LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

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_V\METHOD\SOM2VLM053019S.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	1.200	29	34	46	rBV3	22400	34893	0.16%	0.016%
2	1.309	61	68	74	rVB	154587	149477	0.67%	0.068%
3	1.380	85	90	98	rVB	44290	43431	0.20%	0.020%
4	1.557	138	145	154	rVB	124290	144754	0.65%	0.066%
5	2.113	309	318	329	rVB	212921	314615	1.42%	0.144%
6	2.184	334	340	350	rVB	34978	48316	0.22%	0.022%
7	2.524	438	446	459	rVB4	13495	27811	0.13%	0.013%
8	2.637	479	481	484	rBV3	1668	1099	0.00%	0.001%
9	2.743	510	514	516	rBV3	1842	1423	0.01%	0.001%
10	2.775	516	524	530	rVB8	3651	6616	0.03%	0.003%
11	2.862	547	551	554	rBV3	1547	1258	0.01%	0.001%
12	2.984	578	589	599	rVV2	9185	18324	0.08%	0.008%
13	3.058	601	612	624	rVB	17406	33833	0.15%	0.015%
14	3.203	650	657	658	rBV6	1200	1401	0.01%	0.001%
15	3.383	707	713	714	rBV5	1565	1352	0.01%	0.001%
16	3.454	731	735	738	rVV4	1200	991	0.00%	0.000%
17	3.470	738	740	747	rVB8	1022	1072	0.00%	0.000%
18	3.540	757	762	764	rBV5	1320	1083	0.00%	0.000%
19	3.685	799	807	810	rBV7	2490	3736	0.02%	0.002%
20	3.791	822	840	852	rBV3	9918	26056	0.12%	0.012%
21	3.933	873	884	901	rBV	37692	102044	0.46%	0.047%
22	4.267	985	988	997	rVB	1481	1847	0.01%	0.001%
23	4.389	1004	1026	1046	rBV	167691	425723	1.92%	0.195%
24	4.708	1108	1125	1138	rBV6	37682	100904	0.45%	0.046%
25	4.942	1182	1198	1223	rBV4	44095	120603	0.54%	0.055%
26	5.087	1226	1243	1257	rBV2	396119	993943	4.47%	0.454%
27	5.360	1317	1328	1349	rVB5	37735	90337	0.41%	0.041%
28	5.527	1364	1380	1394	rBV2	135689	282579	1.27%	0.129%
29	5.656	1407	1420	1438	rBV	396176	818701	3.68%	0.374%
30	5.875	1483	1488	1495	rVB7	3473	4102	0.02%	0.002%
31	5.933	1502	1506	1507	rBV3	2098	1519	0.01%	0.001%
32	6.113	1546	1562	1570	rBV2	224780	479969	2.16%	0.219%
33	6.235	1594	1600	1609	rVB4	26839	43740	0.20%	0.020%
34	6.293	1610	1618	1629	rVB3	39300	69751	0.31%	0.032%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

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_V\METHOD\SOM2VLM053019S.M
Title : VOC Analysis

35	6.402	1641	1652	1667	rVB	50421	95995	0.43%	0.044%
36	6.498	1670	1682	1696	rVB4	100468	211695	0.95%	0.097%
37	6.611	1700	1717	1724	rBV4	18410	54459	0.24%	0.025%
38	6.669	1724	1735	1761	rVB5	145126	368114	1.66%	0.168%
39	6.955	1817	1824	1831	rBV	178239	263867	1.19%	0.121%
40	7.119	1867	1875	1884	rBV	186752	300004	1.35%	0.137%
41	7.302	1918	1932	1940	rBV2	698933	1404219	6.32%	0.642%
42	7.428	1965	1971	1978	rBV	58259	81926	0.37%	0.037%
43	7.479	1978	1987	1995	rBV4	310032	573145	2.58%	0.262%
44	7.605	2019	2026	2039	rBV2	218939	424989	1.91%	0.194%
45	7.695	2046	2054	2074	rVB	830506	1562839	7.03%	0.714%
46	7.826	2076	2095	2104	rBV	398519	787240	3.54%	0.360%
47	7.881	2105	2112	2123	rBV4	245180	448459	2.02%	0.205%
48	8.013	2146	2153	2162	rVB4	142585	240434	1.08%	0.110%
49	8.122	2177	2187	2197	rBV2	835633	1456934	6.55%	0.666%
50	8.331	2243	2252	2260	rBV	1090291	1709260	7.69%	0.781%
51	8.392	2262	2271	2281	rVV	1812553	3076177	13.84%	1.406%
52	8.550	2309	2320	2330	rBV4	733228	1410326	6.34%	0.645%
53	8.633	2331	2346	2360	rBV4	860982	2361983	10.63%	1.080%
54	8.704	2362	2368	2377	rVB2	734716	1096720	4.93%	0.501%
55	8.830	2401	2407	2418	rVB	1467773	2333222	10.50%	1.067%
56	8.894	2419	2427	2435	rBV	646249	967733	4.35%	0.442%
57	9.241	2529	2535	2560	rVB5	1284574	3280152	14.76%	1.499%
58	9.363	2563	2573	2590	rBV4	747882	1693497	7.62%	0.774%
59	9.588	2637	2643	2650	rBV2	946659	1388021	6.24%	0.634%
60	9.749	2676	2693	2703	rBV4	3561148	7772169	34.96%	3.553%
61	9.842	2714	2722	2733	rBV4	2823835	5180854	23.31%	2.368%
62	10.395	2887	2894	2903	rBV	2763126	4018076	18.08%	1.837%
63	10.495	2917	2925	2928	rBV2	2178186	3253970	14.64%	1.487%
64	10.781	3006	3014	3031	rVB	4503400	7569857	34.05%	3.460%
65	10.958	3062	3069	3082	rVB	4899042	7575749	34.08%	3.463%
66	11.199	3137	3144	3151	rBV3	1532834	2250674	10.13%	1.029%
67	11.289	3165	3172	3182	rVB4	1899650	2853205	12.84%	1.304%
68	11.383	3192	3201	3210	rBV	7597090	11143153	50.13%	5.094%
69	11.582	3252	3263	3273	rBV3	5589871	13942424	62.72%	6.373%
70	11.865	3345	3351	3361	rVB	2847094	4031360	18.14%	1.843%
71	11.958	3372	3380	3385	rBV	2479032	3784365	17.02%	1.730%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

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_V\METHOD\SOM2VLM053019S.M
Title : VOC Analysis

72	12.064	3404	3413	3420	rBV	8672162	12790373	57.54%	5.847%
73	12.164	3434	3444	3454	rBV	8322992	14719063	66.22%	6.728%
74	12.360	3496	3505	3515	rVB3	2951365	5129636	23.08%	2.345%
75	12.424	3517	3525	3528	rBV5	674460	1036589	4.66%	0.474%
76	12.460	3529	3536	3545	rVB	3386116	4980688	22.41%	2.277%
77	12.514	3545	3553	3567	rVB	3286156	5291668	23.81%	2.419%
78	12.598	3570	3579	3586	rBV2	2587899	3970138	17.86%	1.815%
79	12.772	3626	3633	3641	rVB	5080697	6737740	30.31%	3.080%
80	12.842	3650	3655	3663	rVB3	1117279	1426426	6.42%	0.652%
81	12.932	3664	3683	3693	rBV2	12347686	22228720	100.00%	10.161%
82	13.045	3712	3718	3725	rBV	1032932	1385131	6.23%	0.633%
83	13.096	3727	3734	3743	rVB5	1483452	2319032	10.43%	1.060%
84	13.212	3762	3770	3777	rBV	1116082	1704496	7.67%	0.779%
85	13.263	3778	3786	3794	rVB	3202624	4896260	22.03%	2.238%
86	13.318	3795	3803	3809	rBV2	2163233	3219356	14.48%	1.472%
87	13.418	3828	3834	3841	rVB	2616361	3109352	13.99%	1.421%
88	13.550	3857	3875	3884	rBV	4594786	7793576	35.06%	3.563%
89	13.759	3933	3940	3950	rBV3	804880	1444834	6.50%	0.660%
90	13.816	3952	3958	3968	rVB3	927463	1447924	6.51%	0.662%
91	13.955	3993	4001	4015	rVB2	884695	1455390	6.55%	0.665%
92	14.138	4049	4058	4071	rBV3	931403	1935555	8.71%	0.885%
93	14.238	4084	4089	4096	rVB2	138555	160216	0.72%	0.073%
94	14.344	4115	4122	4135	rVB3	536093	1015932	4.57%	0.464%
95	14.492	4157	4168	4179	rBV6	187226	398479	1.79%	0.182%
96	14.624	4202	4209	4215	rBV3	103874	155429	0.70%	0.071%
97	14.681	4216	4227	4238	rVV	1179352	1841954	8.29%	0.842%
98	14.865	4275	4284	4297	rVB2	459865	765253	3.44%	0.350%
99	15.604	4508	4514	4521	rBV2	15373	21019	0.09%	0.010%
100	15.861	4588	4594	4601	rBV6	10126	15867	0.07%	0.007%

Sum of corrected areas: 218760665

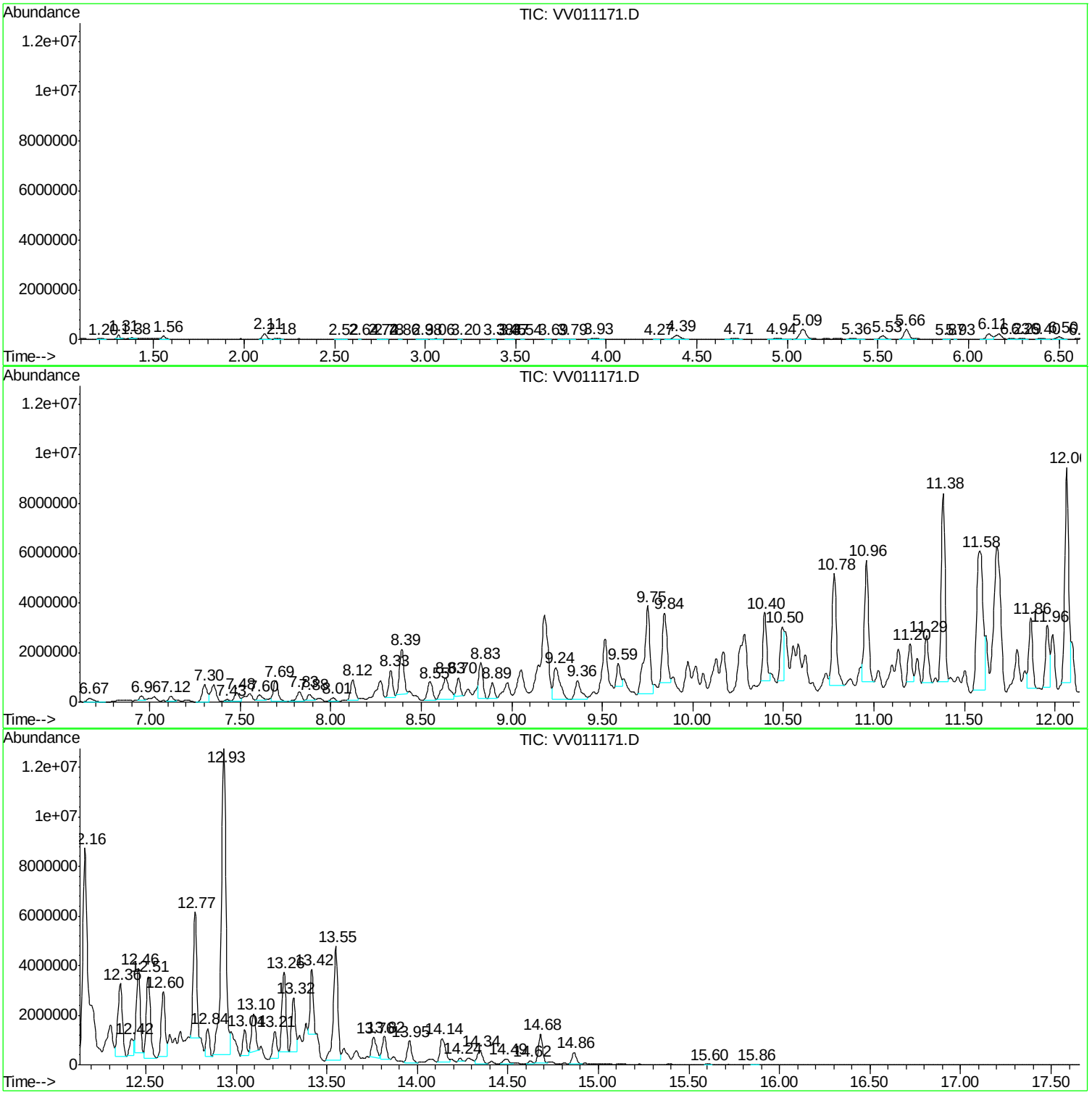
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

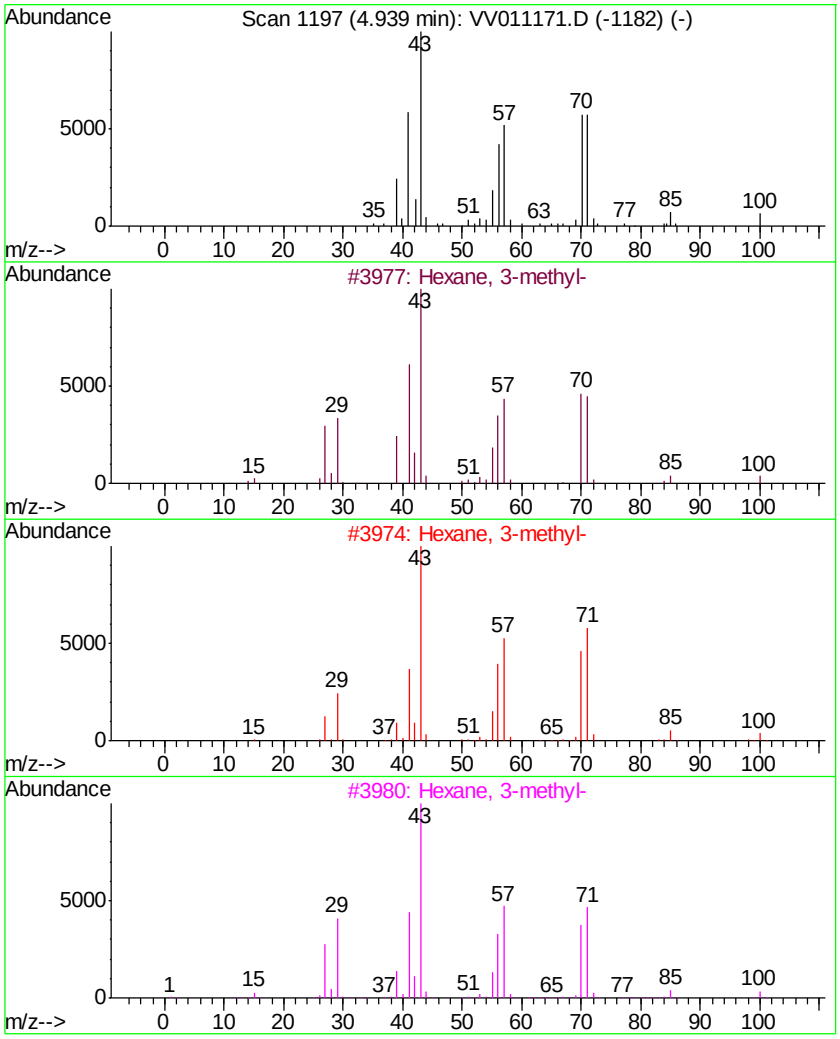
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

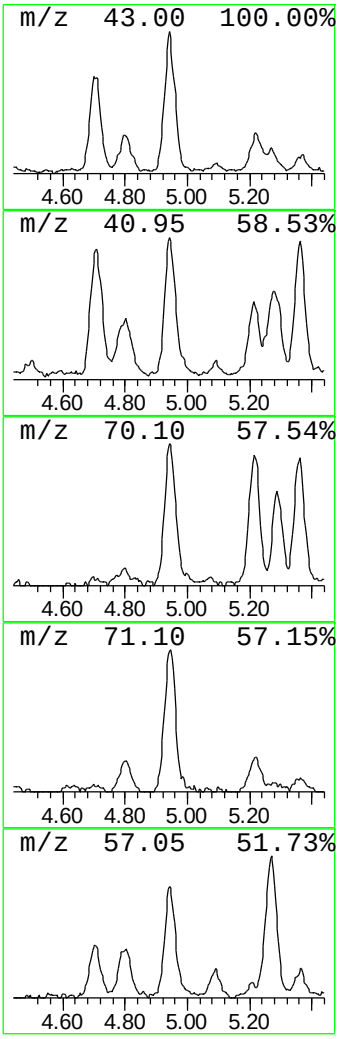
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.94	3.68 ug/L	120603	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	95
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	94
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	81
4	Heptane	100	C7H16	000142-82-5	50
5	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

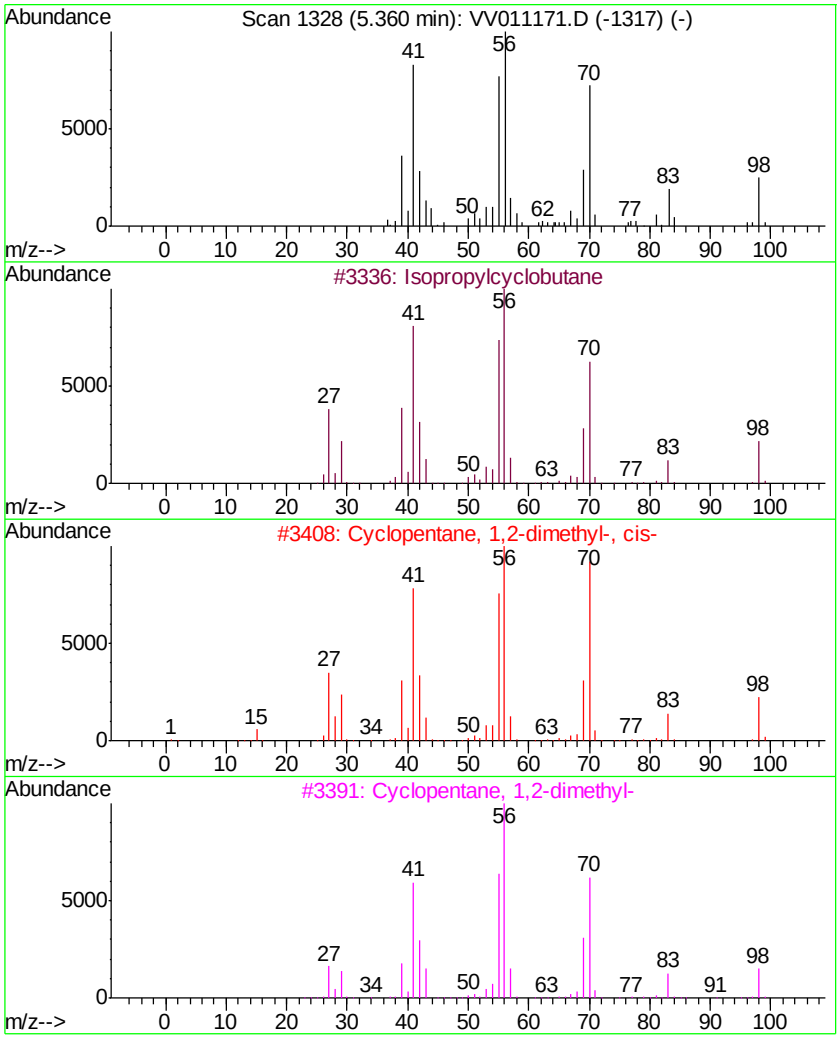
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

