LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

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\SOMULM042719WMA.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	1.395	88	95	105	rBV	352110	387736	0.16%	0.039%
2	1.678	175	183	195	rBV	324067	413177	0.17%	0.042%
3	2.267	355	366	380	rVB	654024	998782	0.41%	0.101%
4	4.186	951	963	992	rBV	381676	1156670	0.47%	0.117%
5	4.643	1085	1105	1130	rBV	548435	1349021	0.55%	0.137%
6	5.334	1295	1320	1327	rBV2	1200206	3394876	1.39%	0.344%
7	5.382	1328	1335	1360	rVB	1672416	3485772	1.43%	0.353%
8	5.881	1474	1490	1528	rBV	1225721	2497015	1.02%	0.253%
9	6.325	1611	1628	1646	rBV	809655	1651696	0.68%	0.167%
10	7.225	1897	1908	1934	rVB	446219	820787	0.34%	0.083%
11	7.562	1991	2013	2022	rBV	1464597	2586341	1.06%	0.262%
12	7.633	2022	2035	2073	rVB	17976083	32138919	13.16%	3.252%
13	7.845	2086	2101	2115	rVB2	293368	576093	0.24%	0.058%
14	8.312	2231	2246	2266	rBV	1420939	2709336	1.11%	0.274%
15	9.086	2476	2487	2508	rBV	1747846	2939501	1.20%	0.297%
16	9.244	2524	2536	2561	rBV	2600026	4361418	1.79%	0.441%
17	9.369	2561	2575	2591	rVV	18046379	29814988	12.21%	3.017%
18	9.440	2591	2597	2615	rVB	398052	664246	0.27%	0.067%
19	9.553	2622	2632	2653	rVB	47962	133065	0.05%	0.013%
20	9.717	2671	2683	2689	rVV8	52562	110466	0.05%	0.011%
21	9.784	2689	2704	2738	rVB3	21419194	40532948	16.60%	4.101%
22	9.948	2742	2755	2765	rVV3	129820	219805	0.09%	0.022%
23	10.038	2776	2783	2792	rBV4	88078	148490	0.06%	0.015%
24	10.086	2792	2798	2810	rVB2	86241	135151	0.06%	0.014%
25	10.164	2813	2822	2831	rBV2	103242	170910	0.07%	0.017%
26	10.318	2858	2870	2875	rBV5	85088	167152	0.07%	0.017%
27	10.427	2894	2904	2916	rBV	1164327	1978309	0.81%	0.200%
28	10.504	2918	2928	2941	rVB	509704	910932	0.37%	0.092%
29	10.585	2943	2953	2963	rBV	575111	875890	0.36%	0.089%
30	10.678	2971	2982	2998	rBV	2291059	4942482	2.02%	0.500%
31	10.768	2998	3010	3018	rVV	3242175	5527677	2.26%	0.559%
32	10.810	3018	3023	3045	rVB	873533	1287178	0.53%	0.130%
33	10.993	3062	3080	3093	rBV2	1757881	3819819	1.56%	0.387%
34	11.144	3109	3127	3138	rBV	10272566	16684054	6.83%	1.688%

LSC Area Percent Report

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Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

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\SOMULM042719WMA.M
Title : VOC Analysis

35	11.212	3138	3148	3157	rVV	15647665	23458795	9.61%	2.374%
36	11.260	3157	3163	3176	rVB	5536758	8071036	3.31%	0.817%
37	11.328	3177	3184	3195	rVB7	168096	302004	0.12%	0.031%
38	11.395	3197	3205	3211	rBV2	300002	486517	0.20%	0.049%
39	11.479	3222	3231	3241	rBV	1943094	2944416	1.21%	0.298%
40	11.527	3242	3246	3249	rVV2	127775	146402	0.06%	0.015%
41	11.565	3249	3258	3267	rVV	3480010	5232891	2.14%	0.530%
42	11.620	3267	3275	3292	rVB	2320116	3591272	1.47%	0.363%
43	11.697	3294	3299	3308	rVB3	118564	161300	0.07%	0.016%
44	11.762	3308	3319	3328	rBV2	2219056	3717024	1.52%	0.376%
45	11.807	3328	3333	3340	rVV	461180	604913	0.25%	0.061%
46	11.858	3340	3349	3364	rVB4	2052424	4112409	1.68%	0.416%
47	11.980	3374	3387	3397	rBV2	46682167	74898944	30.67%	7.579%
48	12.144	3429	3438	3440	rBV2	467689	583348	0.24%	0.059%
49	12.218	3453	3461	3466	rBV	941974	1476958	0.60%	0.149%
50	12.302	3477	3487	3497	rVB2	927043	1760422	0.72%	0.178%
51	12.353	3498	3503	3510	rBV4	173357	232678	0.10%	0.024%
52	12.421	3513	3524	3535	rVB	4056007	6363955	2.61%	0.644%
53	12.482	3535	3543	3557	rBV2	1050432	1667646	0.68%	0.169%
54	12.546	3558	3563	3571	rVB	169931	224614	0.09%	0.023%
55	12.604	3572	3581	3586	rBV3	364722	600902	0.25%	0.061%
56	12.646	3587	3594	3601	rVB2	846664	1217303	0.50%	0.123%
57	12.704	3601	3612	3624	rBV4	2984094	5913543	2.42%	0.598%
58	12.819	3639	3648	3657	rBV	2959814	4712352	1.93%	0.477%
59	12.961	3684	3692	3706	rVB	751478	1130989	0.46%	0.114%
60	13.032	3707	3714	3721	rBV5	180618	294701	0.12%	0.030%
61	13.080	3722	3729	3732	rBV2	411524	508384	0.21%	0.051%
62	13.118	3732	3741	3750	rVV3	3718093	6157490	2.52%	0.623%
63	13.180	3750	3760	3773	rVB	11968207	18361238	7.52%	1.858%
64	13.289	3781	3794	3811	rBV	13940021	22966373	9.41%	2.324%
65	13.382	3812	3823	3839	rVB2	1766556	3384238	1.39%	0.342%
66	13.456	3841	3846	3852	rVB3	134969	155516	0.06%	0.016%
67	13.508	3856	3862	3869	rBV3	271334	380025	0.16%	0.038%
68	13.636	3891	3902	3908	rBV2	235872	481241	0.20%	0.049%
69	13.755	3920	3939	3951	rBV4	128358178	244169443	100.00%	24.707%
70	13.858	3963	3971	3985	rVB	2486808	3976884	1.63%	0.402%
71	14.138	4051	4058	4064	rBV2	925410	1349047	0.55%	0.137%

LSC Area Percent Report

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Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

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\SOMULM042719WMA.M
Title : VOC Analysis

72	14.237	4084	4089	4096	rVB3	647408	827203	0.34%	0.084%
73	14.279	4096	4102	4109	rVB	733424	1024237	0.42%	0.104%
74	14.334	4109	4119	4128	rBV2	1959960	3480370	1.43%	0.352%
75	14.459	4143	4158	4175	rBV3	1559560	3809441	1.56%	0.385%
76	14.581	4189	4196	4211	rVB	793481	1259772	0.52%	0.127%
77	14.659	4213	4220	4222	rBV3	386650	468909	0.19%	0.047%
78	14.726	4234	4241	4259	rVB2	1461090	2603465	1.07%	0.263%
79	14.816	4261	4269	4275	rBV	867574	1293597	0.53%	0.131%
80	14.880	4275	4289	4304	rVB3	78899058	138881877	56.88%	14.053%
81	14.987	4314	4322	4332	rVB	496234	843742	0.35%	0.085%
82	15.061	4332	4345	4362	rBV2	55268074	91157508	37.33%	9.224%
83	15.601	4502	4513	4524	rBV	8789734	13266724	5.43%	1.342%
84	15.794	4557	4573	4580	rBV	2651534	4417009	1.81%	0.447%
85	15.909	4596	4609	4627	rBV	12060358	21182832	8.68%	2.143%
86	15.996	4631	4636	4643	rVV	665647	1101081	0.45%	0.111%
87	16.054	4643	4654	4661	rVV	14383207	23428765	9.60%	2.371%
88	16.093	4661	4666	4680	rVV	7396540	10656180	4.36%	1.078%
89	16.183	4684	4694	4706	rVV	4600711	7265916	2.98%	0.735%
90	16.279	4707	4724	4746	rVB	3383047	9012920	3.69%	0.912%
91	16.427	4760	4770	4785	rVB	1836047	2903375	1.19%	0.294%
92	16.517	4786	4798	4820	rBV	11403970	19314554	7.91%	1.954%
93	16.626	4825	4832	4843	rVB2	402578	677717	0.28%	0.069%
94	16.732	4855	4865	4873	rBV	992870	1689227	0.69%	0.171%
95	16.864	4900	4906	4914	rVB2	88325	119241	0.05%	0.012%
96	16.967	4932	4938	4945	rVB2	262528	367109	0.15%	0.037%
97	17.015	4946	4953	4979	rVB3	295881	776557	0.32%	0.079%
98	17.160	4990	4998	5009	rVB2	324421	513148	0.21%	0.052%
99	17.224	5010	5018	5030	rVB2	161463	258727	0.11%	0.026%
100	17.527	5103	5112	5126	rVB3	152929	274769	0.11%	0.028%

Sum of corrected areas: 988263887

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
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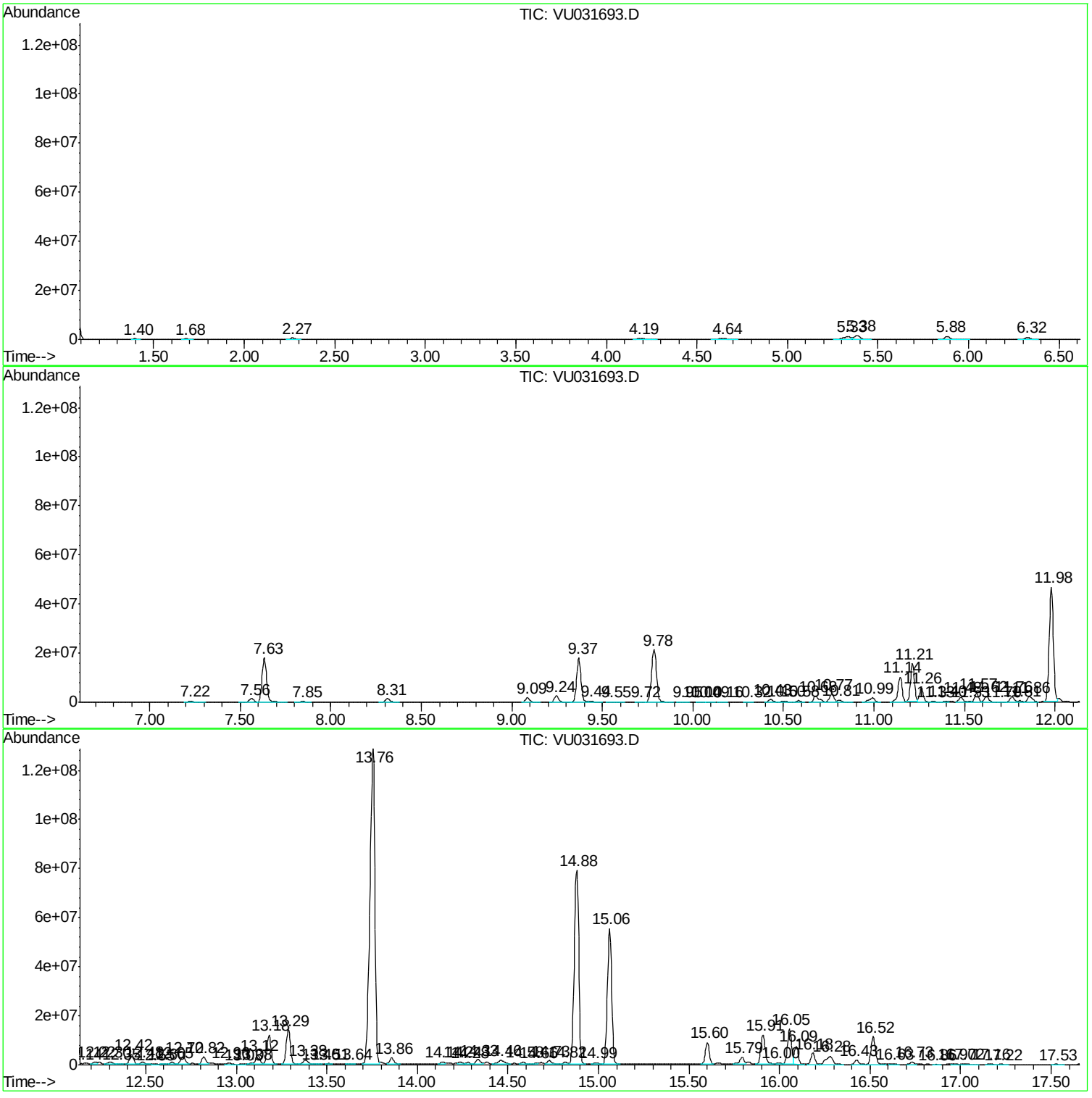
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

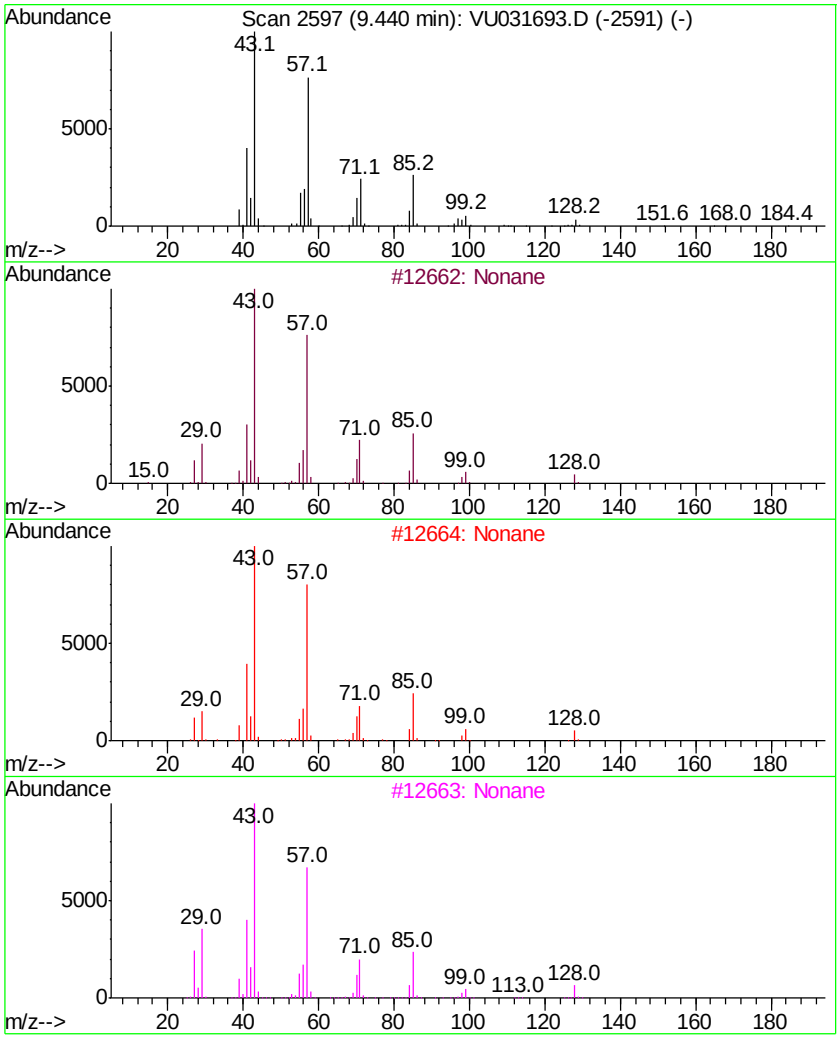
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

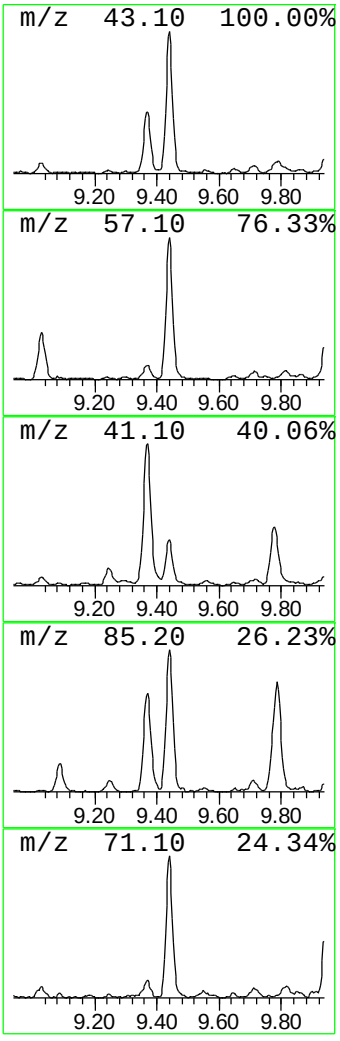
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	11.30 ug/L	664246	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane	128	C9H20	000111-84-2	94
2	Nonane	128	C9H20	000111-84-2	91
3	Nonane	128	C9H20	000111-84-2	90
4	Decane	142	C10H22	000124-18-5	72
5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

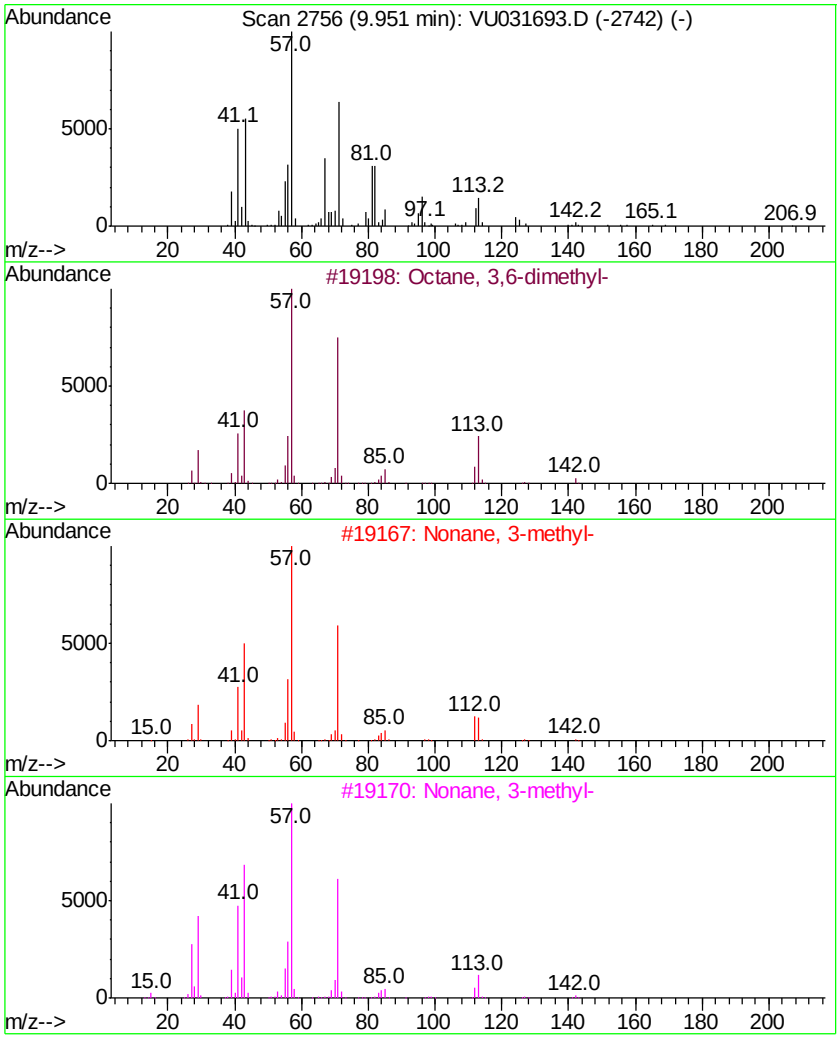
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

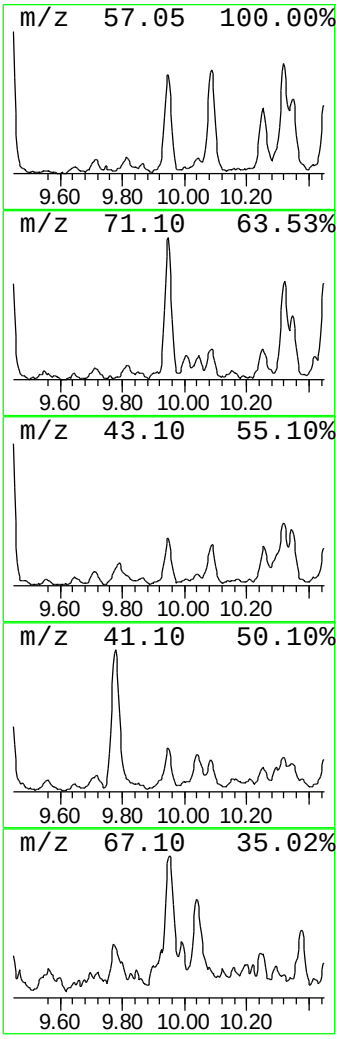
****

Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	3.74 ug/L	219805	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	60
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	60
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	60
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	60
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	55





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ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

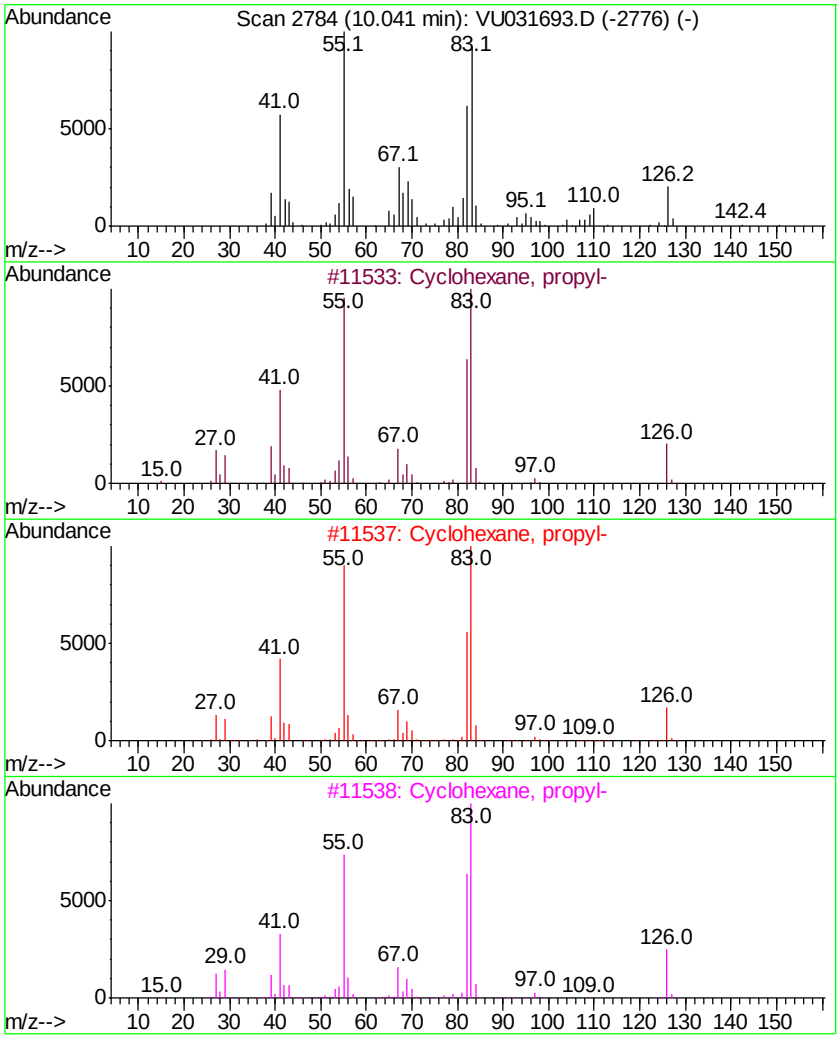
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

