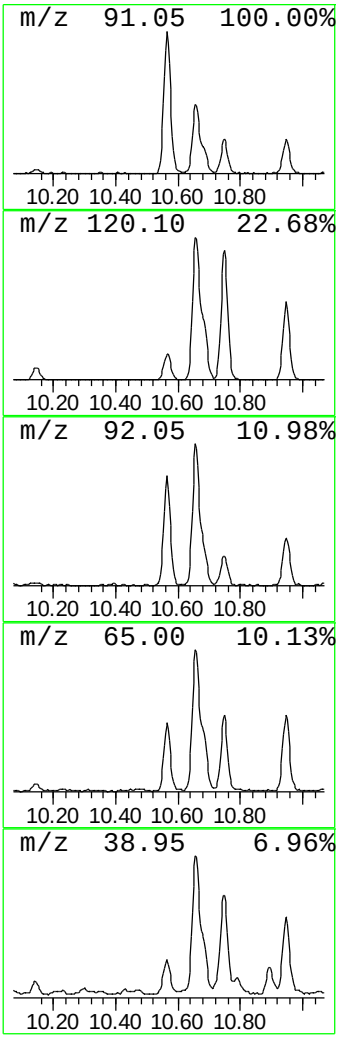
Peak Number 12 Benzene, propyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.57	14.77 ug/L	495581	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	91
2	Benzene, propyl-	120	C9H12	000103-65-1	90
3	Benzene, propyl-	120	C9H12	000103-65-1	87
4	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	78
5	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	72





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

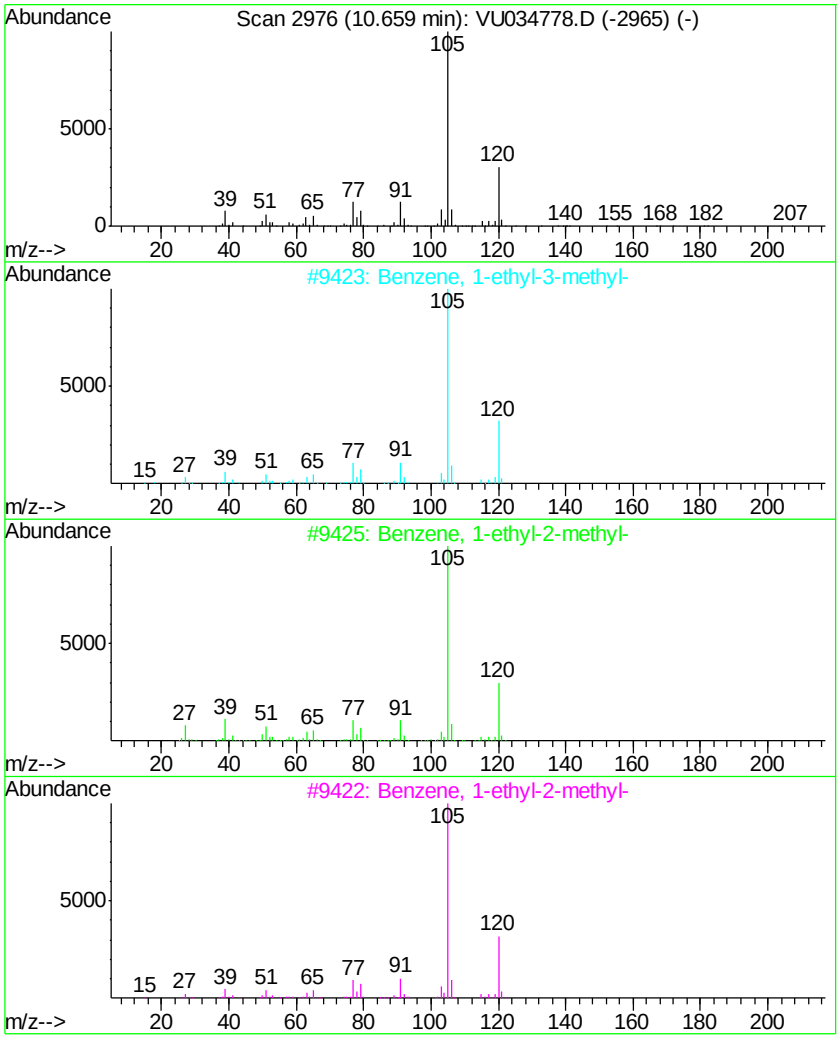
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

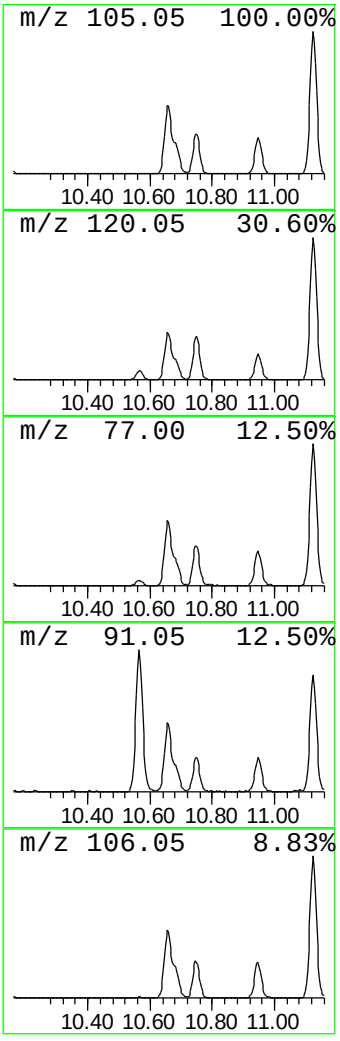
****

Peak Number 13 Benzene, 1-ethyl-3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	78.55 ug/L	2636020	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
5	Mesitylene	120	C9H12	000108-67-8	91





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

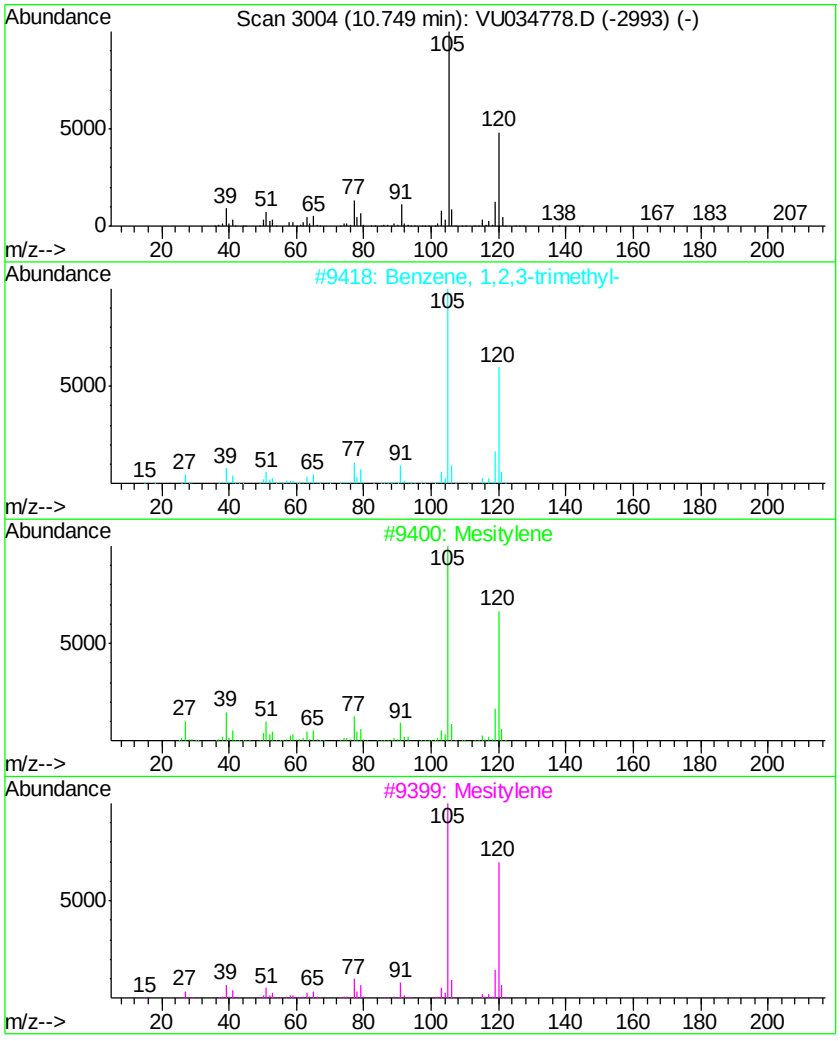
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

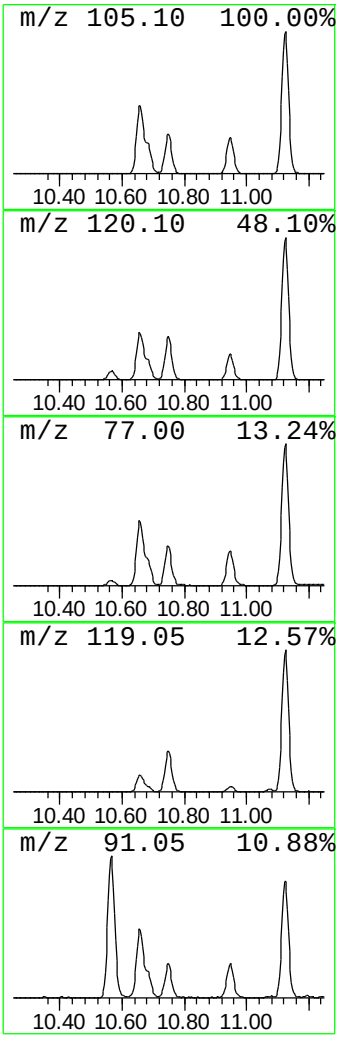
****

Peak Number 14 Benzene, 1,2,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	38.91 ug/L	1305740	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Mesitylene	120	C9H12	000108-67-8	95
3	Mesitylene	120	C9H12	000108-67-8	94
4	Mesitylene	120	C9H12	000108-67-8	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

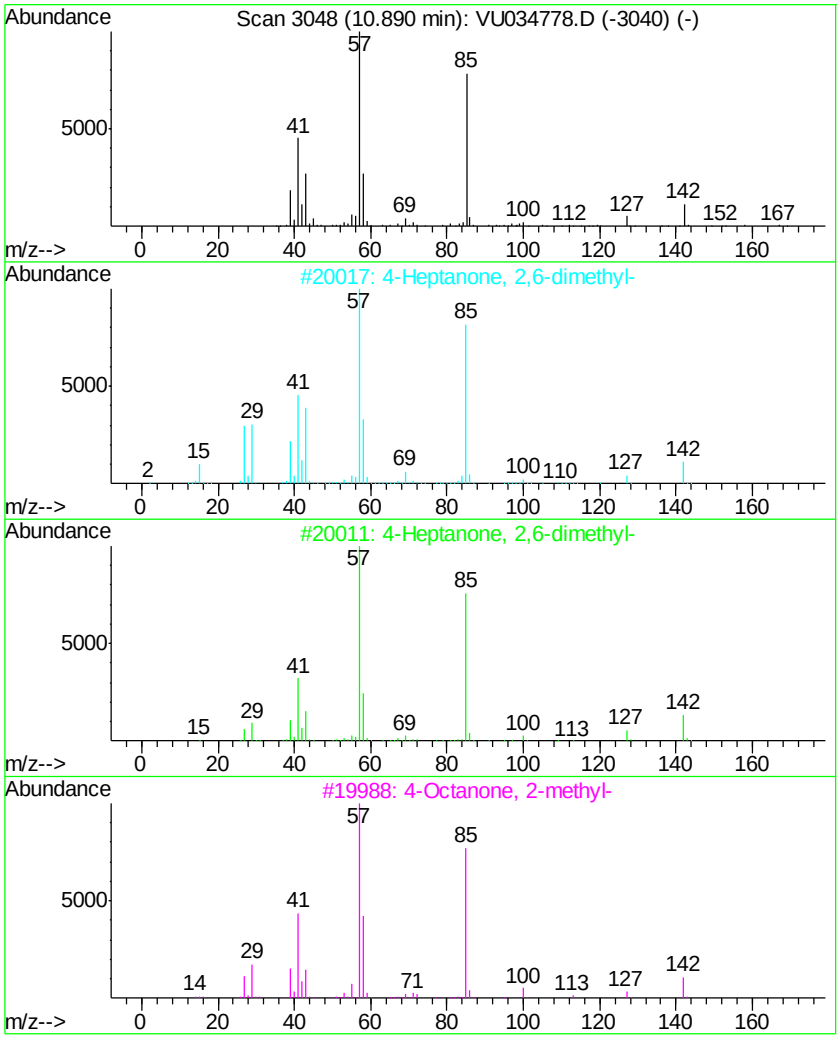
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

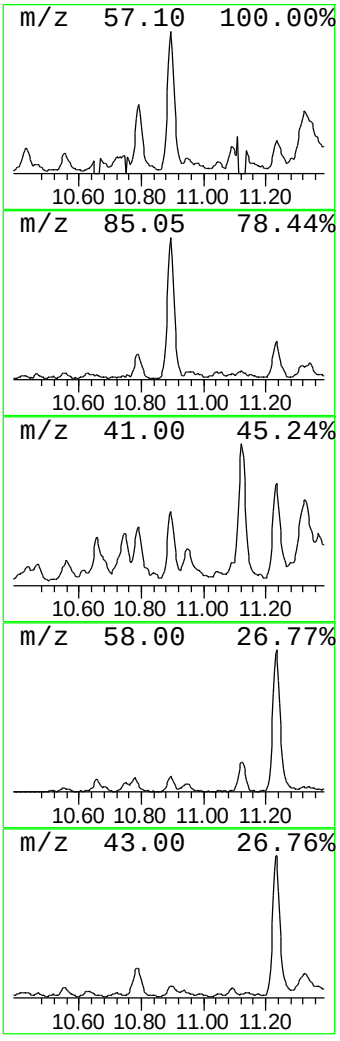
****

Peak Number 15 4-Heptanone, 2,6-dimethyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	7.90 ug/L	265098	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	91
2	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	91
3	4-Octanone, 2-methyl-	142	C9H18O	007492-38-8	83
4	4-Octanone, 2-methyl-	142	C9H18O	007492-38-8	72
5	5-Nonanone	142	C9H18O	000502-56-7	64