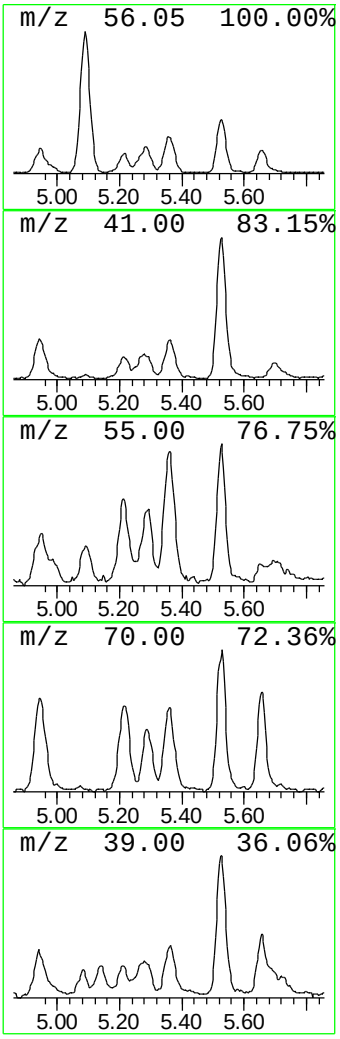
****

Peak Number 3 (DEL) Alkane: Cyclic5.36 Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	2.76 ug/L	90337	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropylcyclobutane	98	C7H14	000872-56-0	94
2	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	93
3	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	90
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	90
5	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

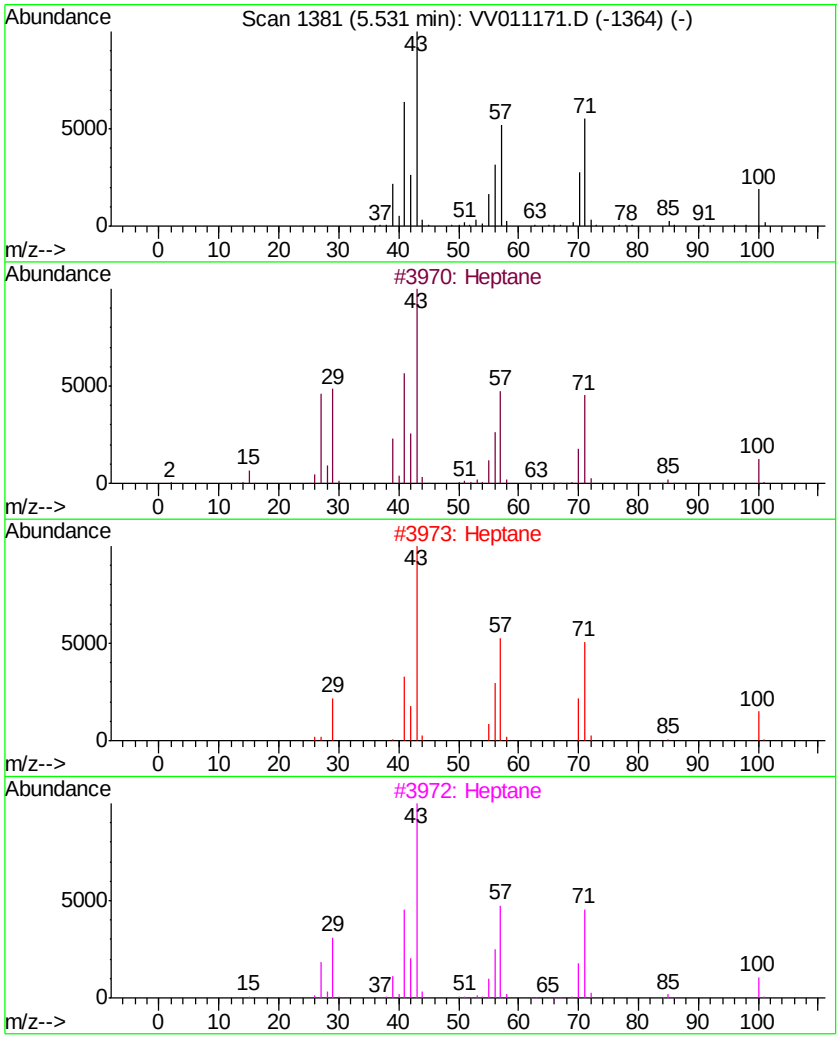
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

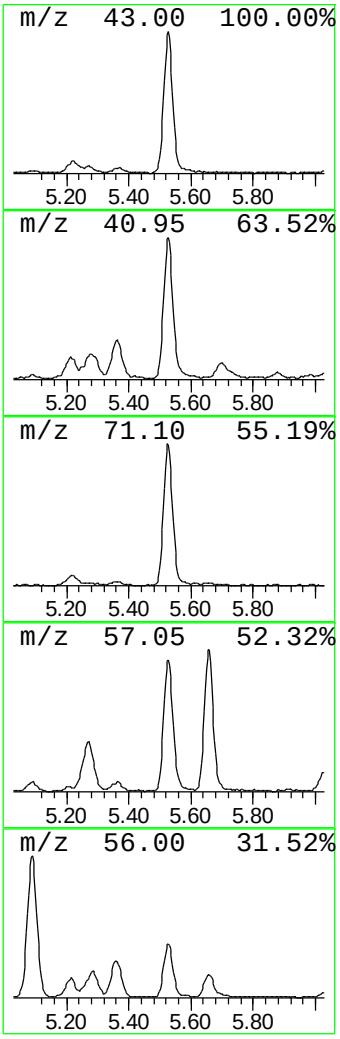
****

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.53	8.63 ug/L	282579	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane	100	C7H16	000142-82-5	91
2	Heptane	100	C7H16	000142-82-5	87
3	Heptane	100	C7H16	000142-82-5	68
4	Oxalic acid, isobutyl pentyl ester	216	C11H20O4	1000309-37-0	59
5	Heptane	100	C7H16	000142-82-5	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

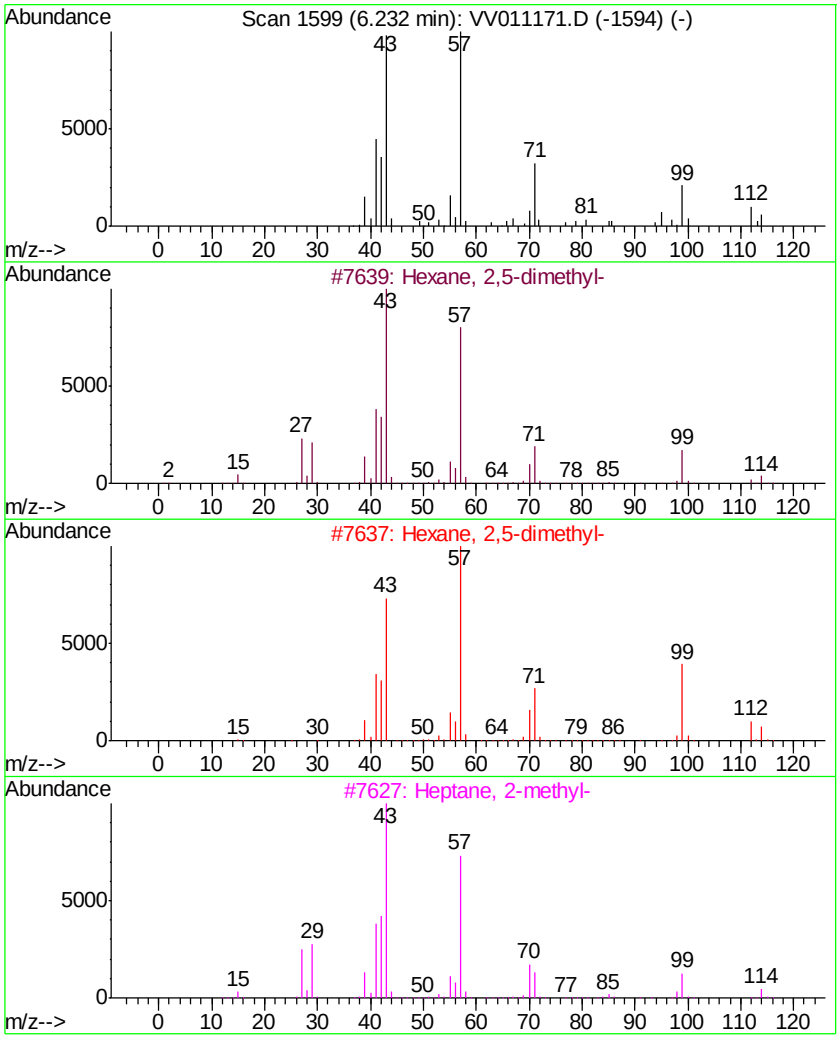
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

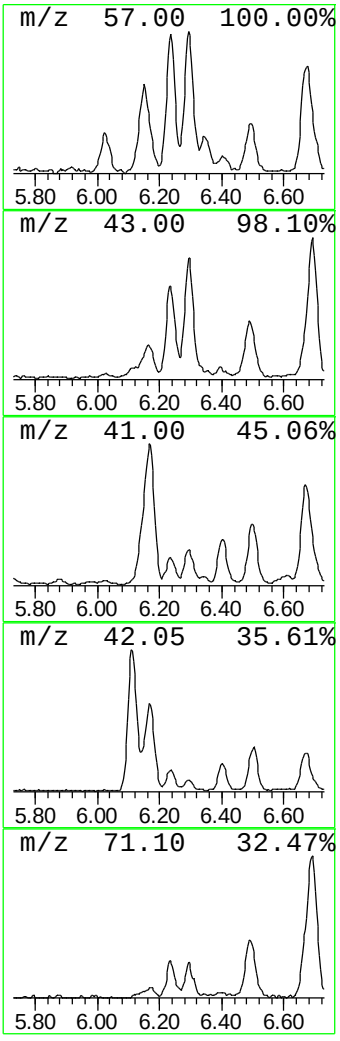
****

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.23	1.34 ug/L	43740	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	59
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	47
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	47
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

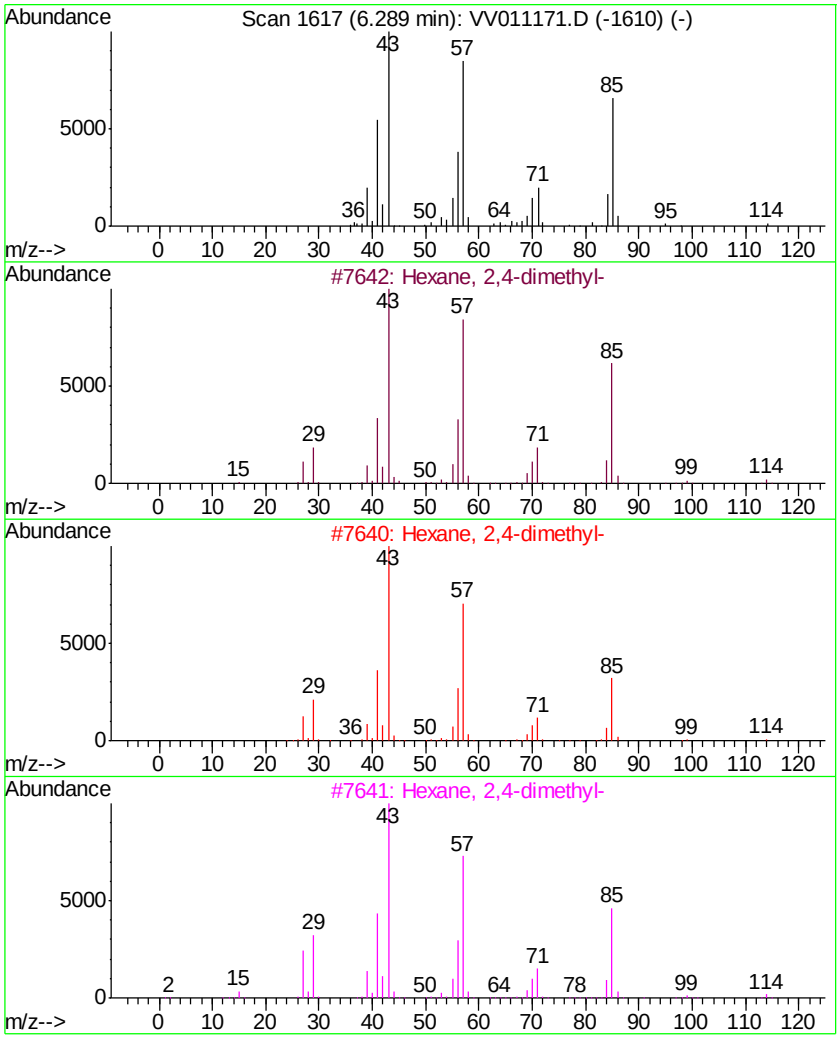
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

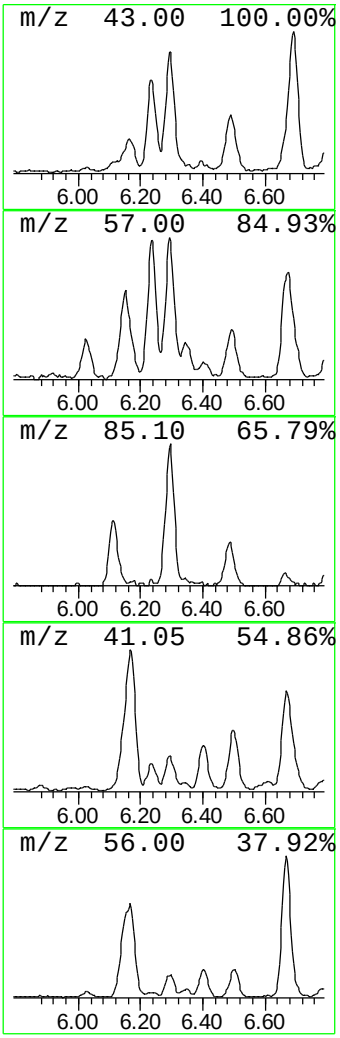
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.29	2.13 ug/L	69751	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	83
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	74
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
4	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	72
5	Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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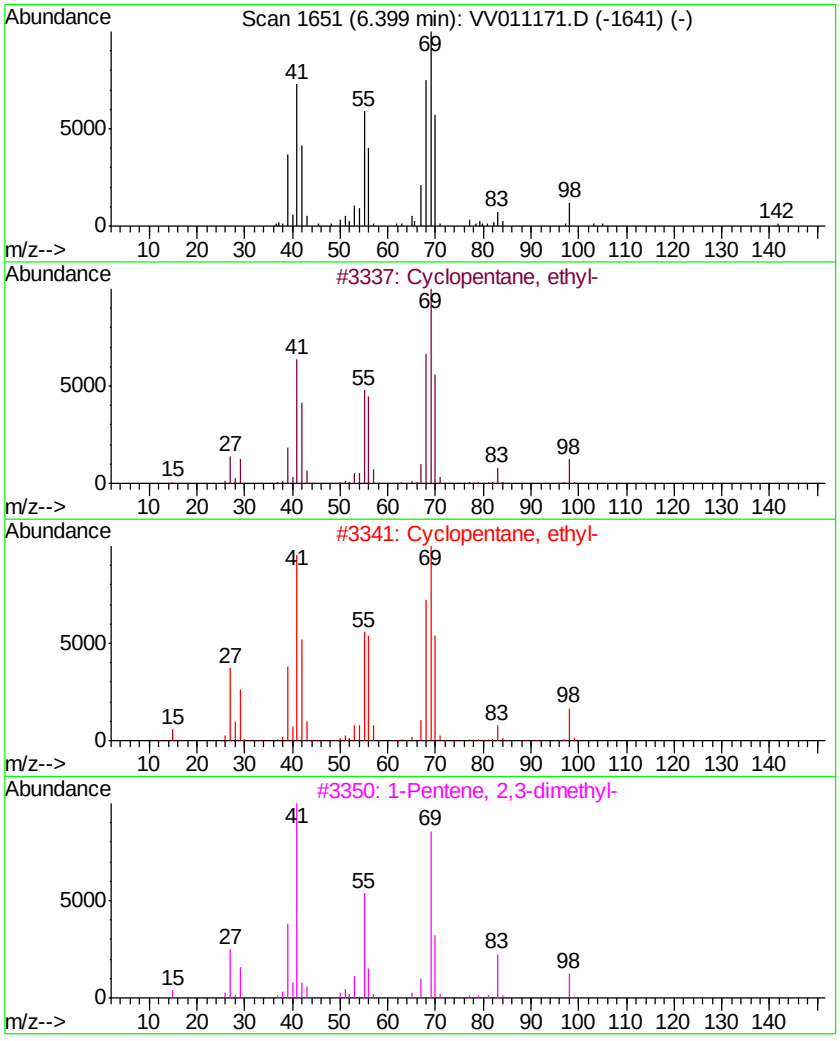
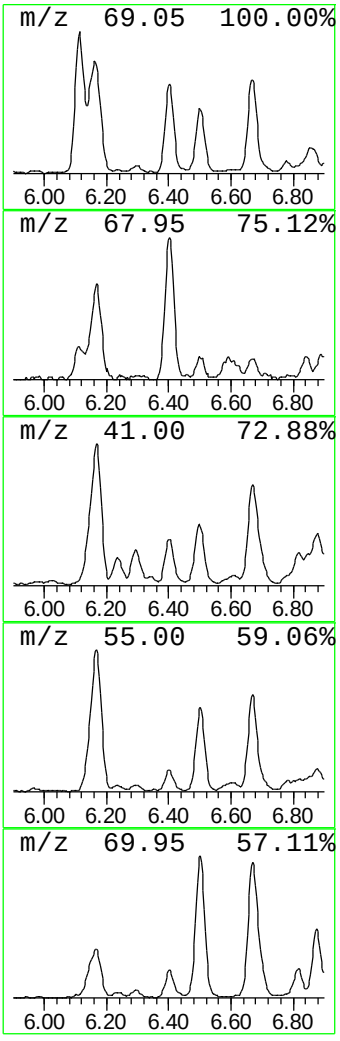
Peak Number 7 (DEL) Alkane: Cyclic6.40 Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.40	2.93 ug/L	95995	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	93
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	87
3	1-Pentene, 2,3-dimethyl-	98	C7H14	003404-72-6	43
4	Cyclopentane, 2-propenyl-	110	C8H14	003524-75-2	37
5	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	35