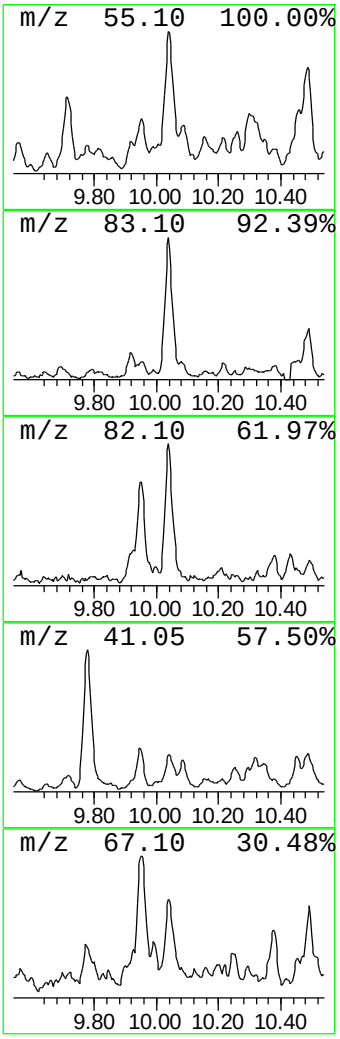
****

Peak Number 4 (DEL) Alkane: Cyclic10.04 Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	2.53 ug/L	148490	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, propyl-	126	C9H18	001678-92-8	87
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	83
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	83
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	80
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	70





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
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Acq On : 01 May 2019 18:35
Operator : JC/SP
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Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

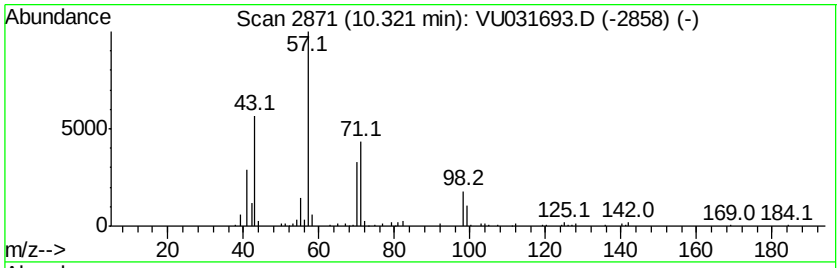
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

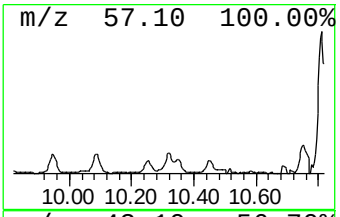
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

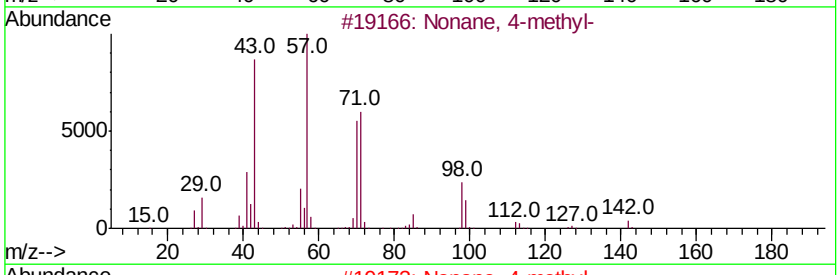
****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 70

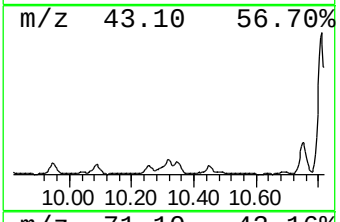
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.32	2.84 ug/L	167152	1,4-Dichlorobenzene-d4	11.48

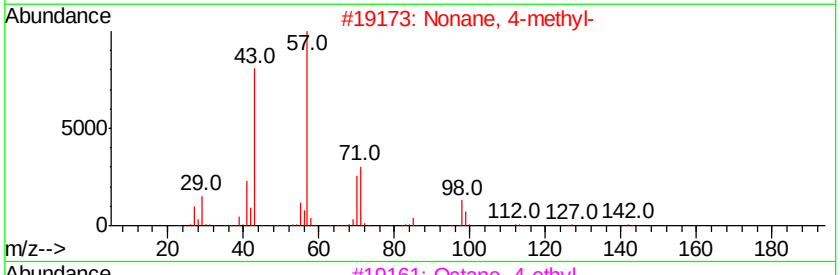
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4-methyl-	142	C10H22	017301-94-9	80
2	Nonane, 4-methyl-	142	C10H22	017301-94-9	64
3	Octane, 4-ethyl-	142	C10H22	015869-86-0	64
4	Nonane, 2-methyl-	142	C10H22	000871-83-0	59
5	Pentane, 2,2,3,3-tetramethyl-	128	C9H20	007154-79-2	53

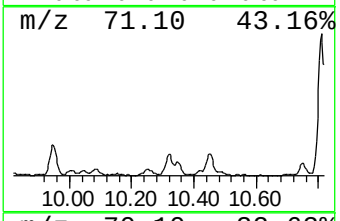


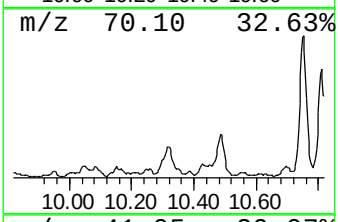


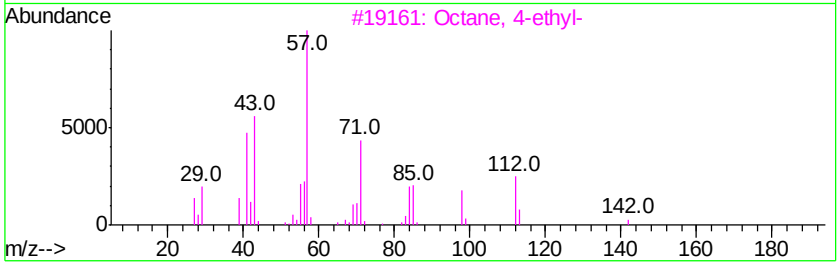


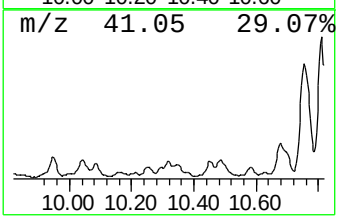












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

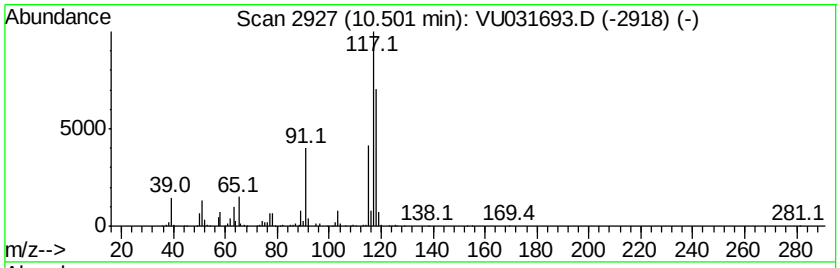
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

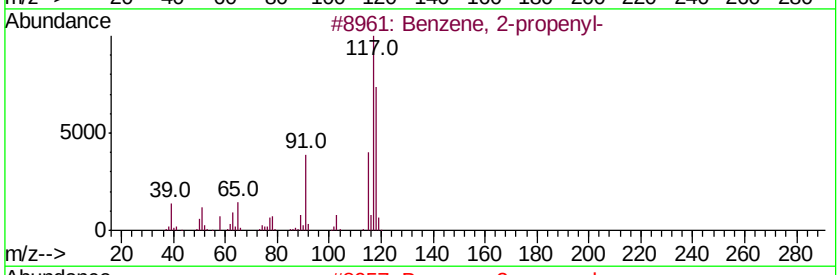
****

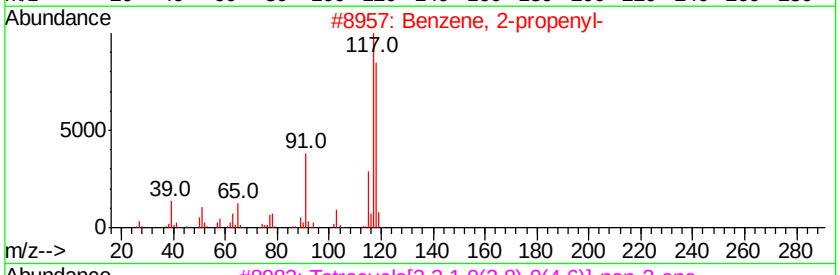
Peak Number 6 Benzene, 2-propenyl- Concentration Rank 47

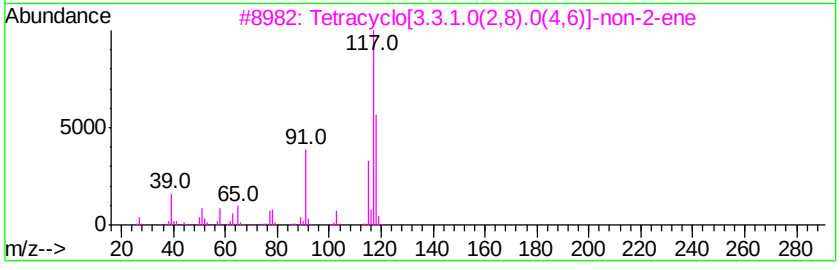
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.50	15.47 ug/L	910932	1,4-Dichlorobenzene-d4	11.48

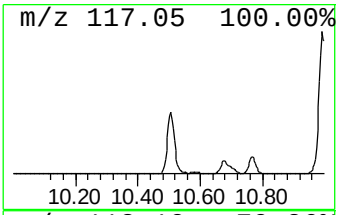
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-propenyl-	118	C9H10	000300-57-2	96
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	96
3	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	95
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	94
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	94

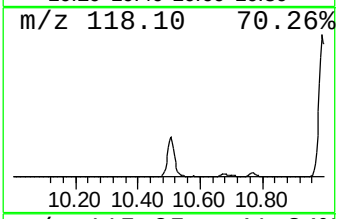


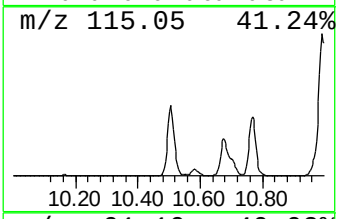


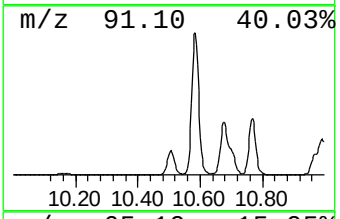


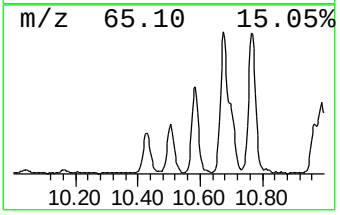












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

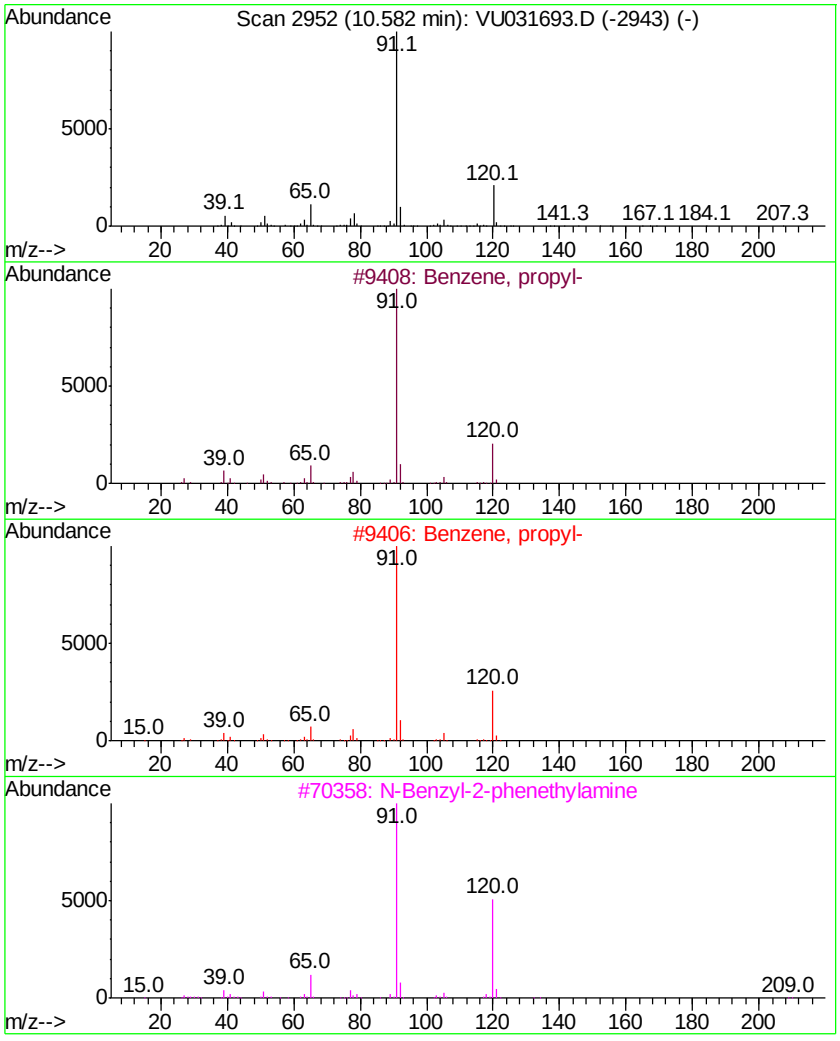
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

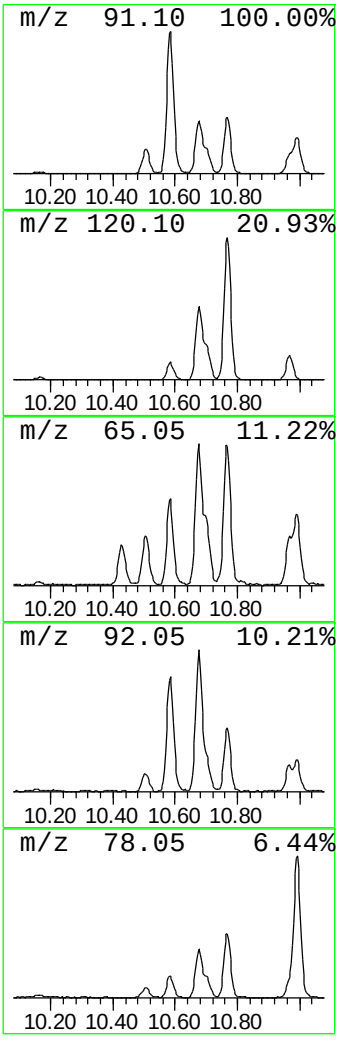
****

Peak Number 7 Benzene, propyl- Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	14.87 ug/L	875890	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	Benzene, propyl-	120	C9H12	000103-65-1	86
3	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	72
4	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	72
5	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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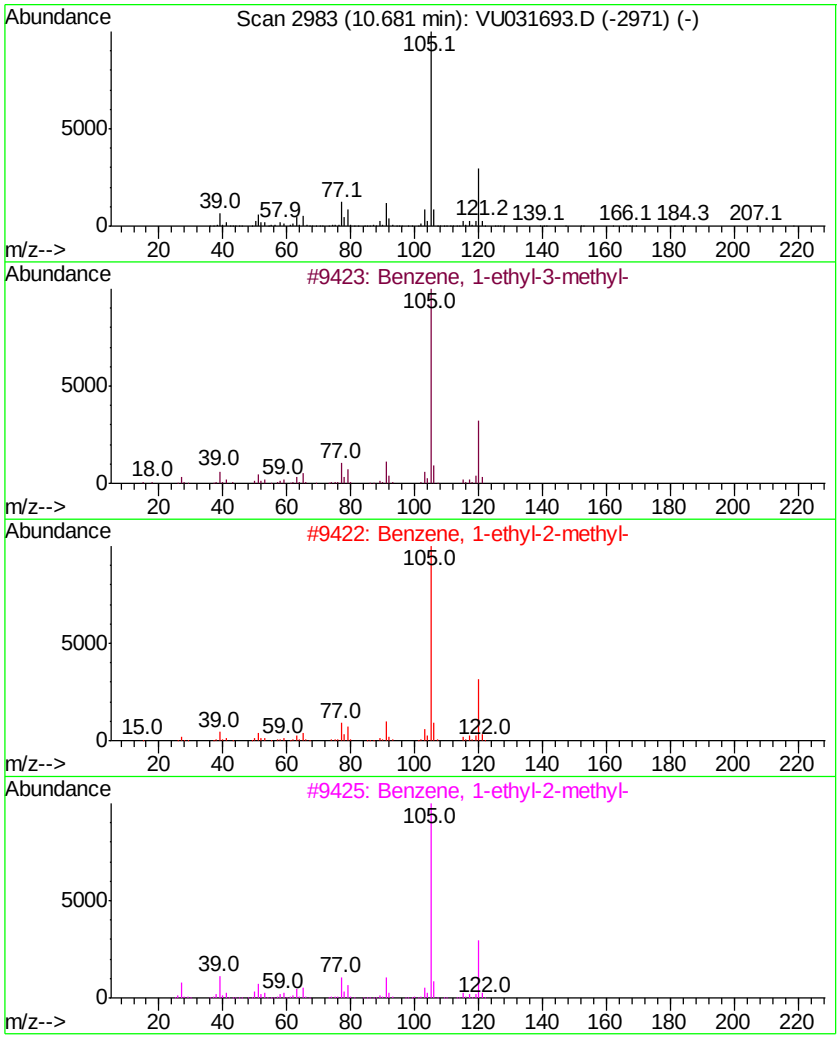
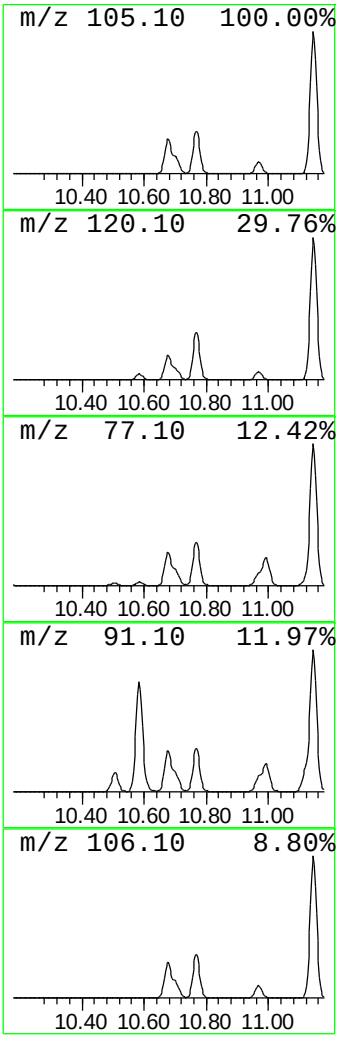
Peak Number 8 Benzene, 1-ethyl-3-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	83.93 ug/L	4942480	1,4-Dichlorobenzene-d4	11.48

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	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

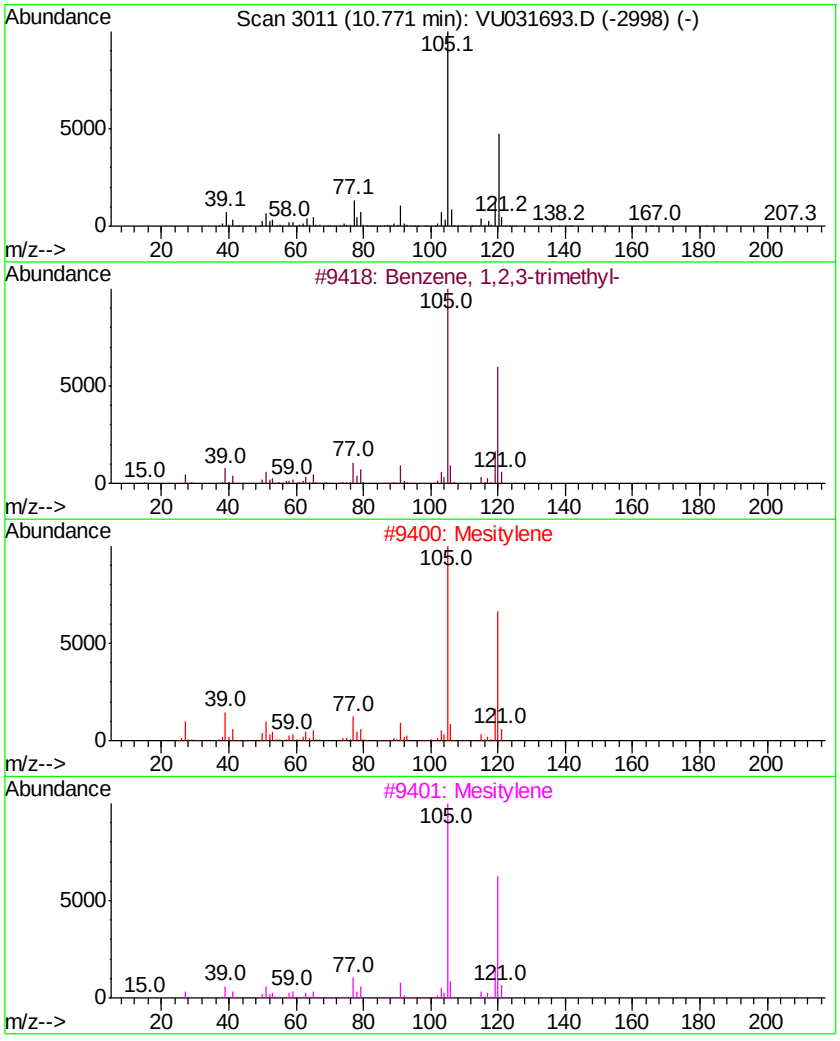
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