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

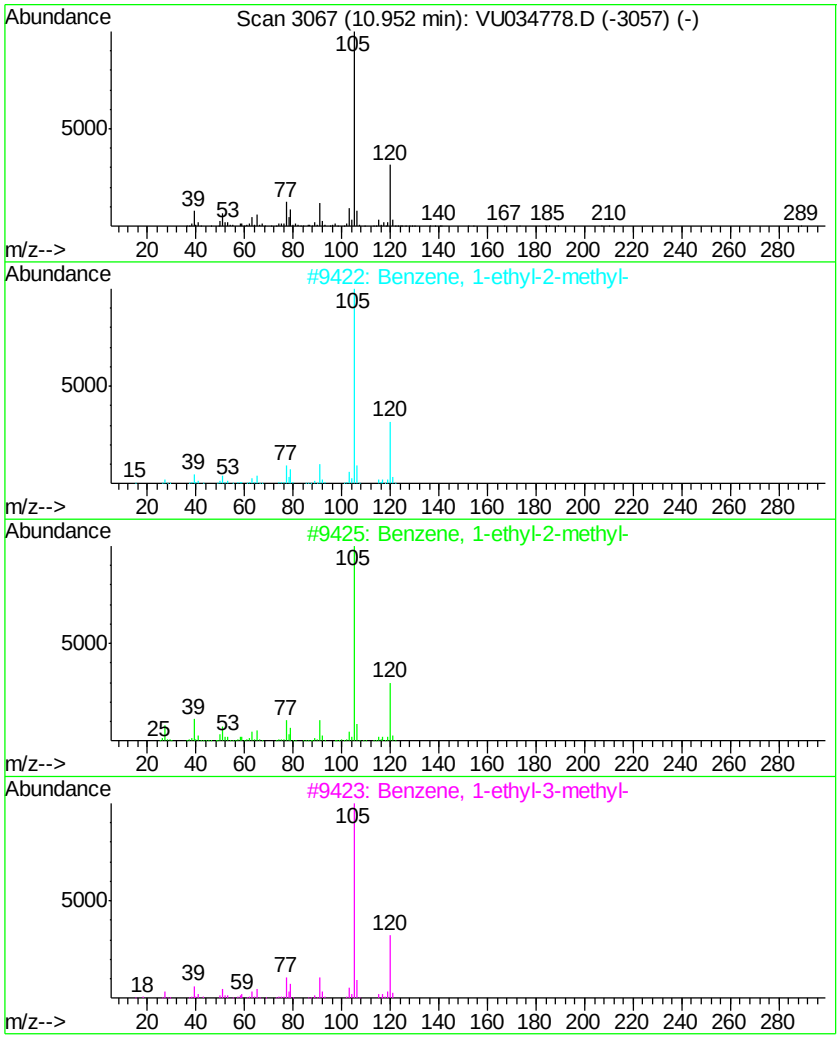
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

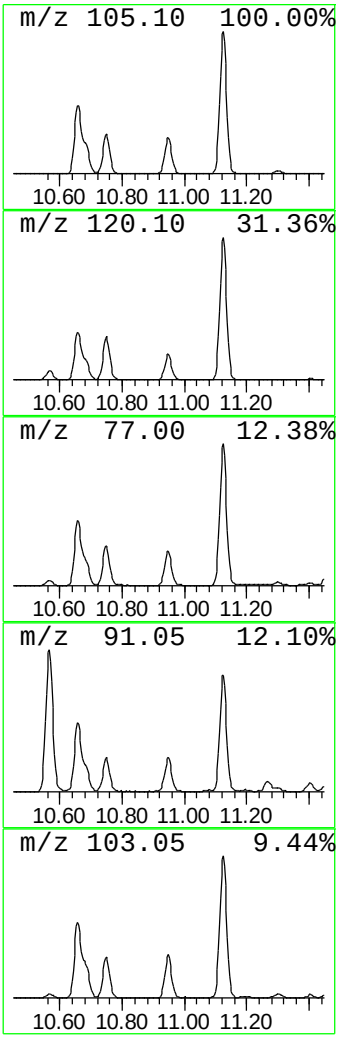
****

Peak Number 16 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	37.17 ug/L	1247540	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	90
4	Mesitylene	120	C9H12	000108-67-8	90
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	90





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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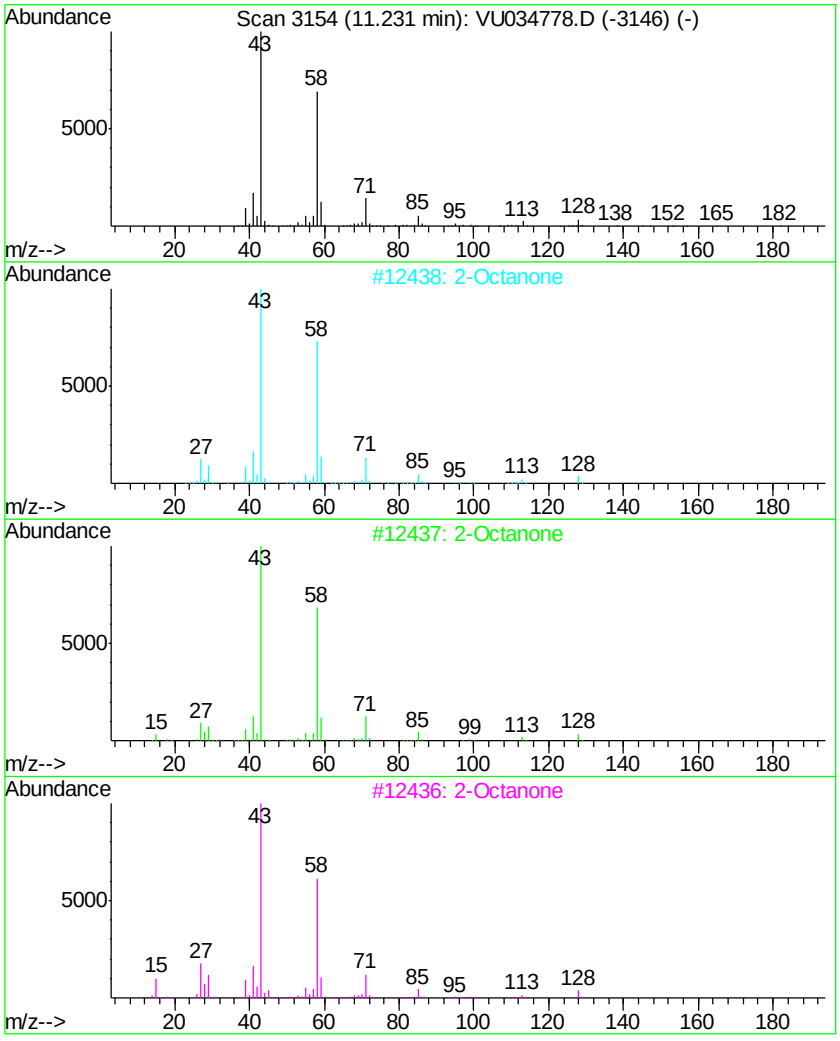
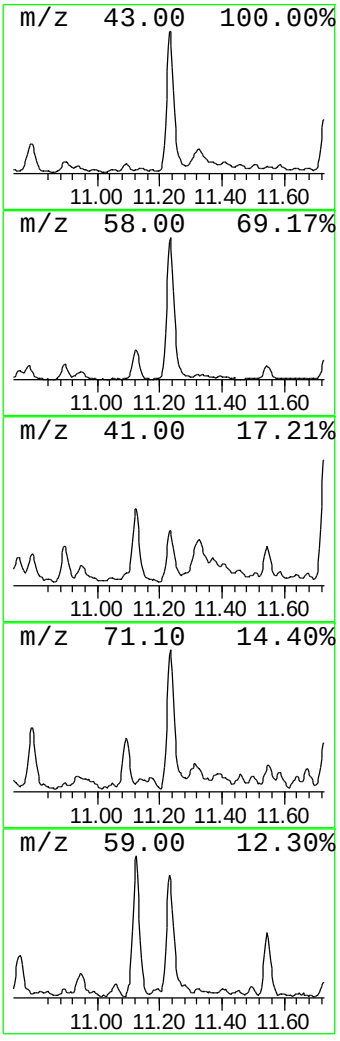
Peak Number 18 2-Octanone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	20.84 ug/L	699514	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Octanone	128	C8H16O	000111-13-7	94
2	2-Octanone	128	C8H16O	000111-13-7	94
3	2-Octanone	128	C8H16O	000111-13-7	91
4	2-Octanone	128	C8H16O	000111-13-7	87
5	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	86





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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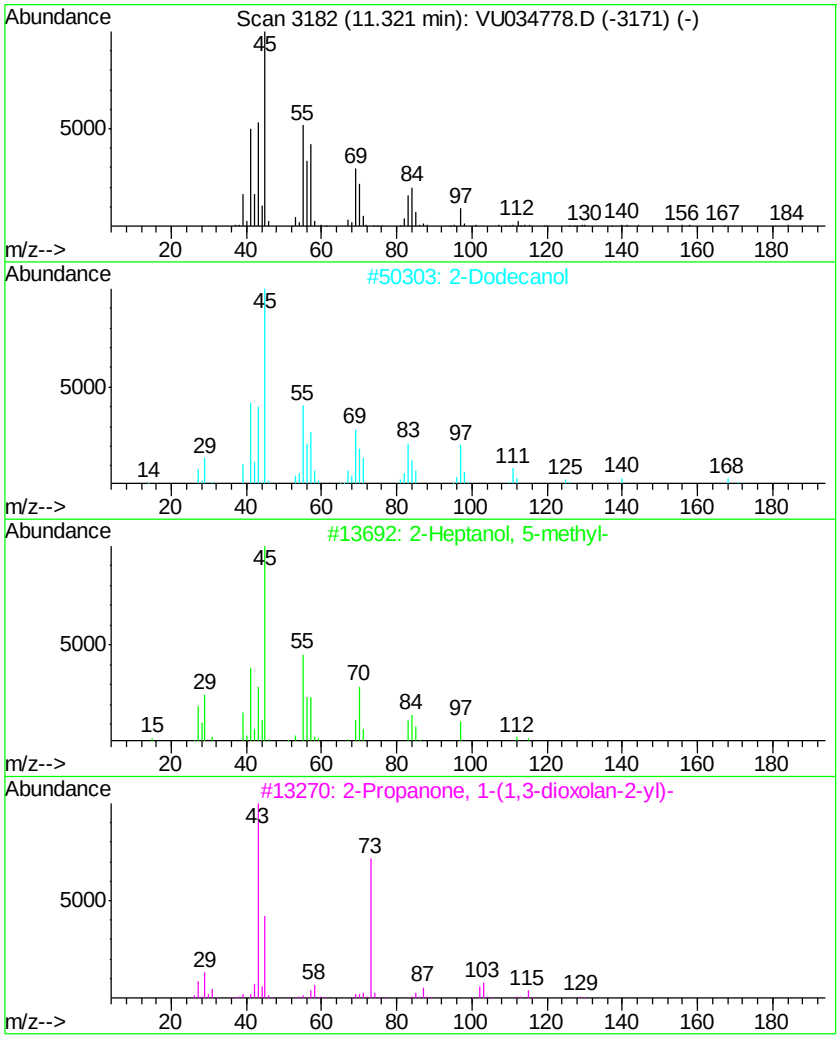
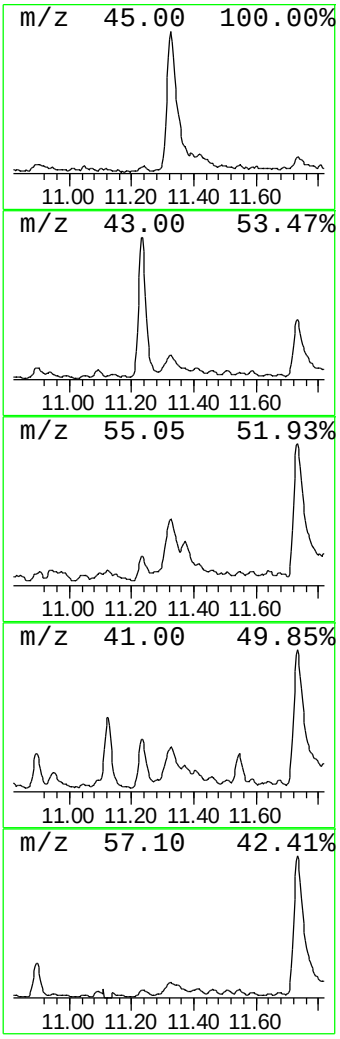
Peak Number 19 2-Dodecanol Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	12.19 ug/L	409085	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dodecanol	186	C12H26O	010203-28-8	72
2	2-Heptanol, 5-methyl-	130	C8H18O	054630-50-1	47
3	2-Propanone, 1-(1,3-dioxolan-2-yl)-	130	C6H10O3	000767-04-4	38
4	Cyclopropane, octyl-	154	C11H22	001472-09-9	35
5	Cyclooctane, 1,4-dimethyl-, cis-	140	C10H20	013151-99-0	30





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Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