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Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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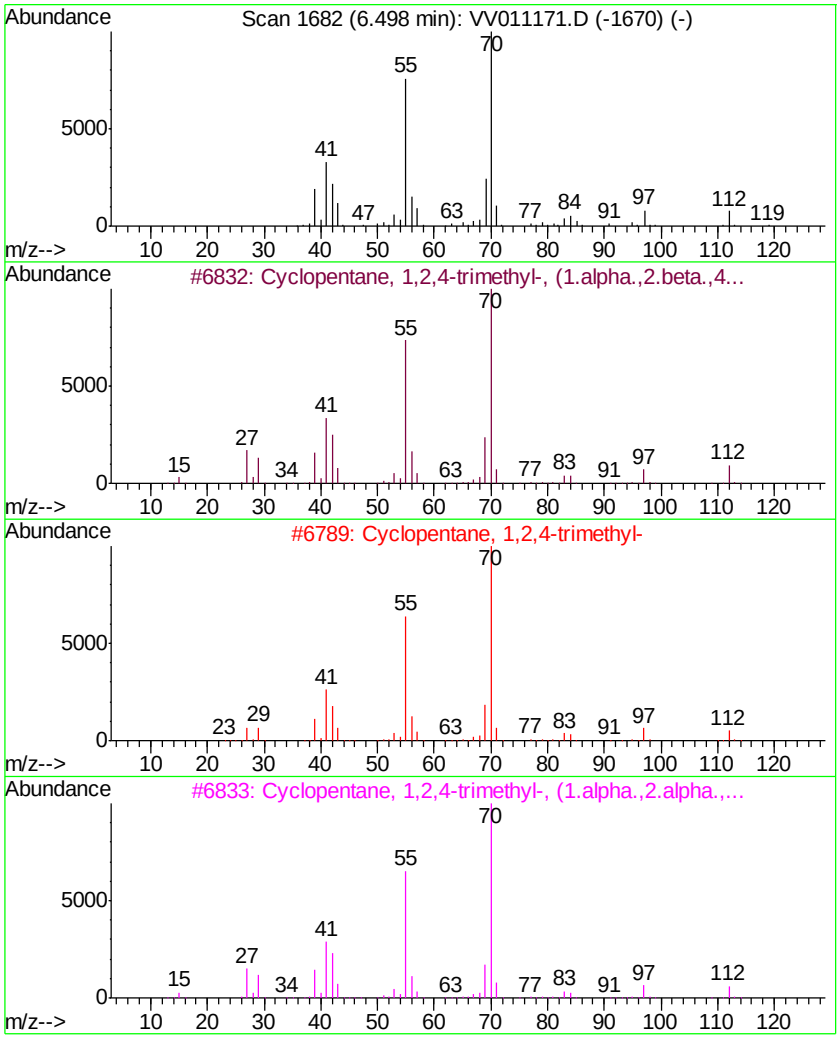
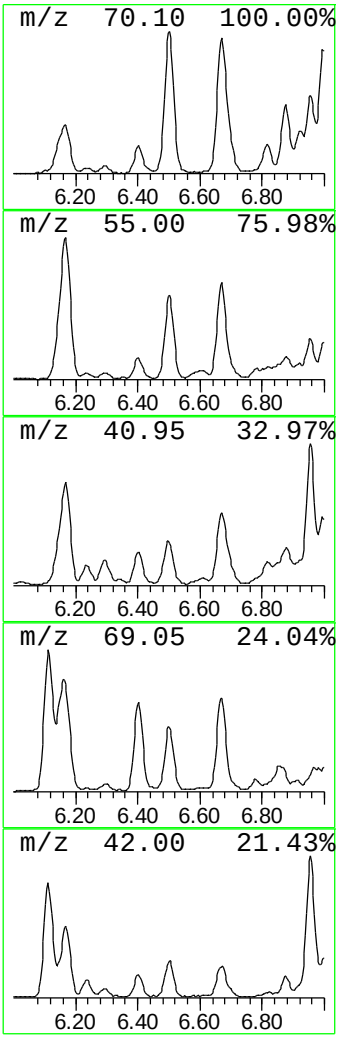
Peak Number 8 (DEL) Alkane: Cyclic6.50 Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.50	6.46 ug/L	211695	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	95
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	94
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	91
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	87
5	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	86





Library Search Compound Report

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Data File : VV011171.D
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Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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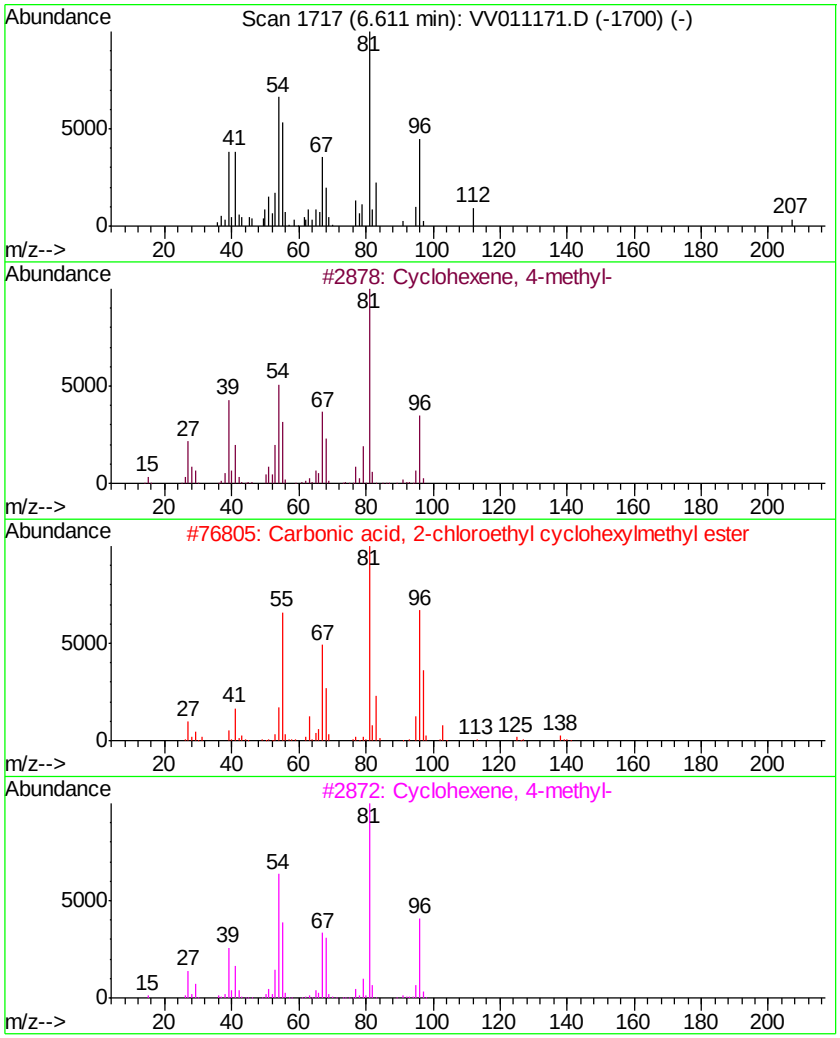
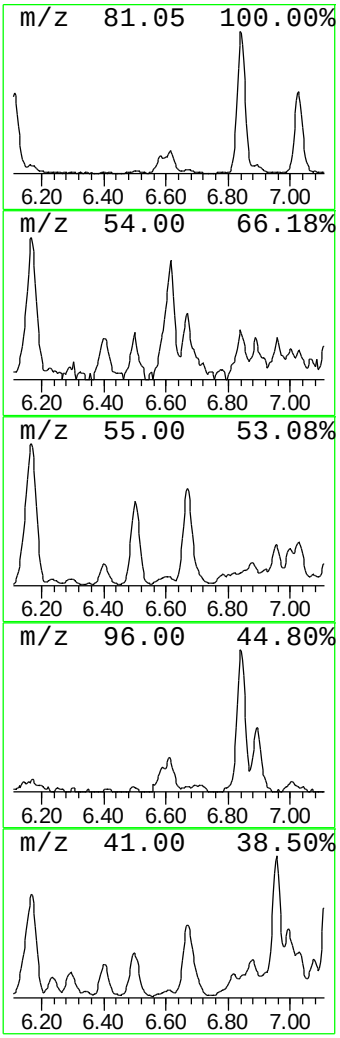
Peak Number 9 Cyclohexene, 4-methyl- Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.61	1.66 ug/L	54459	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	81
2	Carbonic acid, 2-chloroethyl cyc...	220	C10H17ClO3	1000357-88-3	72
3	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	68
4	Cyclohexane, methylene-	96	C7H12	001192-37-6	52
5	Cyclohexane, methylene-	96	C7H12	001192-37-6	52





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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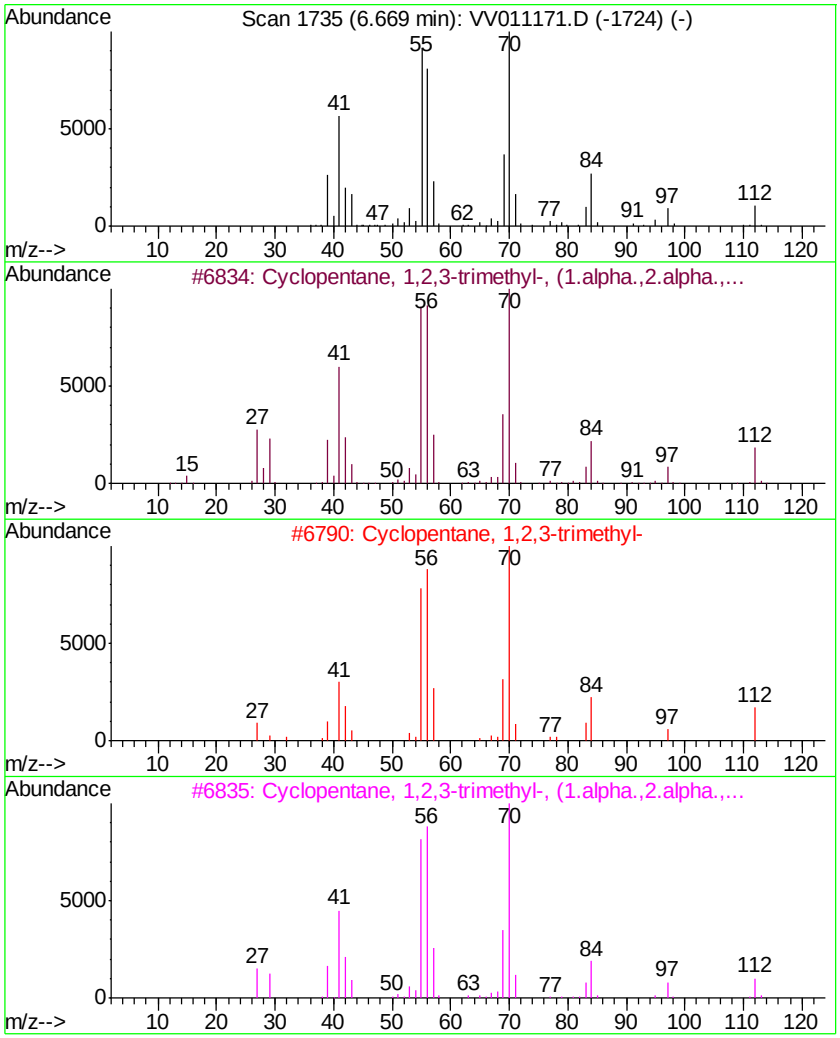
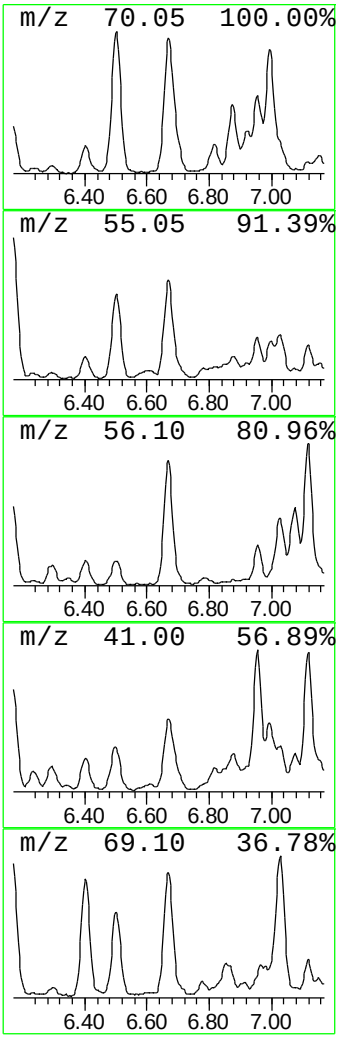
Peak Number 10 (DEL) Alkane: Cyclic6.67 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	11.24 ug/L	368114	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
2	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	91
3	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	81
5	1-Heptene, 3-methyl-	112	C8H16	004810-09-7	80





Library Search Compound Report

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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

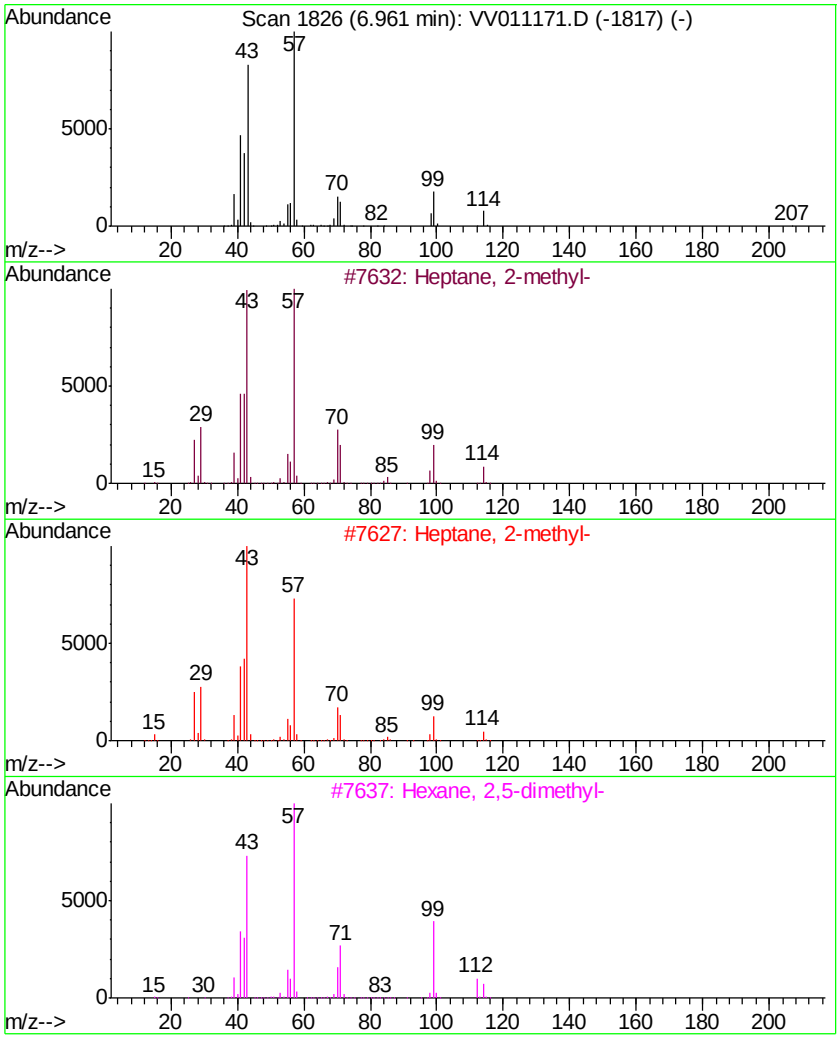
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

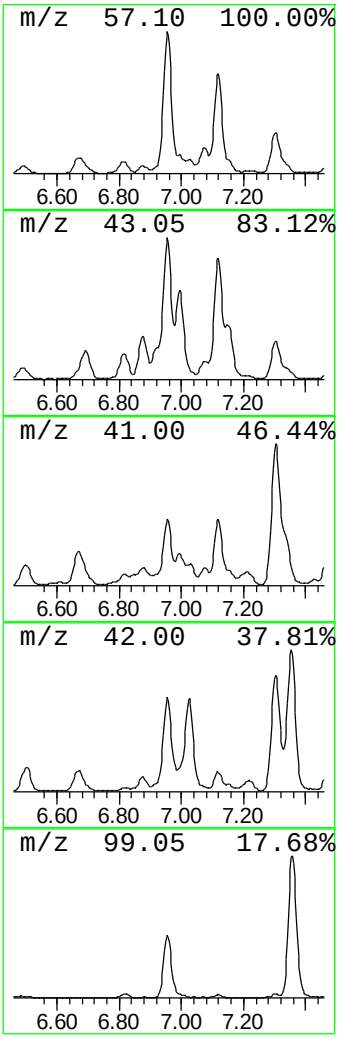
****

Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.96	8.06 ug/L	263867	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	90
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	90
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	56





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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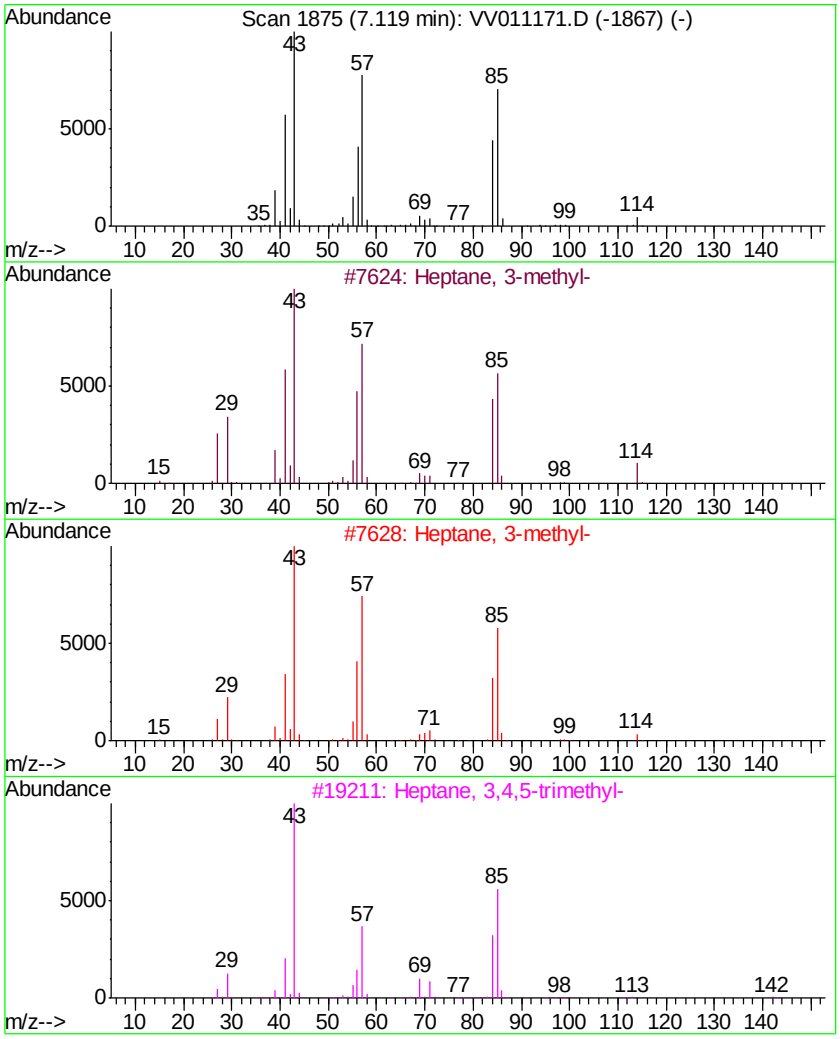
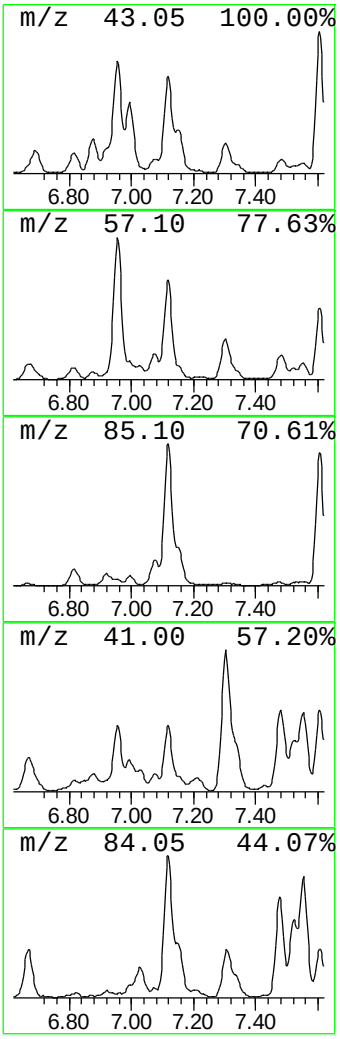
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.12	9.16 ug/L	300004	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	94
2	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
3	Heptane, 3,4,5-trimethyl-	142	C10H22	020278-89-1	72
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
5	Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	59