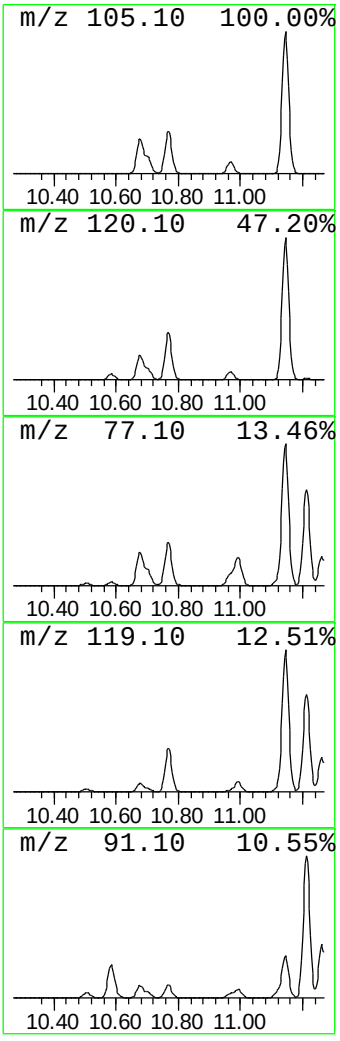
****

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	93.87 ug/L	5527680	1,4-Dichlorobenzene-d4	11.48

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	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

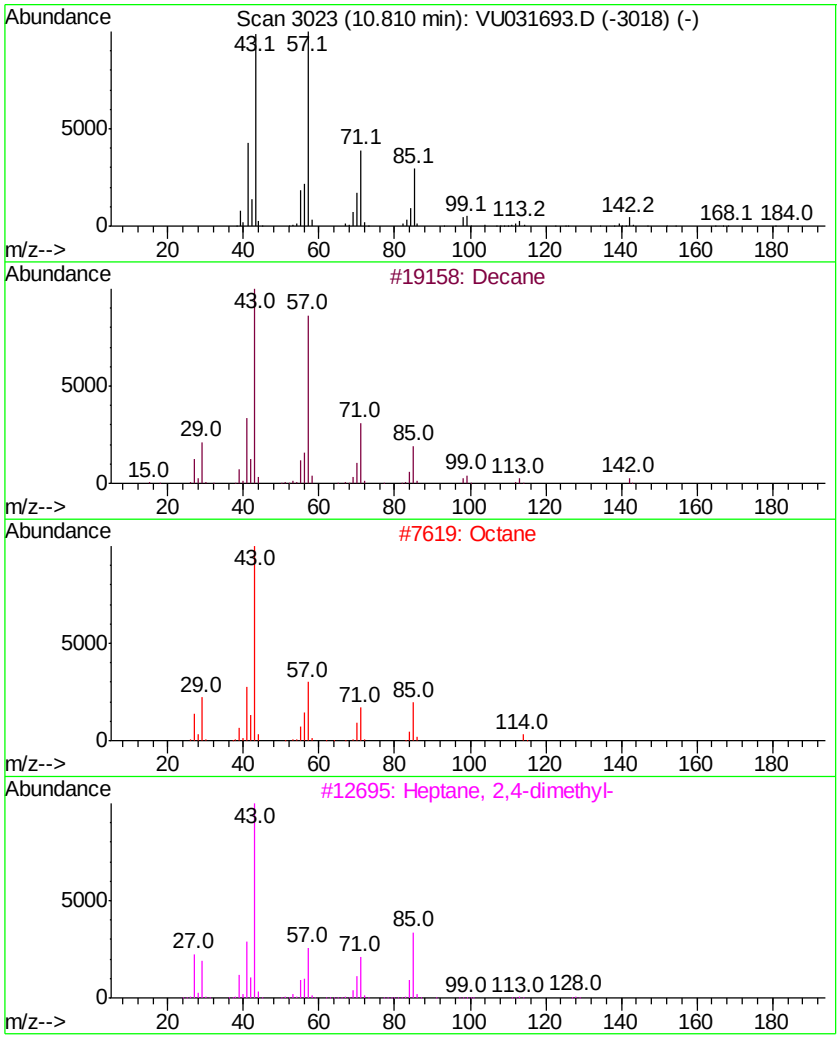
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

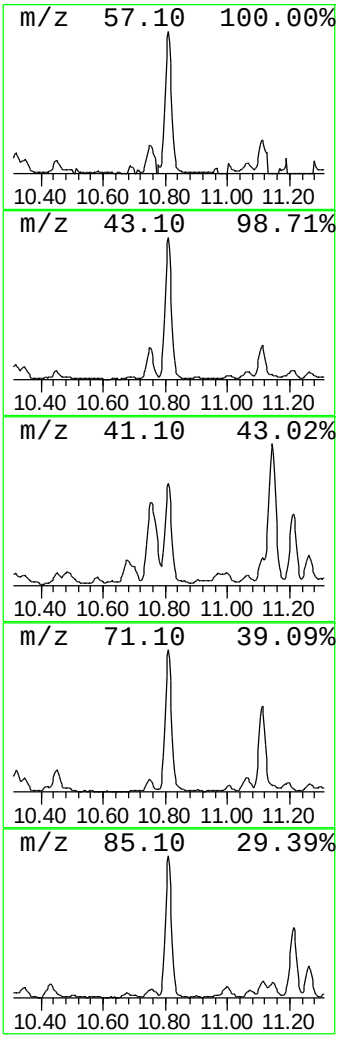
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.81	21.86 ug/L	1287180	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	91
2	Octane	114	C8H18	000111-65-9	72
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
4	Tetradecane	198	C14H30	000629-59-4	72
5	Undecane	156	C11H24	001120-21-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

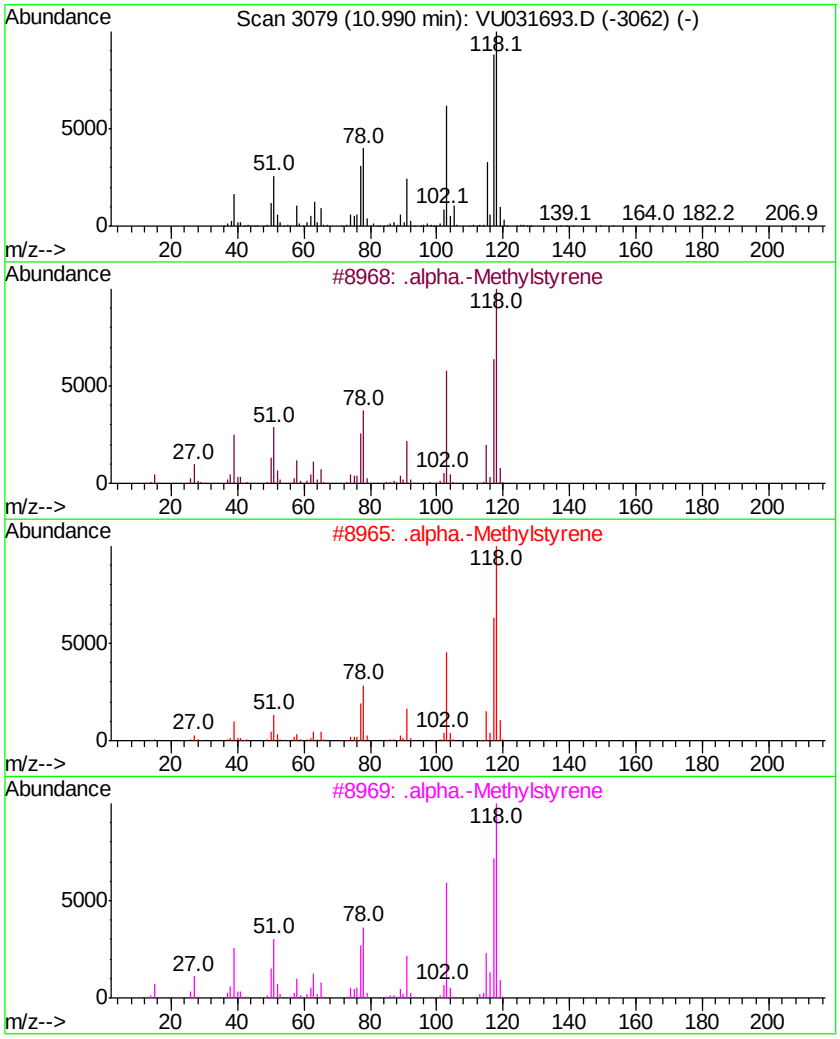
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

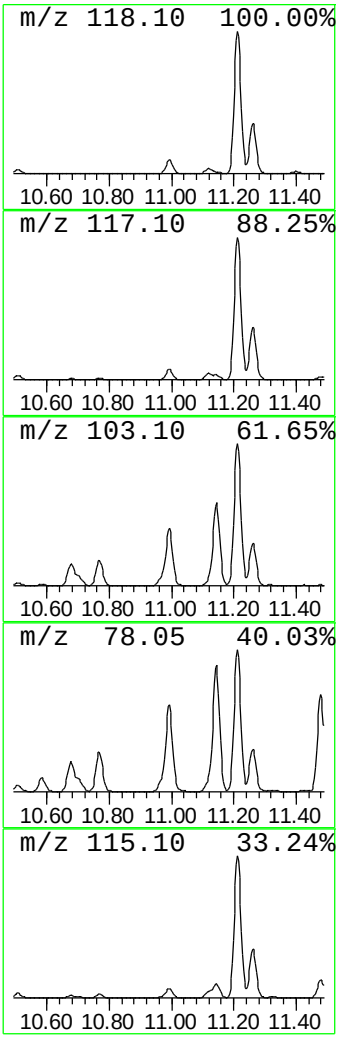
****

Peak Number 11 .alpha.-Methylstyrene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	64.87 ug/L	3819820	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Methylstyrene	118	C9H10	000098-83-9	96
2	.alpha.-Methylstyrene	118	C9H10	000098-83-9	95
3	.alpha.-Methylstyrene	118	C9H10	000098-83-9	93
4	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	55
5	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	47





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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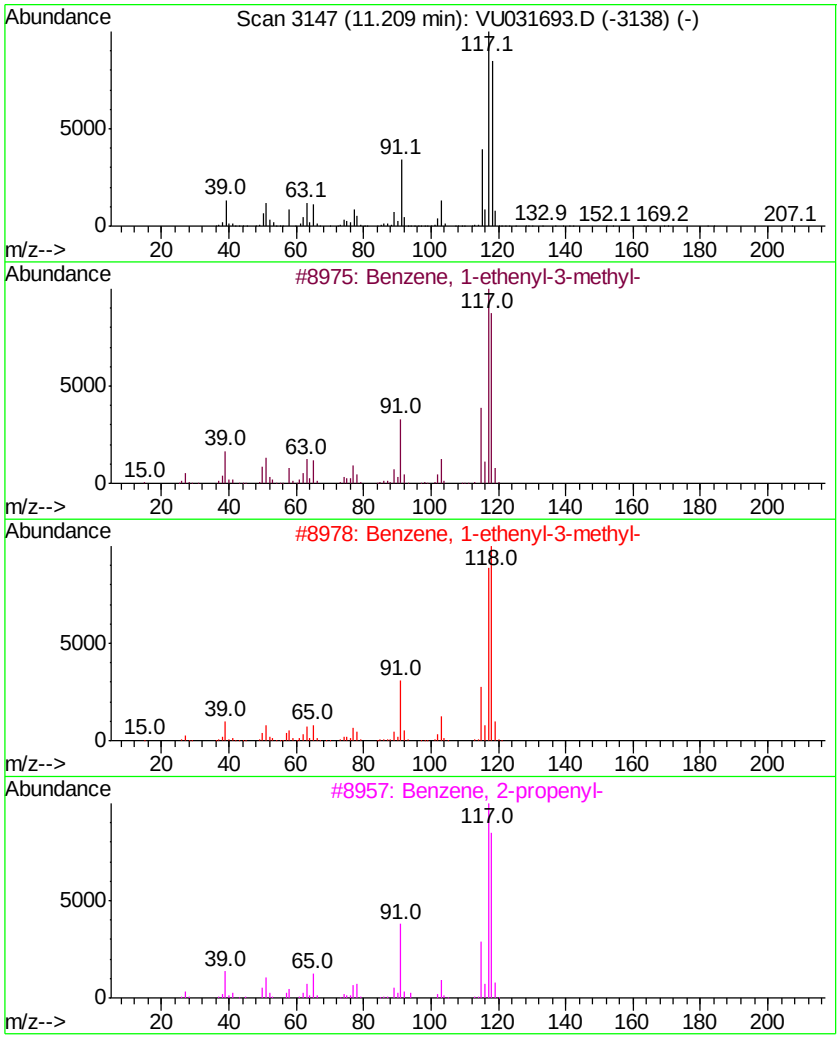
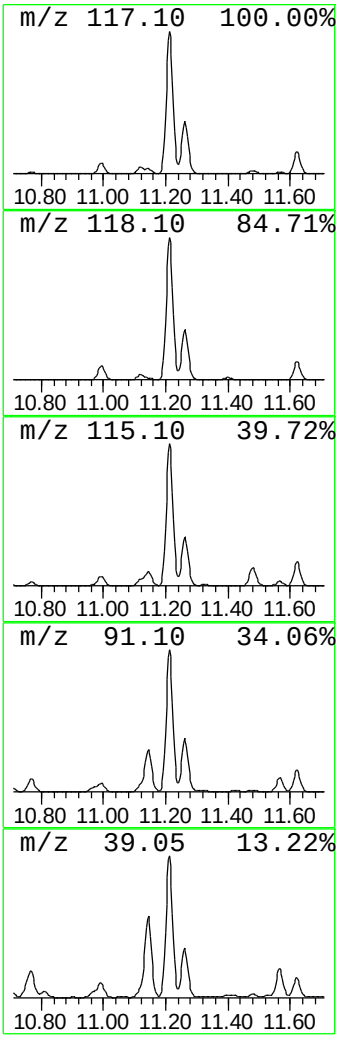
Peak Number 13 Benzene, 1-ethenyl-3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	398.36 ug/L	23458800	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	96
2	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	96
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	95
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	95
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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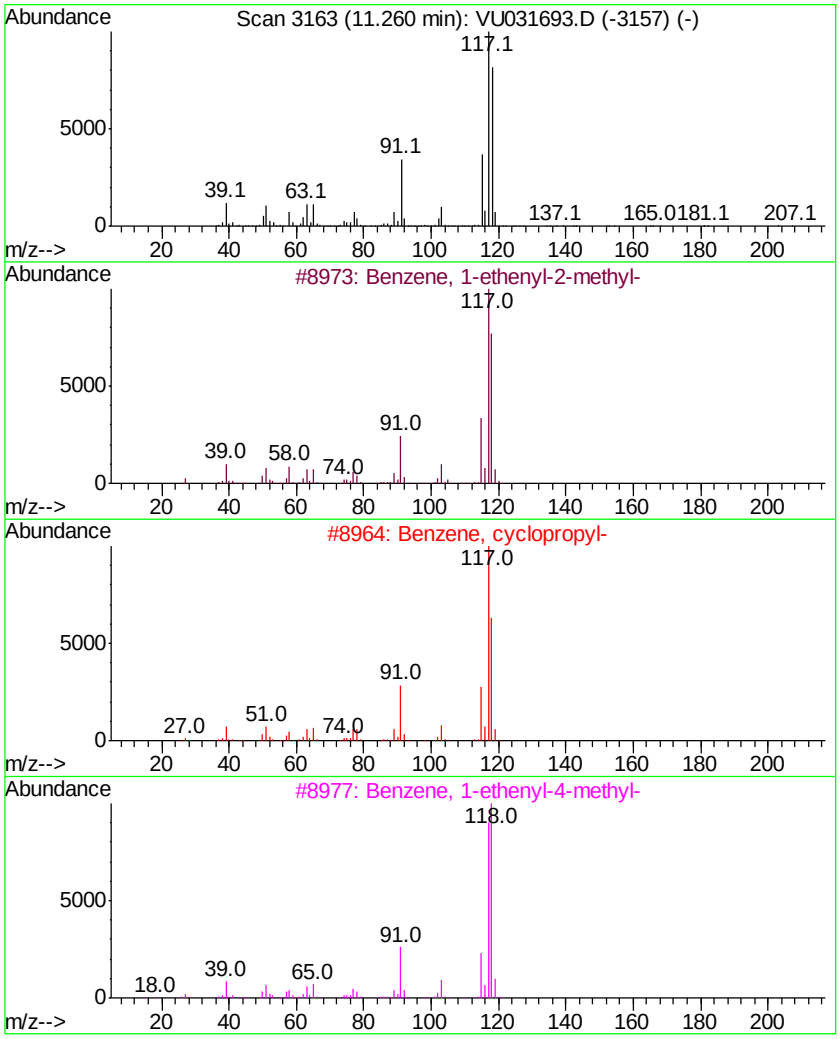
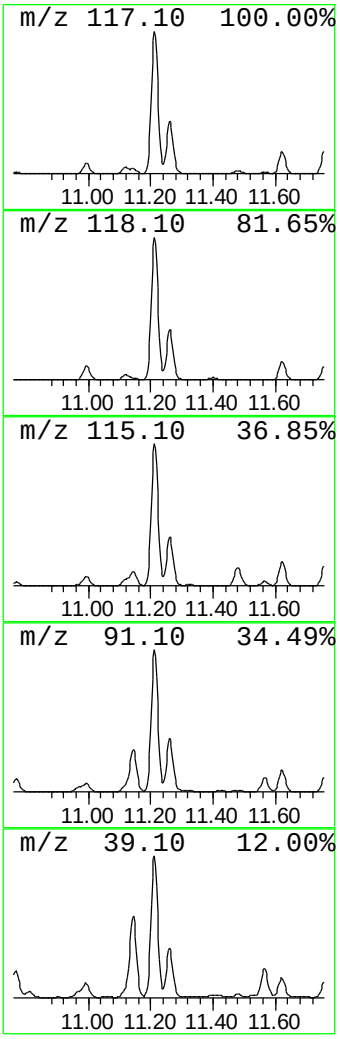
Peak Number 14 Benzene, 1-ethenyl-2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	137.06 ug/L	8071040	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	94
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	94
3	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	93
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	93
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	93





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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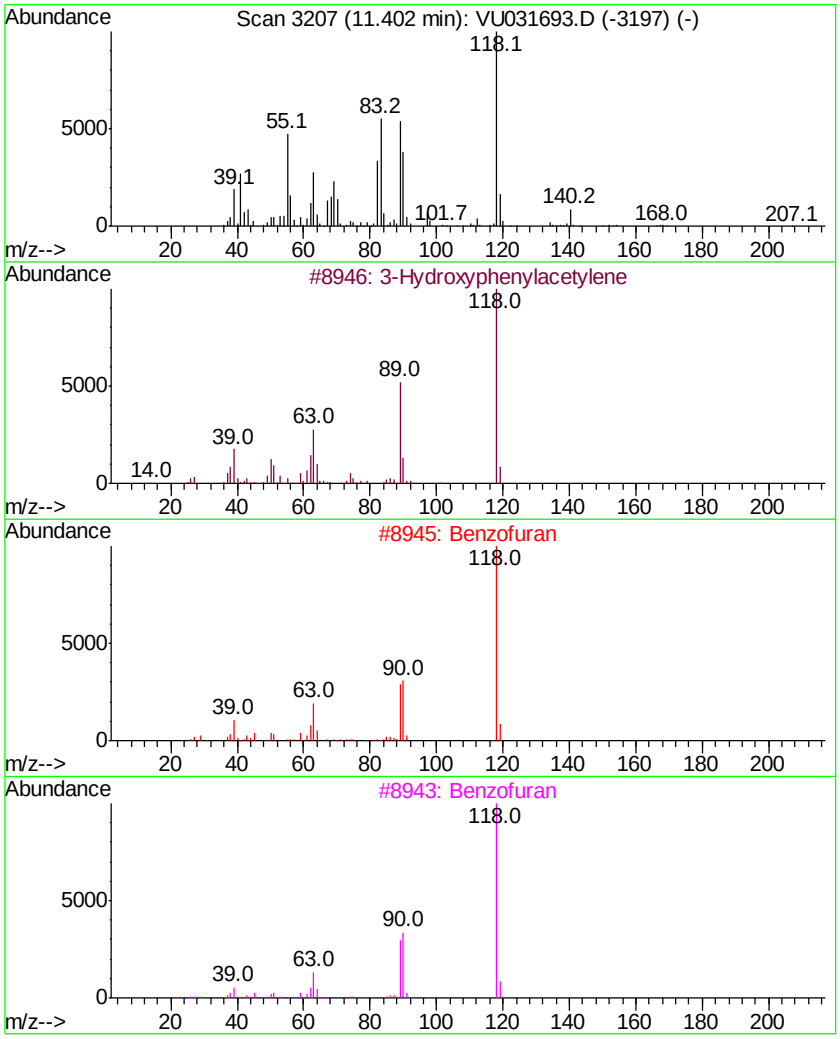
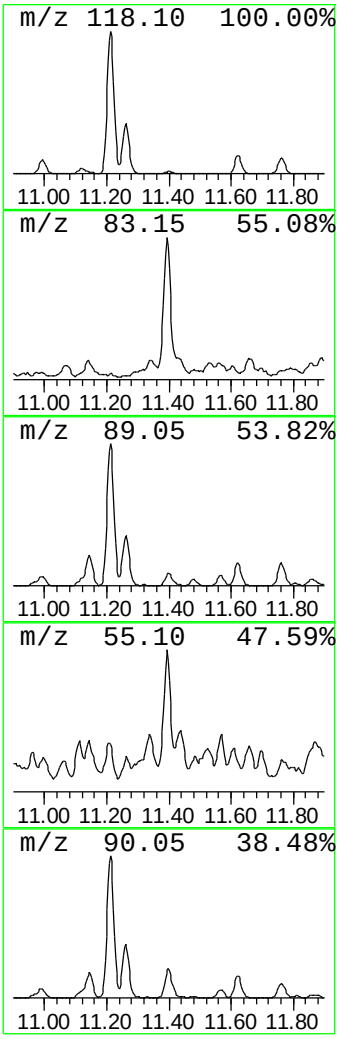
Peak Number 16 3-Hydroxyphenylacetylene Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	8.26 ug/L	486517	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hydroxyphenylacetylene	118	C8H6O	010401-11-3	83
2	Benzofuran	118	C8H6O	000271-89-6	70
3	Benzofuran	118	C8H6O	000271-89-6	50
4	Benzofuran	118	C8H6O	000271-89-6	49
5	Coumarin	146	C9H6O2	000091-64-5	43