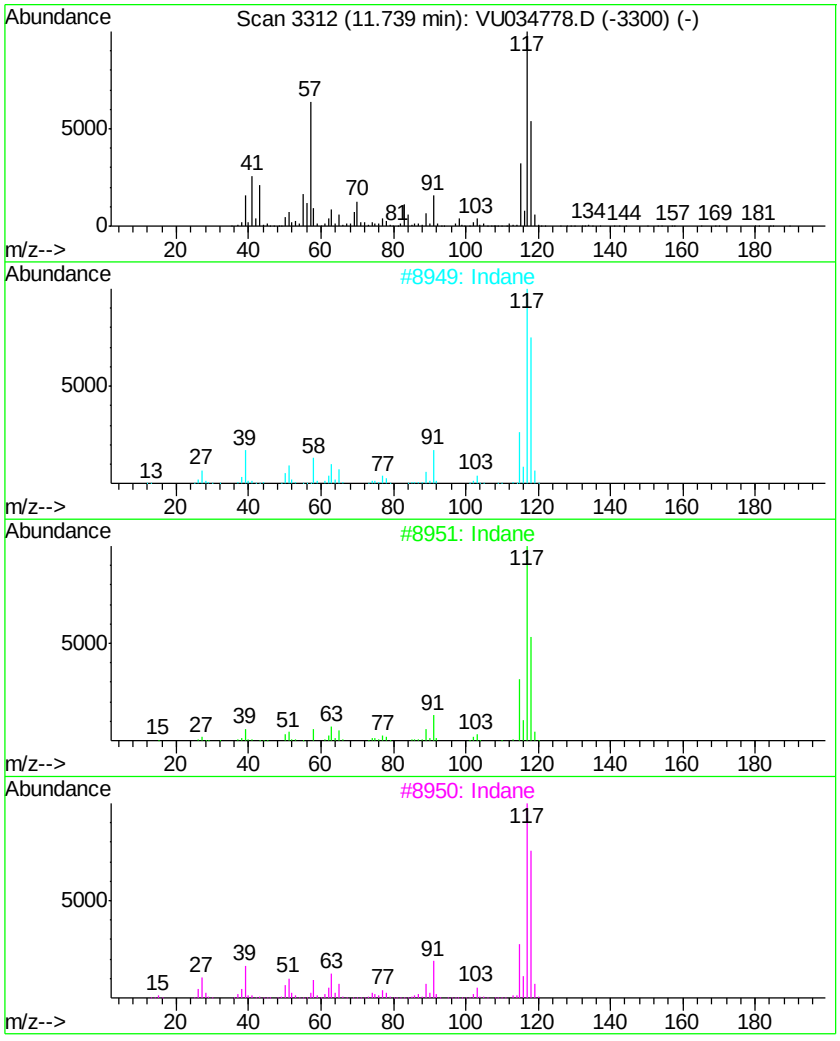
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

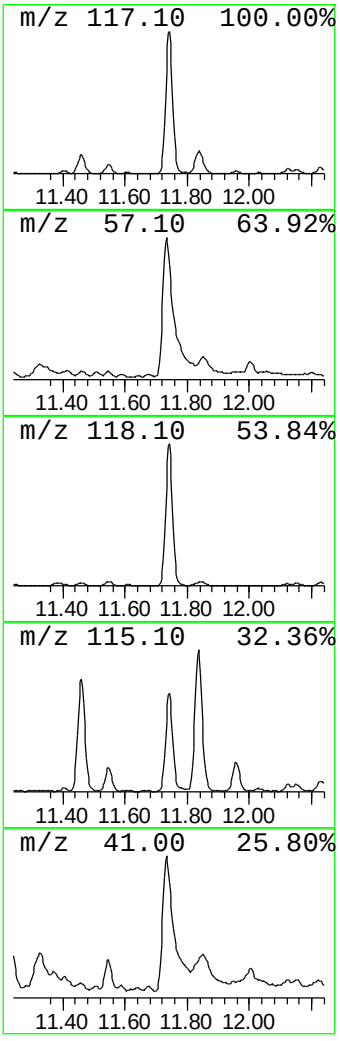
****

Peak Number 21 Indane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	79.89 ug/L	2681020	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	96
2	Indane	118	C9H10	000496-11-7	90
3	Indane	118	C9H10	000496-11-7	87
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74
5	Deltacyclene	118	C9H10	007785-10-6	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

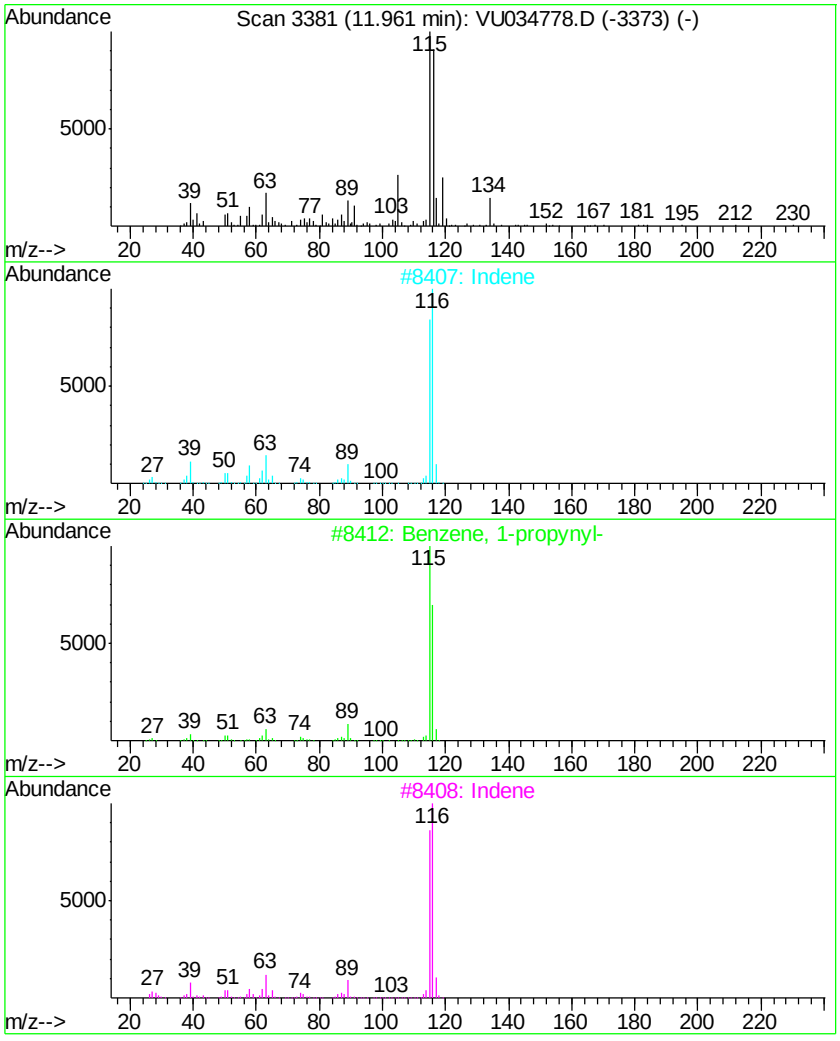
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

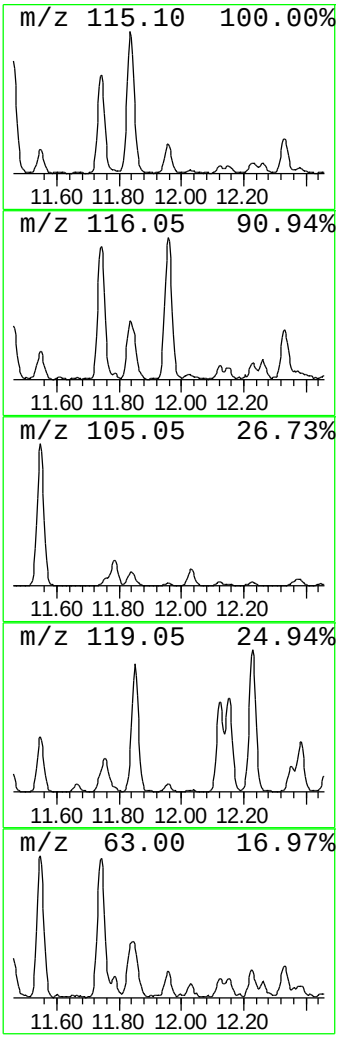
****

Peak Number 22 Indene Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	4.58 ug/L	153816	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	94
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	76
3	Indene	116	C9H8	000095-13-6	76
4	Benzene, 1-propynyl-	116	C9H8	000673-32-5	76
5	3-Methylphenylacetylene	116	C9H8	000766-82-5	76





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

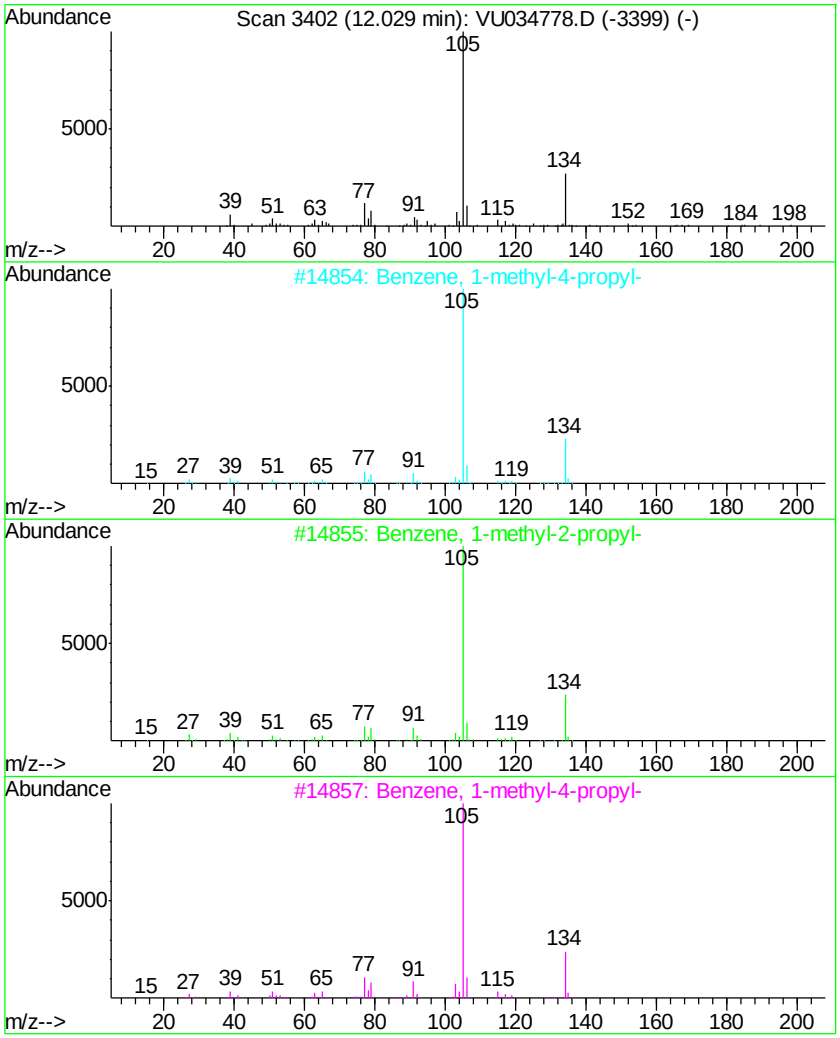
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

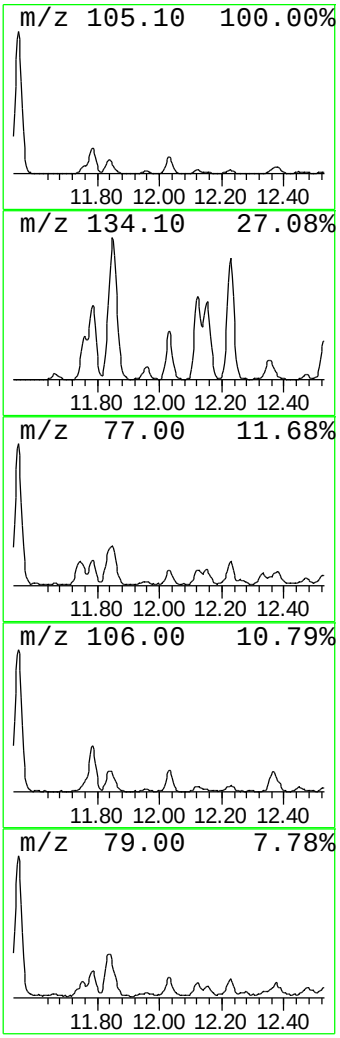
****

Peak Number 23 Benzene, 1-methyl-4-propyl- Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	6.85 ug/L	229970	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	81
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	81
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	81
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	74
5	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	74





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

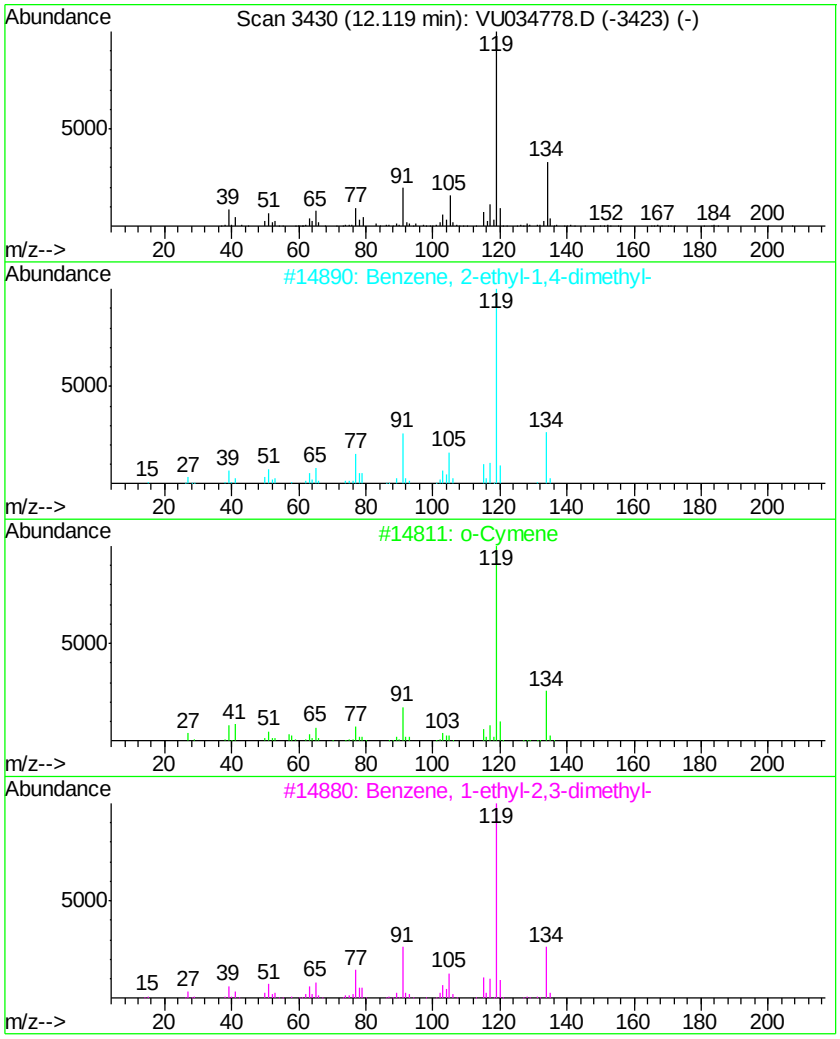
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