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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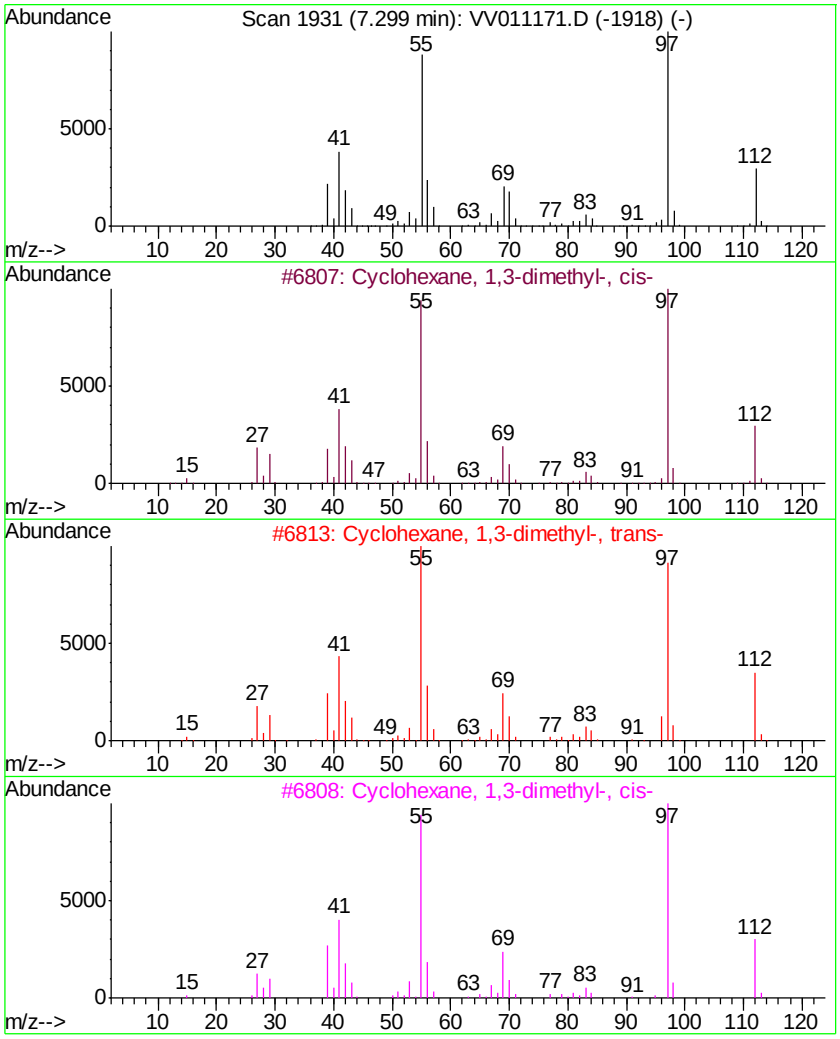
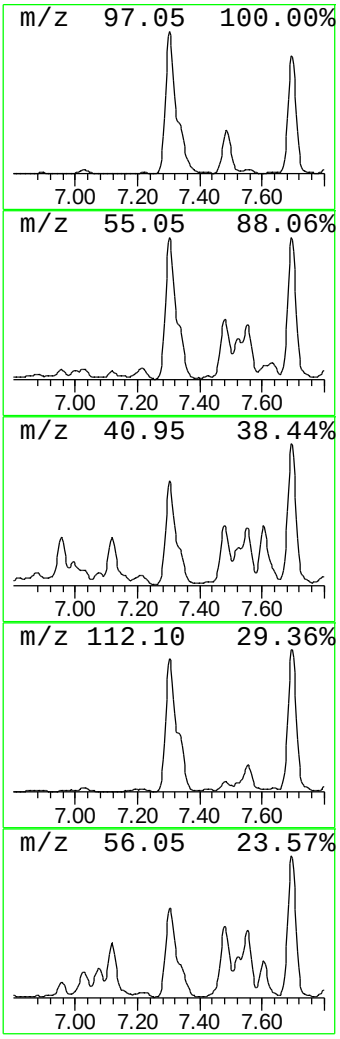
Peak Number 13 (DEL) Alkane: Cyclic7.30 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.30	36.28 ug/L	1404220	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	94
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	93
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	91





Library Search Compound Report

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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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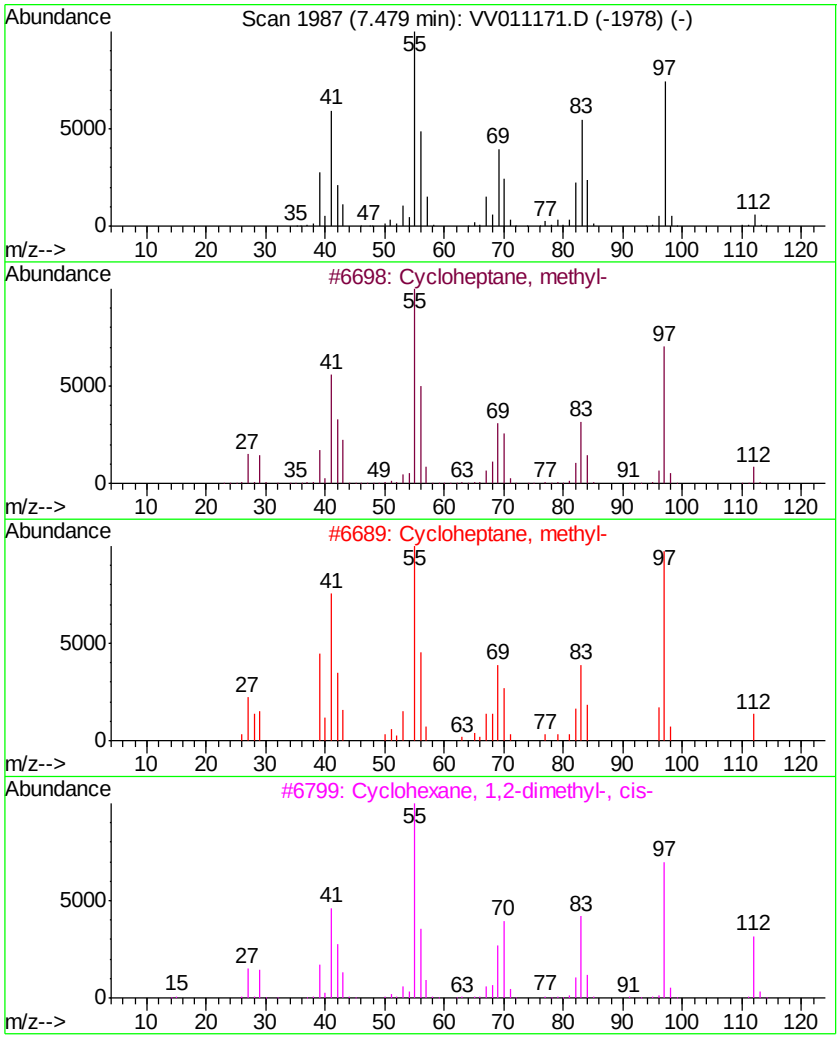
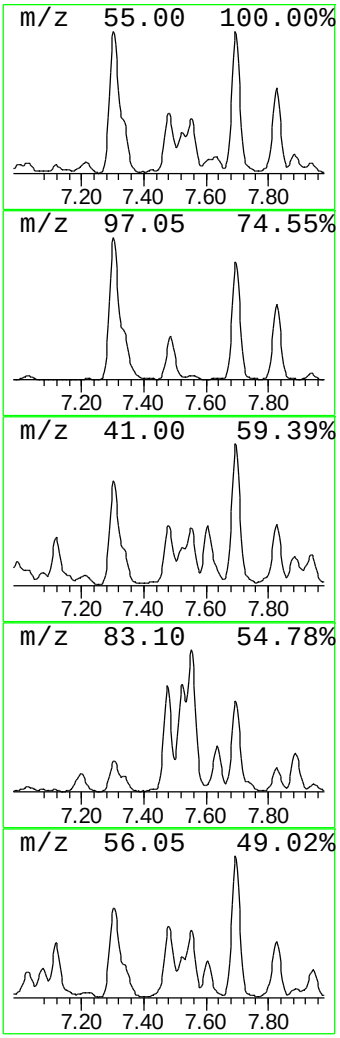
Peak Number 14 (DEL) Alkane: Cyclic7.48 Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.48	14.81 ug/L	573145	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cycloheptane, methyl-	112	C8H16	004126-78-7	83
2	Cycloheptane, methyl-	112	C8H16	004126-78-7	80
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	64
4	Cyclopentane, 1-ethyl-3-methyl-,...	112	C8H16	002613-66-3	55
5	Cyclopentane, 1-ethyl-3-methyl-,...	112	C8H16	002613-65-2	50





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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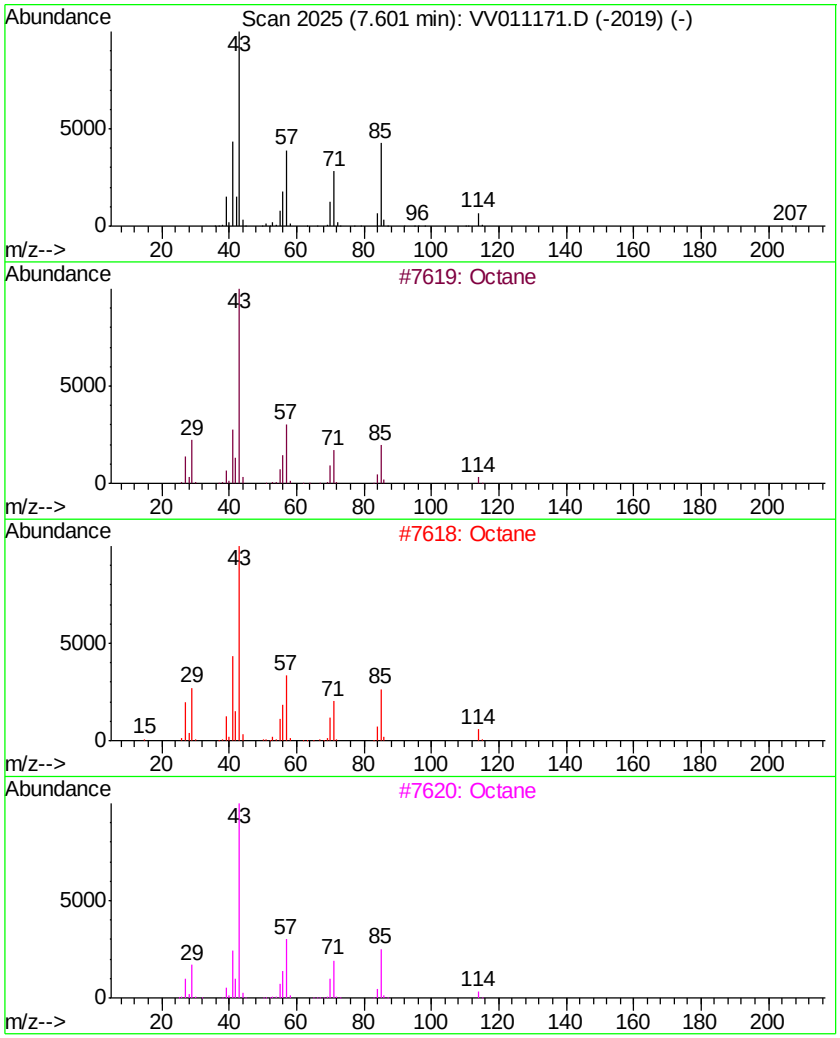
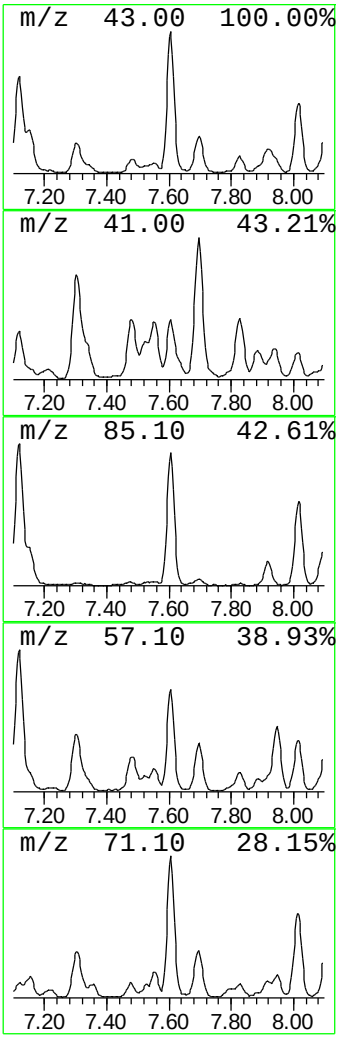
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.60	10.98 ug/L	424989	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	91
2	Octane	114	C8H18	000111-65-9	81
3	Octane	114	C8H18	000111-65-9	81
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Oxalic acid, isohexyl pentyl ester	244	C13H24O4	1000309-32-8	64





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Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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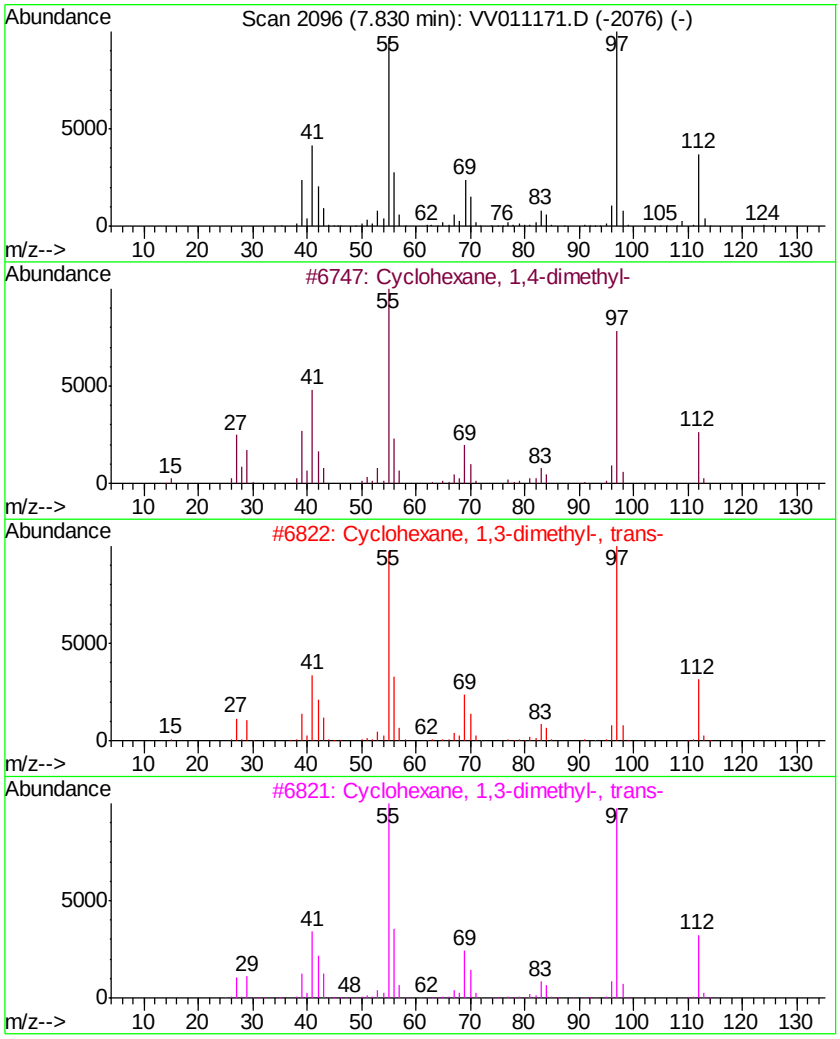
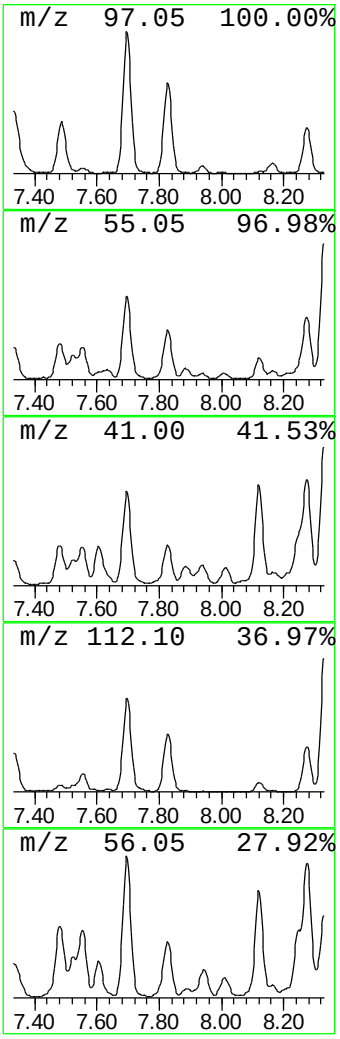
Peak Number 16 (DEL) Alkane: Cyclic7.83 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.83	20.34 ug/L	787240	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	97
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	97
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	97
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	97
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	96