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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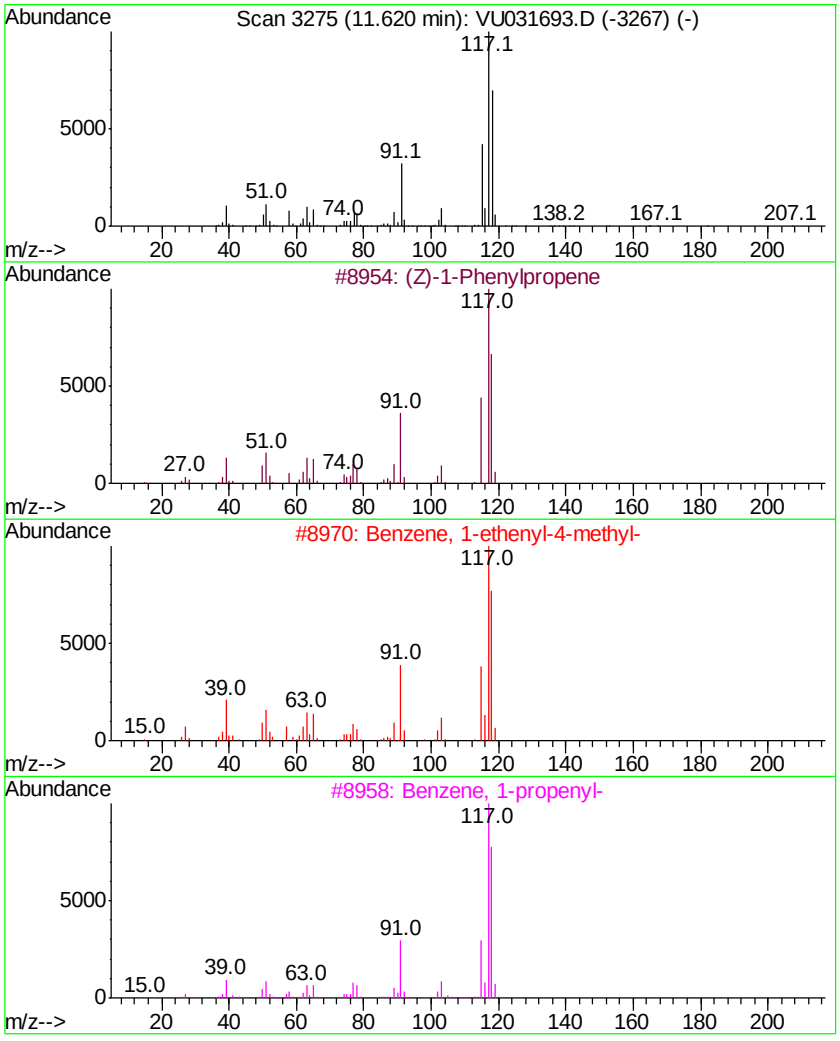
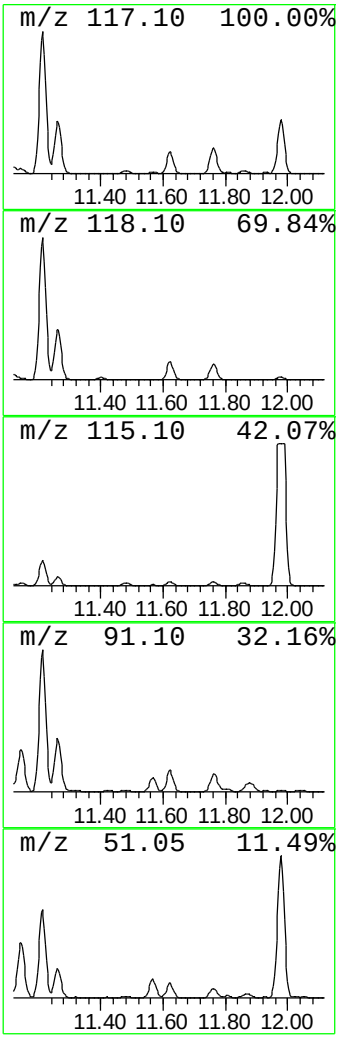
Peak Number 18 (Z)-1-Phenylpropene Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	60.98 ug/L	3591270	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	95
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	95
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	95
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	93
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	93





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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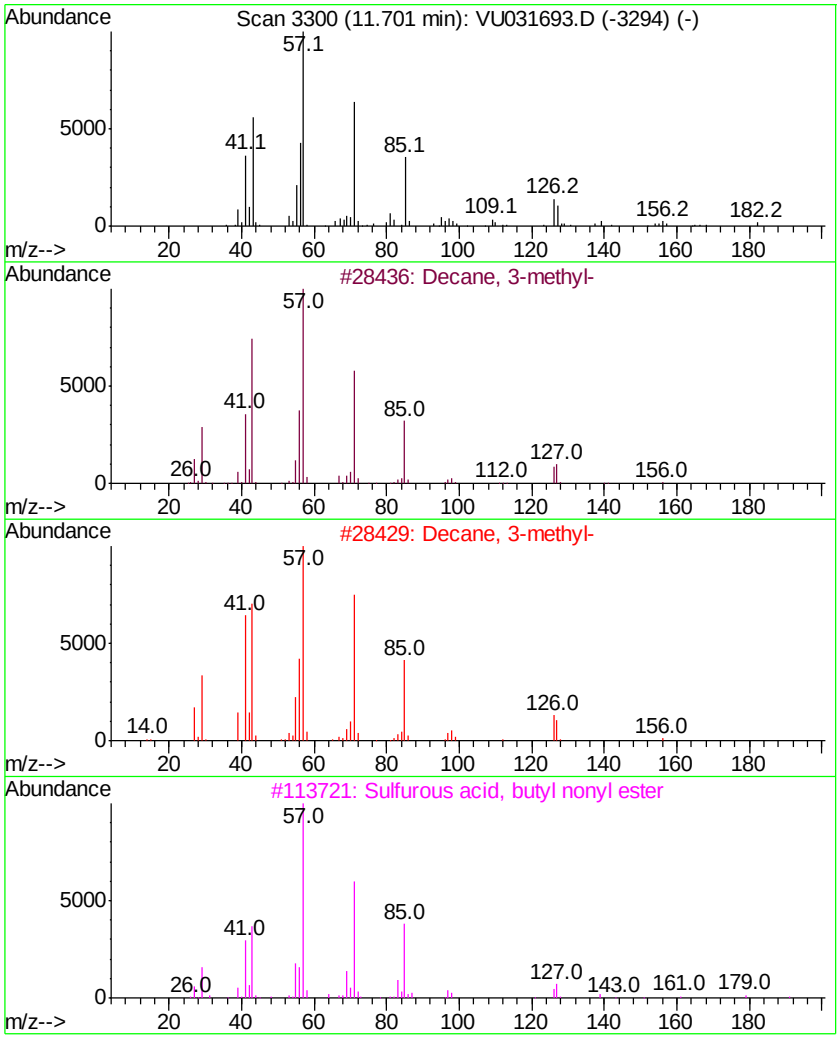
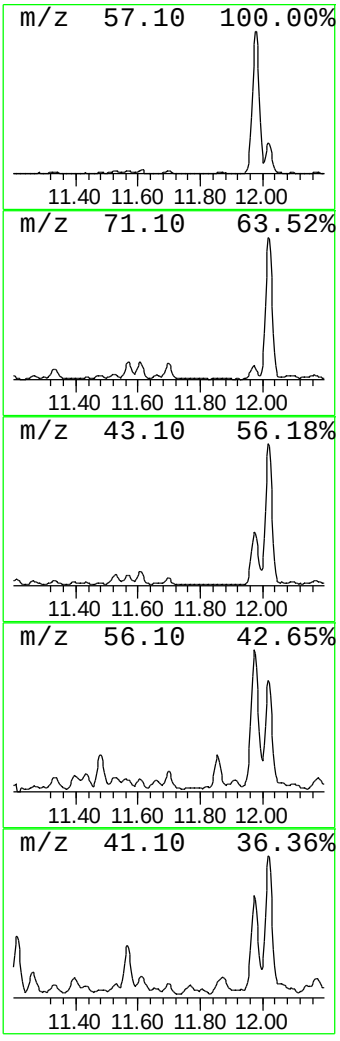
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	2.74 ug/L	161300	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3-methyl-	156	C11H24	013151-34-3	83
2	Decane, 3-methyl-	156	C11H24	013151-34-3	83
3	Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	59
4	Nonane, 3-methyl-	142	C10H22	005911-04-6	52
5	Decane, 2,9-dimethyl-	170	C12H26	001002-17-1	50





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Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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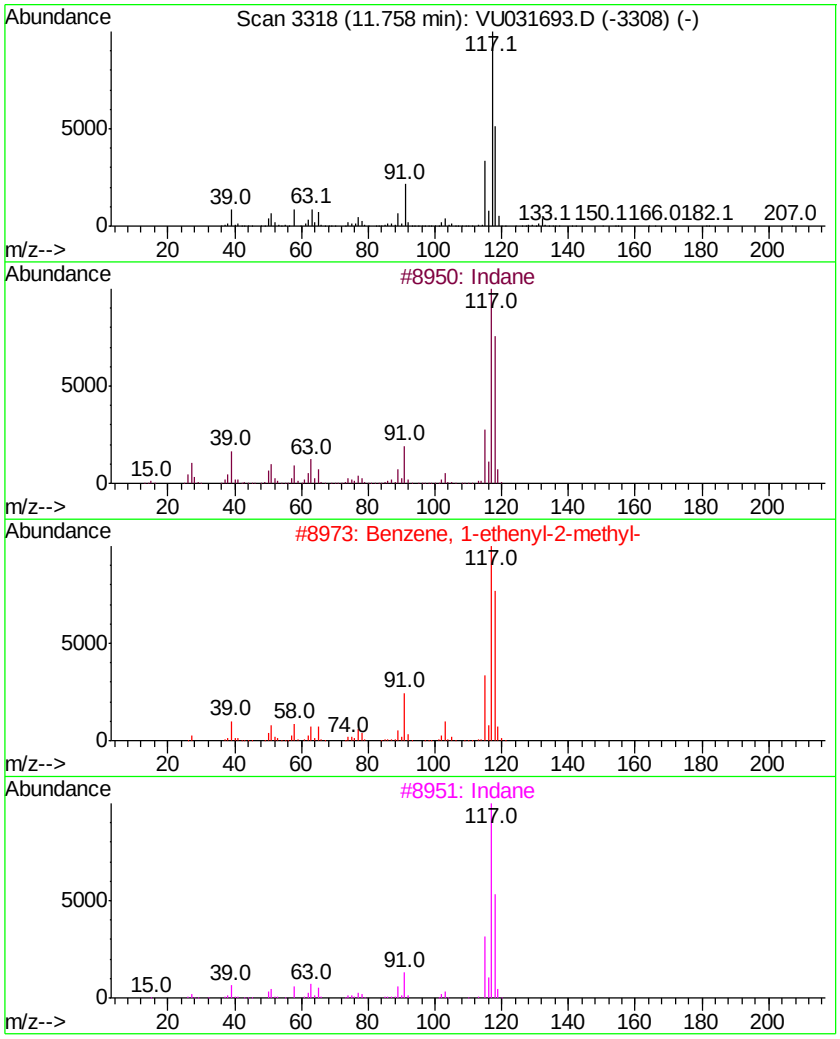
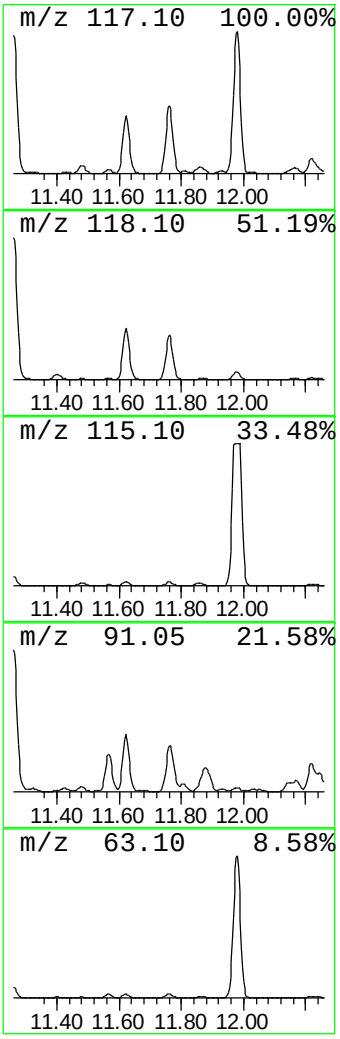
Peak Number 20 Indane Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	63.12 ug/L	3717020	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	90
2	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	89
3	Indane	118	C9H10	000496-11-7	87
4	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	81
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	68





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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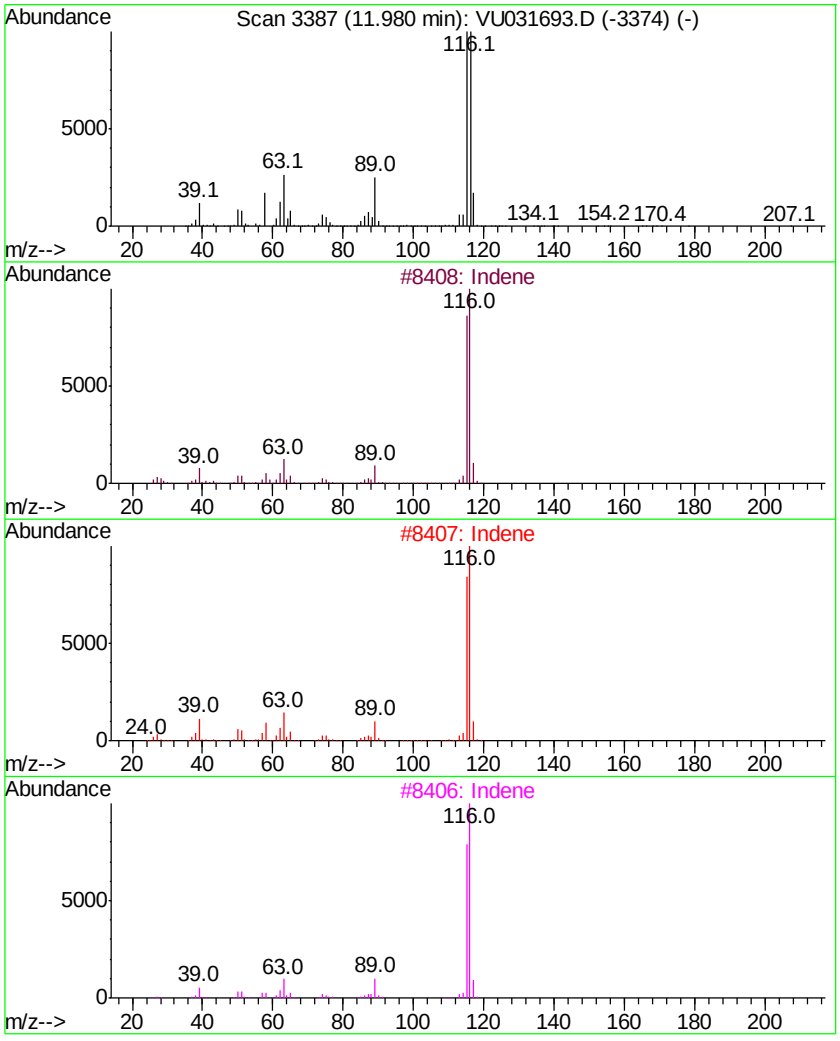
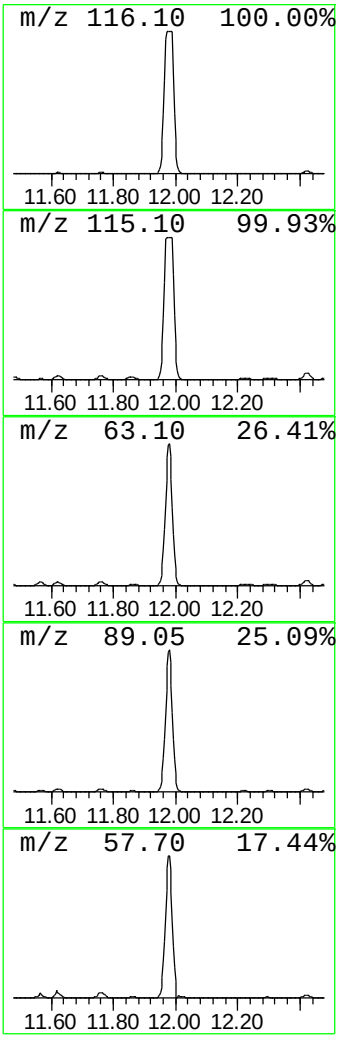
Peak Number 21 Indene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	1271.88 ug/L	74898900	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	97
2	Indene	116	C9H8	000095-13-6	97
3	Indene	116	C9H8	000095-13-6	91
4	1-Propyne, 3-phenyl-	116	C9H8	010147-11-2	91
5	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	90





Library Search Compound Report

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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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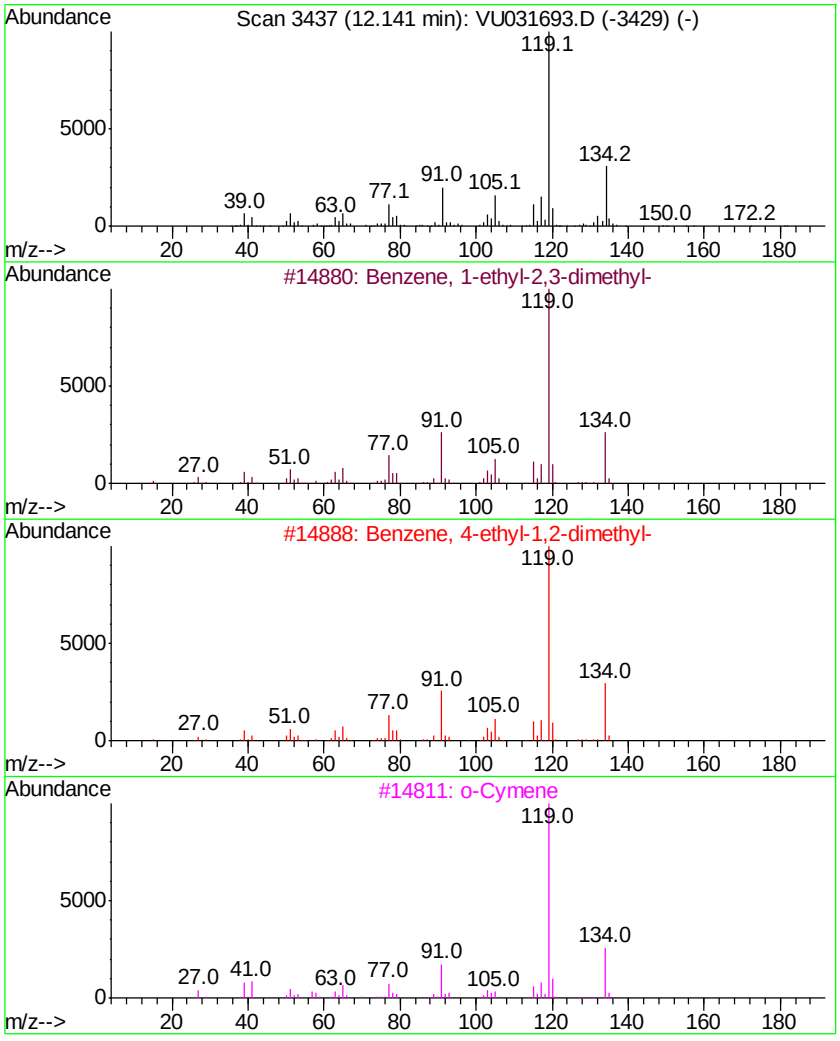
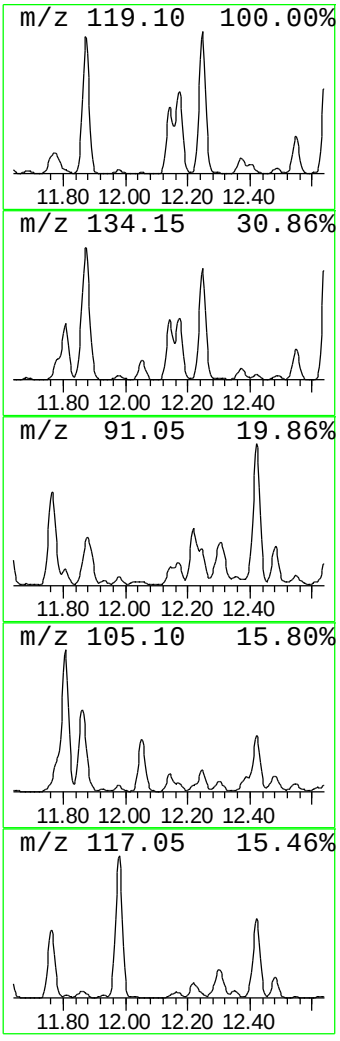
Peak Number 22 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	9.91 ug/L	583348	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
3	o-Cymene	134	C10H14	000527-84-4	93
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
5	p-Cymene	134	C10H14	000099-87-6	90





Library Search Compound Report

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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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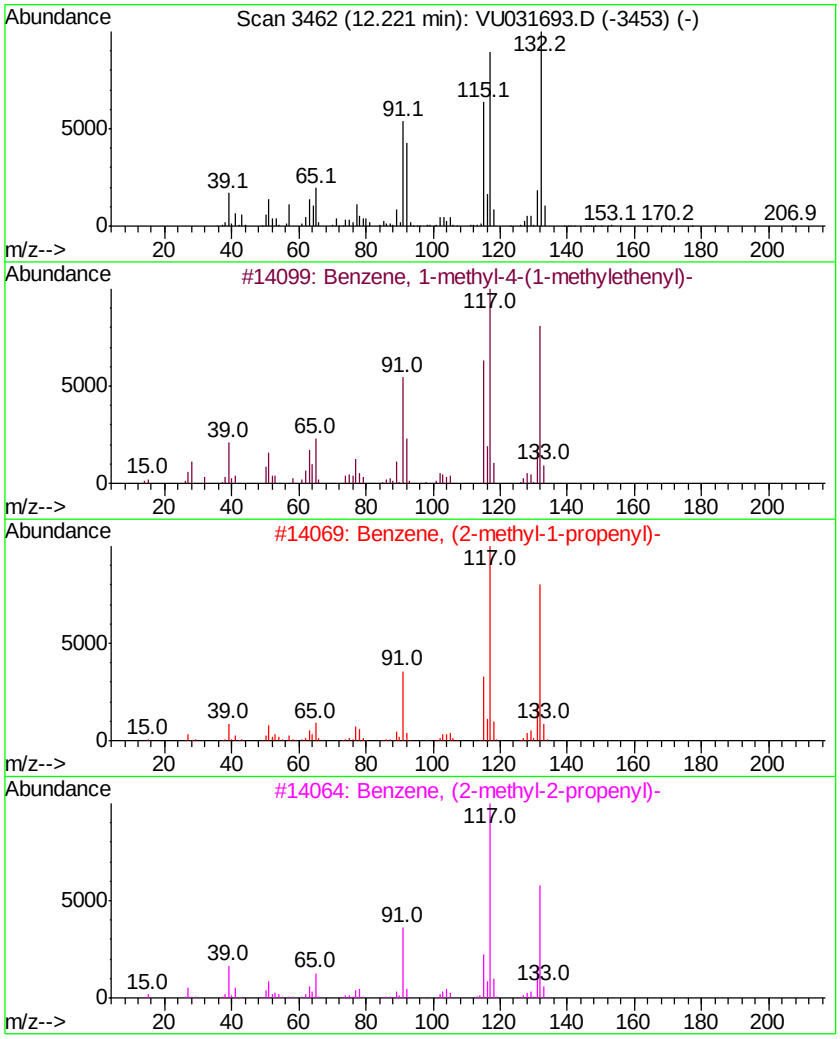
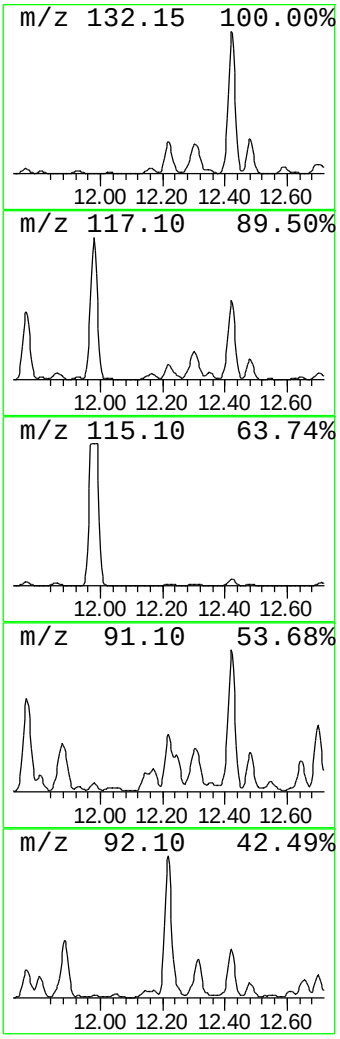
Peak Number 23 Benzene, 1-methyl-4-(1-meth... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	25.08 ug/L	1476960	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methyleth...	132	C10H12	001195-32-0	95
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	86
3	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	86
4	Benzene, 1-methyl-4-(1-methyleth...	132	C10H12	001195-32-0	81
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	76