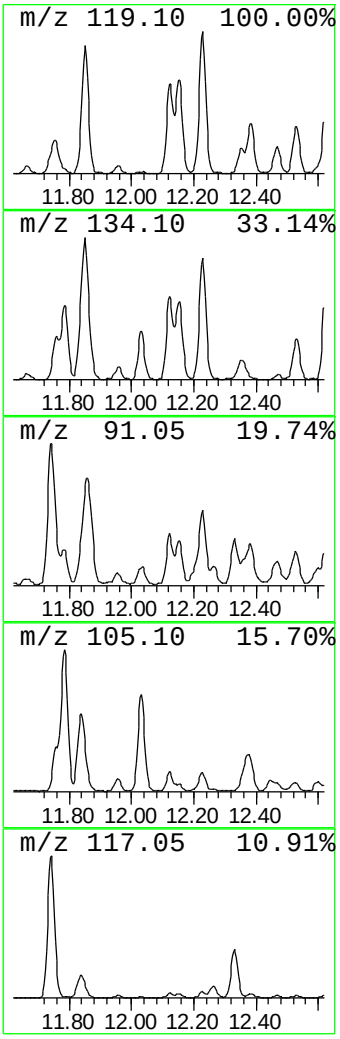
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	9.43 ug/L	316445	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
5	o-Cymene	134	C10H14	000527-84-4	94





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

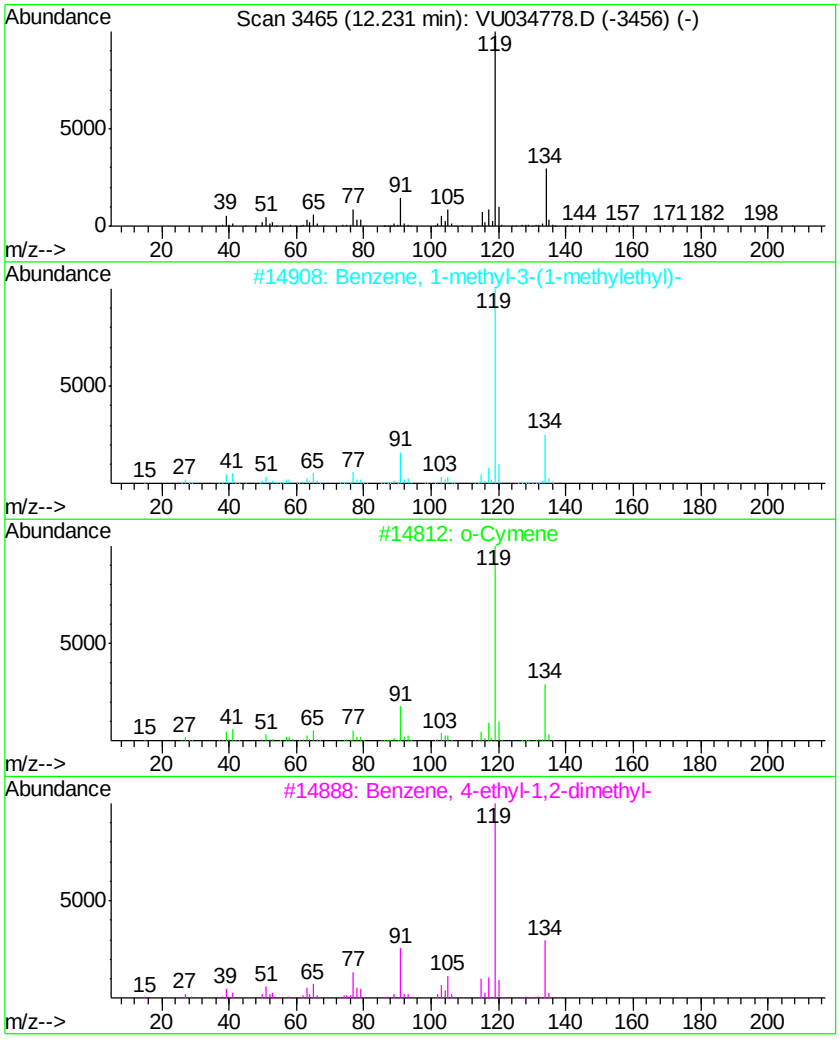
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

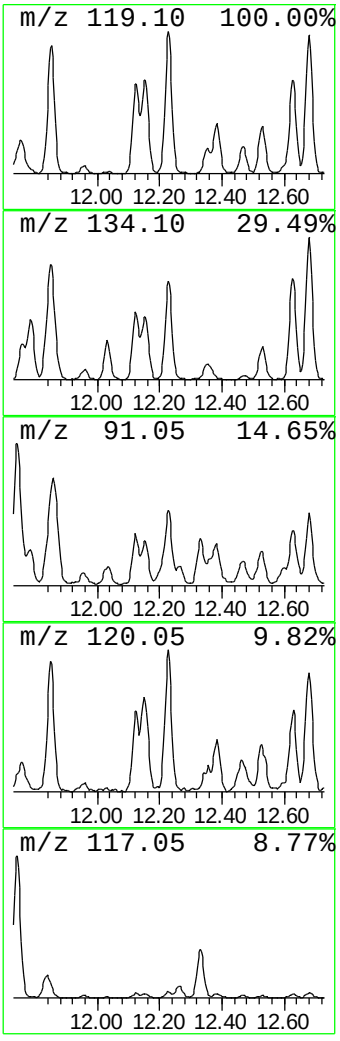
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 Benzene, 1-methyl-3-(1-meth... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	11.16 ug/L	374444	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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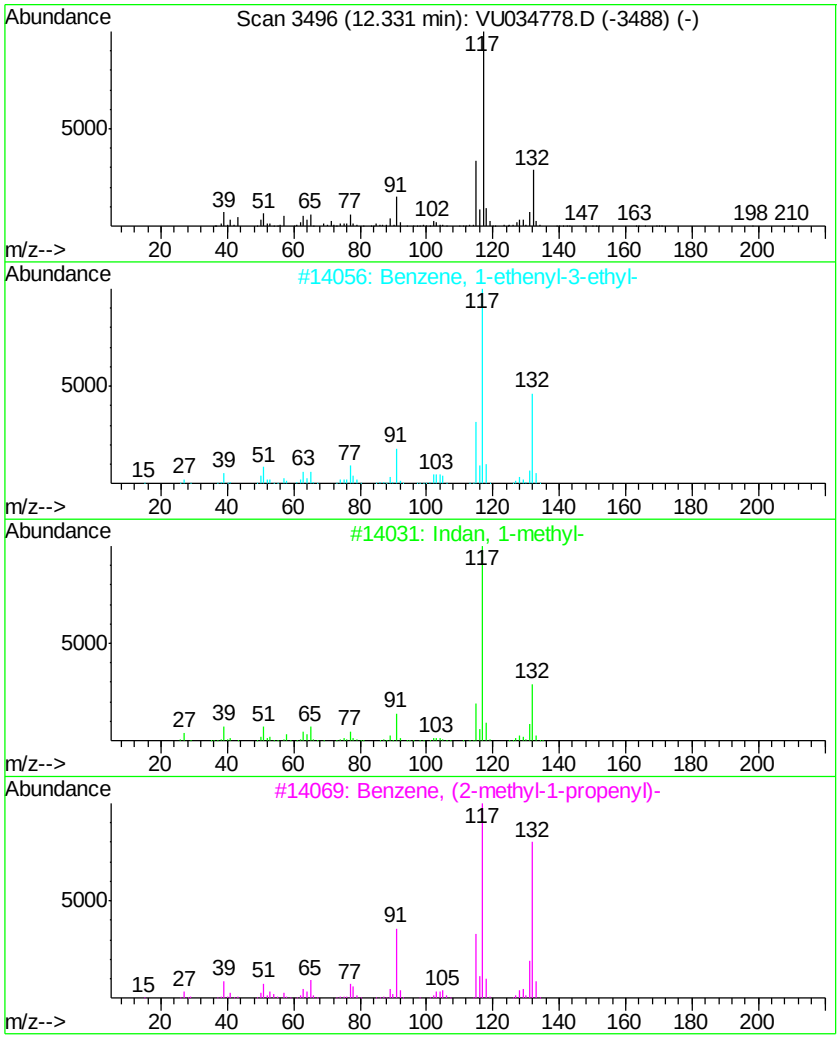
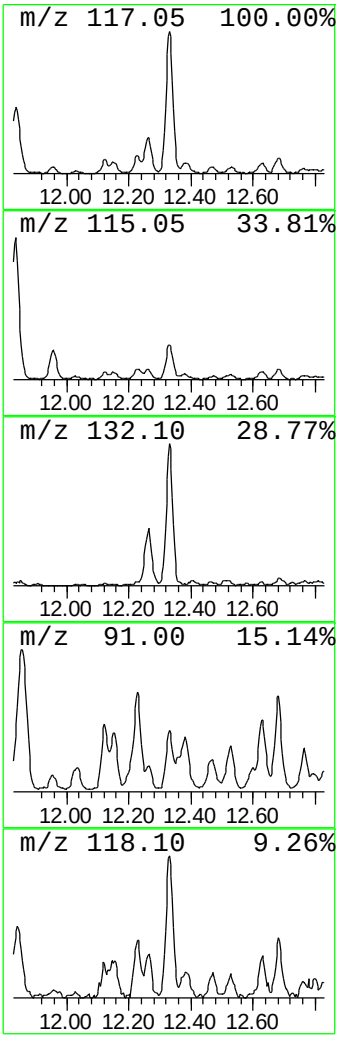
Peak Number 26 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	12.94 ug/L	434187	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
2	Indan, 1-methyl-	132	C10H12	000767-58-8	87
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	83
4	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	83
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

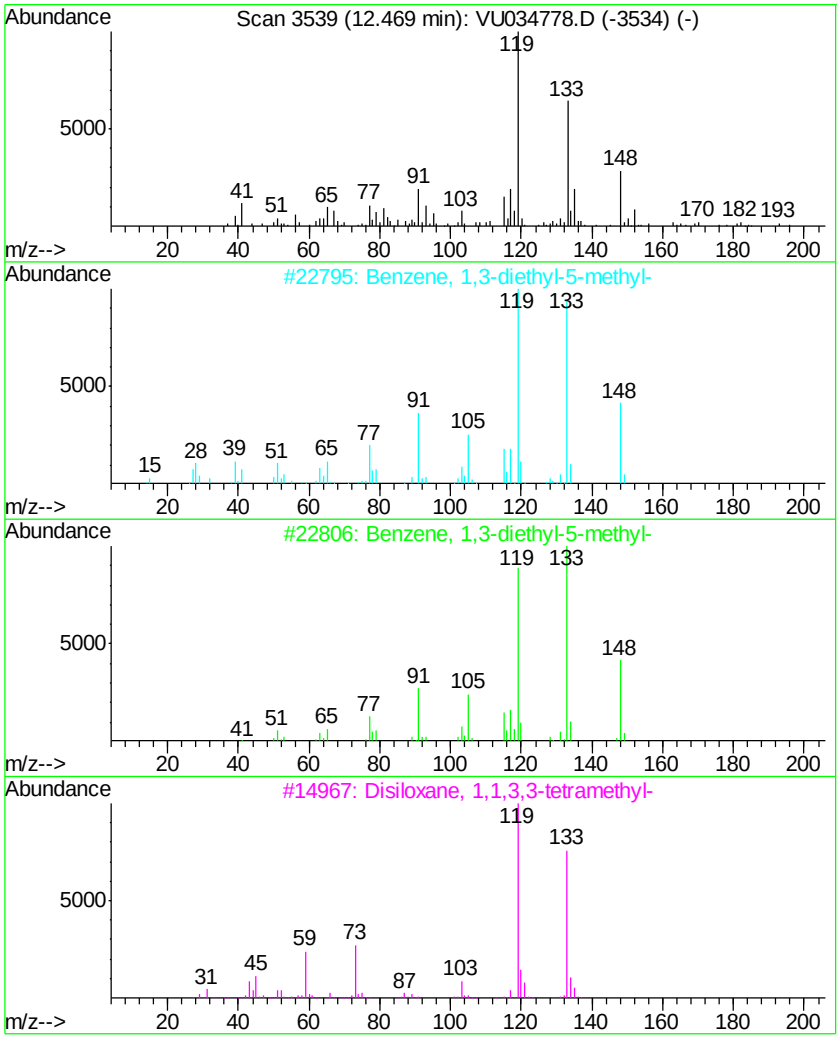
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