Library Search Compound Report

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Sample : K3081-04
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ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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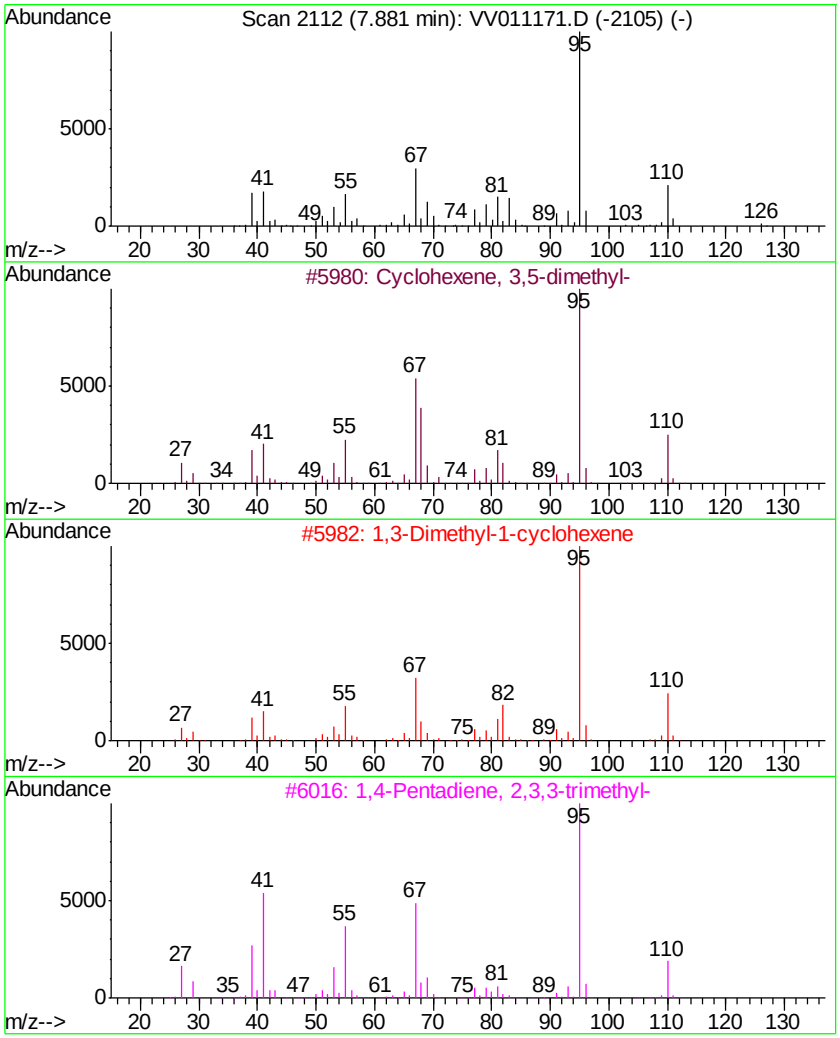
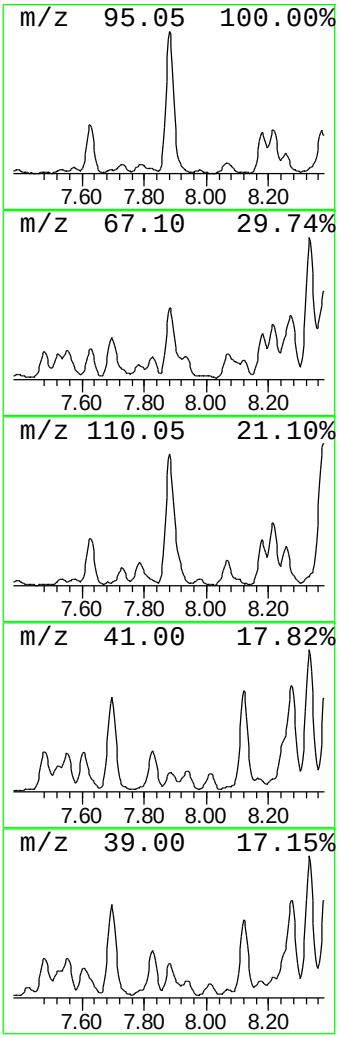
Peak Number 17 Cyclohexene, 3,5-dimethyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.88	11.59 ug/L	448459	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3,5-dimethyl-	110	C8H14	000823-17-6	76
2	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	74
3	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	72
4	Cyclopentene, 1,2,3-trimethyl-	110	C8H14	000473-91-6	70
5	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	110	C8H14	1000142-17-5	62





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

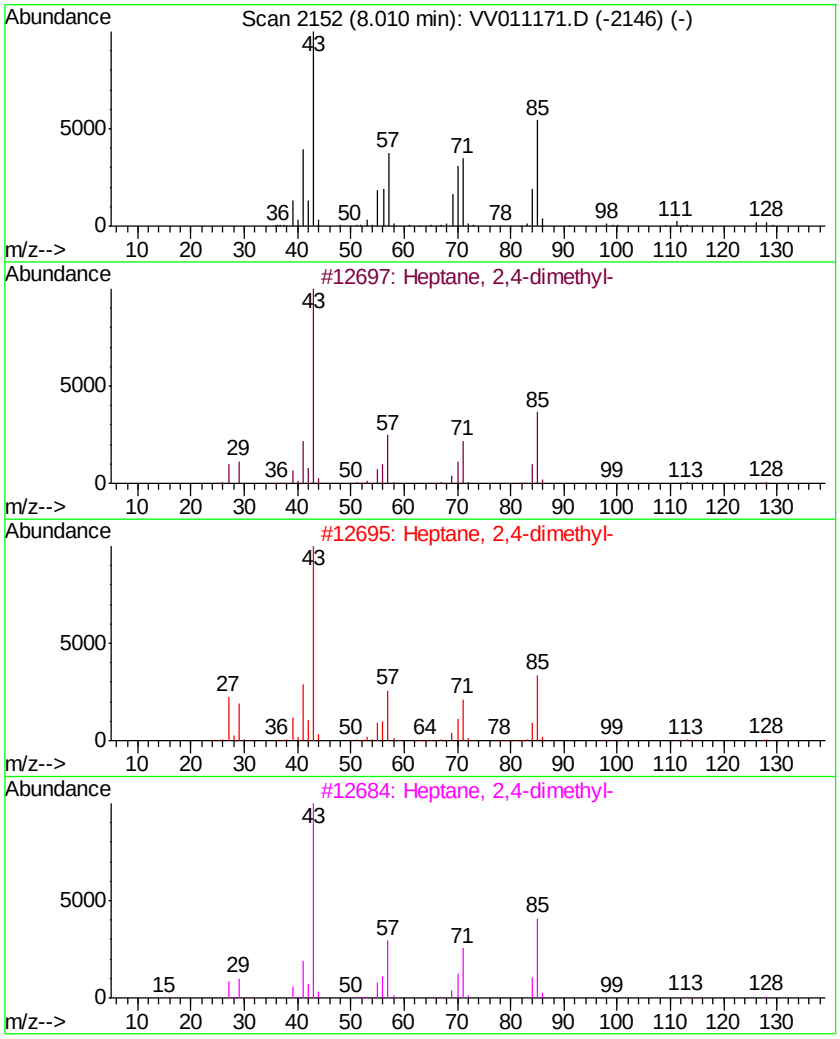
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

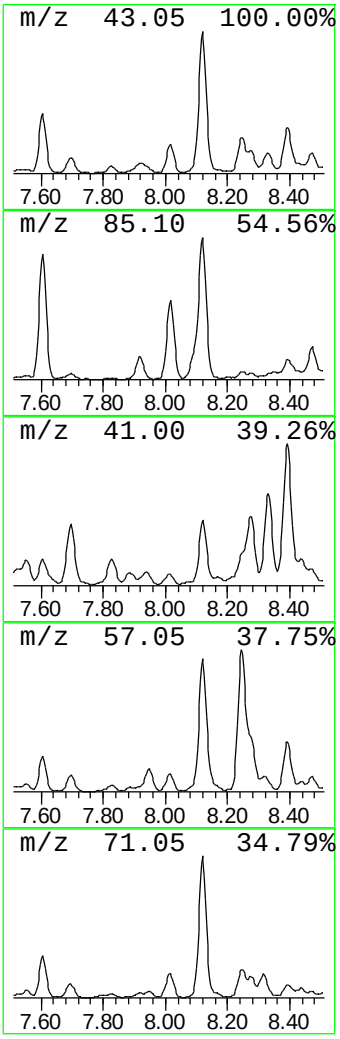
****

Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.01	6.21 ug/L	240434	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	81
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
4	Hexane, 2,3,3-trimethyl-	128	C9H20	016747-28-7	64
5	Octane	114	C8H18	000111-65-9	59





Library Search Compound Report

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Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

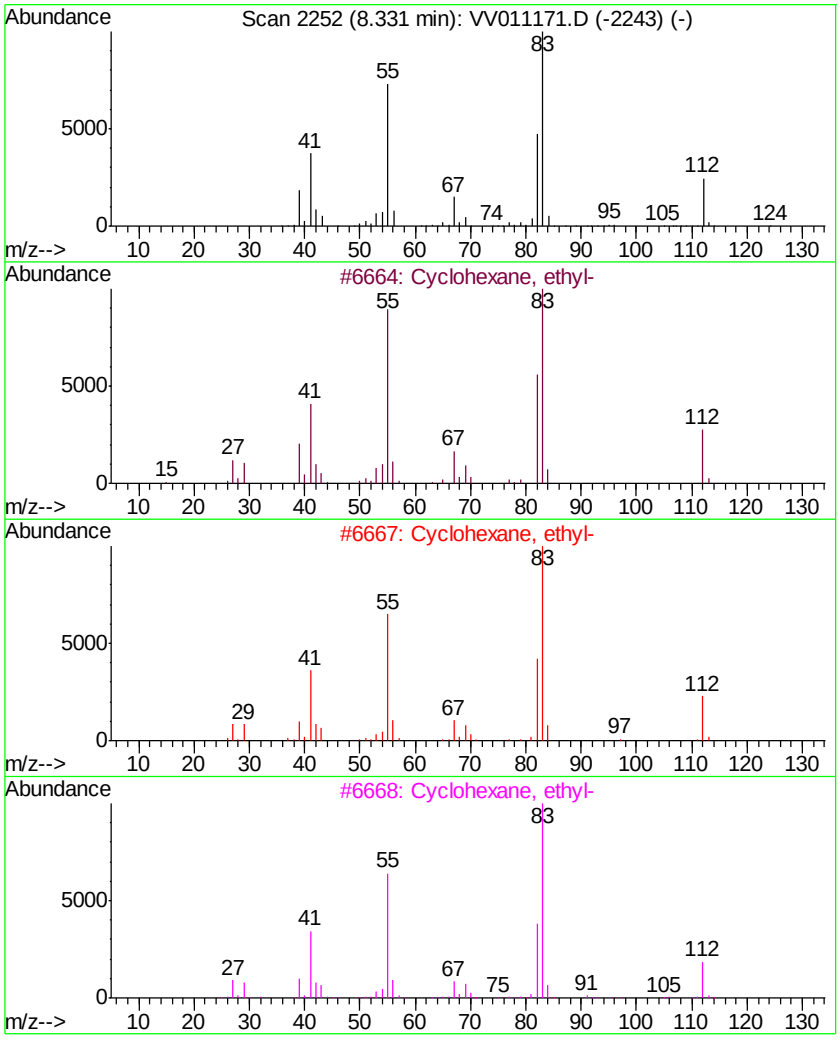
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

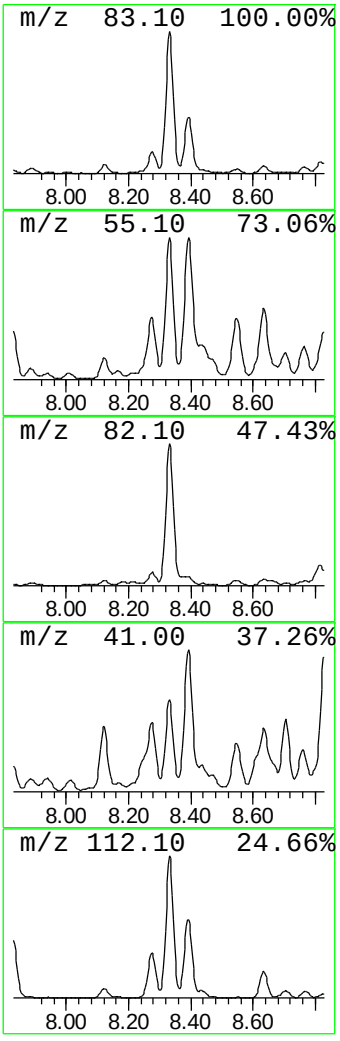
****

Peak Number 19 (DEL) Alkane: Cyclic8.33 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.33	44.16 ug/L	1709260	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	87
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	87
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	87
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	80
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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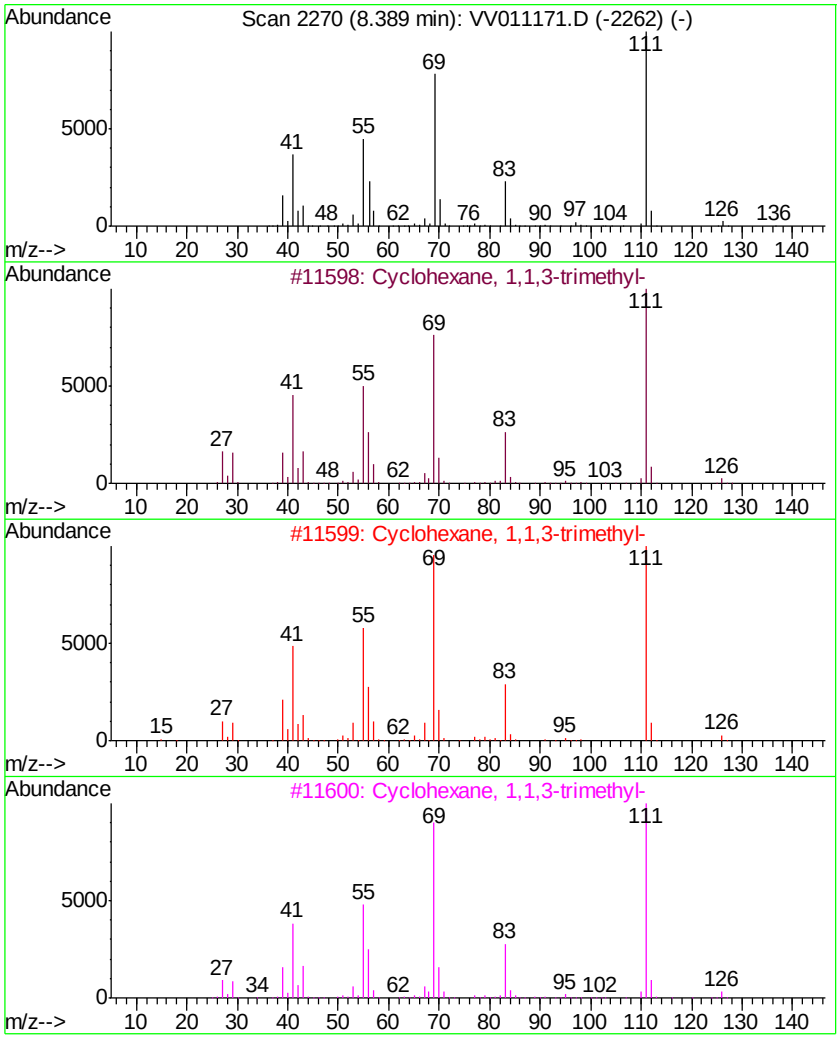
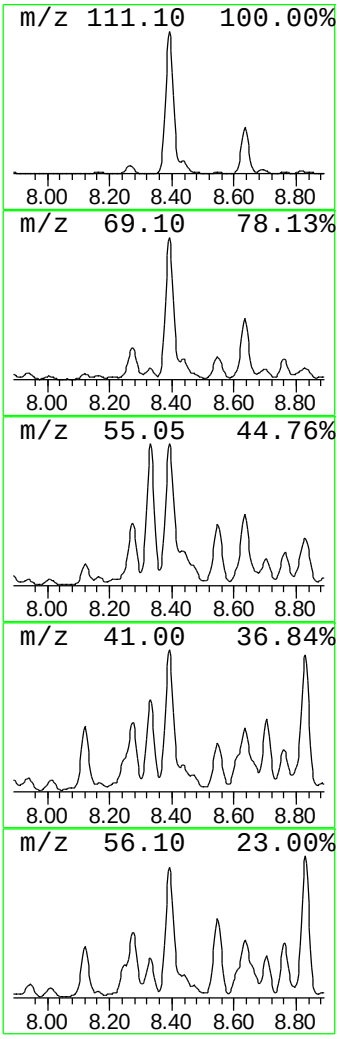
Peak Number 20 (DEL) Alkane: Cyclic8.39 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.39	79.47 ug/L	3076180	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	94
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
5	Cyclooctane, butyl-	168	C12H24	016538-93-5	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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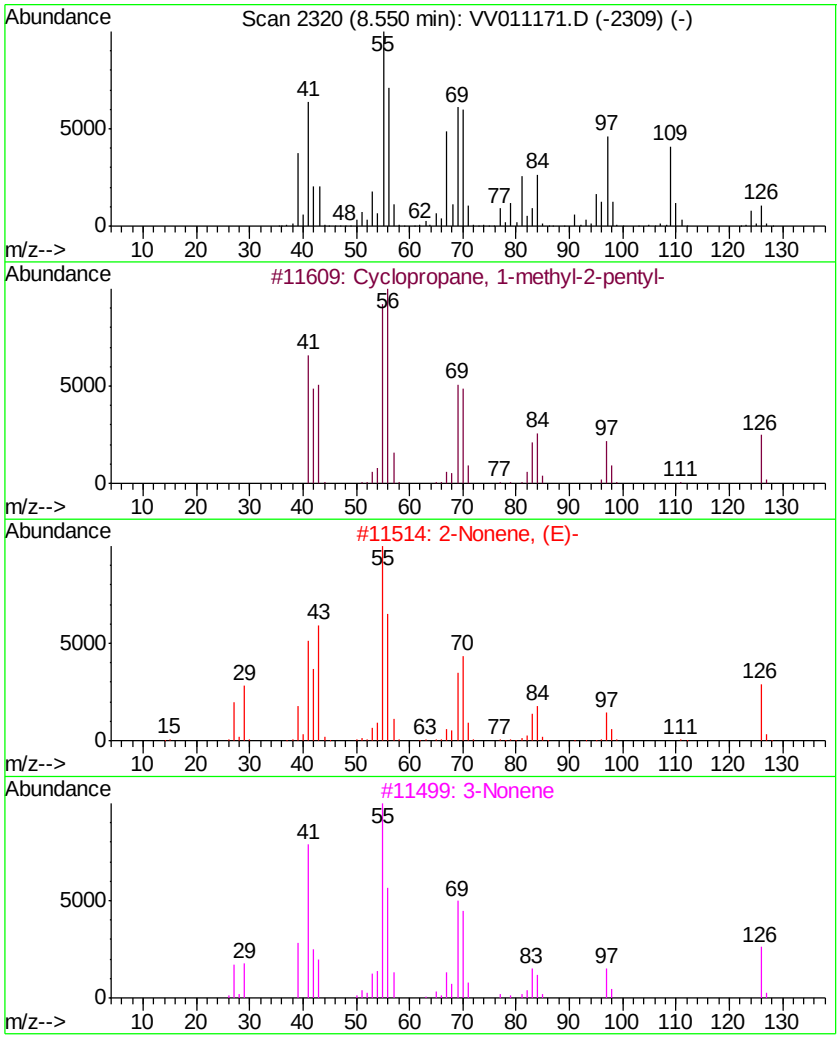
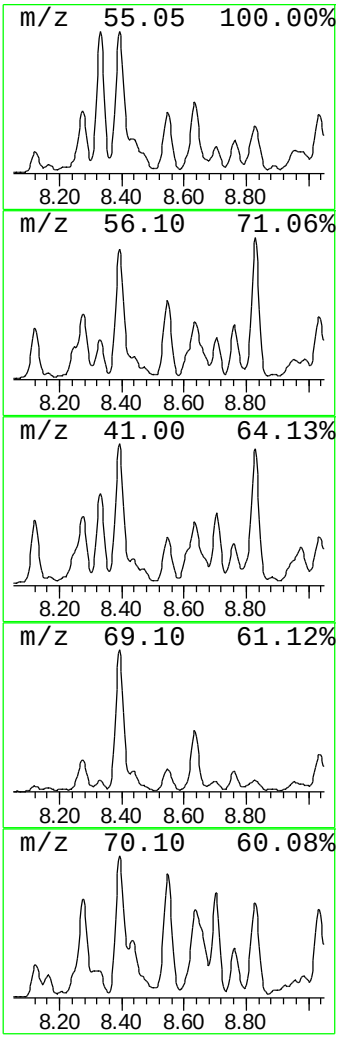
Peak Number 21 (DEL) Alkane: Cyclic8.55 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.55	36.43 ug/L	1410330	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1-methyl-2-pentyl-	126	C9H18	041977-37-1	49
2	2-Nonene, (E)-	126	C9H18	006434-78-2	41
3	3-Nonene	126	C9H18	020063-77-8	38
4	trans-1,3-Diethylcyclopentane	126	C9H18	1000113-87-1	30
5	1-Hexene, 3-methyl-	98	C7H14	003404-61-3	25