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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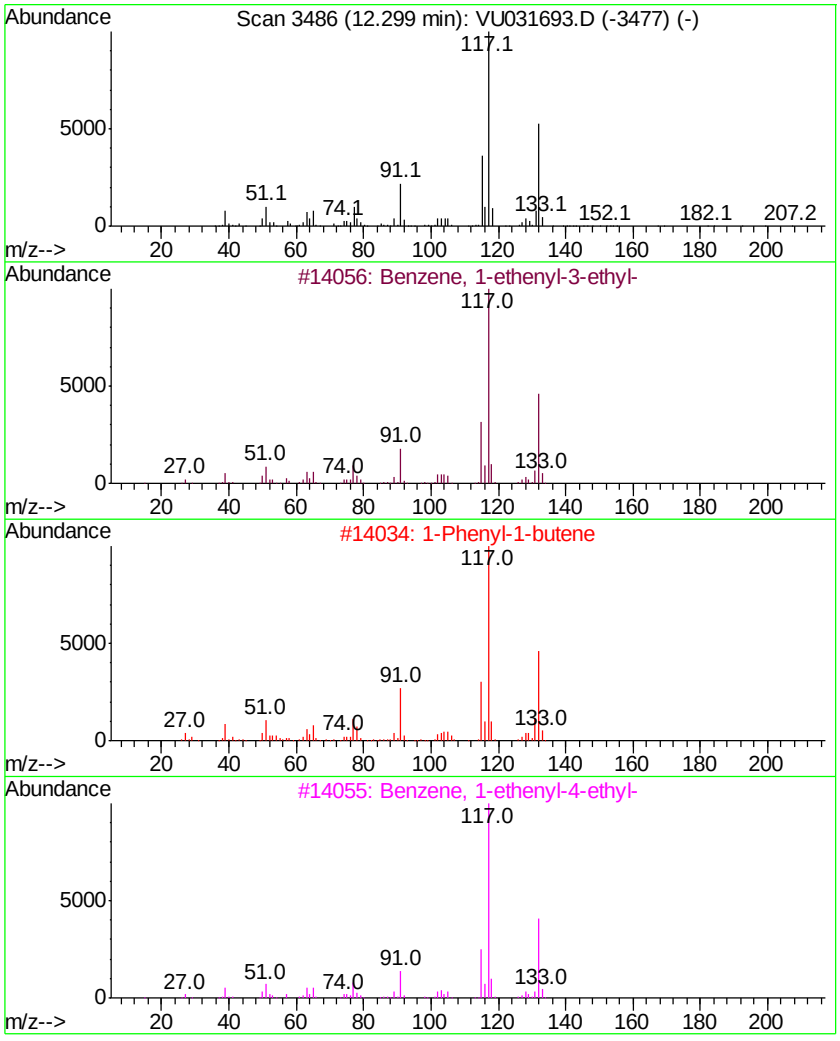
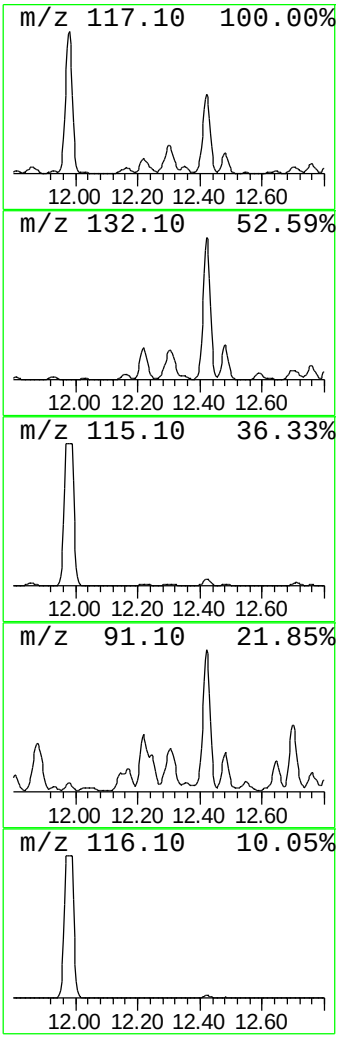
Peak Number 24 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	29.89 ug/L	1760420	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	97
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	94
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	91
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
5	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	91





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Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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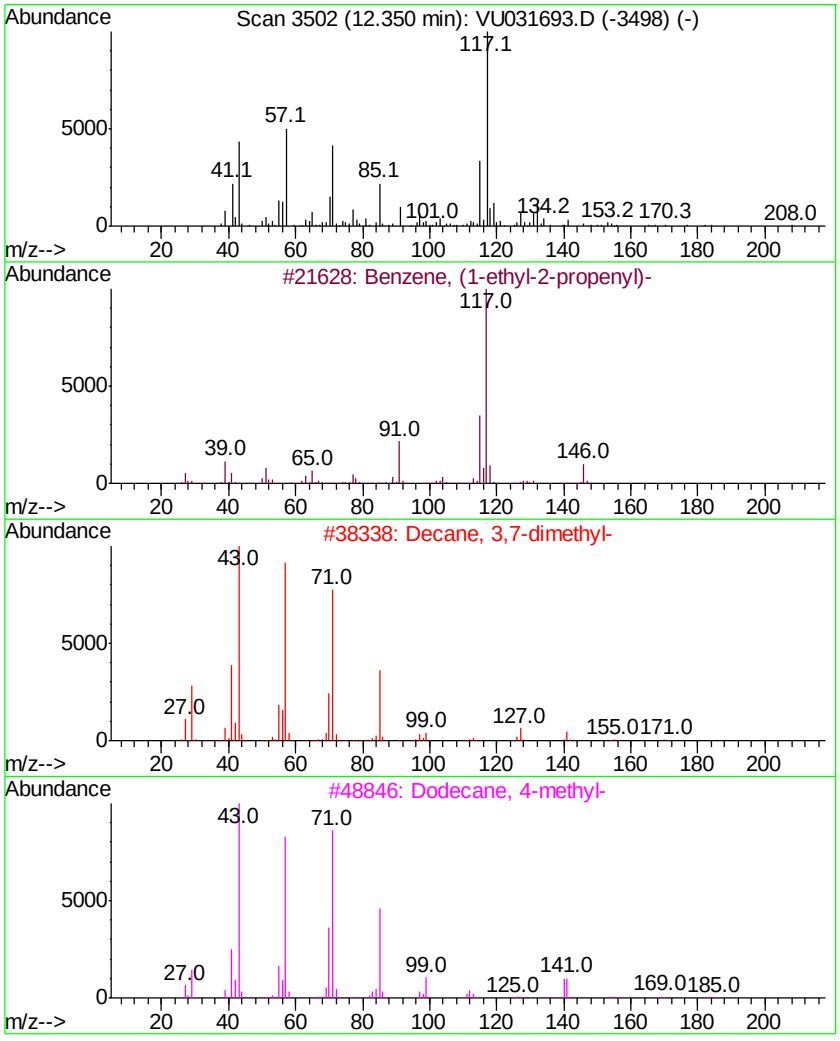
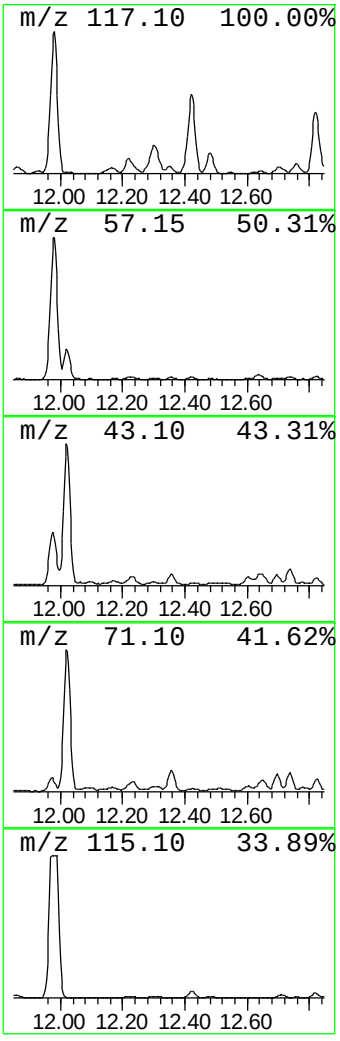
Peak Number 25 unknown-01 Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	3.95 ug/L	232678	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-ethyl-2-propenyl)-	146	C11H14	019947-22-9	35
2	Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	27
3	Dodecane, 4-methyl-	184	C13H28	006117-97-1	22
4	Decane, 3-methyl-	156	C11H24	013151-34-3	18
5	Decane, 4-methyl-	156	C11H24	002847-72-5	18





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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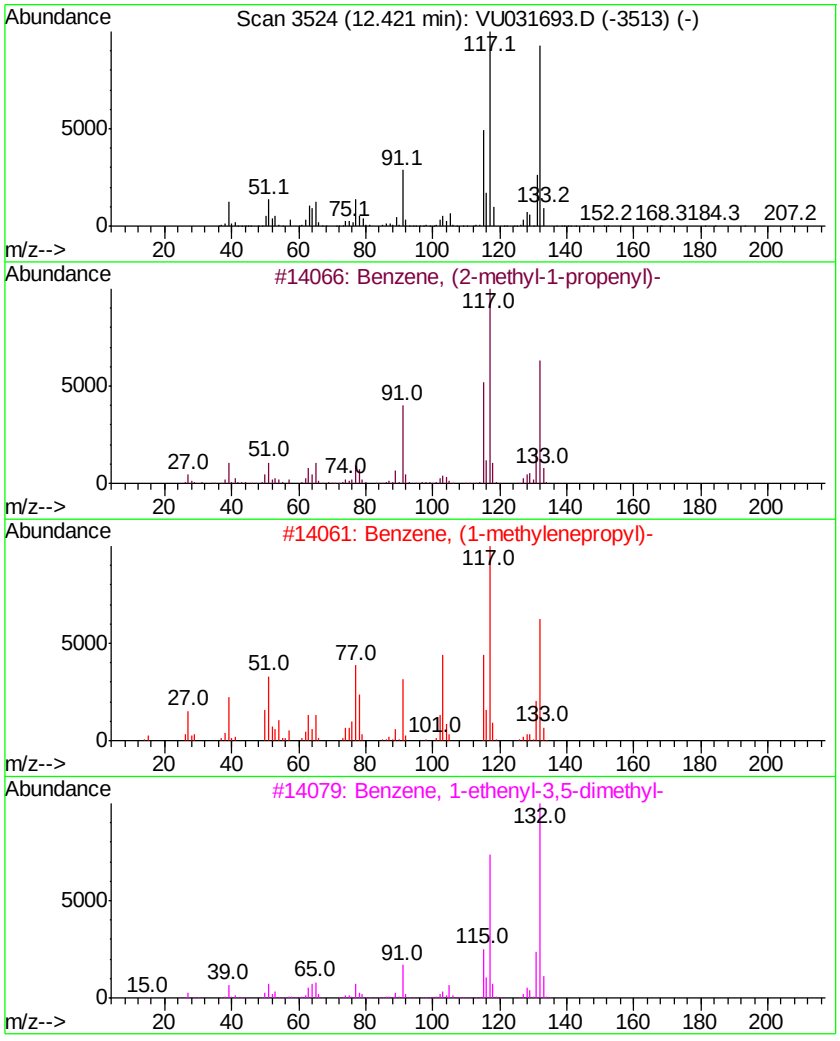
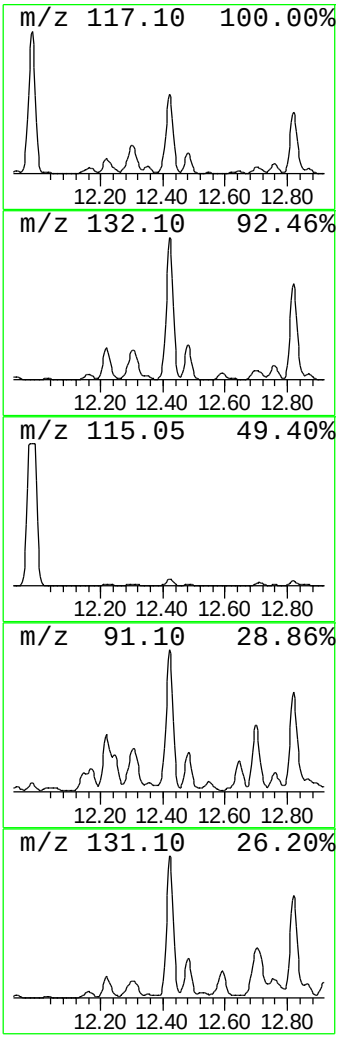
Peak Number 26 Benzene, (2-methyl-1-propen... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	108.07 ug/L	6363960	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	95
2	Benzene, (1-methylenepropyl)-	132	C10H12	002039-93-2	94
3	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	94
4	o-Isopropenyltoluene	132	C10H12	007399-49-7	94
5	2,4-Dimethylstyrene	132	C10H12	002234-20-0	94





Library Search Compound Report

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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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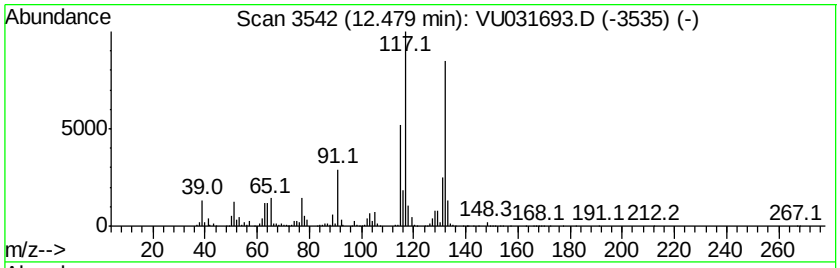
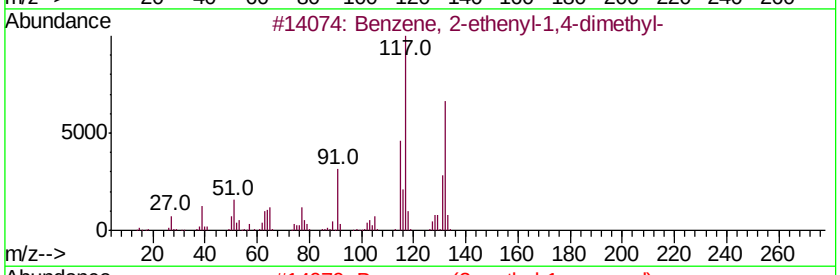
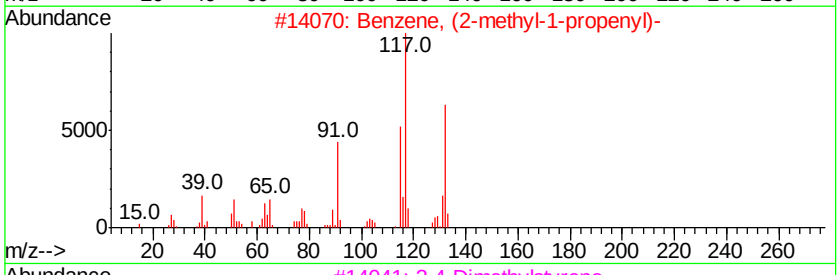
Peak Number 27 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 36

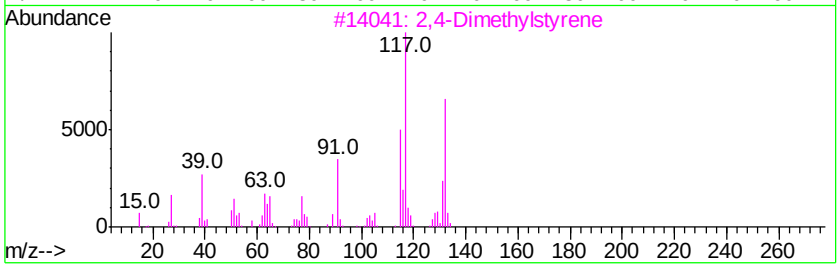
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	28.32 ug/L	1667650	1,4-Dichlorobenzene-d4	11.48

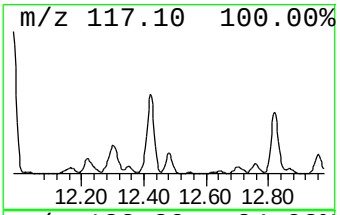
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	98
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	96
3	2,4-Dimethylstyrene	132	C10H12	002234-20-0	96
4	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	96
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	95

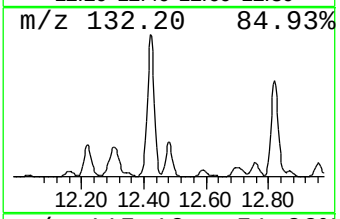


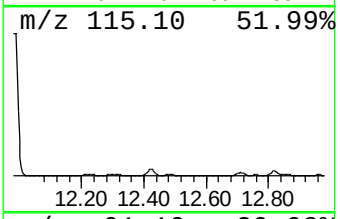


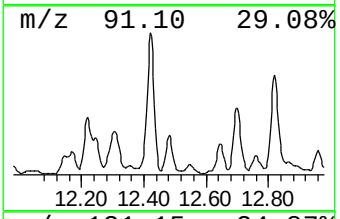


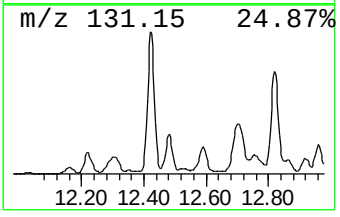












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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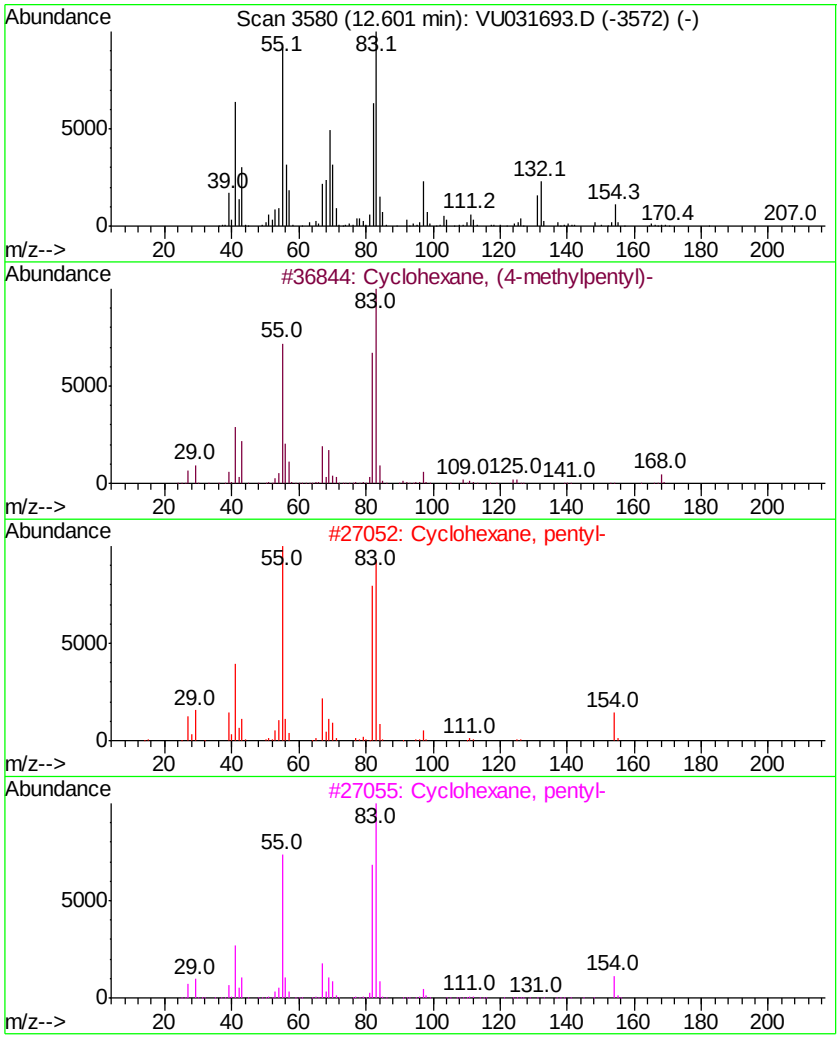
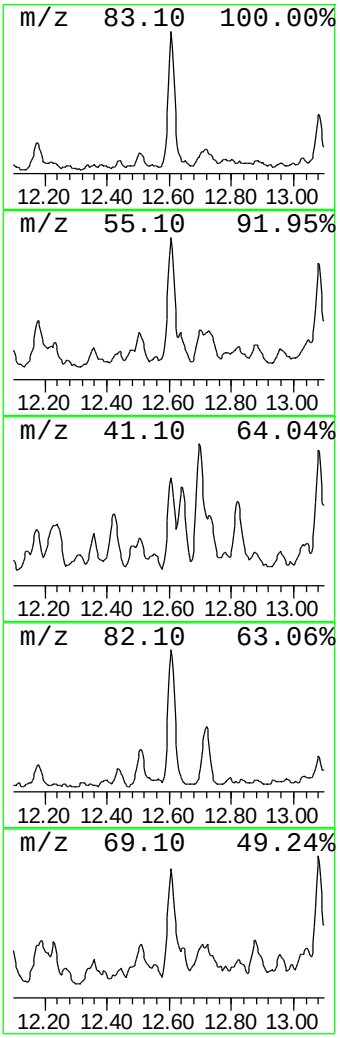
Peak Number 29 (DEL) Alkane: Cyclic12.60 Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	10.20 ug/L	600902	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	76
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	68
3	Cyclohexane, pentyl-	154	C11H22	004292-92-6	64
4	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	58
5	Cyclopentane, 1-methyl-3-(1-meth...	126	C9H18	053771-88-3	58