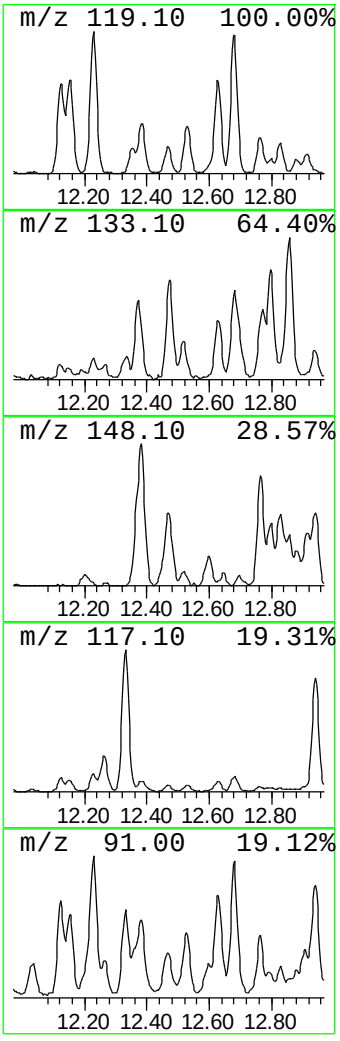
****

Peak Number 27 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	3.58 ug/L	120211	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	83
2	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	53
3	Disiloxane, 1,1,3,3-tetramethyl-	134	C4H14OSi2	003277-26-7	52
4	Disiloxane, 1,1,3,3-tetramethyl-	134	C4H14OSi2	003277-26-7	50
5	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	49





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

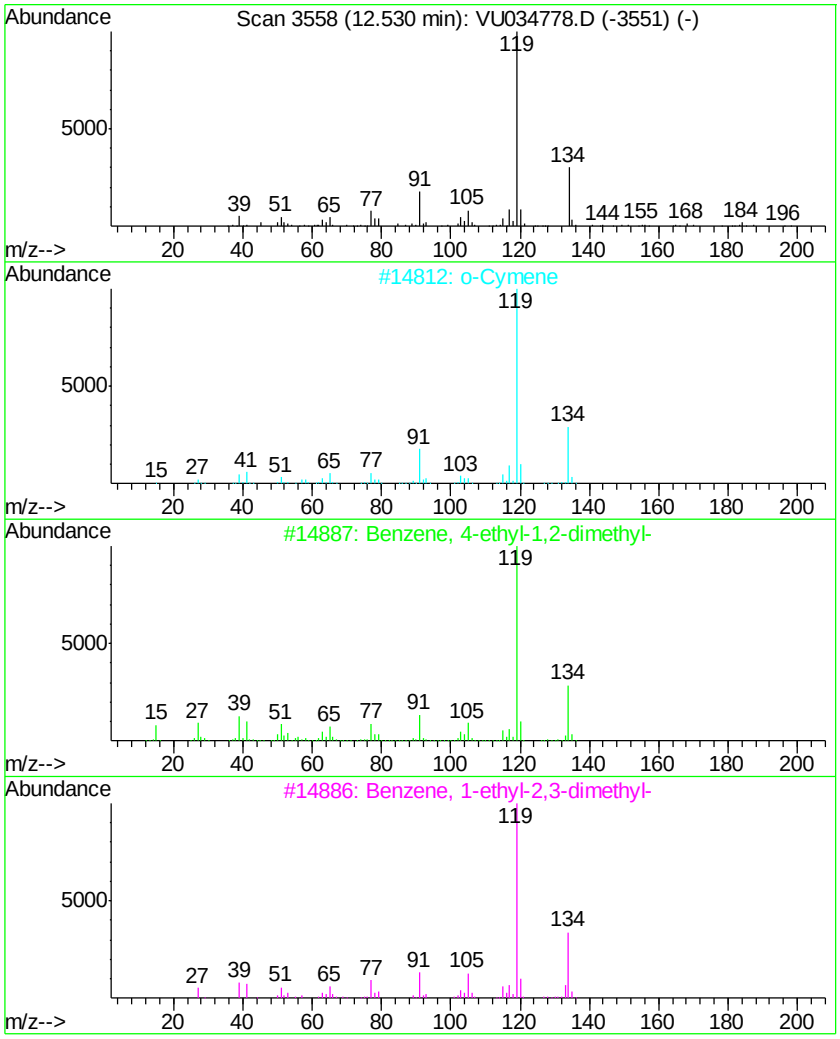
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

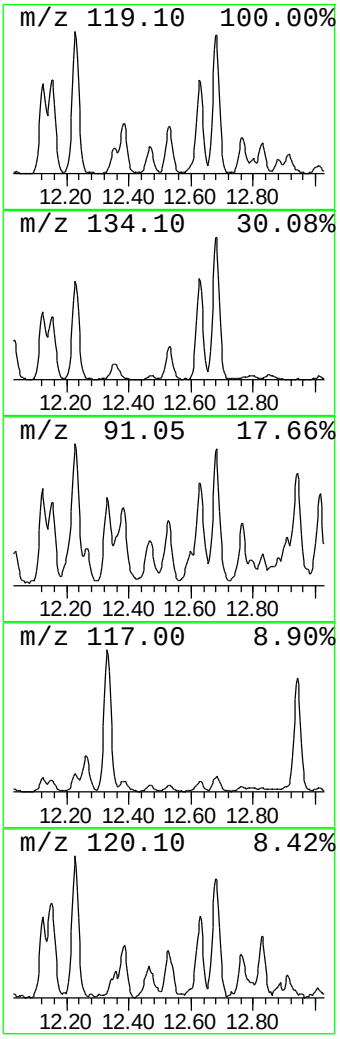
****

Peak Number 28 o-Cymene Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	6.08 ug/L	203925	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	93
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	90
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	90
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	90





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

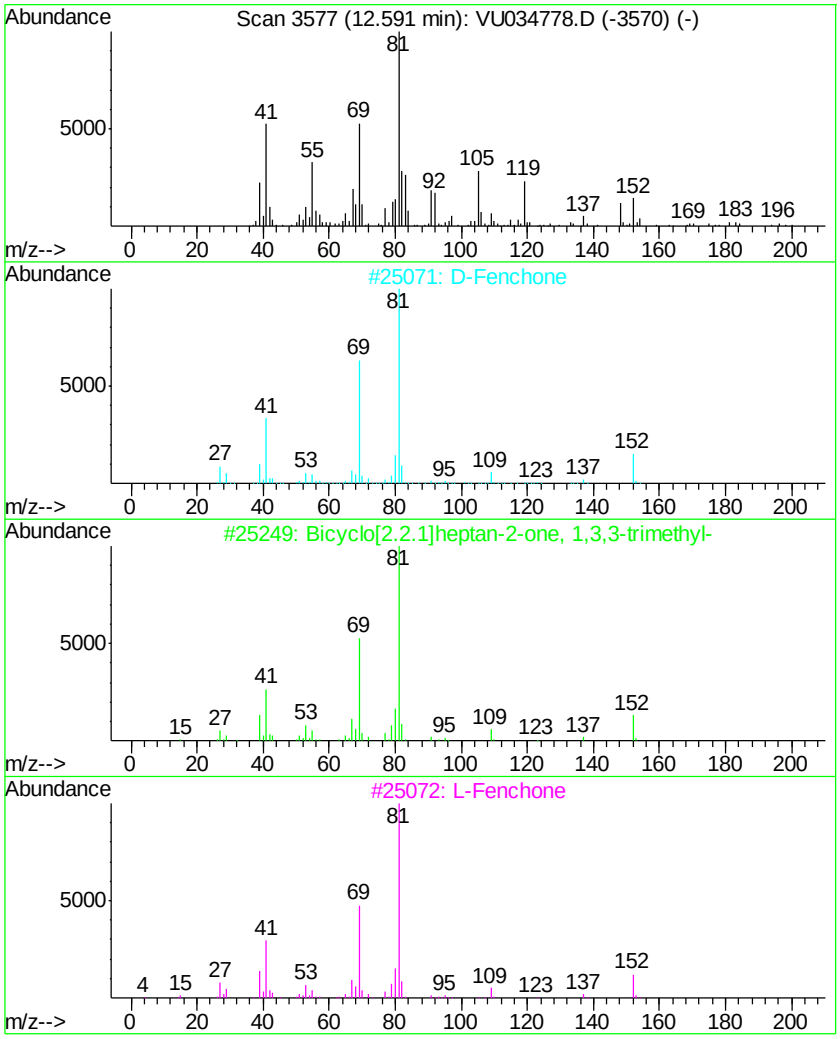
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

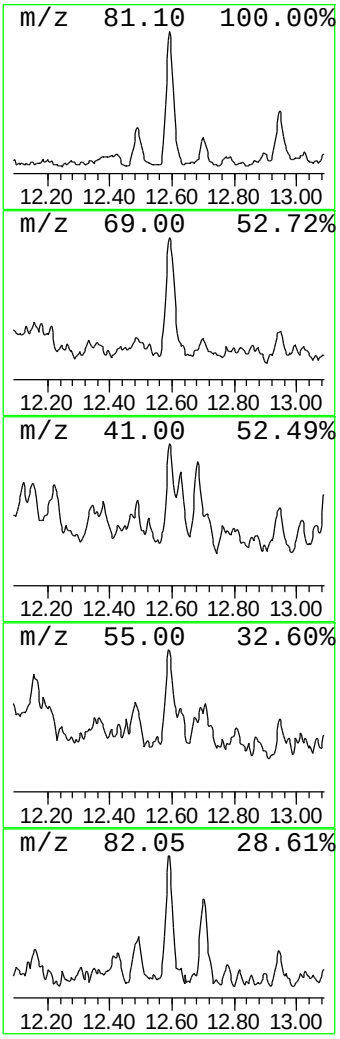
****

Peak Number 29 unknown-01 Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	5.24 ug/L	175814	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Fenchone	152	C10H16O	004695-62-9	43
2	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	001195-79-5	43
3	L-Fenchone	152	C10H16O	007787-20-4	43
4	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	001195-79-5	43
5	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	001195-79-5	43





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

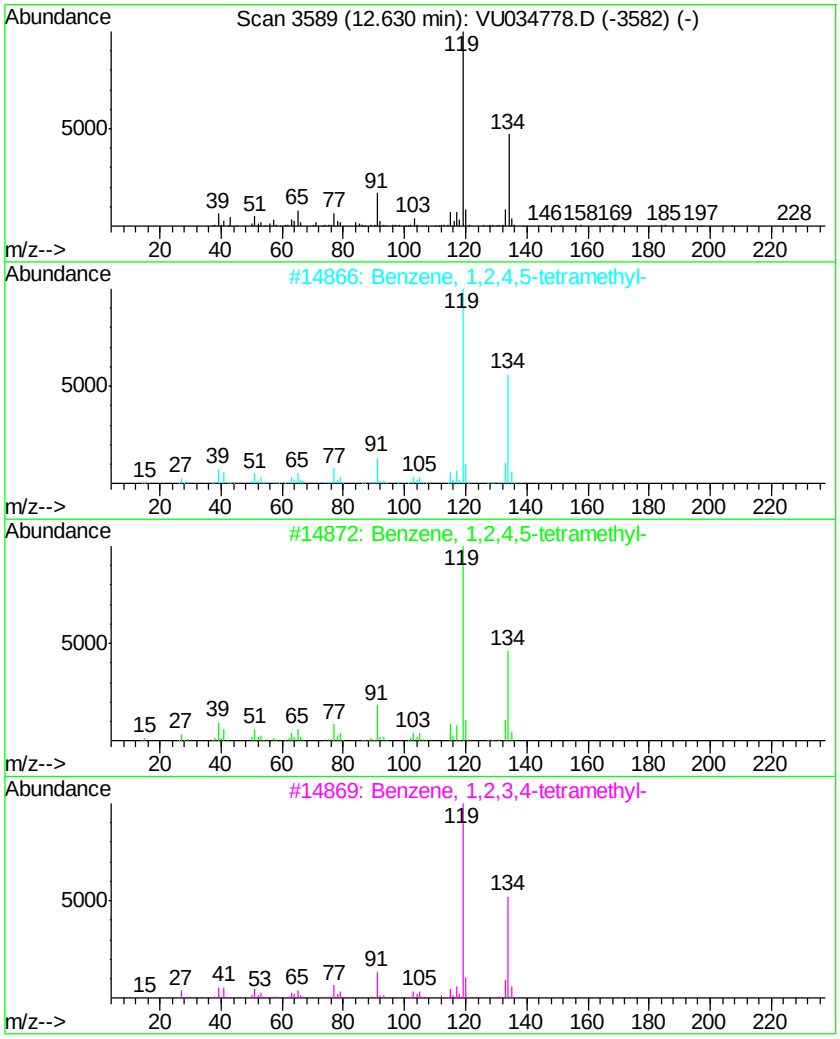
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

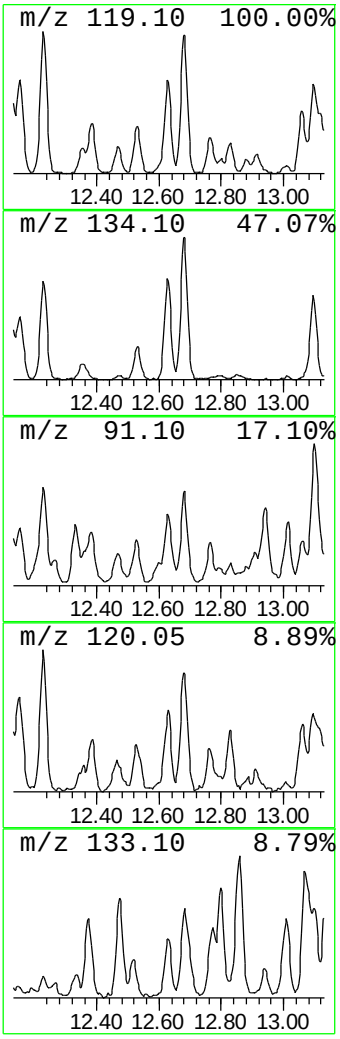
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 30 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	10.08 ug/L	338342	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