Library Search Compound Report

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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

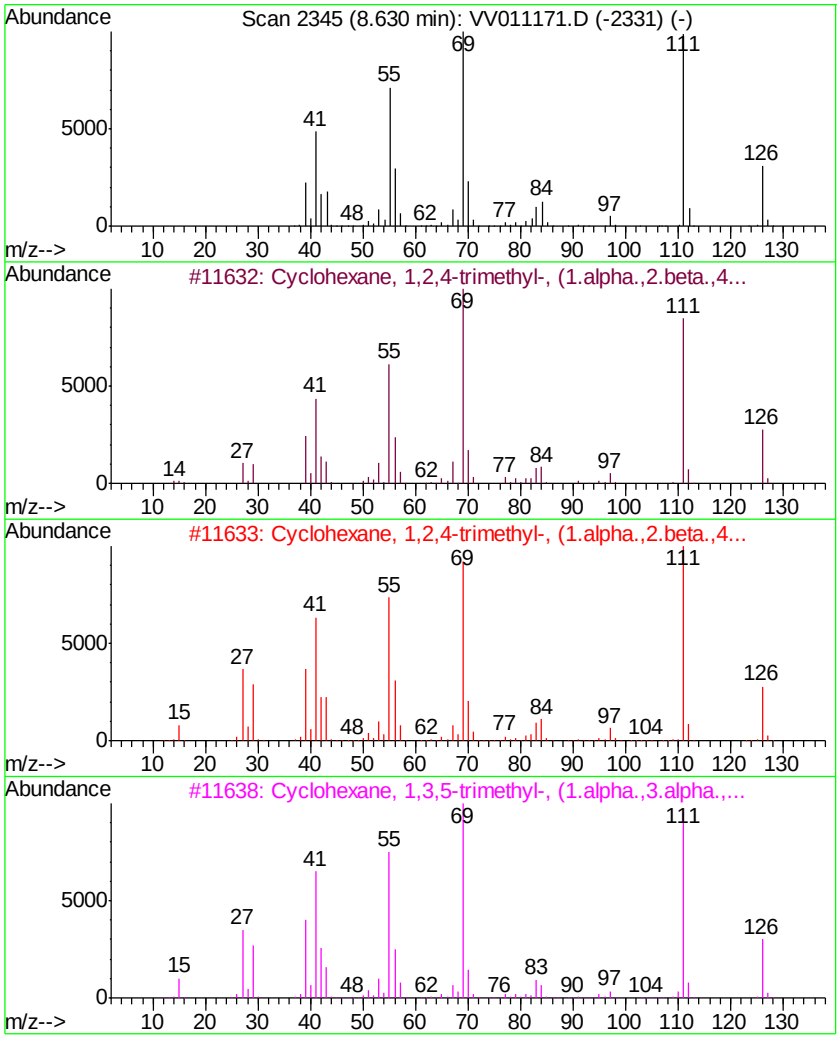
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

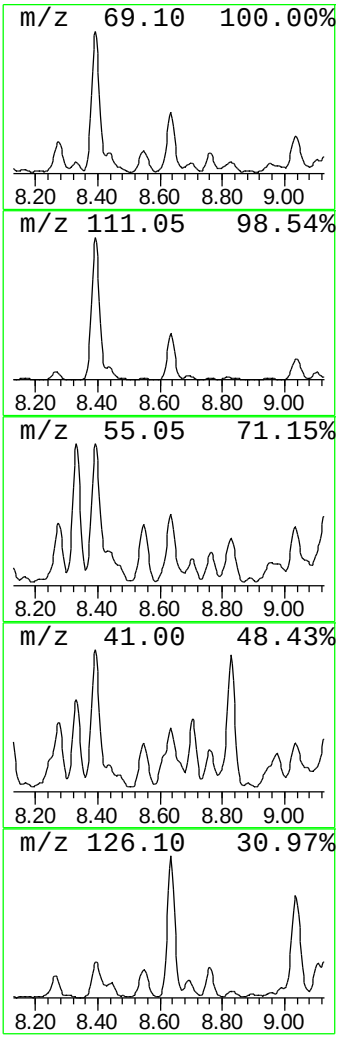
****

Peak Number 22 (DEL) Alkane: Cyclic8.63 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.63	61.02 ug/L	2361980	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	94
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	94
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	91
4	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	91
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

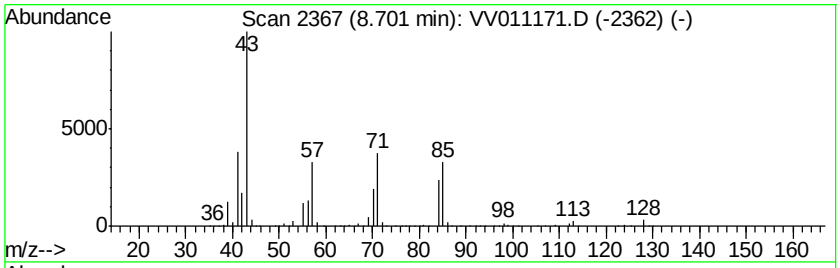
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

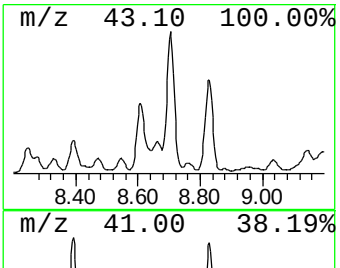
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.70	28.33 ug/L	1096720	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	83
2	Nonane, 4,5-dimethyl-	156	C11H24	017302-23-7	78
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	64





Library Search Compound Report

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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

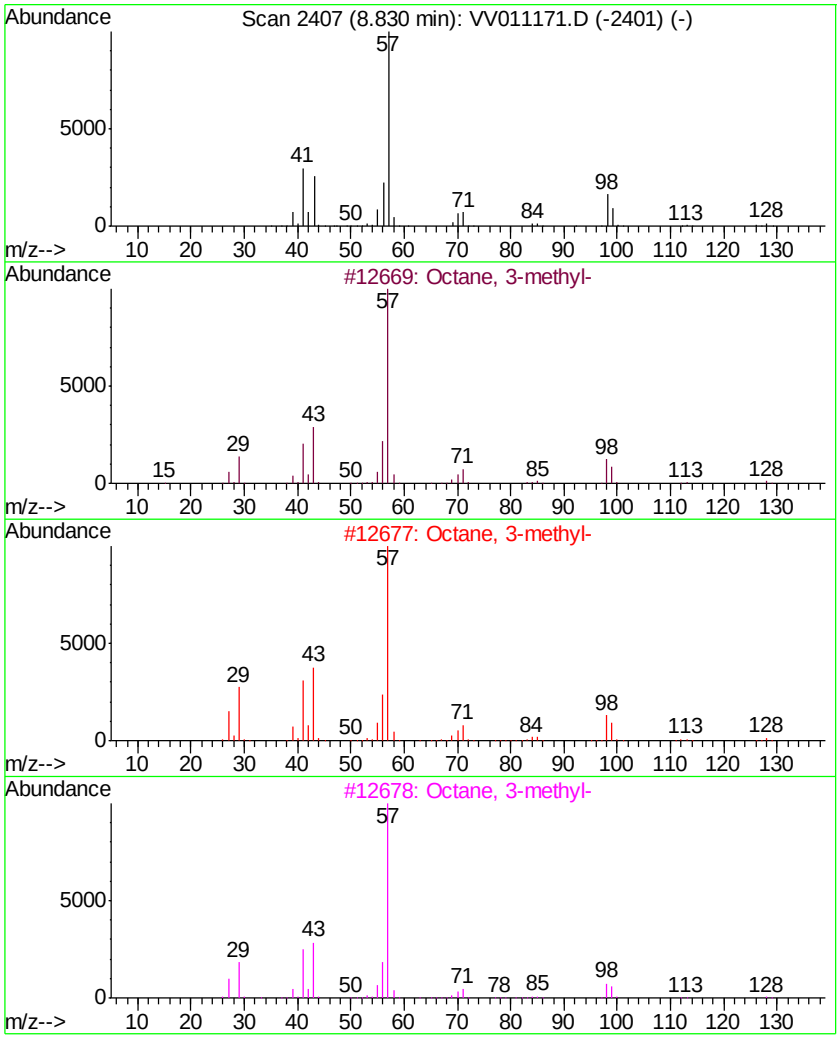
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

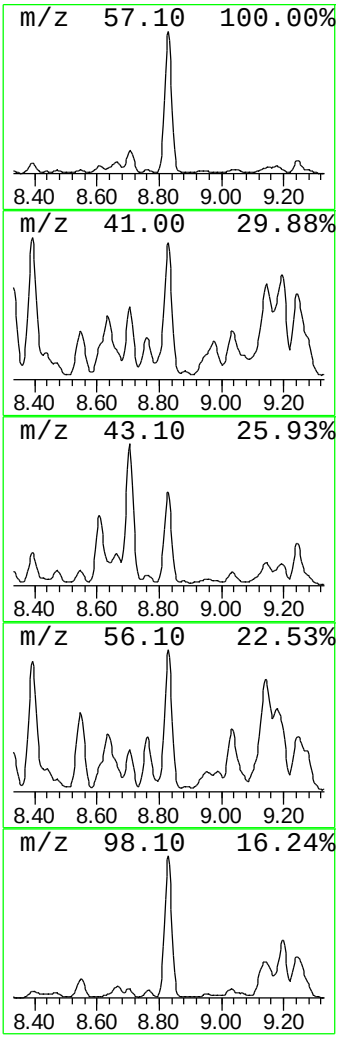
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.83	60.28 ug/L	2333220	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	91
2	Octane, 3-methyl-	128	C9H20	002216-33-3	86
3	Octane, 3-methyl-	128	C9H20	002216-33-3	80
4	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	74
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	64





Library Search Compound Report

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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

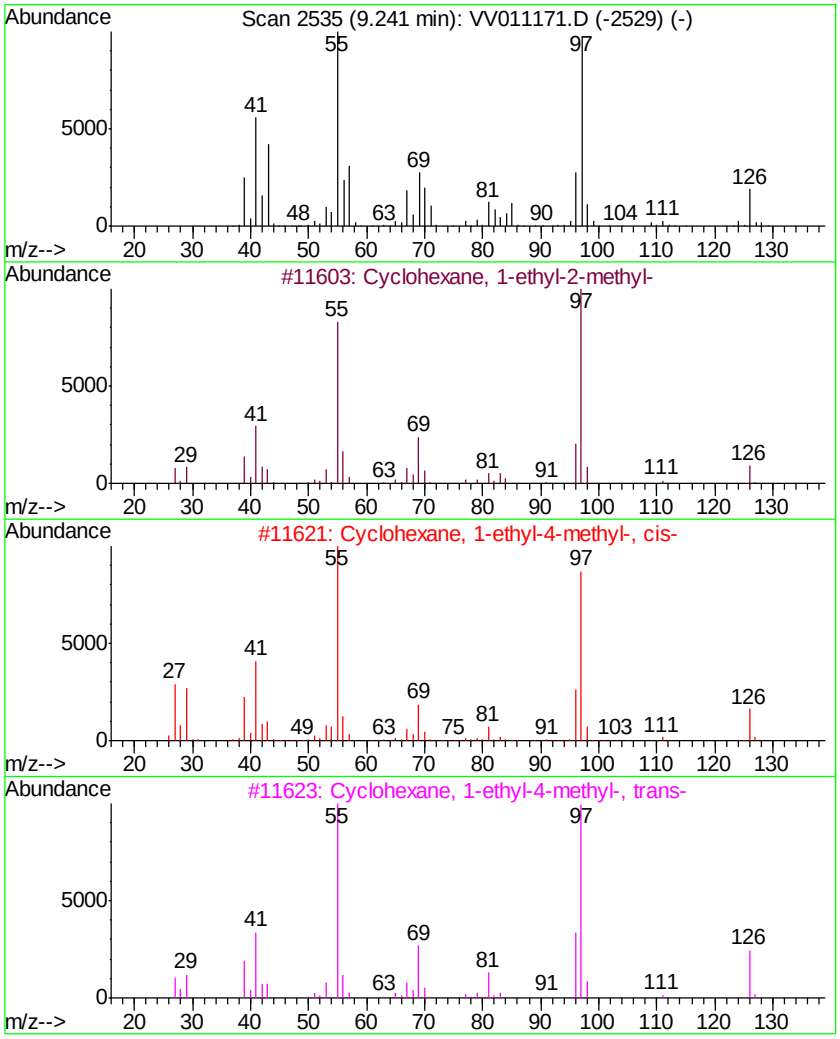
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

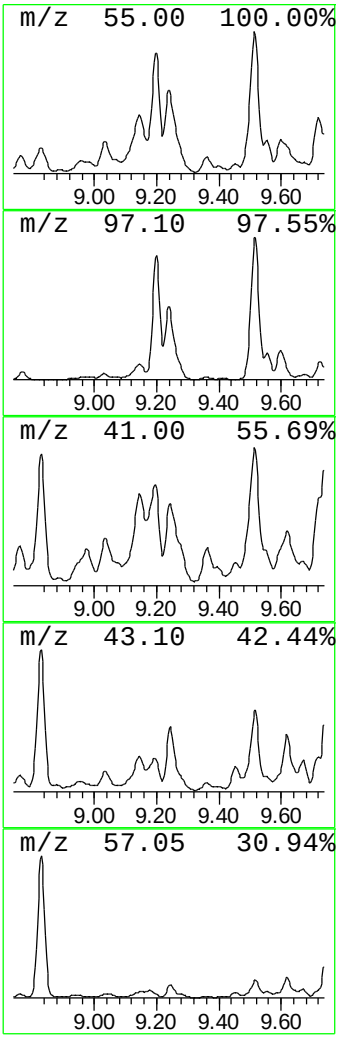
****

Peak Number 25 (DEL) Alkane: Cyclic9.24 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	84.74 ug/L	3280150	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	87
2	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	81
3	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	81
4	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	81
5	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	76





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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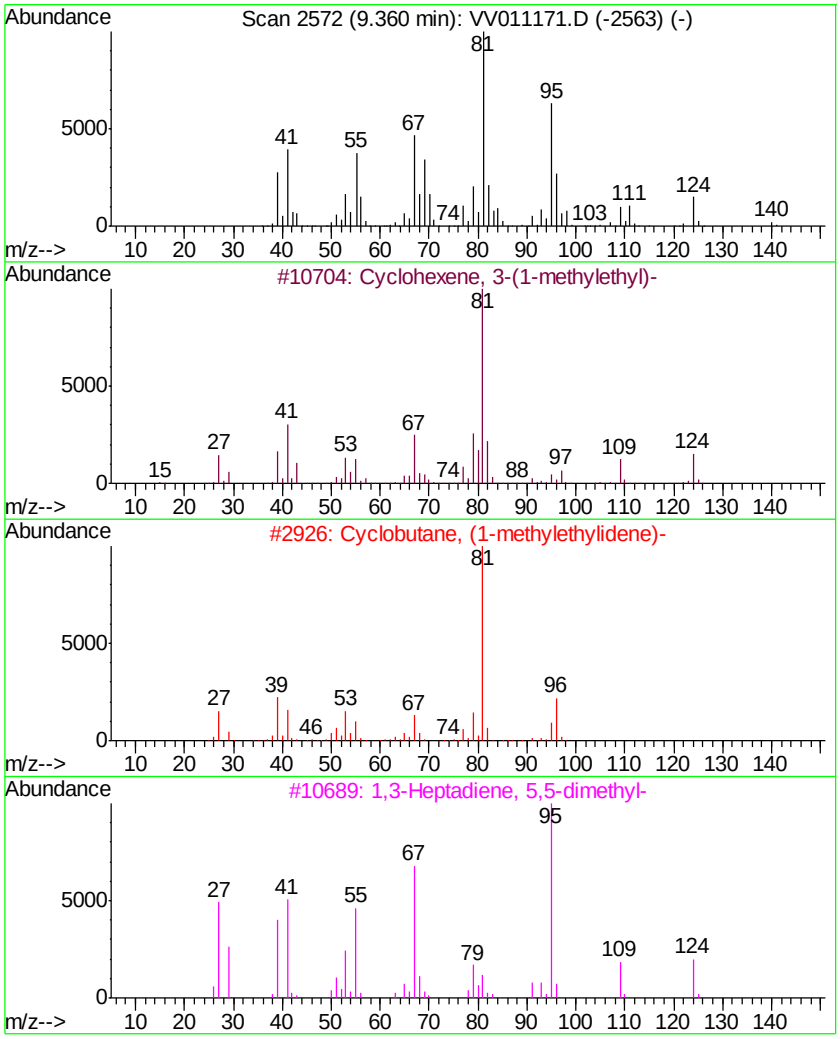
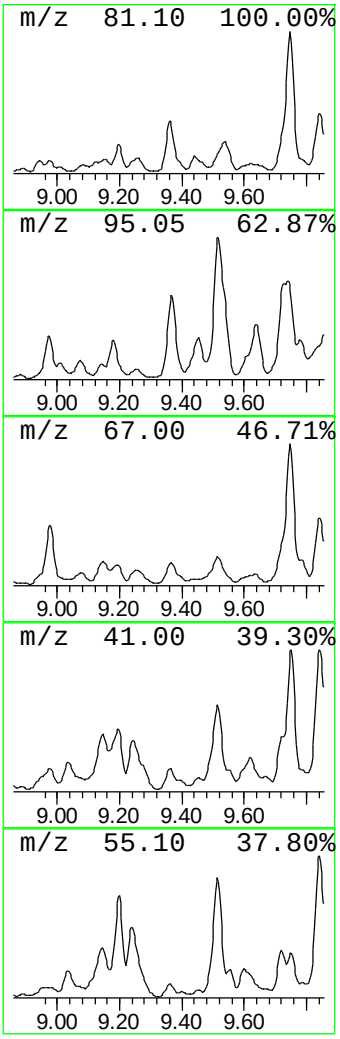
Peak Number 26 Cyclohexene, 3-(1-methyleth... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	43.75 ug/L	1693500	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3-(1-methylethyl)-	124	C9H16	003983-08-2	58
2	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	46
3	1,3-Heptadiene, 5,5-dimethyl-	124	C9H16	024618-86-8	46
4	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	43
5	Cyclopropane, trimethylmethylene-	96	C7H12	034462-28-7	43