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

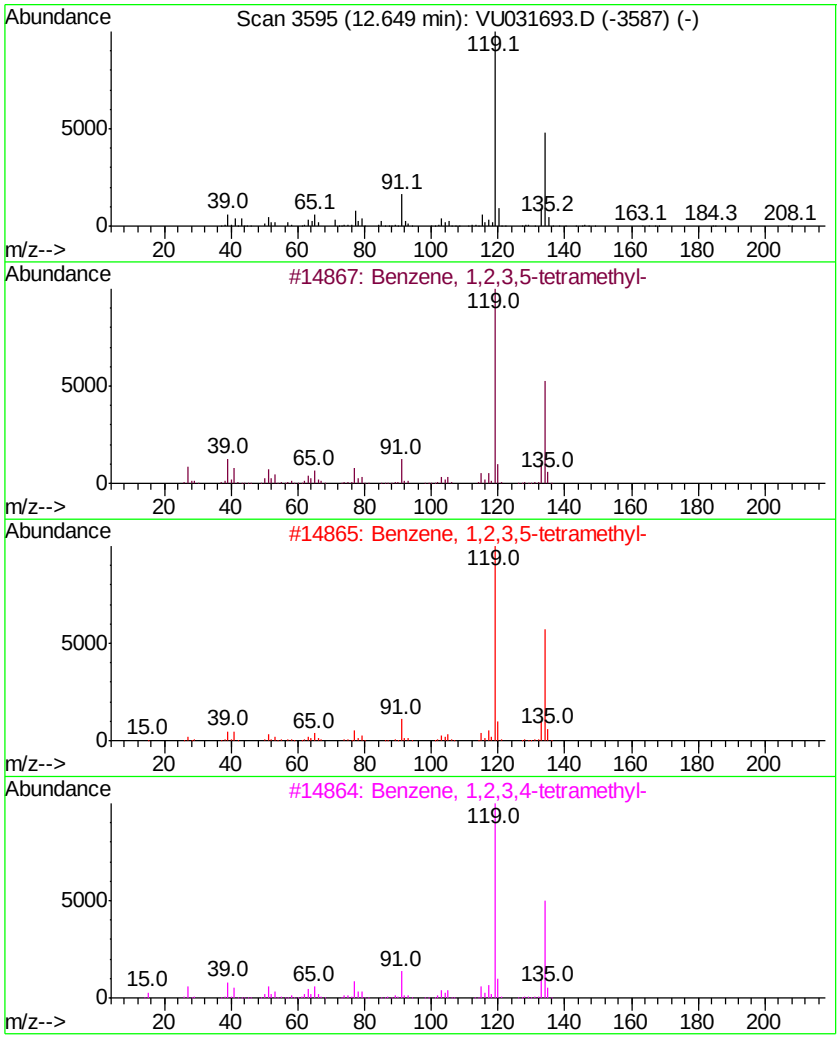
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

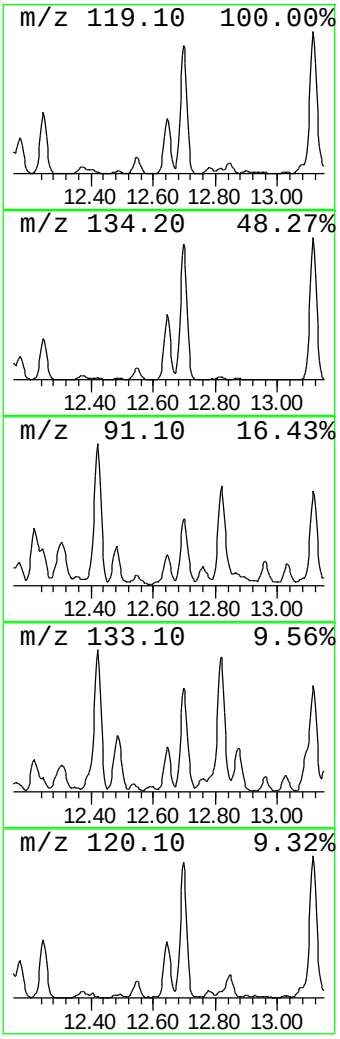
****

Peak Number 30 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	20.67 ug/L	1217300	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

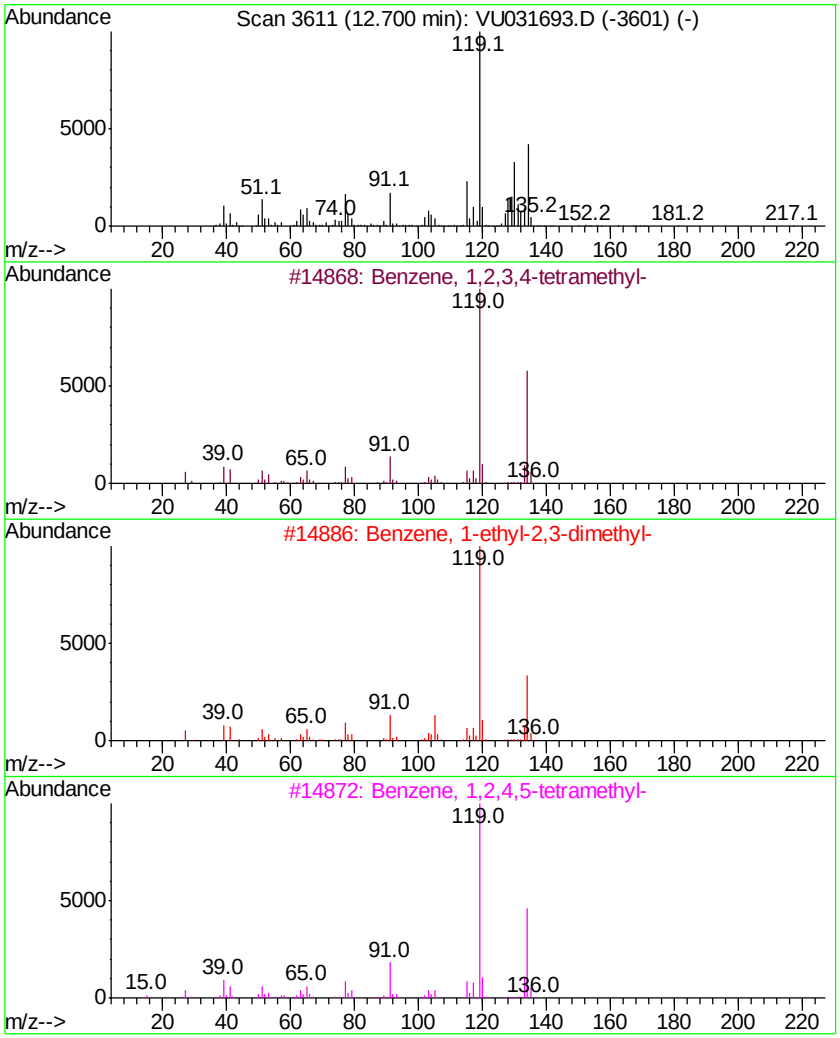
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

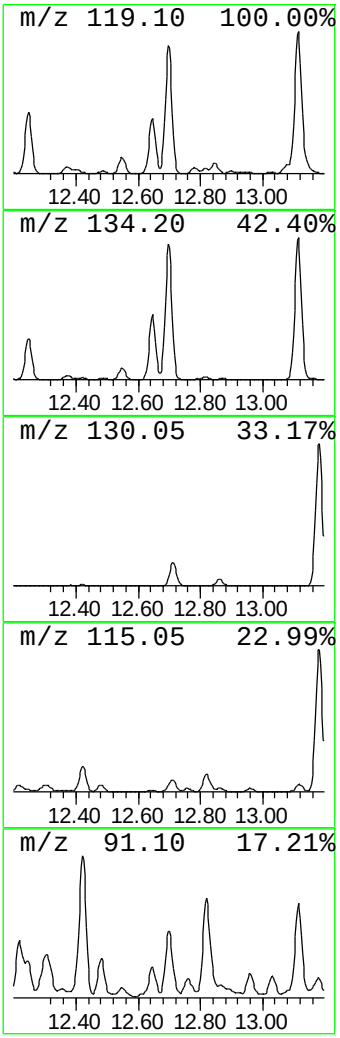
****

Peak Number 31 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	100.42 ug/L	5913540	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	53
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	53
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	49
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	49
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	49





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

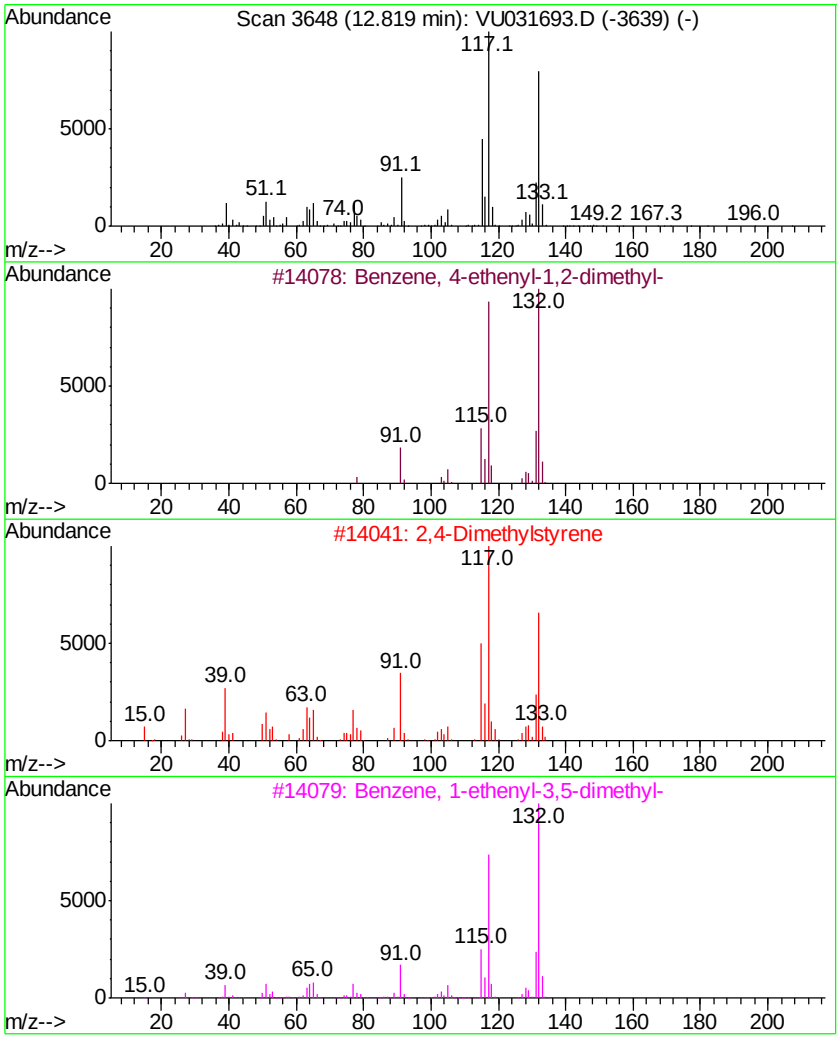
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

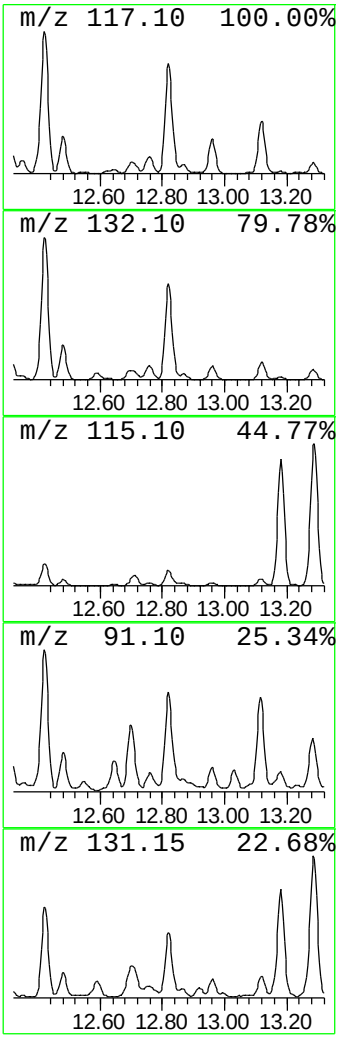
****

Peak Number 32 Benzene, 4-ethenyl-1,2-dime... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.82	80.02 ug/L	4712350	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethenyl-1,2-dimethyl-	132	C10H12	027831-13-6	97
2	2,4-Dimethylstyrene	132	C10H12	002234-20-0	96
3	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	96
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	95
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	95





Library Search Compound Report

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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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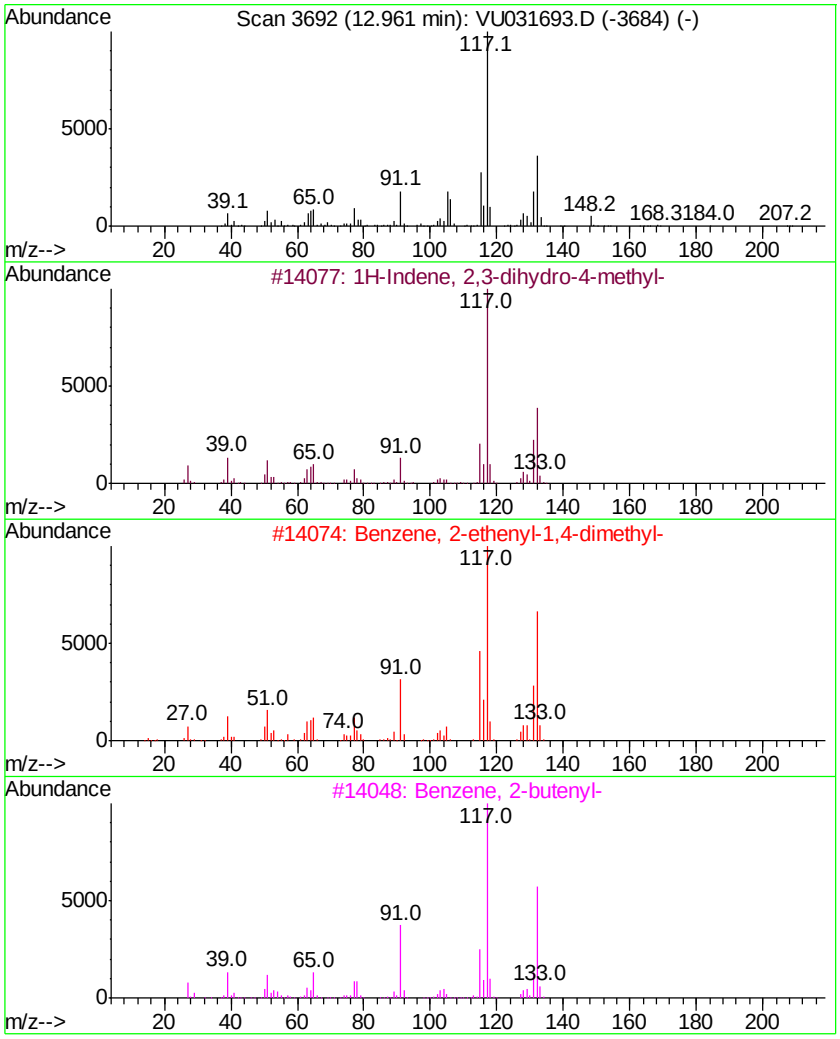
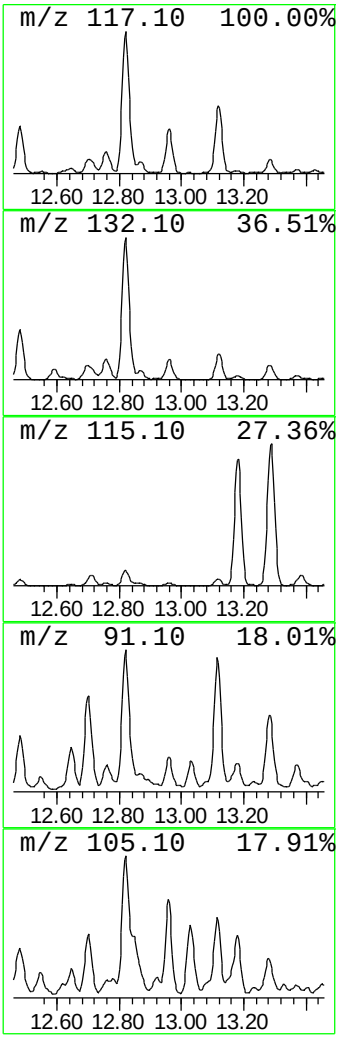
Peak Number 33 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	19.21 ug/L	1130990	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	91
3	Benzene, 2-butenyl-	132	C10H12	001560-06-1	90
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	90
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	90





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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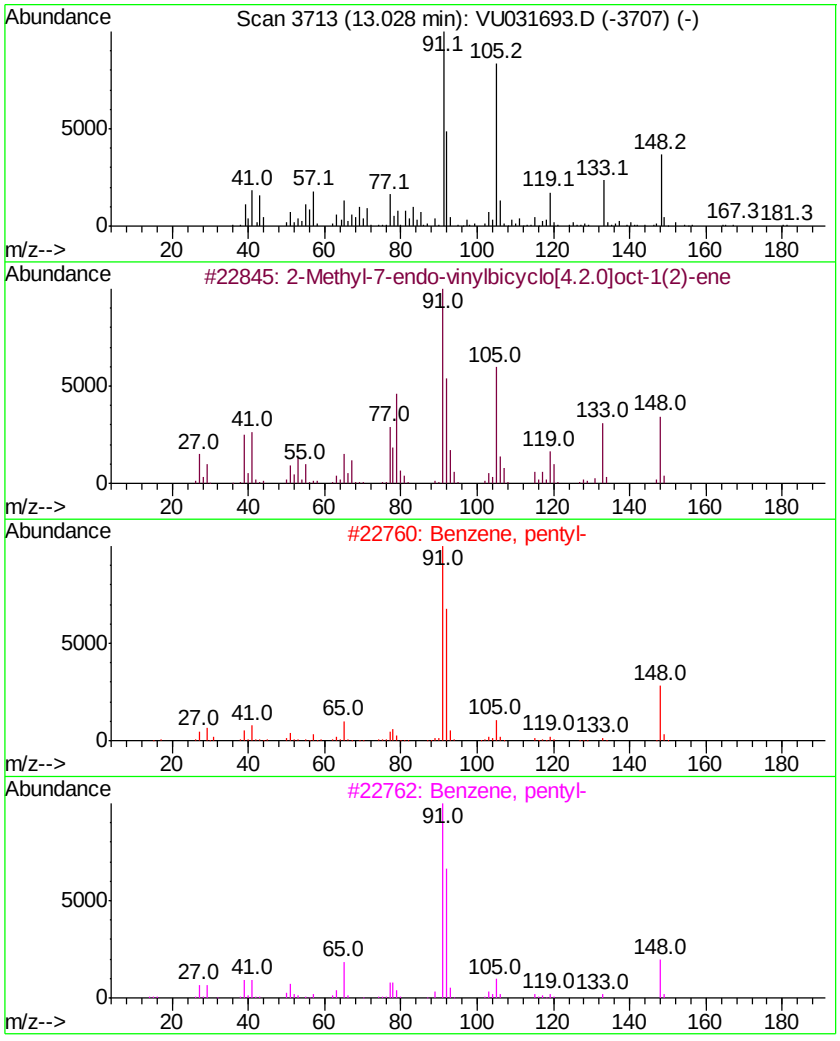
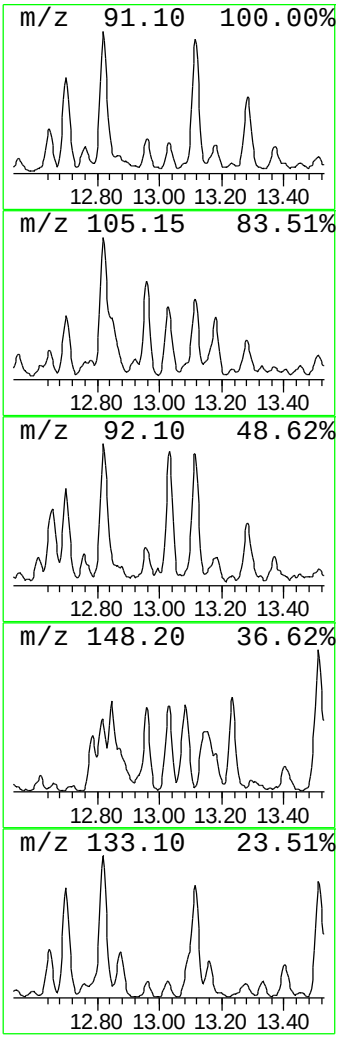
Peak Number 34 2-Methyl-7-endo-vinylbicycl... Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	5.00 ug/L	294701	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-7-endo-vinylbicyclo[4.2...	148	C11H16	1000200-99-1	86
2	Benzene, pentyl-	148	C11H16	000538-68-1	52
3	Benzene, pentyl-	148	C11H16	000538-68-1	47
4	7-Methyl-1,2,3,5,8,8a-hexahydron...	148	C11H16	107914-88-5	46
5	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	42