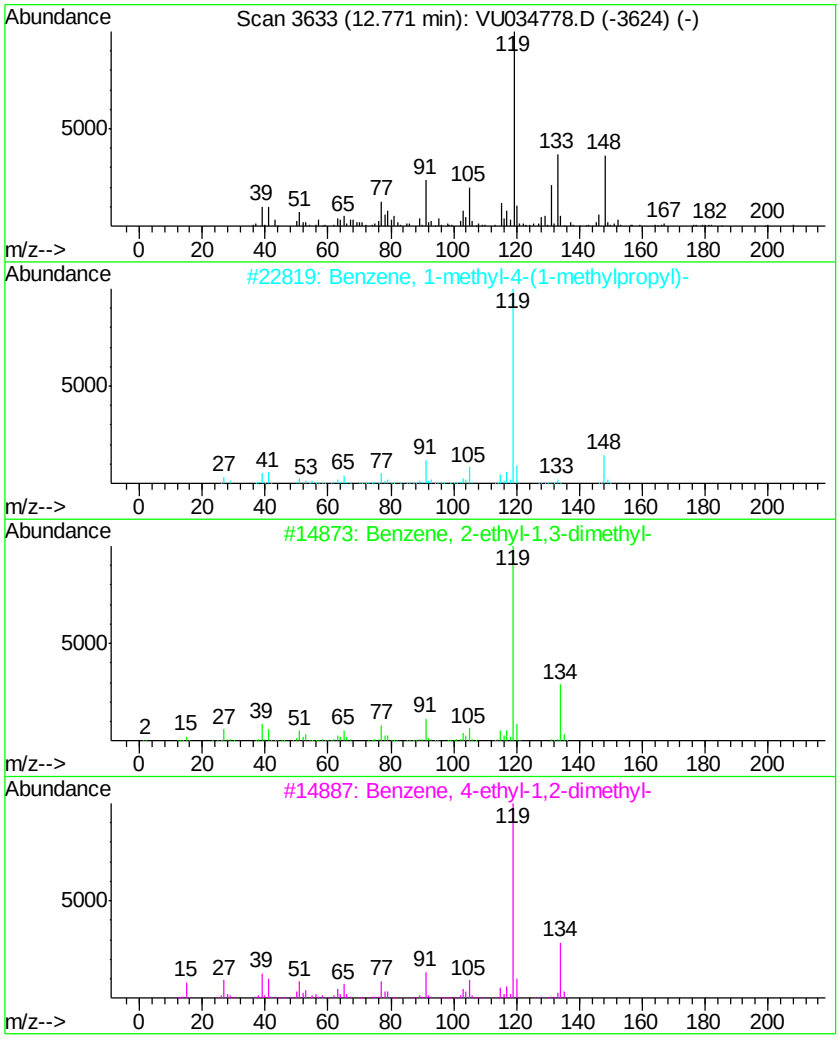
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

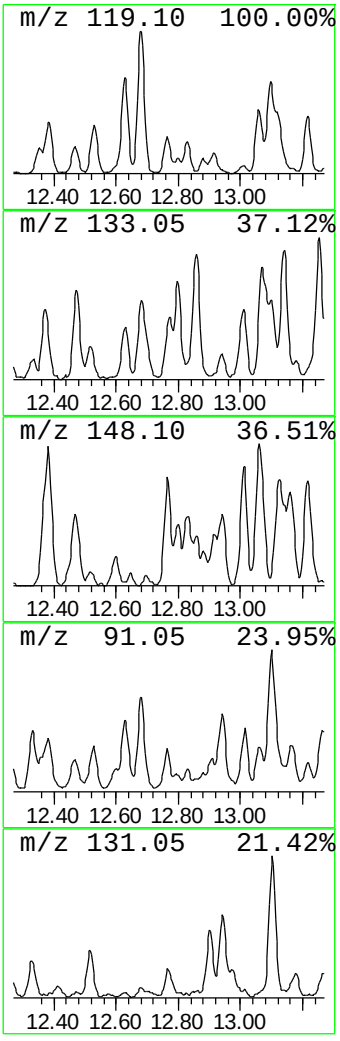
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 32 Benzene, 1-methyl-4-(1-meth... Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	5.05 ug/L	169379	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	76
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	64
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	64
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	60





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

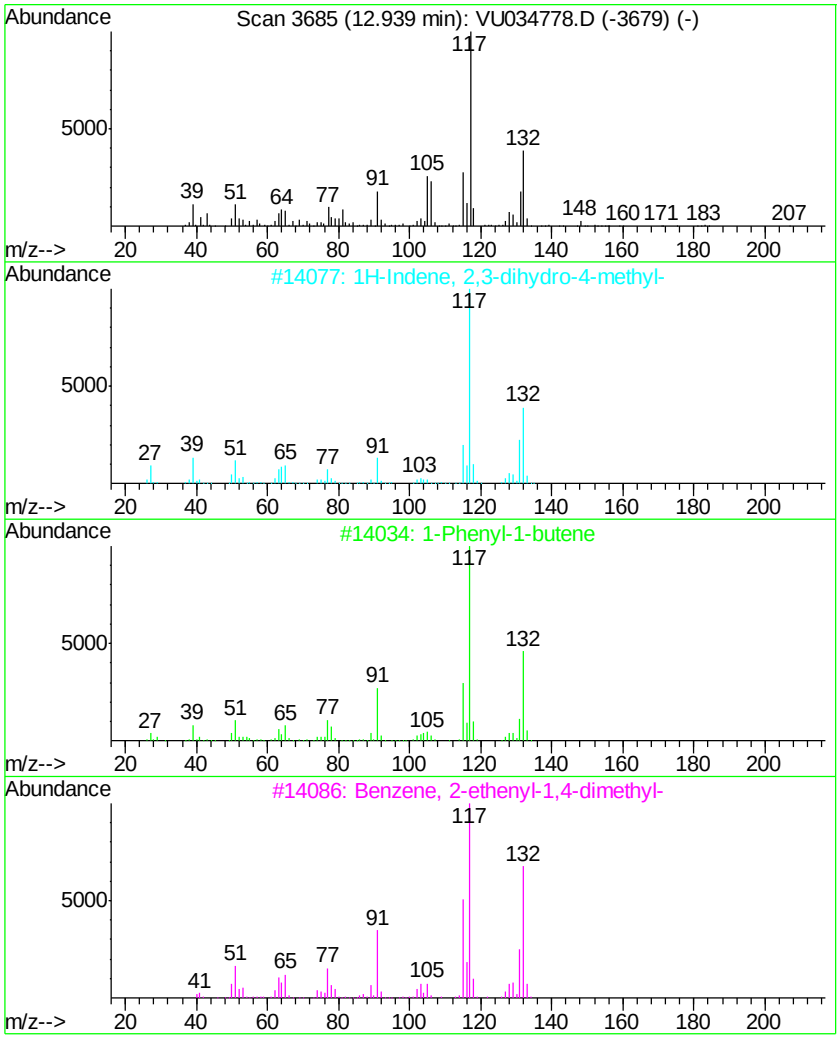
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

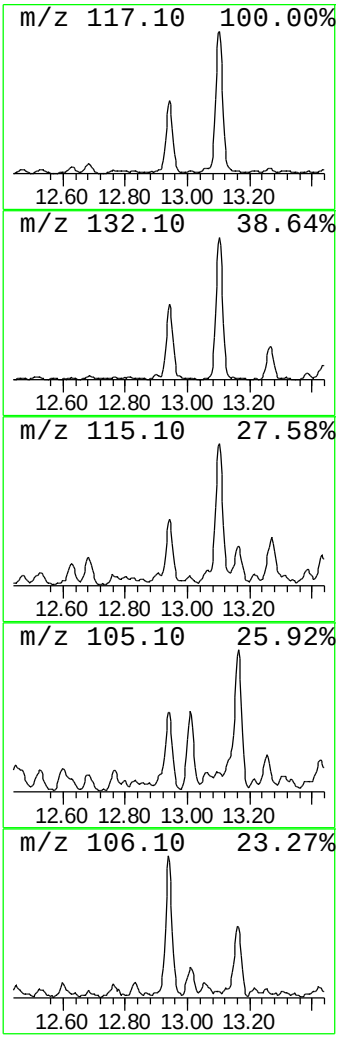
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	14.84 ug/L	497980	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	90
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
4	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
5	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

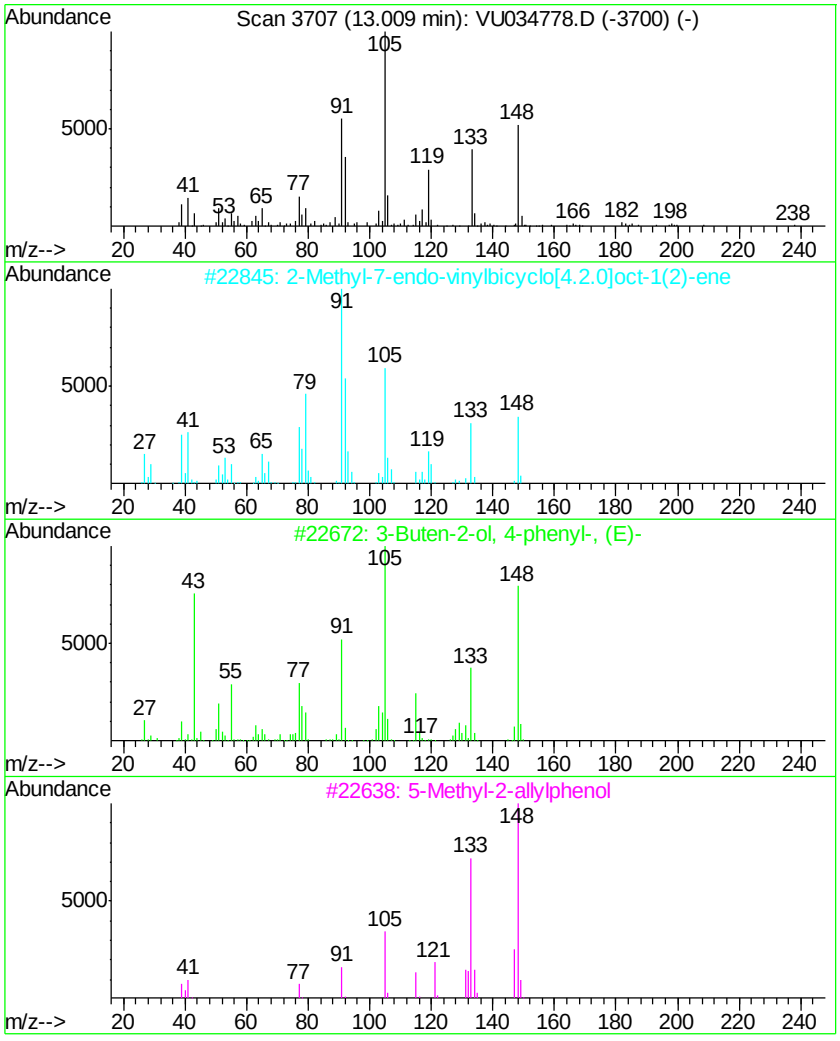
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

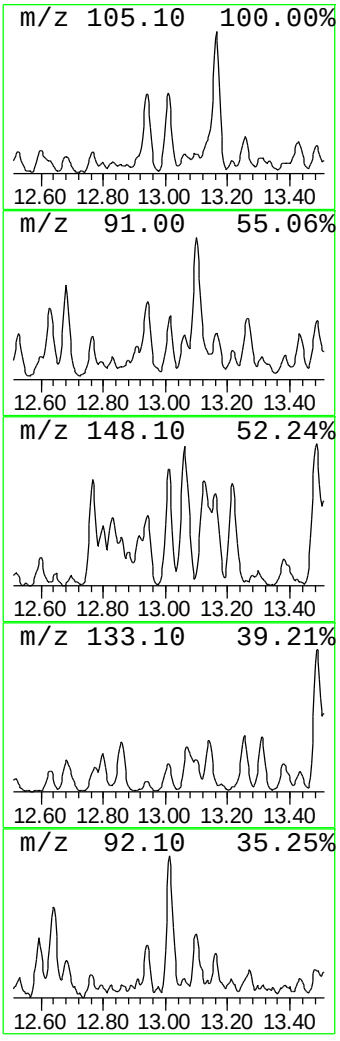
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 34 2-Methyl-7-endo-vinylbicycl... Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.01	4.08 ug/L	137048	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-7-endo-vinylbicyclo[4.2...	148	C11H16	1000200-99-1	87
2	3-Buten-2-ol, 4-phenyl-, (E)-	148	C10H12O	1000163-70-9	53
3	5-Methyl-2-allylphenol	148	C10H12O	1000306-52-5	47
4	Benzofuran, 5-methoxy-	148	C9H8O2	013391-28-1	46
5	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	42