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Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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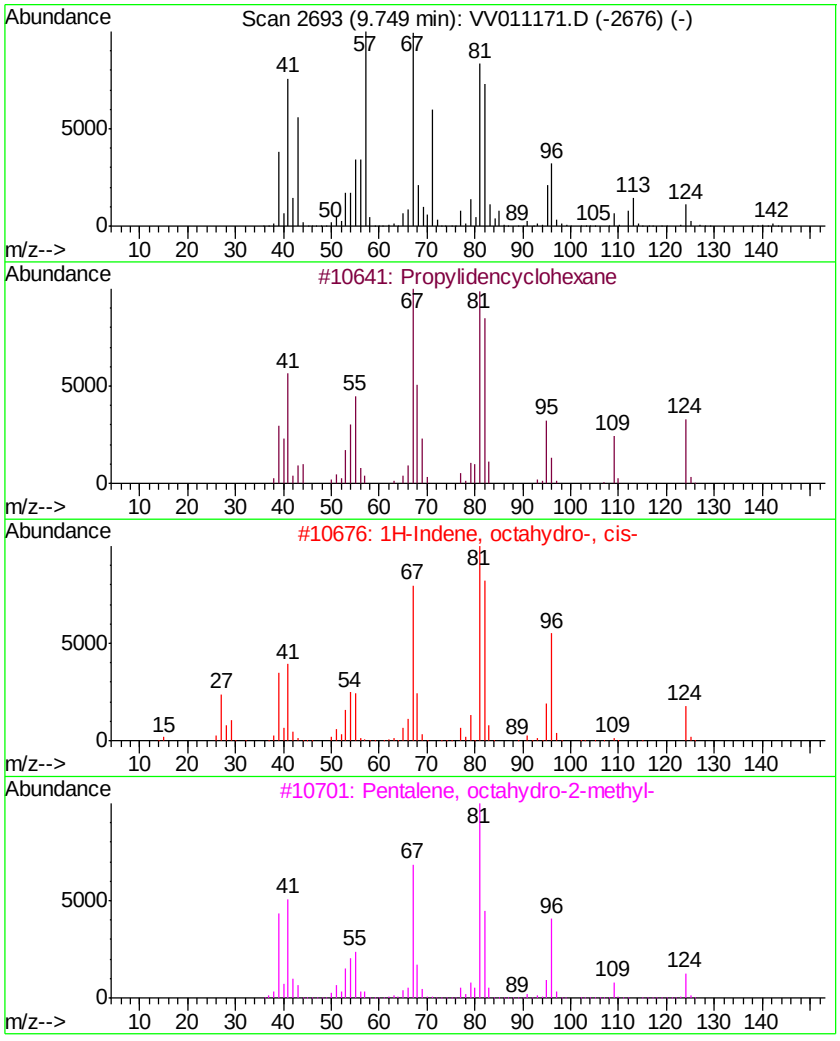
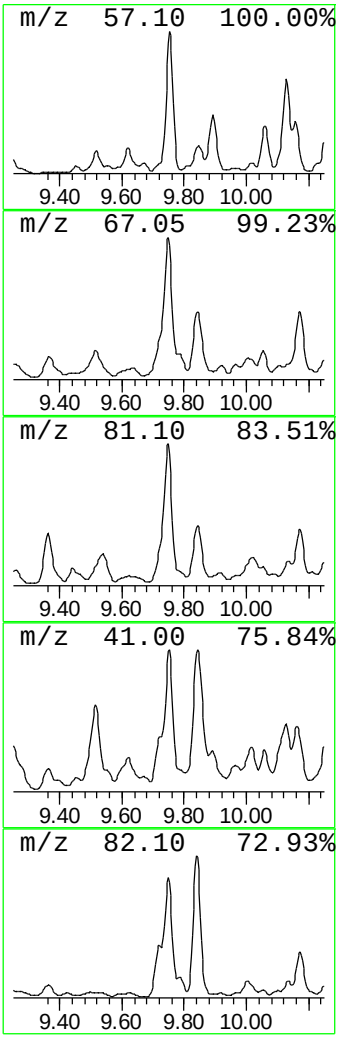
Peak Number 27 Propylidencyclohexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	200.78 ug/L	7772170	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propylidencyclohexane	124	C9H16	002129-93-3	58
2	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	58
3	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	55
4	Bicyclo[4.1.0]heptane	96	C7H12	000286-08-8	46
5	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	46





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Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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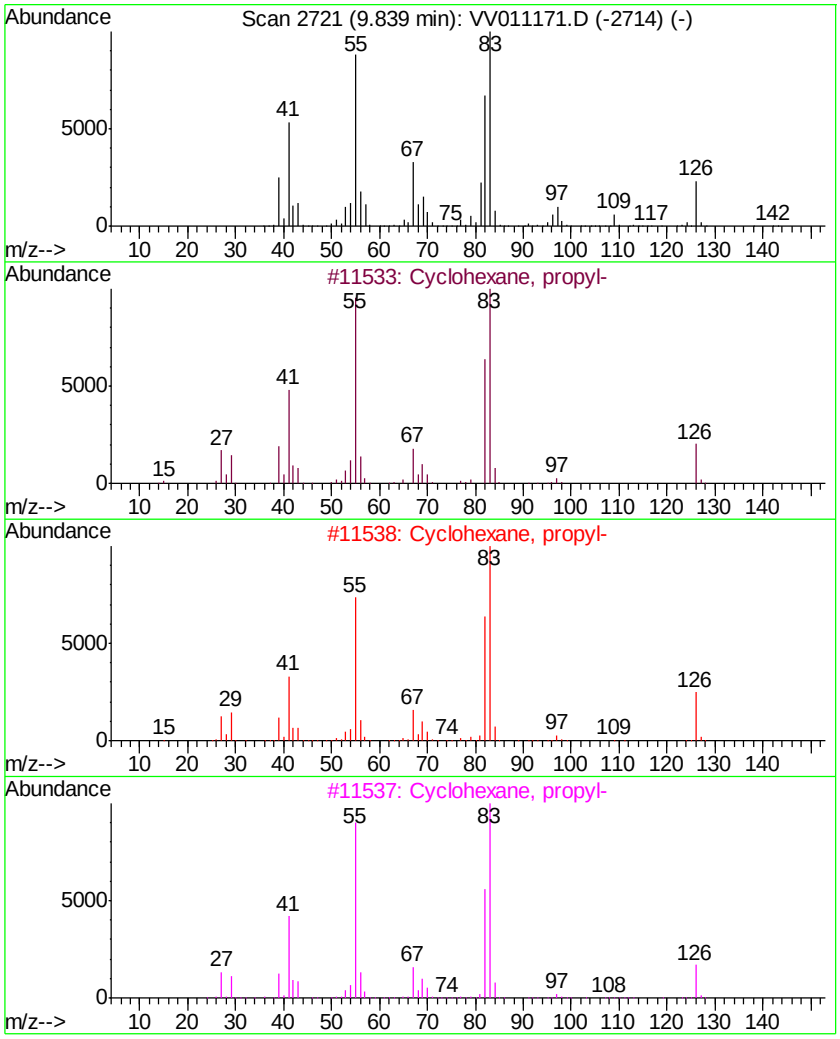
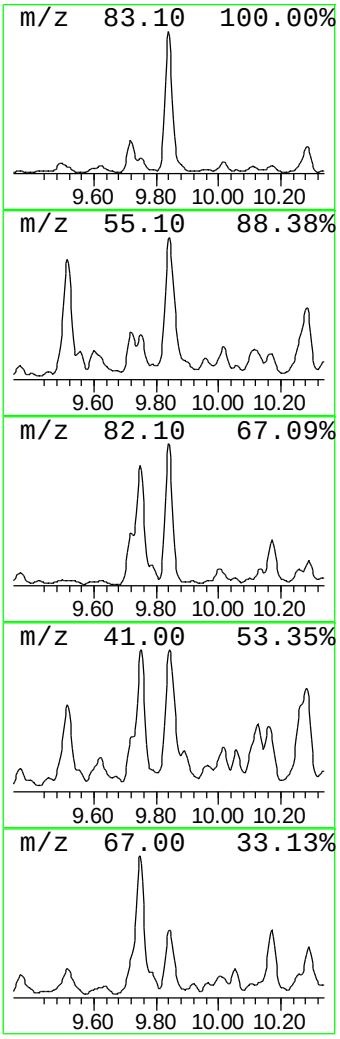
Peak Number 28 (DEL) Alkane: Cyclic9.84 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	133.84 ug/L	5180850	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, propyl-	126	C9H18	001678-92-8	74
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	74
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	72
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	72
5	Cyclohexane, undecyl-	238	C17H34	054105-66-7	64





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

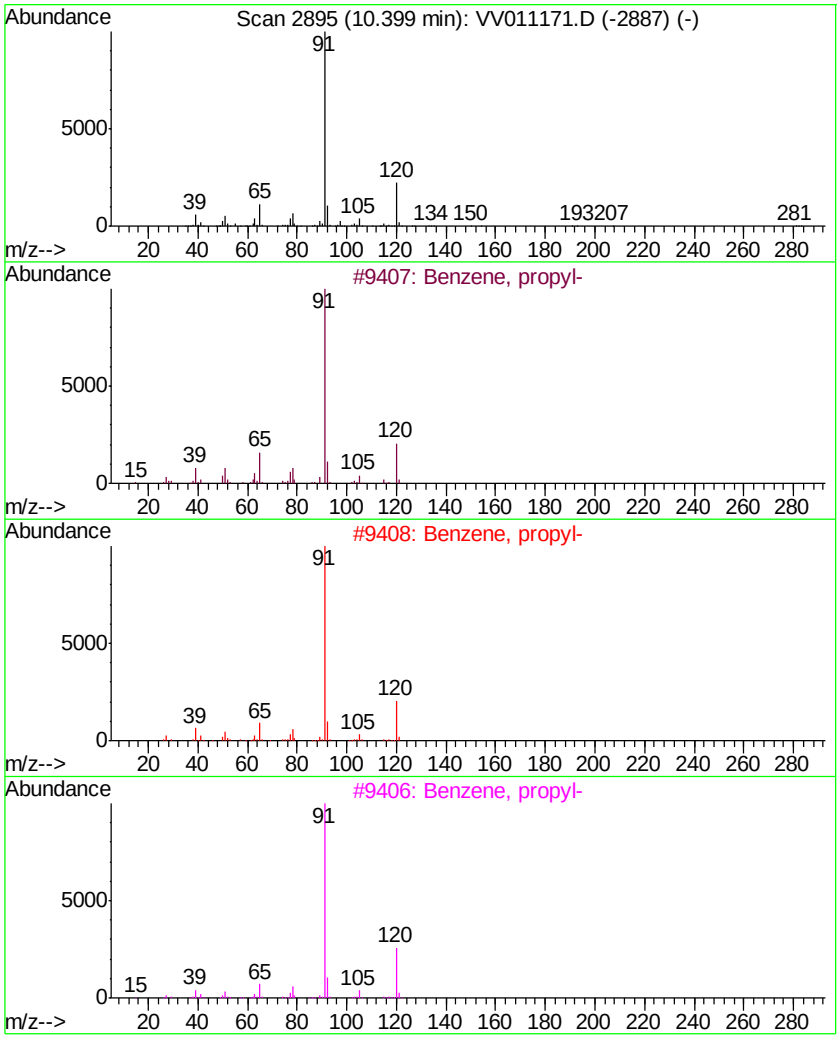
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

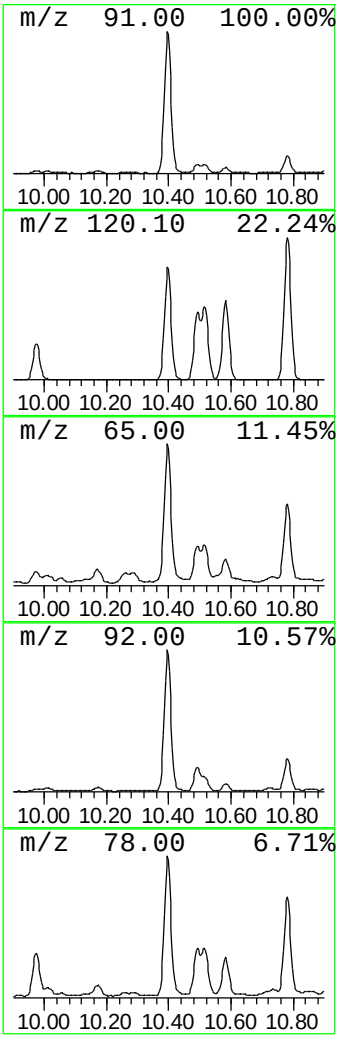
****

Peak Number 29 Benzene, propyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.40	35.21 ug/L	4018080	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	93
2	Benzene, propyl-	120	C9H12	000103-65-1	90
3	Benzene, propyl-	120	C9H12	000103-65-1	87
4	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	78
5	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

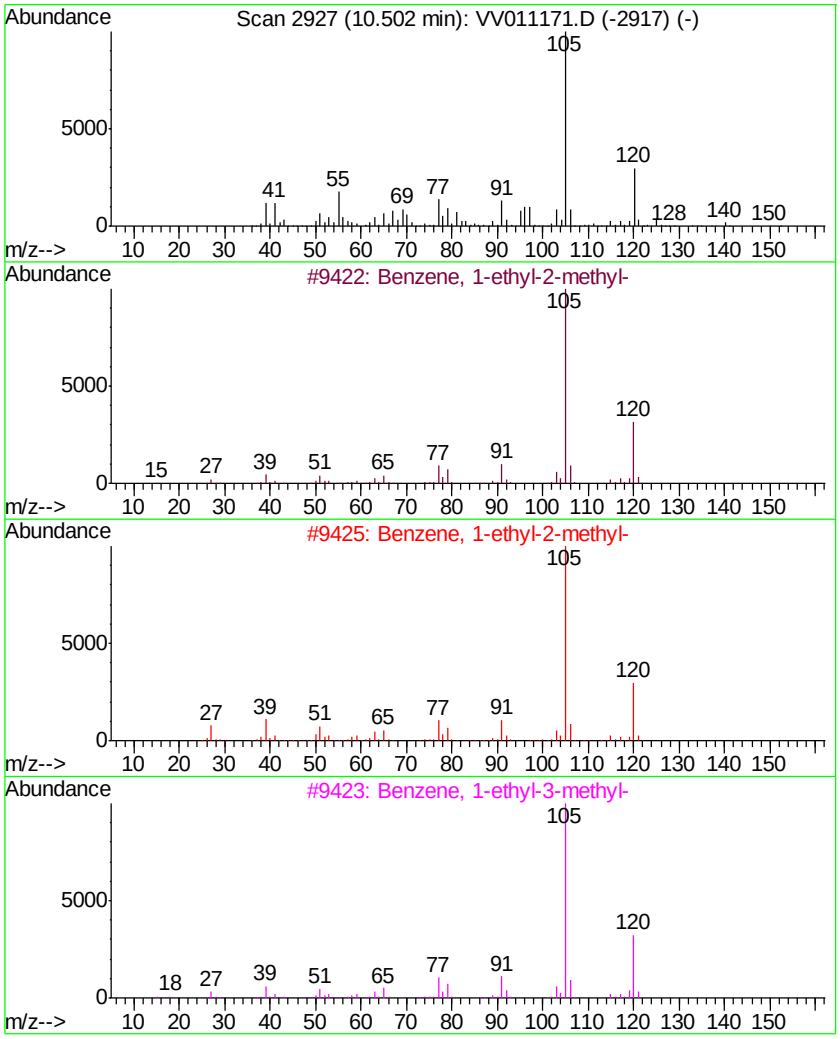
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

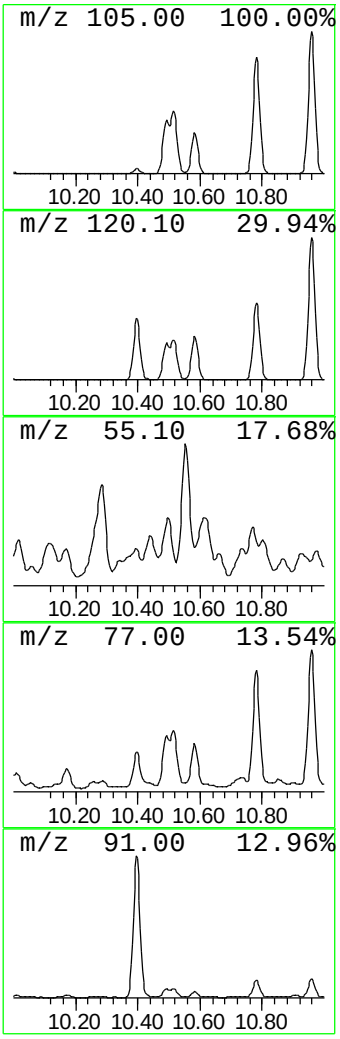
****

Peak Number 30 Benzene, 1-ethyl-2-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.50	28.51 ug/L	3253970	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	92
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	92
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	83
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	64





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

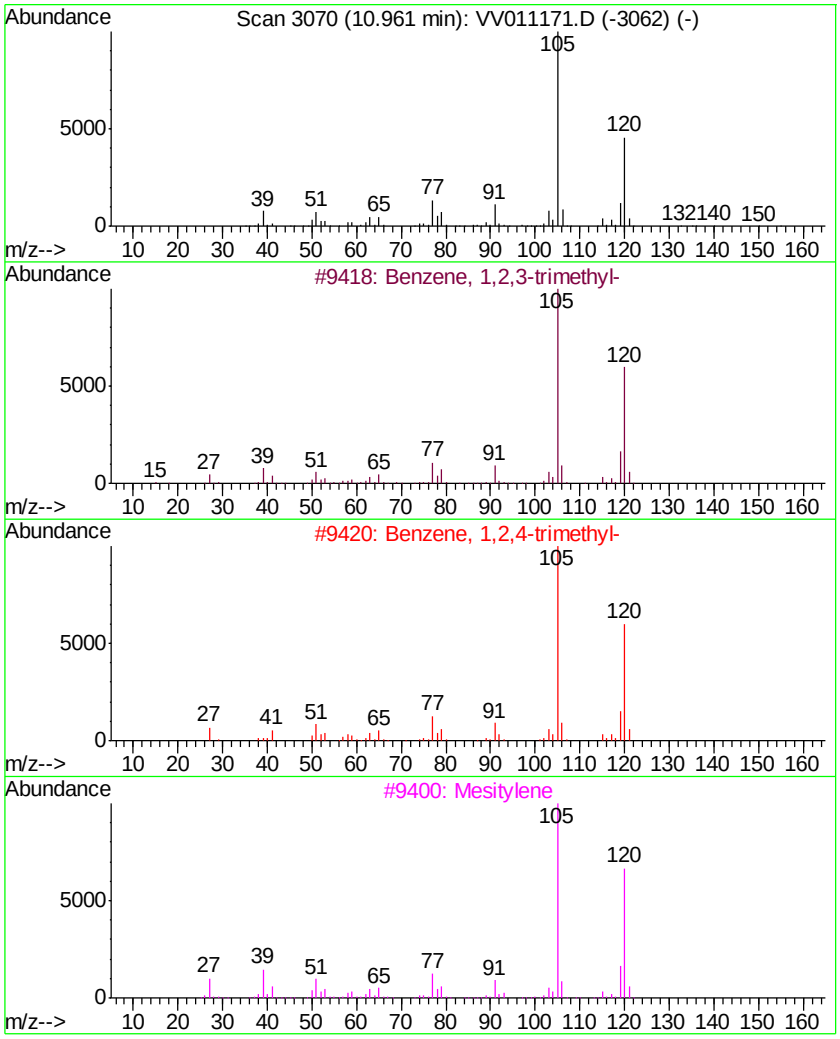
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