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Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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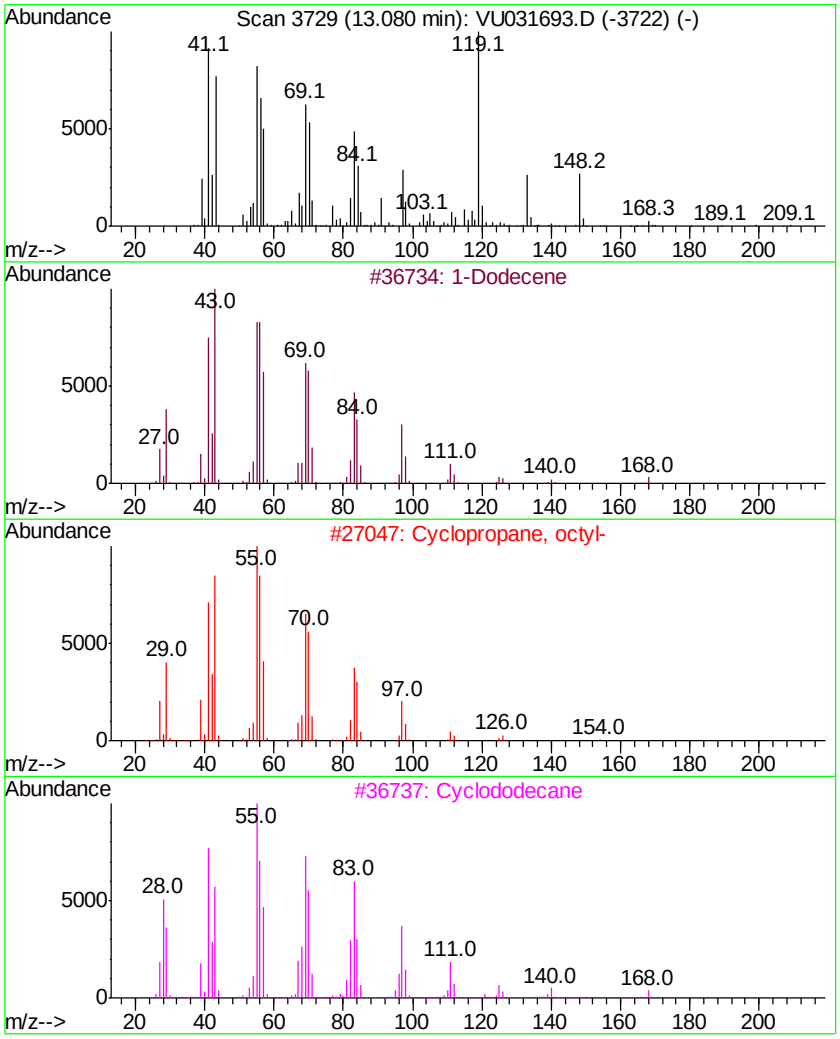
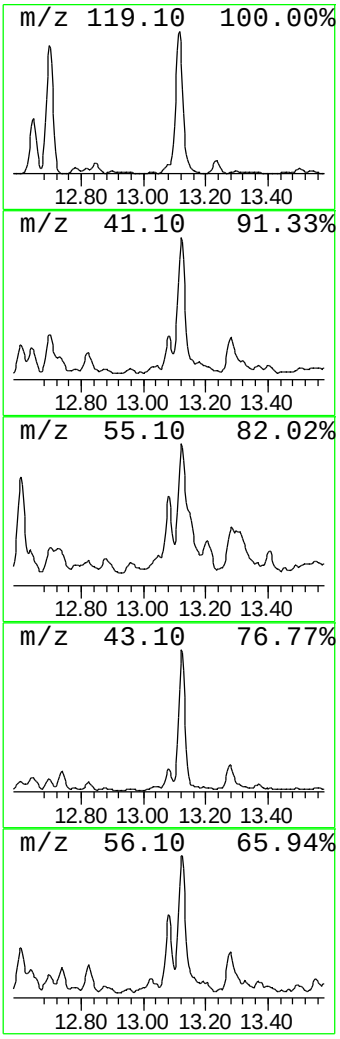
Peak Number 35 (DEL) Alkane: Cyclic13.08 Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	8.63 ug/L	508384	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Dodecene	168	C12H24	000112-41-4	95
2	Cyclopropane, octyl-	154	C11H22	001472-09-9	91
3	Cyclododecane	168	C12H24	000294-62-2	70
4	4-Dodecene, (E)-	168	C12H24	007206-15-7	64
5	4-Dodecene, (Z)-	168	C12H24	007206-27-1	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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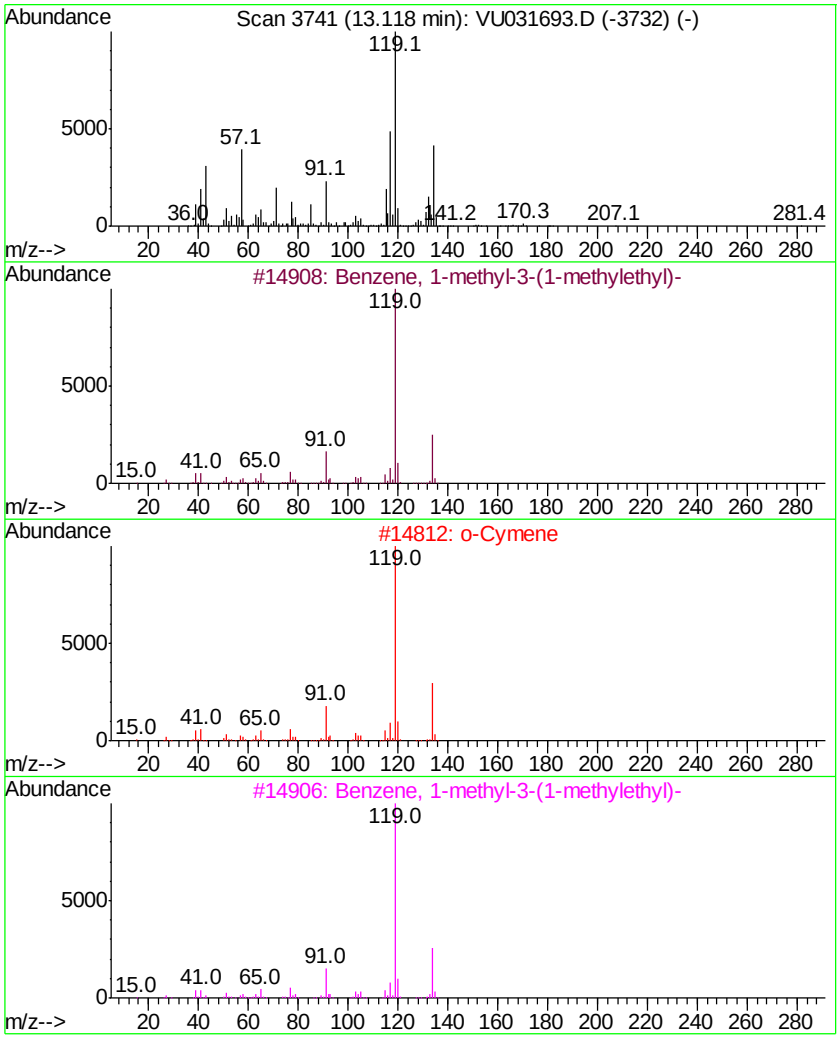
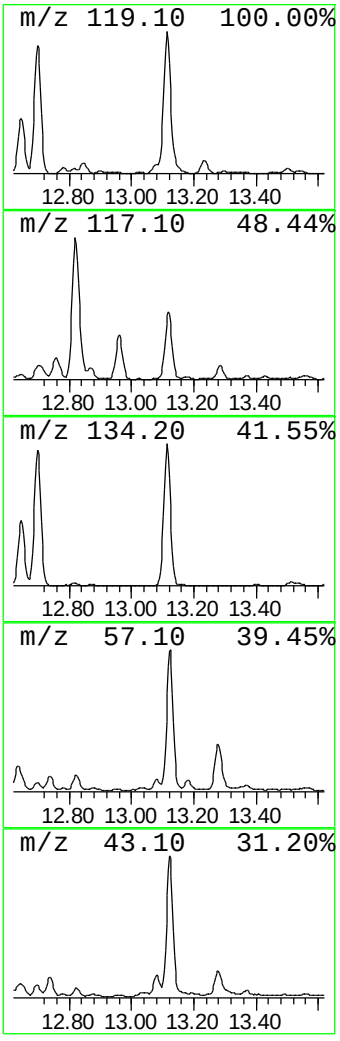
Peak Number 36 Benzene, 1-methyl-3-(1-meth... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	104.56 ug/L	6157490	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	60
2	o-Cymene	134	C10H14	000527-84-4	60
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	60
4	o-Cymene	134	C10H14	000527-84-4	60
5	p-Cymene	134	C10H14	000099-87-6	60





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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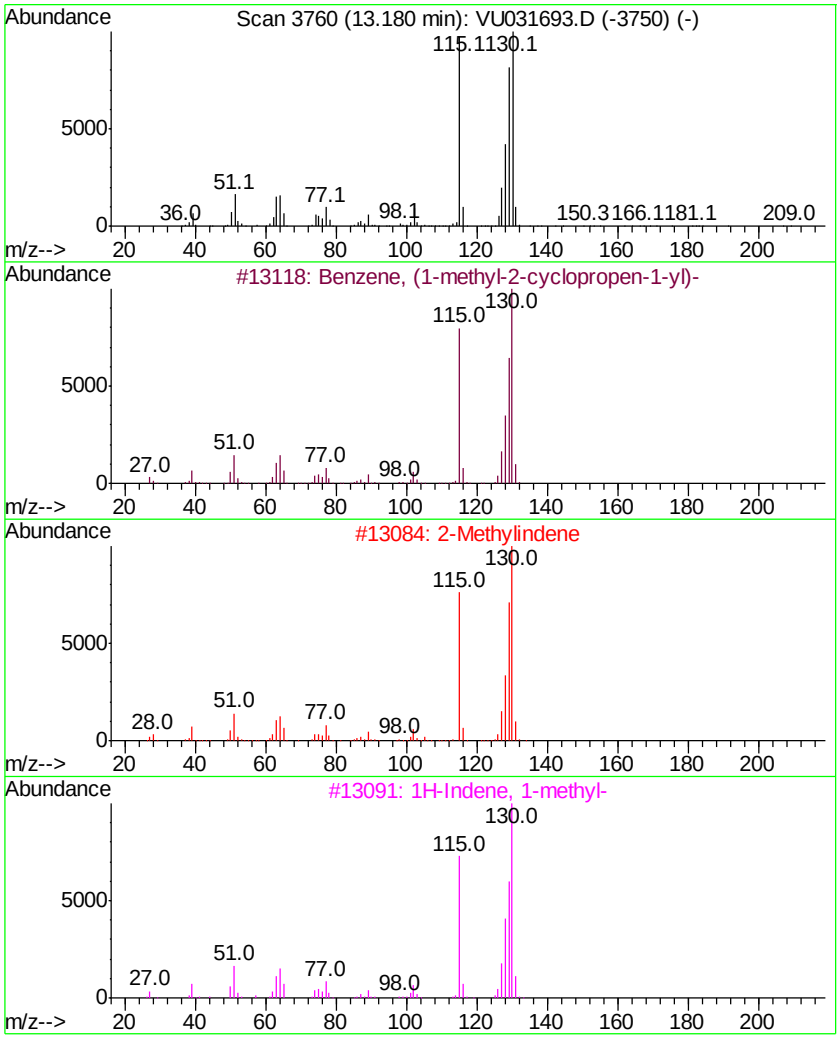
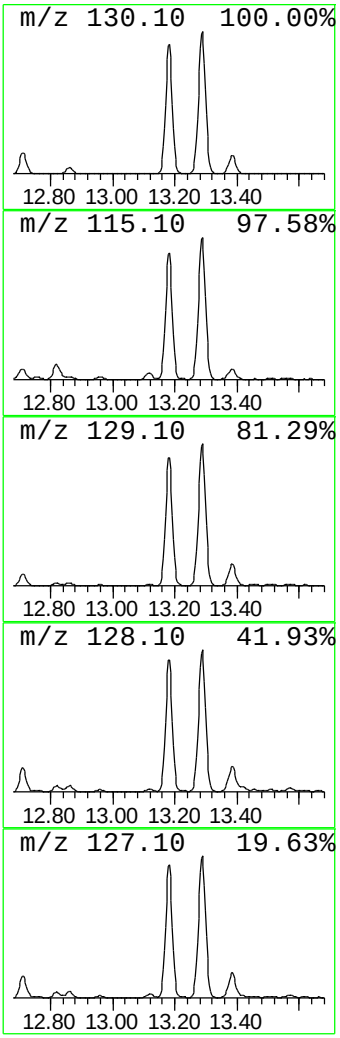
Peak Number 37 Benzene, (1-methyl-2-cyclop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	311.80 ug/L	18361200	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	97
2	2-Methylindene	130	C10H10	002177-47-1	97
3	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
4	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
5	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	93





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Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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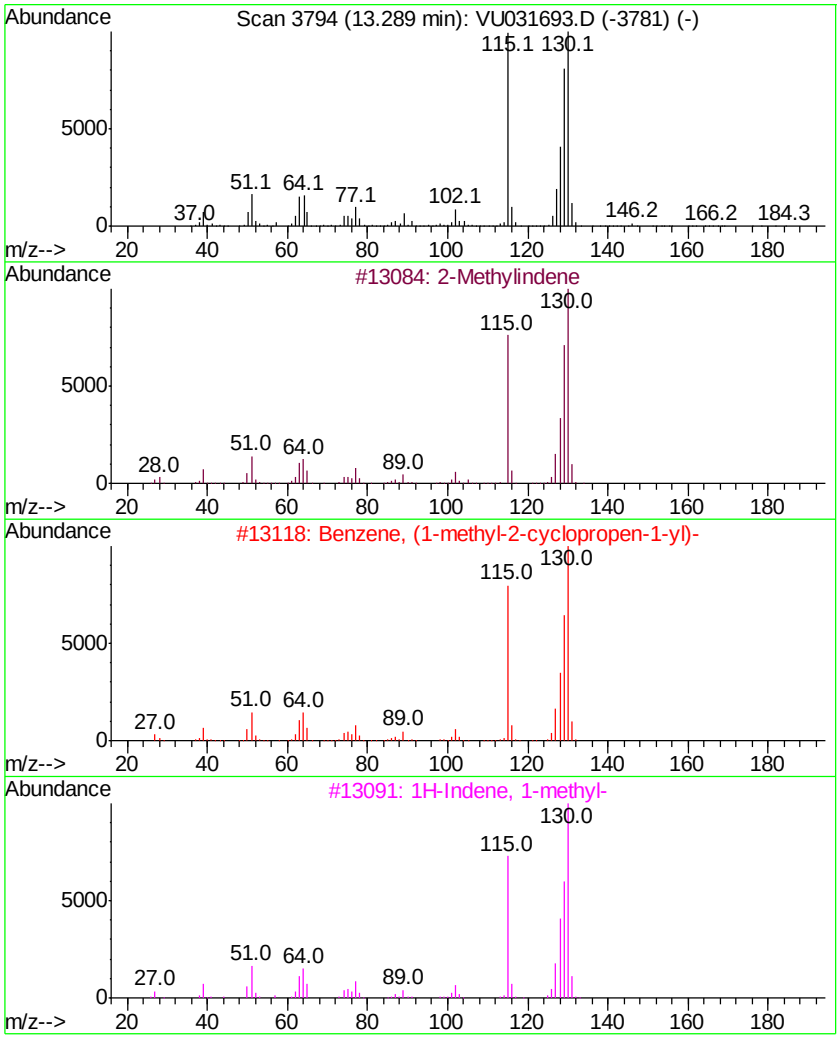
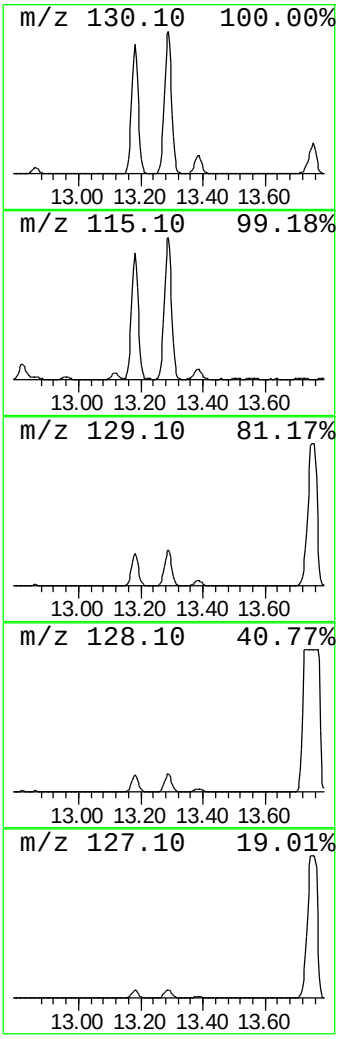
Peak Number 38 2-Methylindene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	390.00 ug/L	22966400	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylindene	130	C10H10	002177-47-1	97
2	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	97
3	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
4	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
5	Benzene, 1-butynyl-	130	C10H10	000622-76-4	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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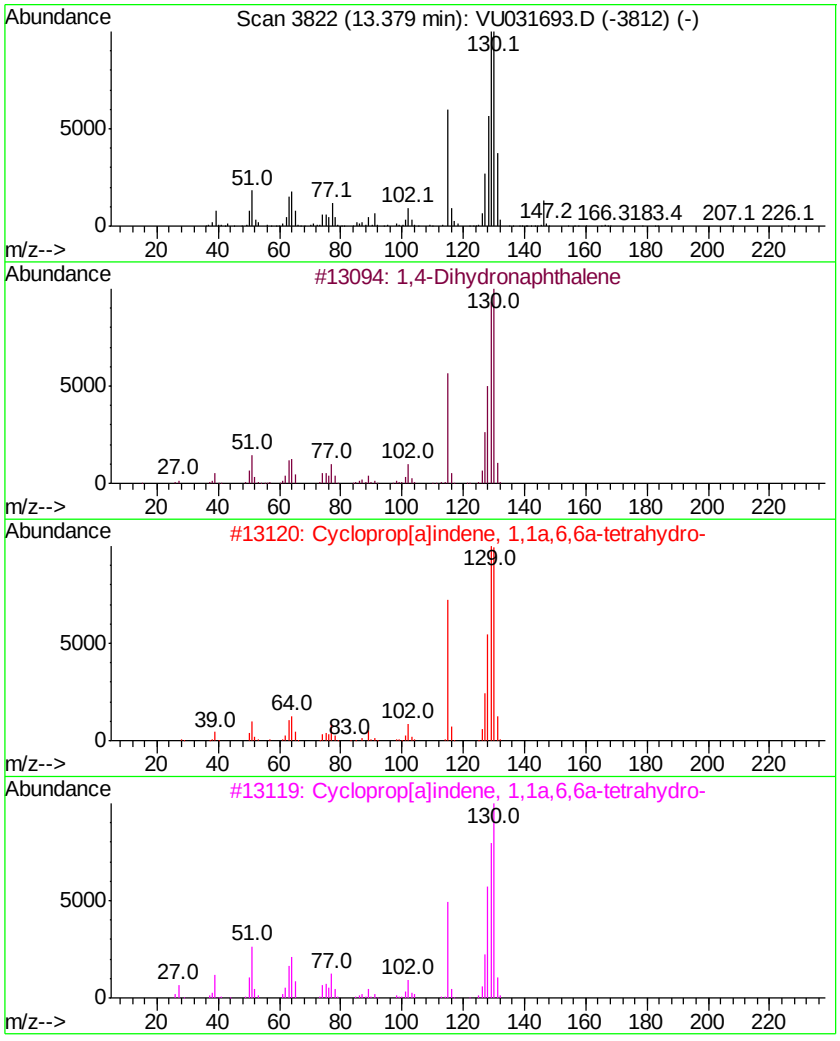
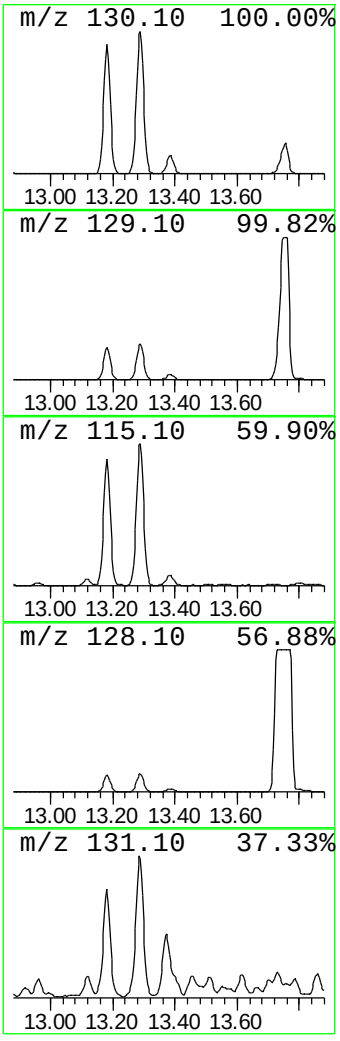
Peak Number 39 1,4-Dihydronaphthalene Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	57.47 ug/L	3384240	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dihydronaphthalene	130	C10H10	000612-17-9	96
2	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	95
3	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	94
4	Naphthalene, 1,2-dihydro-	130	C10H10	000447-53-0	92
5	1,4-Dihydronaphthalene	130	C10H10	000612-17-9	89