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

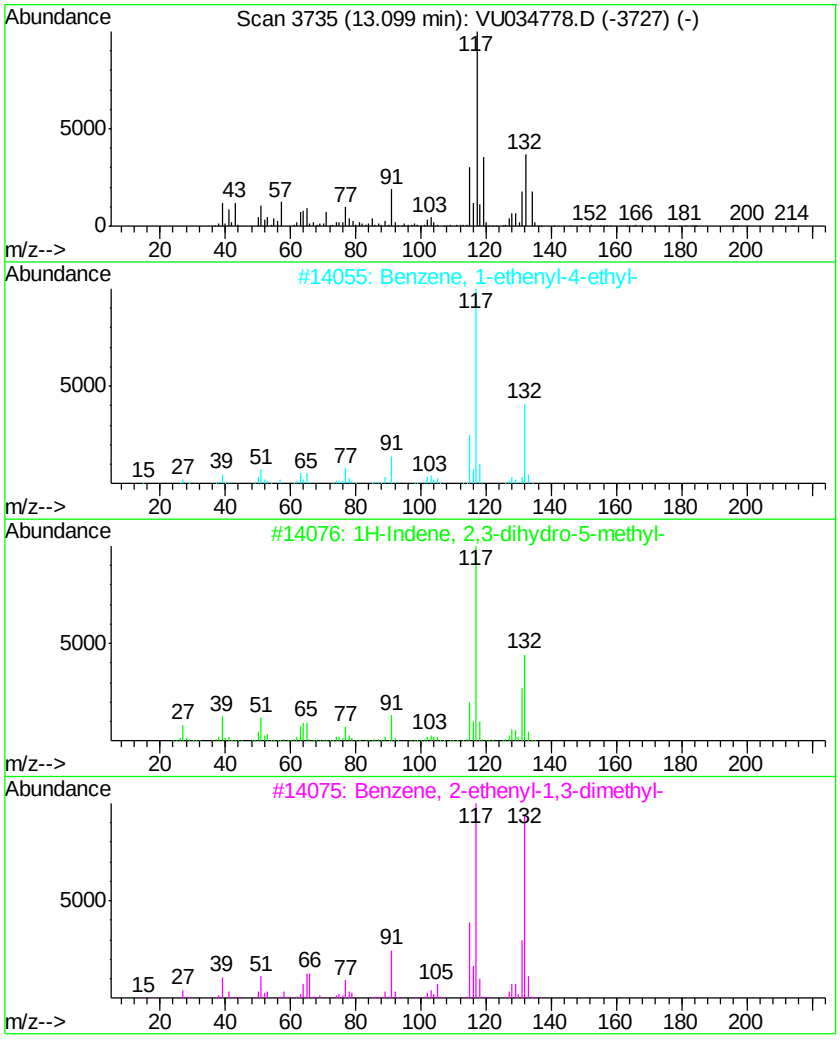
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

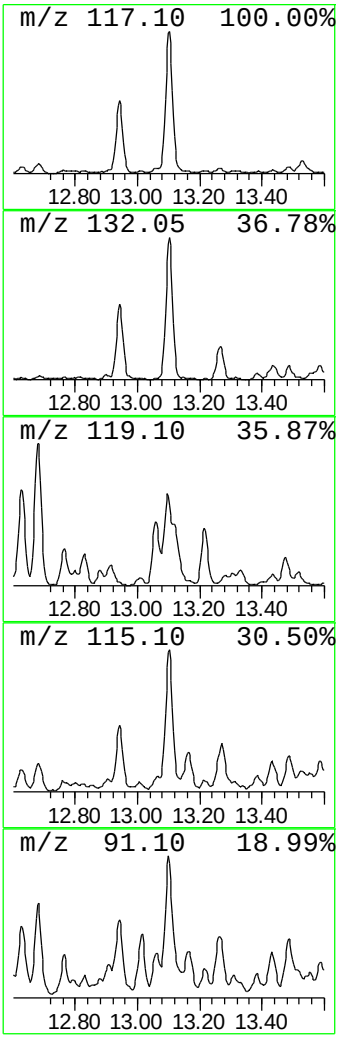
****

Peak Number 36 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	35.29 ug/L	1184310	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	93
3	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	93
4	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	81





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

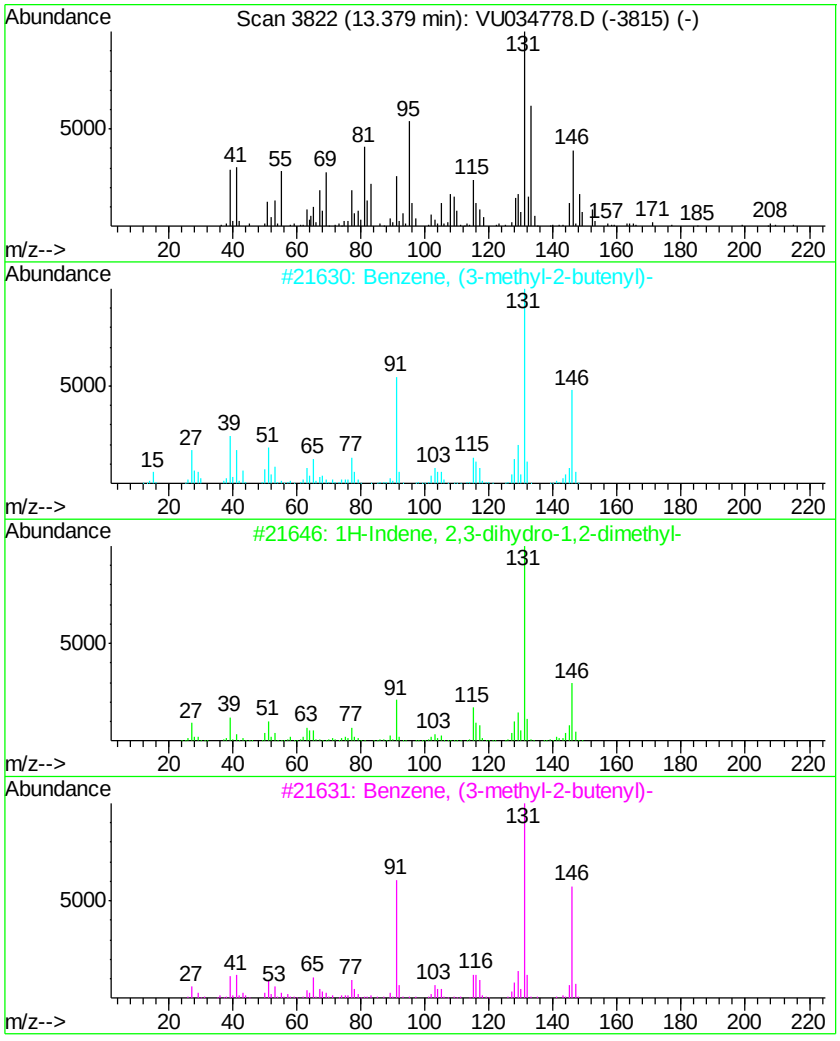
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

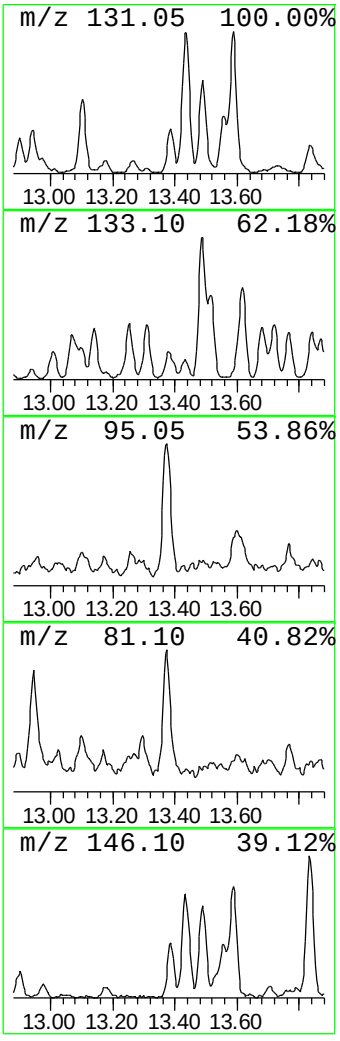
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 40 Benzene, (3-methyl-2-butenyl)- Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	5.41 ug/L	181432	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	58
2	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	58
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	53
4	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	53
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

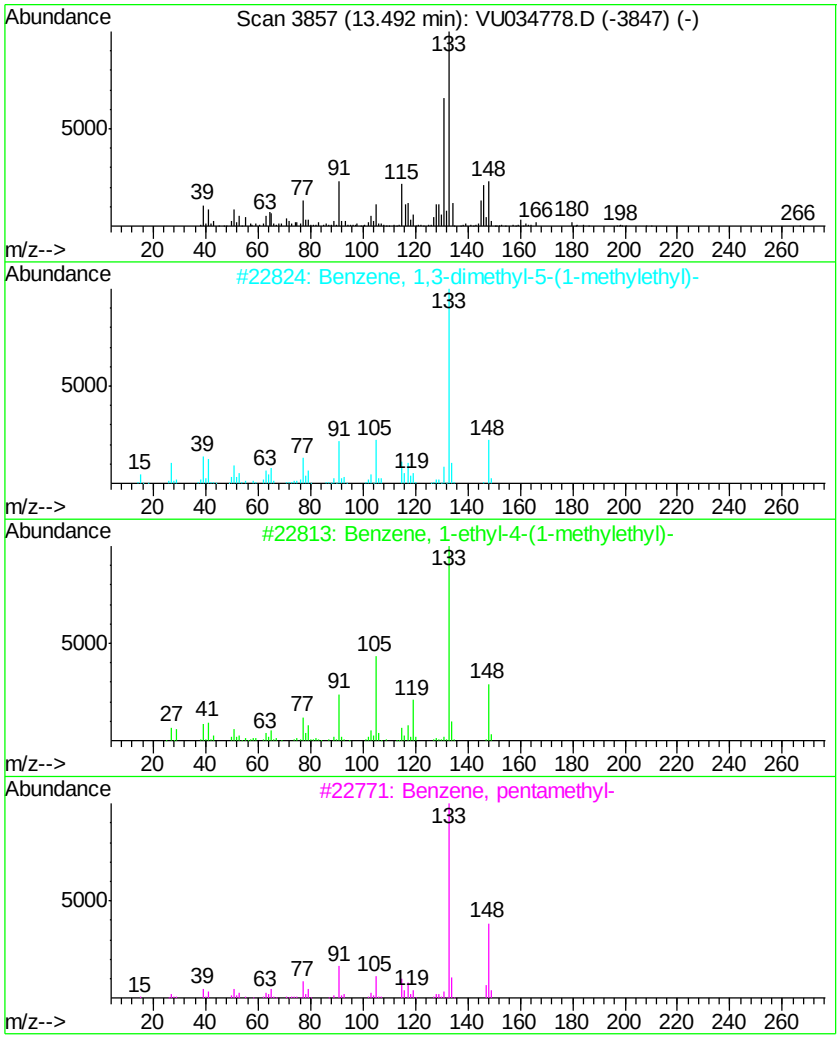
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

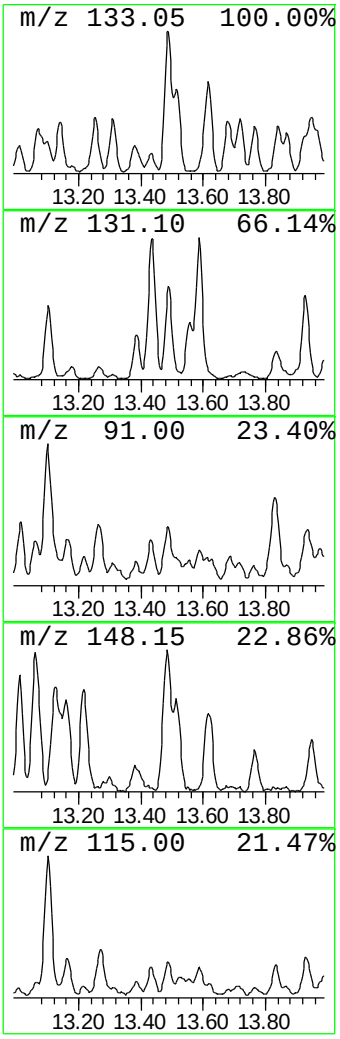
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 42 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	11.38 ug/L	381915	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	50
2	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	49
3	Benzene, pentamethyl-	148	C11H16	000700-12-9	45
4	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	43
5	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	43





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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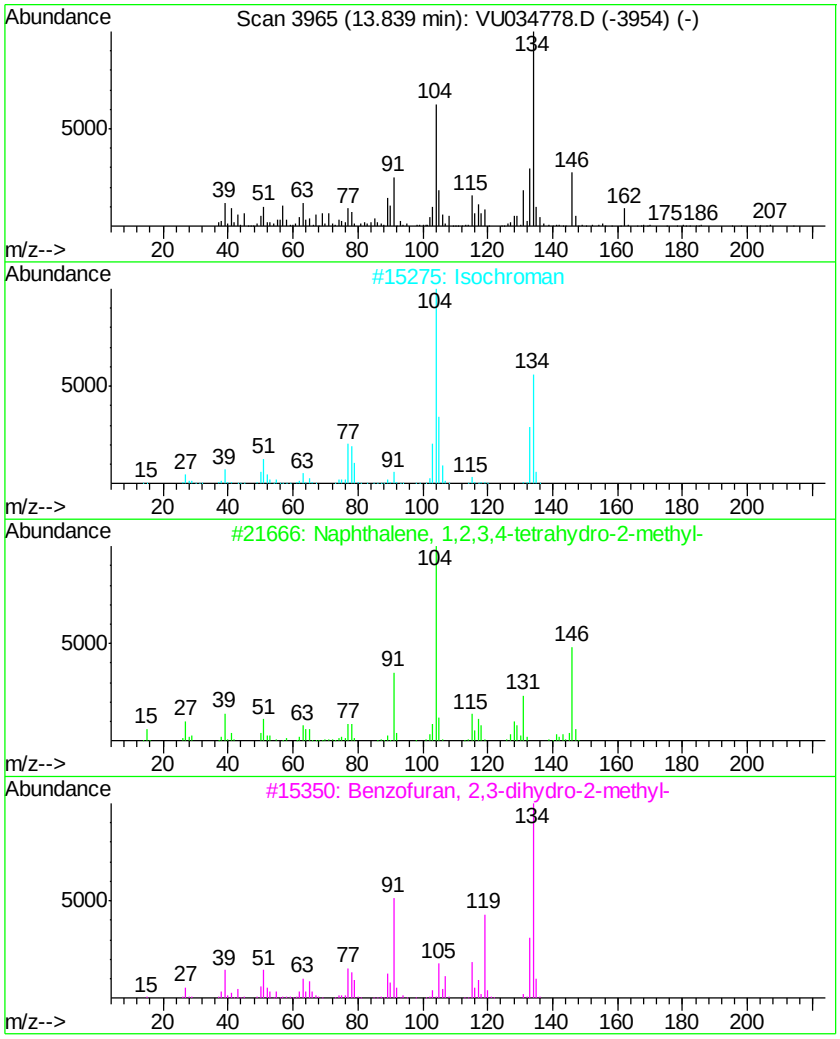
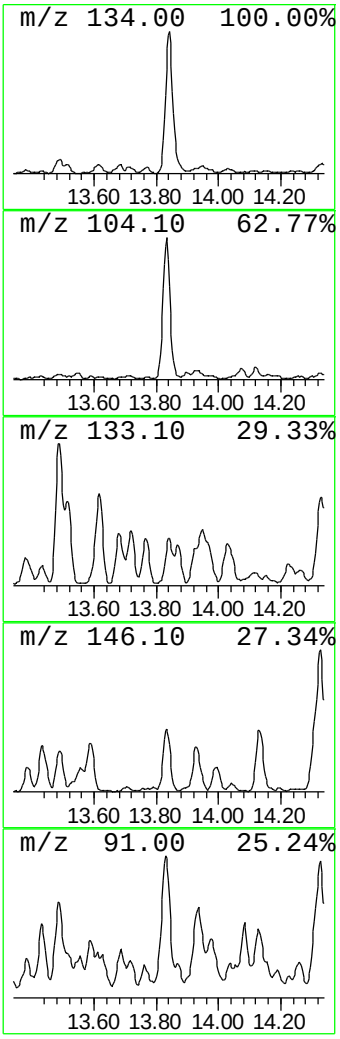
Peak Number 44 Isochroman Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.84	20.33 ug/L	682254	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isochroman	134	C9H10O	000493-05-0	53
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	50
3	Benzofuran, 2,3-dihydro-2-methyl-	134	C9H10O	001746-11-8	50
4	Naphthalene, 1,2,3,4-tetrahydro-...	162	C11H14O	001730-48-9	46
5	Benzofuran, 2,3-dihydro-2-methyl-	134	C9H10O	001746-11-8	43





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

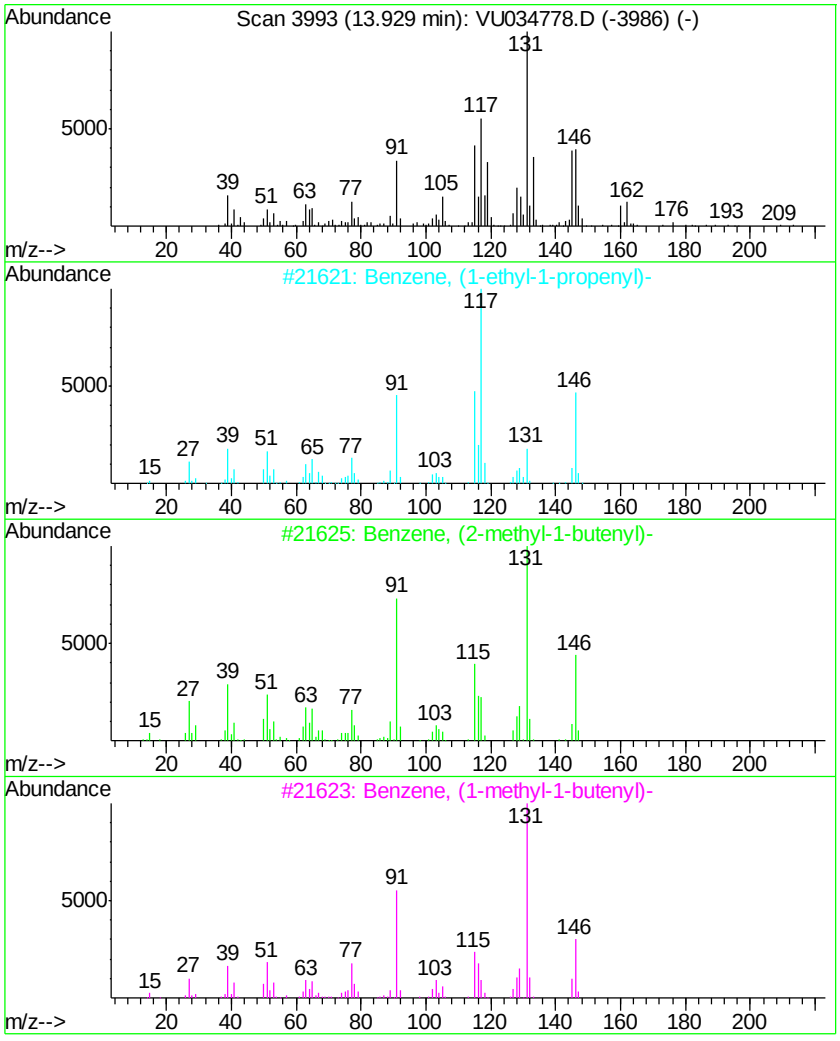
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

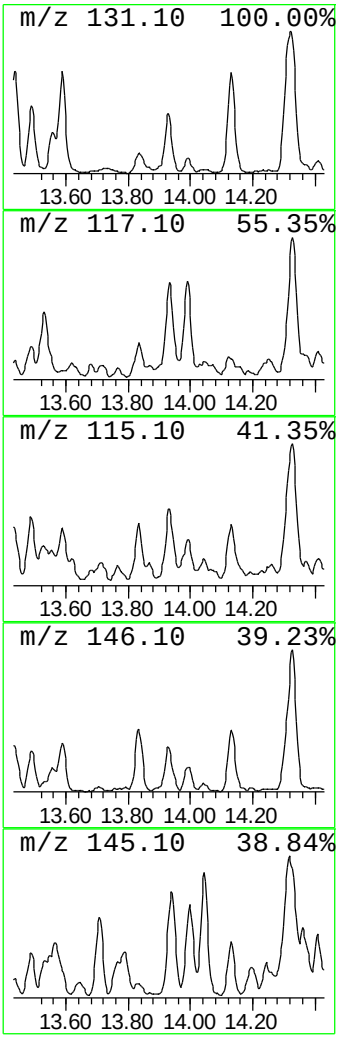
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 45 Benzene, (1-ethyl-1-propenyl)- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.93	10.00 ug/L	335516	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-ethyl-1-propenyl)-	146	C11H14	004701-36-4	70
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	46
3	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	46
4	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	43
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	42





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Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

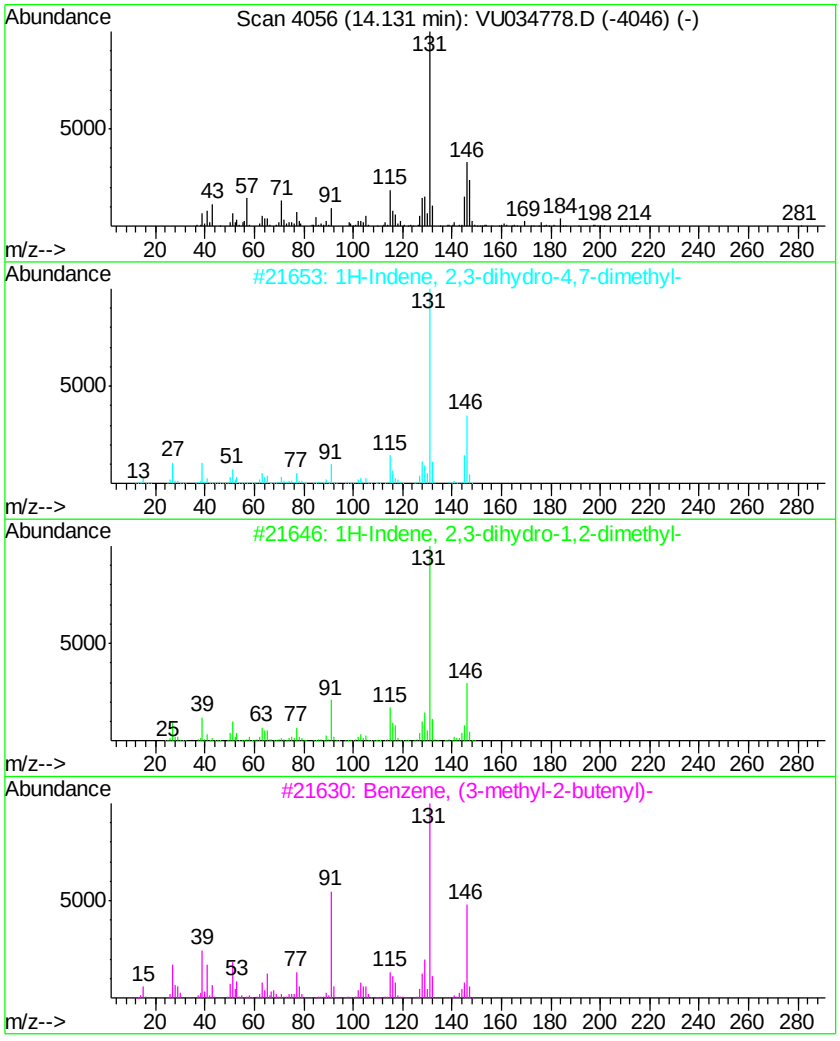
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

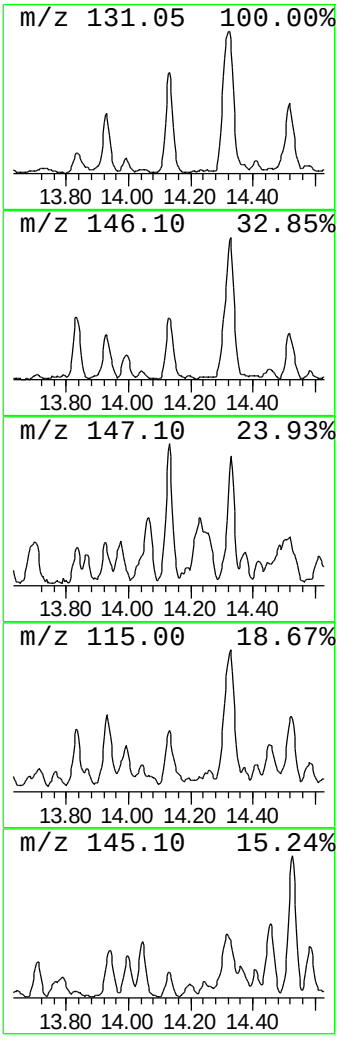
****

Peak Number 46 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.13	12.95 ug/L	434577	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93
2	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	90
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	81
4	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	81
5	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU092419\
Data File : VU034778.D
Acq On : 24 Sep 2019 17:59
Operator : JC/SP
Sample : K4932-04RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : BFDG6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isopropyl Alcohol	2.43	24.0	ug/L	712621	1	5.86	1485470	50.0
(DEL) Alkane: Cyc...	4.07	3.0	ug/L	90309	1	5.86	1485470	50.0
2-Pentanol, 4-met...	7.88	126.1	ug/L	4354590	2	9.07	1726200	50.0
Thiophene, tetrah...	8.44	4.7	ug/L	161731	2	9.07	1726200	50.0
(DEL) Alkane: Str...	9.01	3.9	ug/L	135947	2	9.07	1726200	50.0
(DEL) Alkane: Str...	9.42	6.2	ug/L	215143	2	9.07	1726200	50.0
(DEL) Alkane: Cyc...	9.70	3.6	ug/L	125595	2	9.07	1726200	50.0
2-Heptanone	9.90	5.1	ug/L	177064	2	9.07	1726200	50.0
(DEL) Alkane: Cyc...	10.02	4.0	ug/L	137703	2	9.07	1726200	50.0
Benzene, propyl-	10.57	14.8	ug/L	495581	3	11.46	1677950	50.0
Benzene, 1-ethyl-...	10.66	78.5	ug/L	2636020	3	11.46	1677950	50.0
Benzene, 1,2,3-tr...	10.75	38.9	ug/L	1305740	3	11.46	1677950	50.0
4-Heptanone, 2,6-...	10.89	7.9	ug/L	265098	3	11.46	1677950	50.0
Benzene, 1-ethyl-...	10.95	37.2	ug/L	1247540	3	11.46	1677950	50.0
2-Octanone	11.23	20.8	ug/L	699514	3	11.46	1677950	50.0
2-Dodecanol	11.32	12.2	ug/L	409085	3	11.46	1677950	50.0
Indane	11.74	79.9	ug/L	2681020	3	11.46	1677950	50.0
Indene	11.96	4.6	ug/L	153816	3	11.46	1677950	50.0
Benzene, 1-methyl...	12.03	6.8	ug/L	229970	3	11.46	1677950	50.0
Benzene, 2-ethyl-...	12.12	9.4	ug/L	316445	3	11.46	1677950	50.0
Benzene, 1-methyl...	12.23	11.2	ug/L	374444	3	11.46	1677950	50.0
Benzene, 1-etheny...	12.33	12.9	ug/L	434187	3	11.46	1677950	50.0
Benzene, 1,3-diet...	12.47	3.6	ug/L	120211	3	11.46	1677950	50.0
o-Cymene	12.53	6.1	ug/L	203925	3	11.46	1677950	50.0
unknown-01	12.59	5.2	ug/L	175814	3	11.46	1677950	50.0
Benzene, 1,2,4,5-...	12.63	10.1	ug/L	338342	3	11.46	1677950	50.0
Benzene, 1-methyl...	12.77	5.0	ug/L	169379	3	11.46	1677950	50.0
1H-Indene, 2,3-di...	12.94	14.8	ug/L	497980	3	11.46	1677950	50.0
2-Methyl-7-endo-v...	13.01	4.1	ug/L	137048	3	11.46	1677950	50.0
Benzene, 1-etheny...	13.10	35.3	ug/L	1184310	3	11.46	1677950	50.0
Benzene, (3-methy...	13.38	5.4	ug/L	181432	3	11.46	1677950	50.0
Benzene, 1,3-dime...	13.49	11.4	ug/L	381915	3	11.46	1677950	50.0
Isochroman	13.84	20.3	ug/L	682254	3	11.46	1677950	50.0
Benzene, (1-ethyl...	13.93	10.0	ug/L	335516	3	11.46	1677950	50.0
1H-Indene, 2,3-di...	14.13	12.9	ug/L	434577	3	11.46	1677950	50.0