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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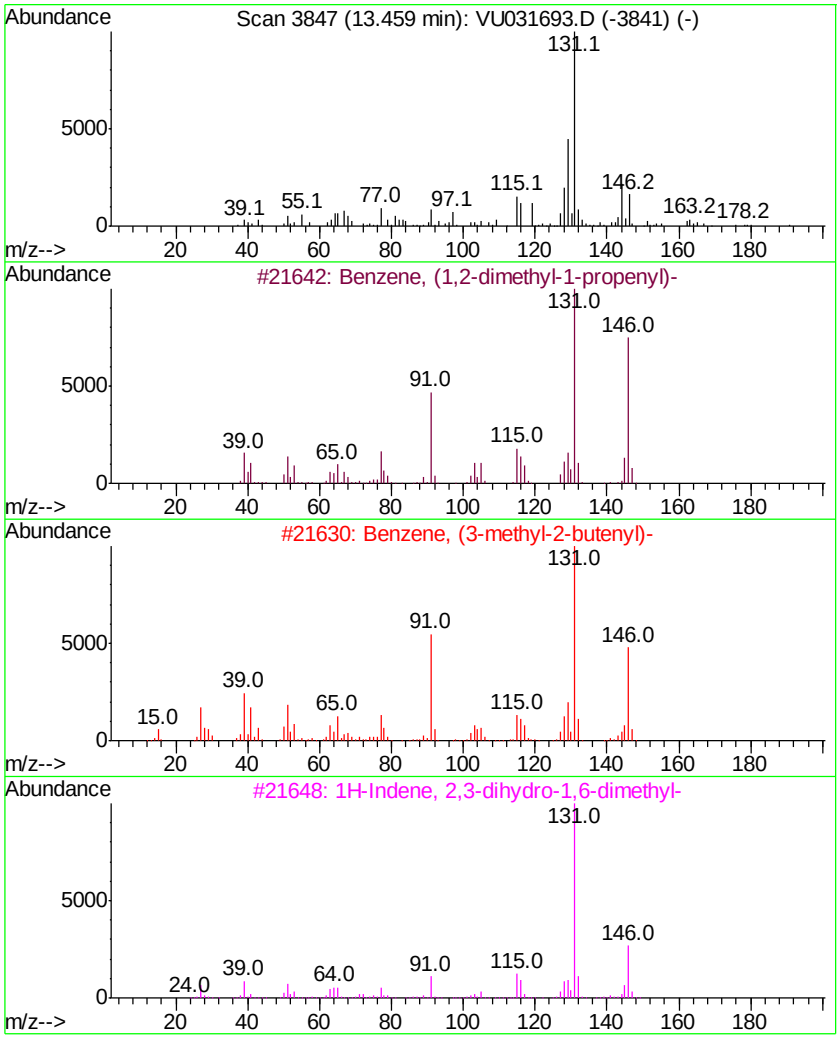
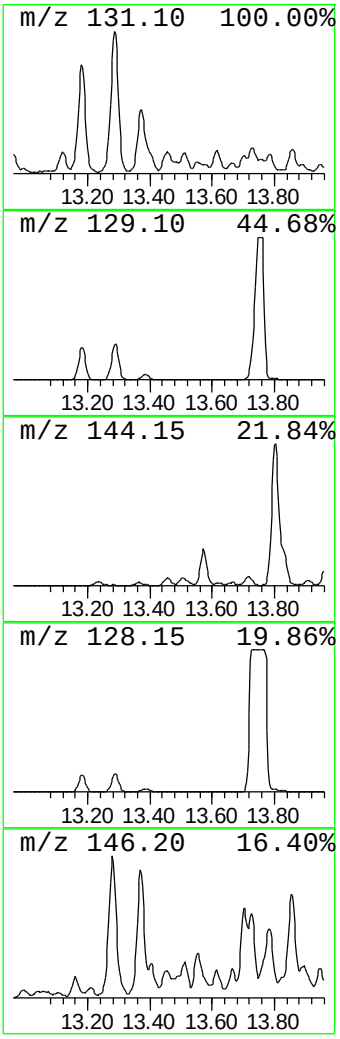
Peak Number 40 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	2.64 ug/L	155516	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	64
2	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	58
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	49
4	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	49
5	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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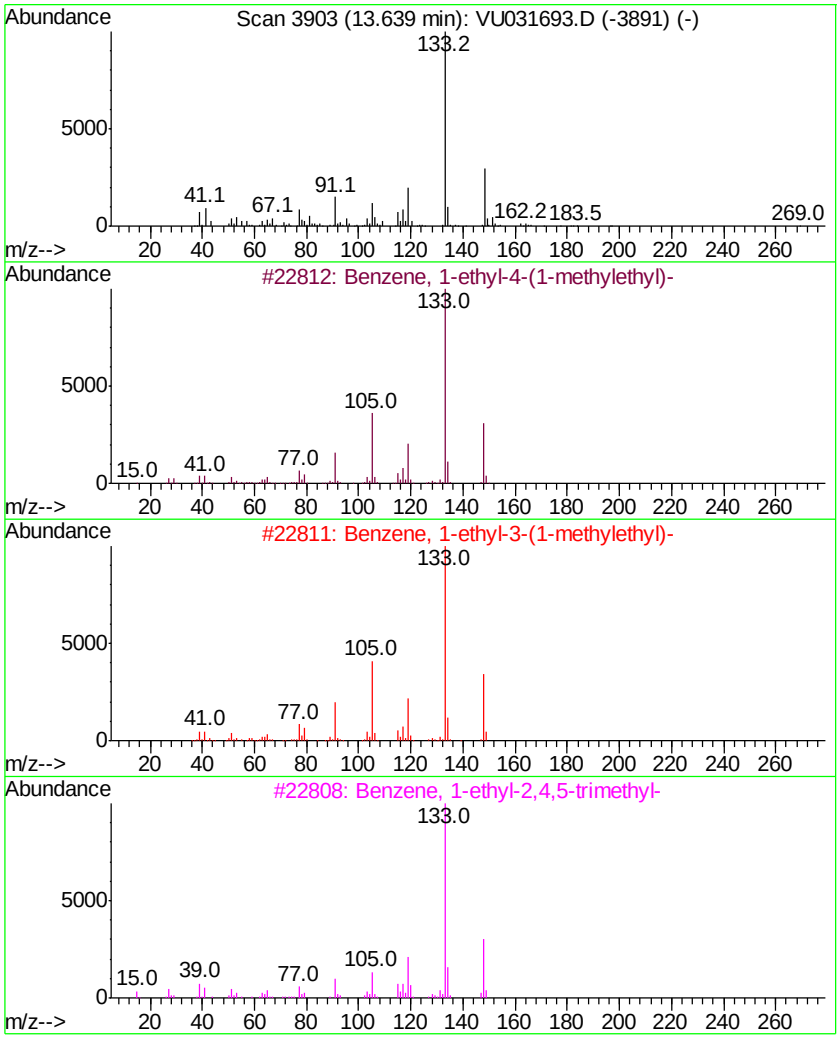
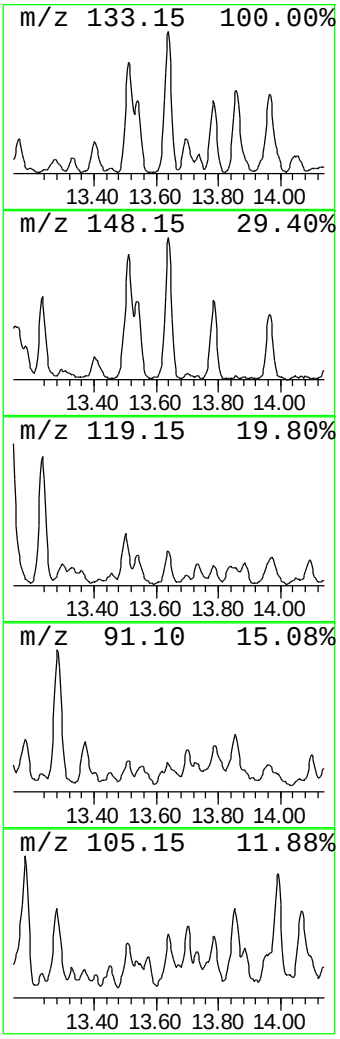
Peak Number 42 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	8.17 ug/L	481241	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	91
2	Benzene, 1-ethyl-3-(1-methylethyl)-	148	C11H16	004920-99-4	87
3	Benzene, 1-ethyl-2,4,5-trimethyl-	148	C11H16	017851-27-3	83
4	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	81
5	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	81





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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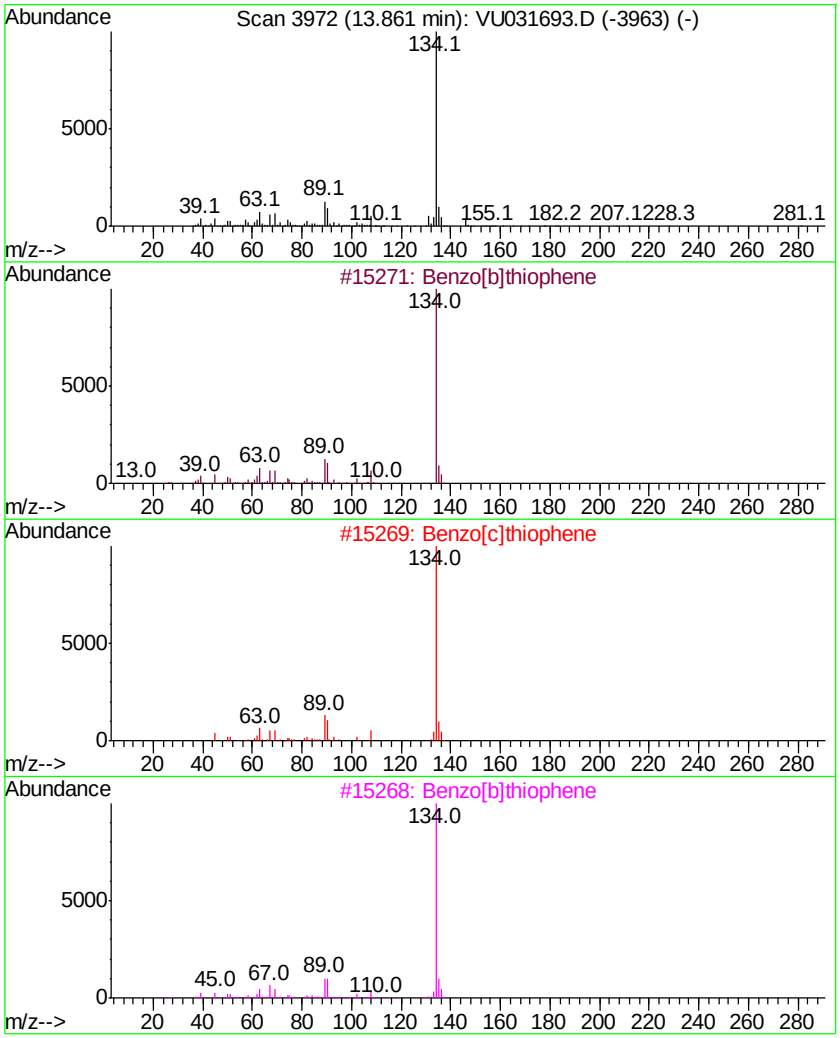
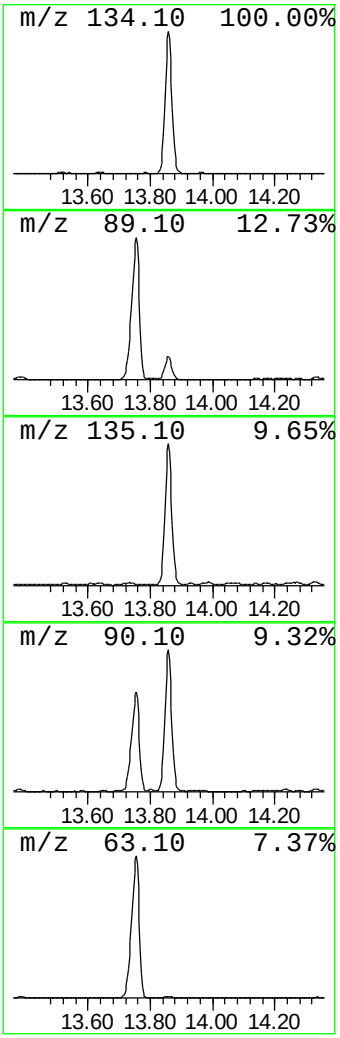
Peak Number 44 Benzo[b]thiophene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.86	67.53 ug/L	3976880	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
2	Benzo[c]thiophene	134	C8H6S	000270-82-6	95
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
4	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	93
5	Benzo[b]thiophene	134	C8H6S	000095-15-8	93





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

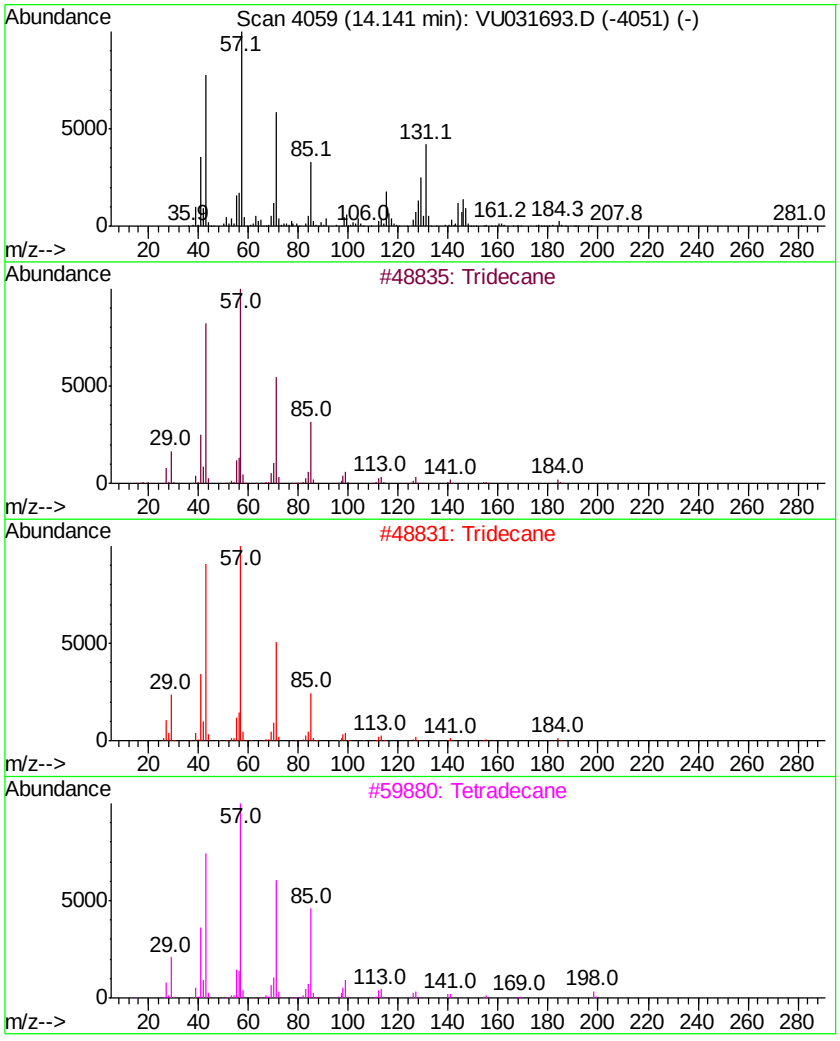
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

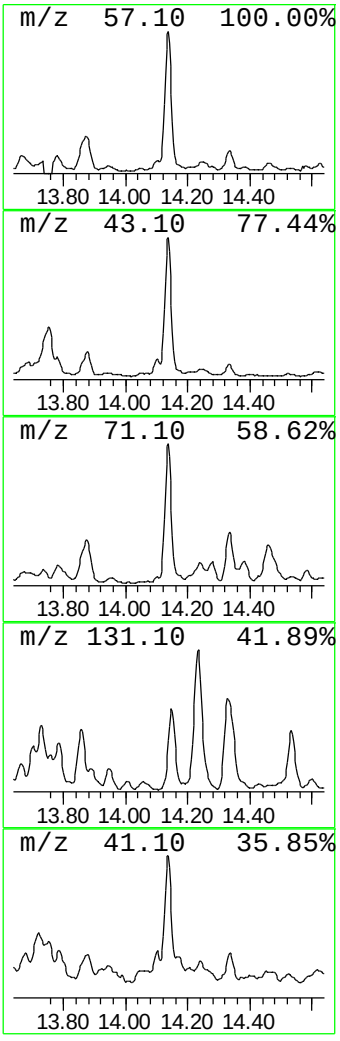
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 45 (DEL) Alkane: Straight-Chai... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.14	22.91 ug/L	1349050	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	86
2	Tridecane	184	C13H28	000629-50-5	50
3	Tetradecane	198	C14H30	000629-59-4	43
4	Hexadecane	226	C16H34	000544-76-3	43
5	Decane, 2-methyl-	156	C11H24	006975-98-0	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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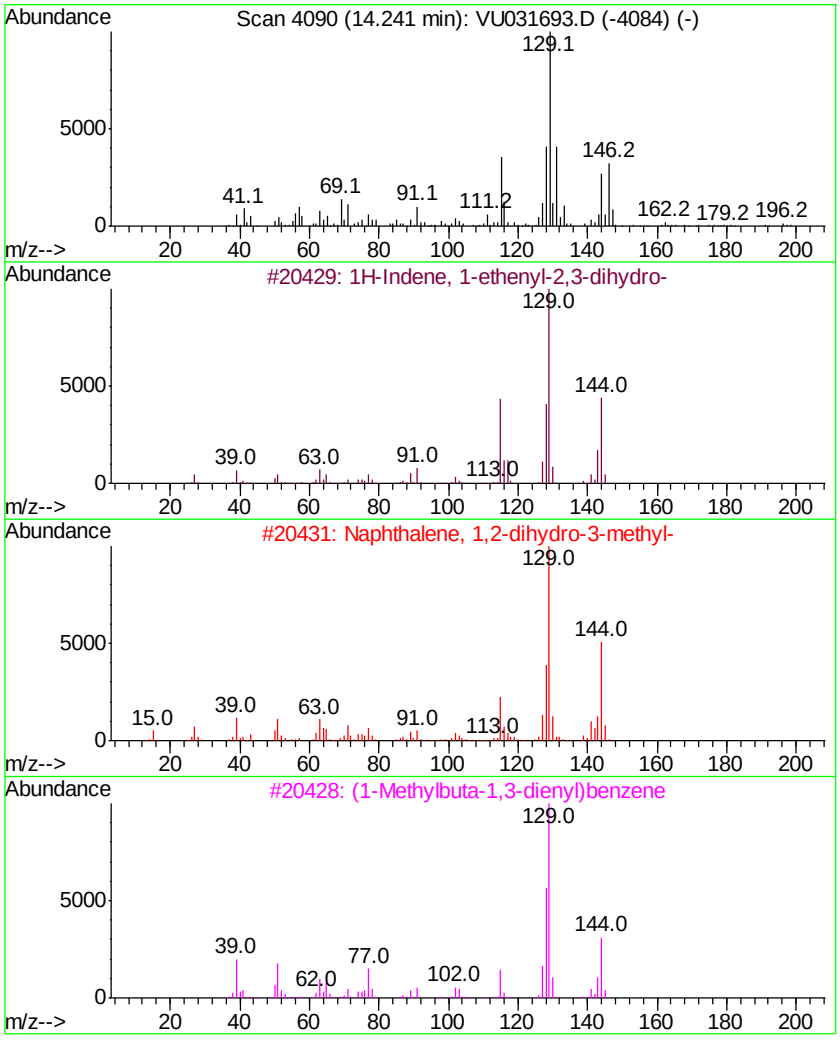
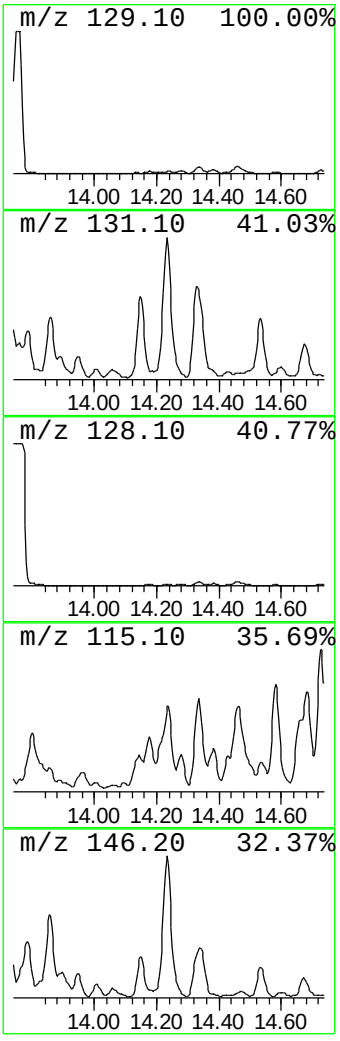
Peak Number 46 1H-Indene, 1-ethenyl-2,3-di... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.24	14.05 ug/L	827203	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-ethenyl-2,3-dihydro-	144	C11H12	051783-46-1	64
2	Naphthalene, 1,2-dihydro-3-methyl-	144	C11H12	002717-44-4	60
3	(1-Methylbuta-1,3-dienyl)benzene	144	C11H12	054758-36-0	55
4	Naphthalene, 1,2-dihydro-4-methyl-	144	C11H12	004373-13-1	55
5	1H-Indene, 4,7-dimethyl-	144	C11H12	006974-97-6	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031693.D
Acq On : 01 May 2019 18:35
Operator : JC/SP
Sample : K2603-15 10X
Misc : 5.03g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GAJ67

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.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
(DEL) Alkane: Str...	9.44	11.3	ug/L	664246	2	9.09	2939500	50.0
(DEL) Alkane: Str...	9.95	3.7	ug/L	219805	2	9.09	2939500	50.0
(DEL) Alkane: Cyc...	10.04	2.5	ug/L	148490	2	9.09	2939500	50.0
(DEL) Alkane: Str...	10.32	2.8	ug/L	167152	3	11.48	2944420	50.0
Benzene, 2-propenyl-	10.50	15.5	ug/L	910932	3	11.48	2944420	50.0
Benzene, propyl-	10.58	14.9	ug/L	875890	3	11.48	2944420	50.0
Benzene, 1-ethyl-...	10.68	83.9	ug/L	4942480	3	11.48	2944420	50.0
Benzene, 1,2,3-tr...	10.77	93.9	ug/L	5527680	3	11.48	2944420	50.0
(DEL) Alkane: Str...	10.81	21.9	ug/L	1287180	3	11.48	2944420	50.0
.alpha.-Methylsty...	10.99	64.9	ug/L	3819820	3	11.48	2944420	50.0
Benzene, 1-etheny...	11.21	398.4	ug/L	23458800	3	11.48	2944420	50.0
Benzene, 1-etheny...	11.26	137.1	ug/L	8071040	3	11.48	2944420	50.0
3-Hydroxyphenylac...	11.40	8.3	ug/L	486517	3	11.48	2944420	50.0
(Z)-1-Phenylpropene	11.62	61.0	ug/L	3591270	3	11.48	2944420	50.0
(DEL) Alkane: Str...	11.70	2.7	ug/L	161300	3	11.48	2944420	50.0
Indane	11.76	63.1	ug/L	3717020	3	11.48	2944420	50.0
Indene	11.98	1271.9	ug/L	74898900	3	11.48	2944420	50.0
Benzene, 1-ethyl-...	12.14	9.9	ug/L	583348	3	11.48	2944420	50.0
Benzene, 1-methyl...	12.22	25.1	ug/L	1476960	3	11.48	2944420	50.0
Benzene, 1-etheny...	12.30	29.9	ug/L	1760420	3	11.48	2944420	50.0
unknown-01	12.35	4.0	ug/L	232678	3	11.48	2944420	50.0
Benzene, (2-methy...	12.42	108.1	ug/L	6363960	3	11.48	2944420	50.0
Benzene, 2-etheny...	12.48	28.3	ug/L	1667650	3	11.48	2944420	50.0
(DEL) Alkane: Cyc...	12.60	10.2	ug/L	600902	3	11.48	2944420	50.0
Benzene, 1,2,3,5-...	12.65	20.7	ug/L	1217300	3	11.48	2944420	50.0
Benzene, 1,2,3,4-...	12.70	100.4	ug/L	5913540	3	11.48	2944420	50.0
Benzene, 4-etheny...	12.82	80.0	ug/L	4712350	3	11.48	2944420	50.0
1H-Indene, 2,3-di...	12.96	19.2	ug/L	1130990	3	11.48	2944420	50.0
2-Methyl-7-endo-v...	13.03	5.0	ug/L	294701	3	11.48	2944420	50.0
(DEL) Alkane: Cyc...	13.08	8.6	ug/L	508384	3	11.48	2944420	50.0
Benzene, 1-methyl...	13.12	104.6	ug/L	6157490	3	11.48	2944420	50.0
Benzene, (1-methy...	13.18	311.8	ug/L	18361200	3	11.48	2944420	50.0
2-Methylindene	13.29	390.0	ug/L	22966400	3	11.48	2944420	50.0
1,4-Dihydronaphth...	13.38	57.5	ug/L	3384240	3	11.48	2944420	50.0
Benzene, (1,2-dim...	13.46	2.6	ug/L	155516	3	11.48	2944420	50.0
Benzene, 1-ethyl-...	13.64	8.2	ug/L	481241	3	11.48	2944420	50.0
Benzo[b]thiophene	13.86	67.5	ug/L	3976880	3	11.48	2944420	50.0
(DEL) Alkane: Str...	14.14	22.9	ug/L	1349050	3	11.48	2944420	50.0
1H-Indene, 1-ethe...	14.24	14.1	ug/L	827203	3	11.48	2944420	50.0