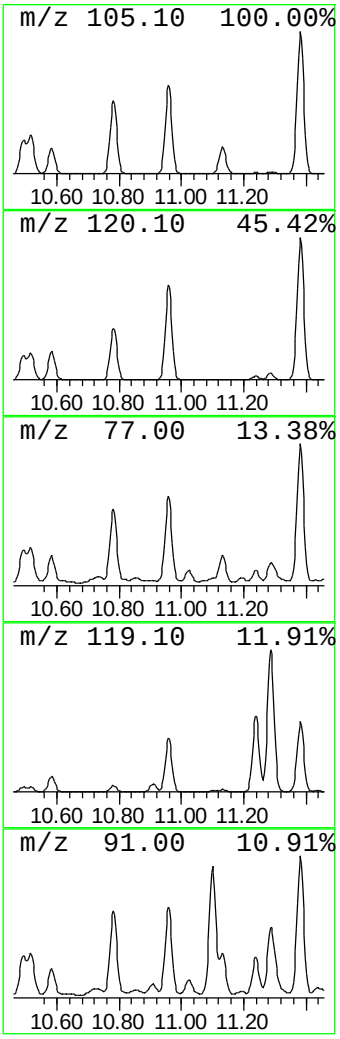
****

Peak Number 32 Benzene, 1,2,3-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	66.38 ug/L	7575750	1,4-Dichlorobenzene-d4	11.29

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





Library Search Compound Report

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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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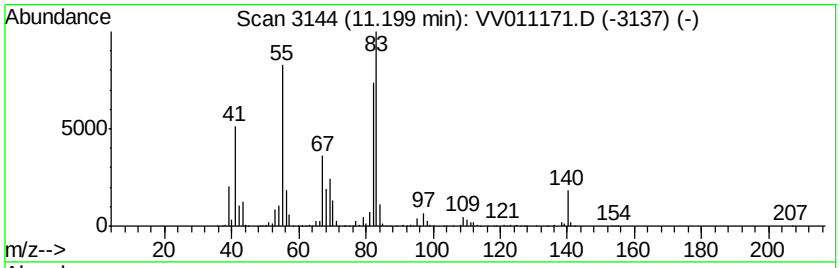
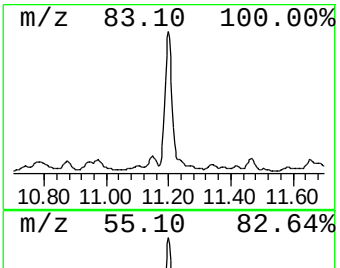
Peak Number 33 (DEL) Alkane: Cyclic11.20 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	19.72 ug/L	2250670	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	87
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	83
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	80
4	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
5	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	72





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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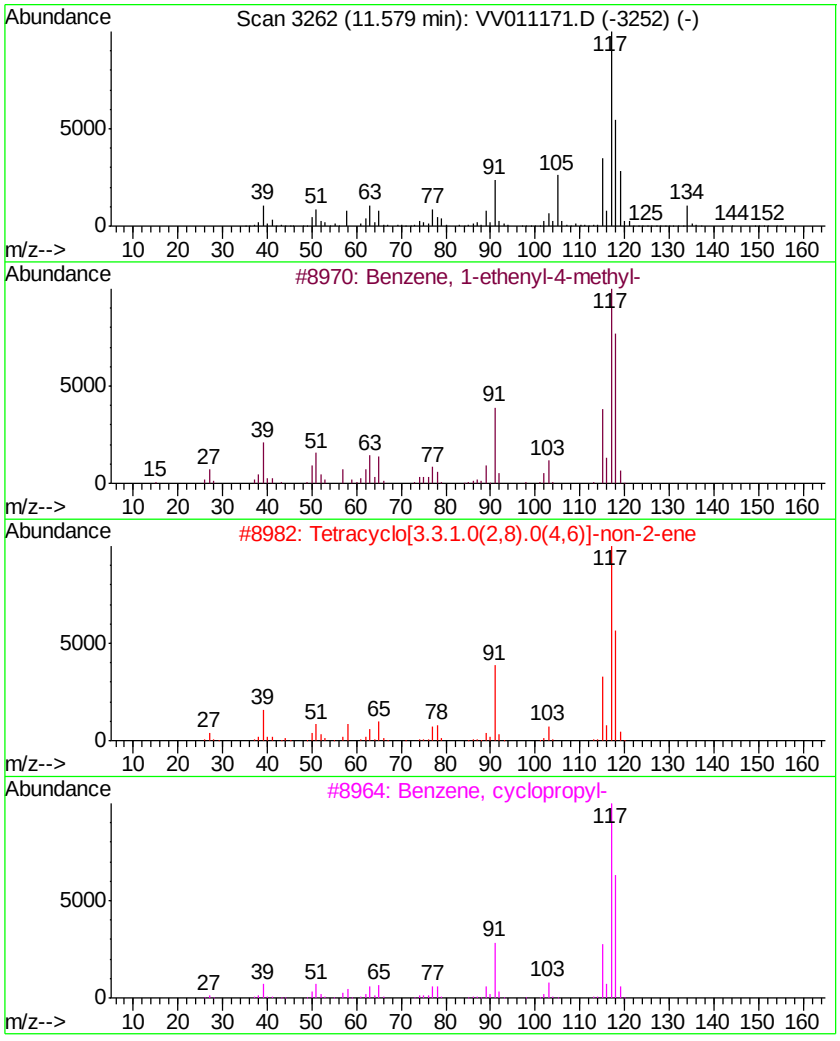
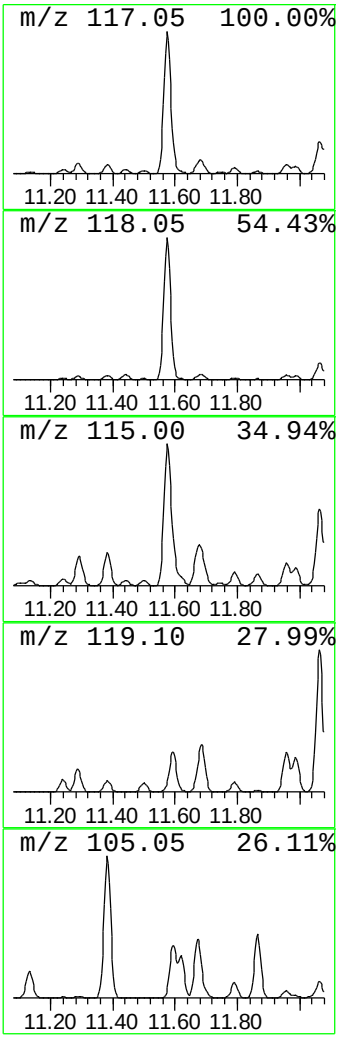
Peak Number 35 Benzene, 1-ethenyl-4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	122.17 ug/L	13942400	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	83
2	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	60
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	60
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	60
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	60





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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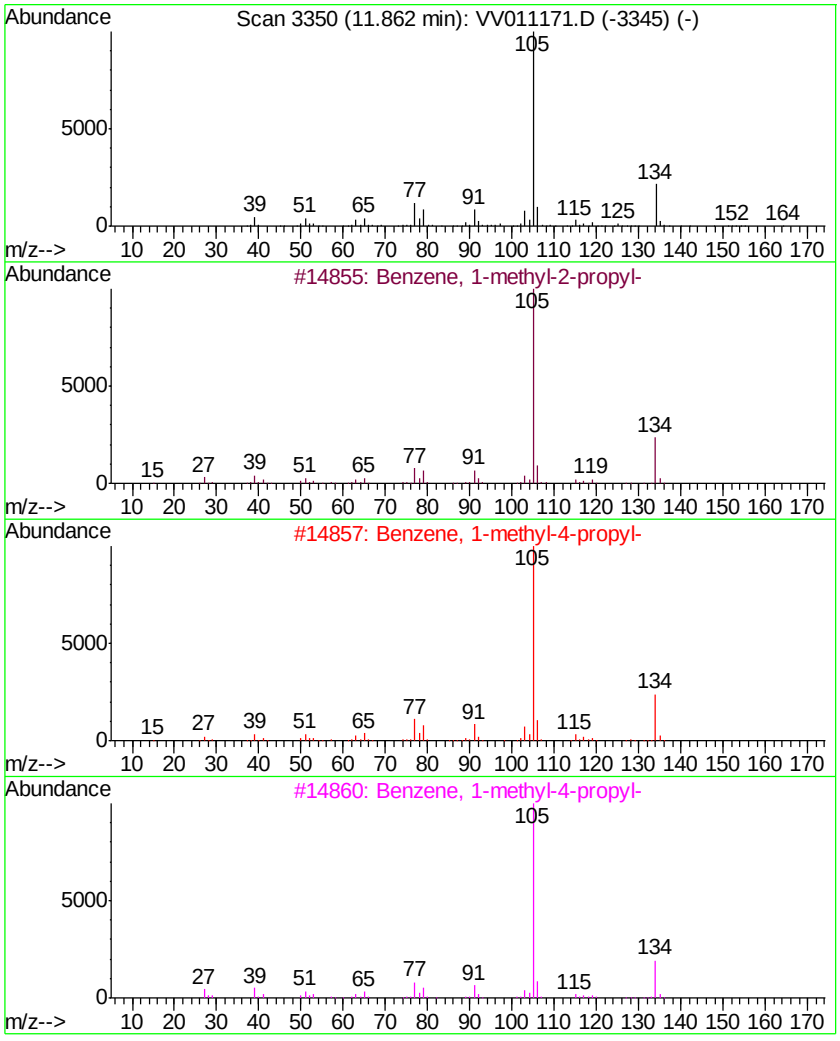
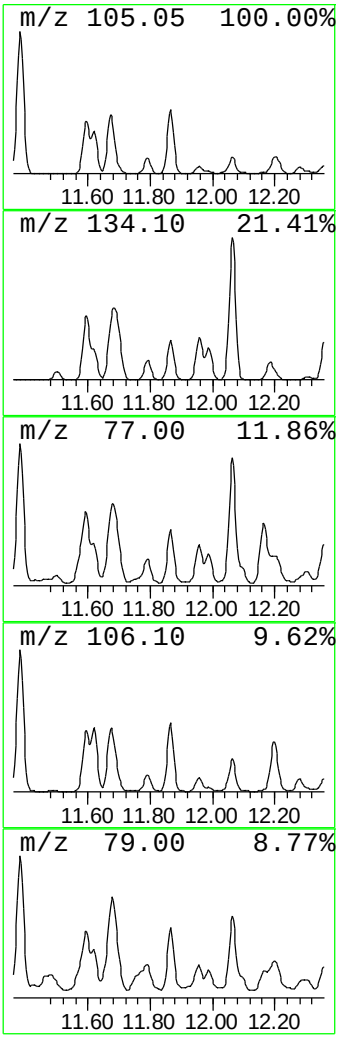
Peak Number 36 Benzene, 1-methyl-2-propyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	35.32 ug/L	4031360	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	94
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	93
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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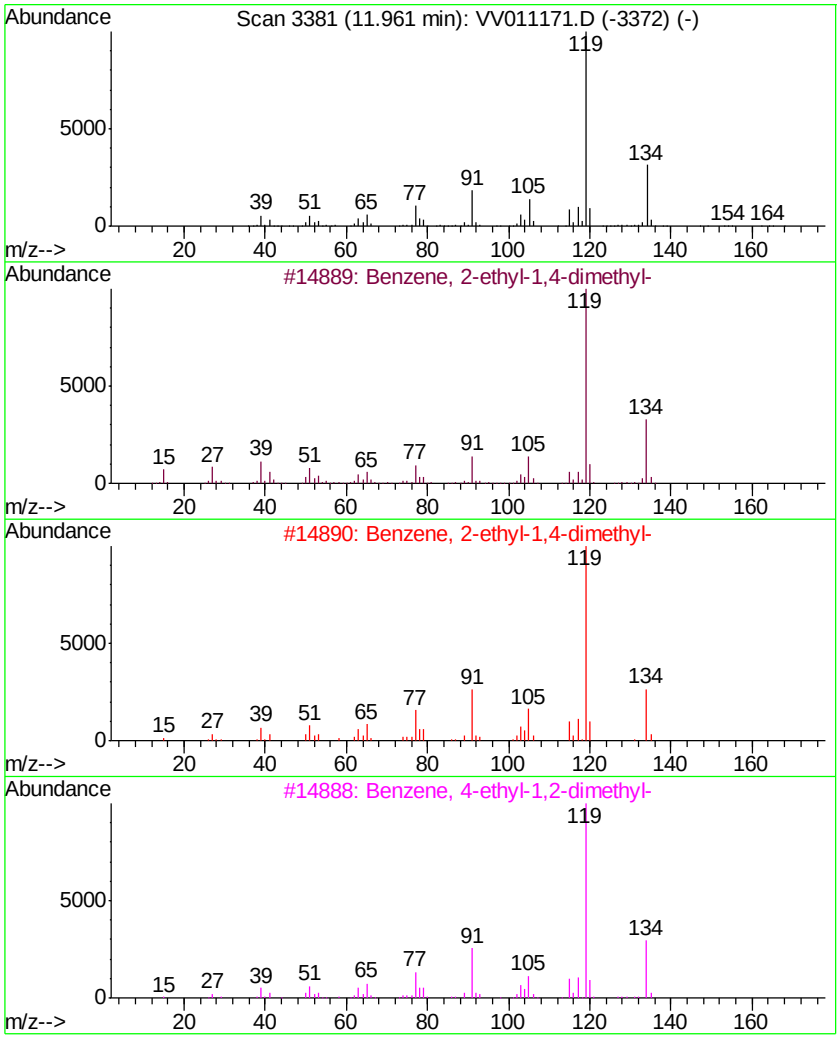
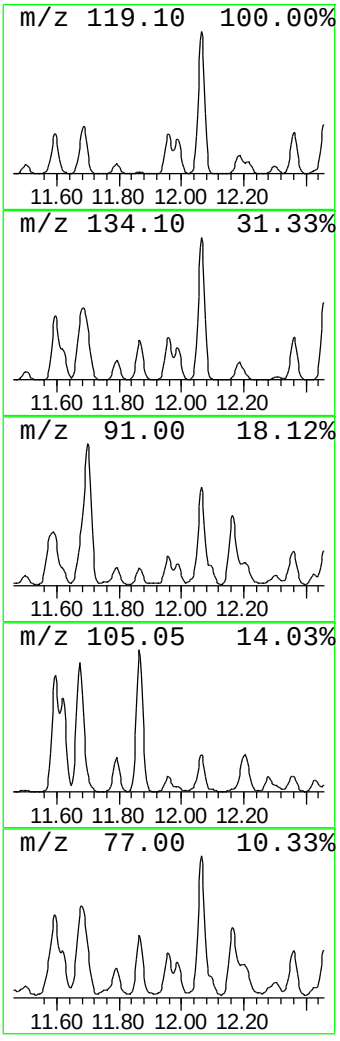
Peak Number 37 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	33.16 ug/L	3784370	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
5	o-Cymene	134	C10H14	000527-84-4	95





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

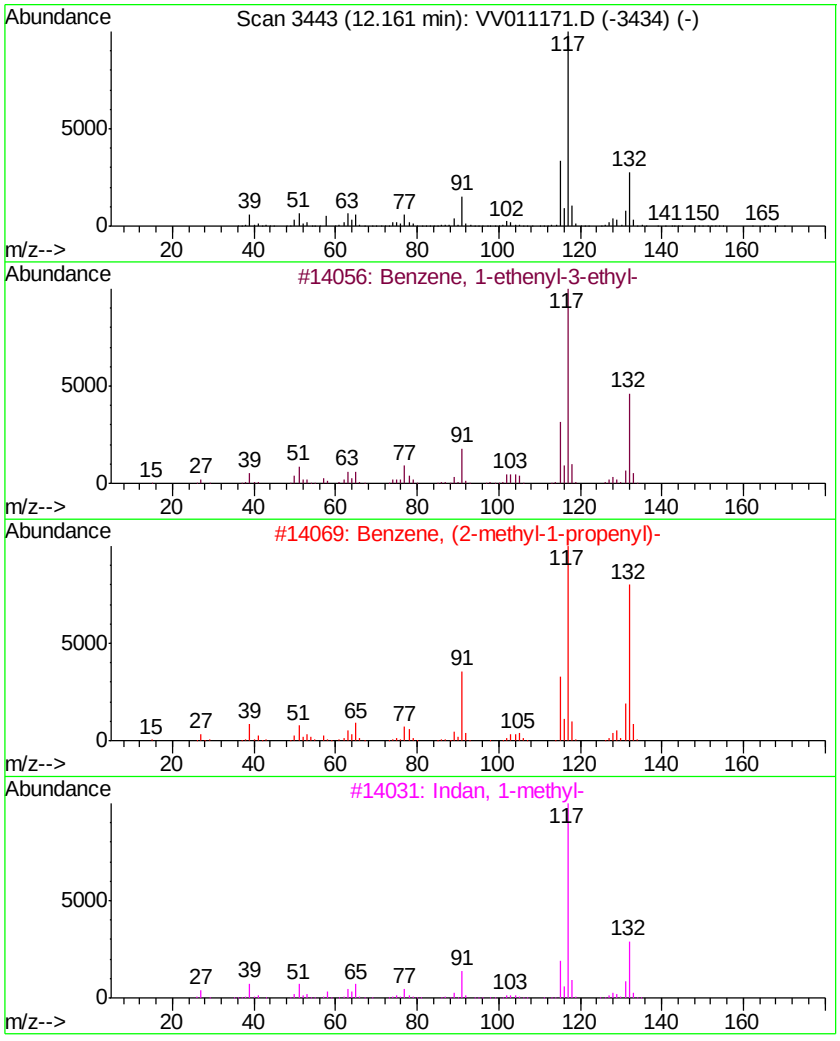
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

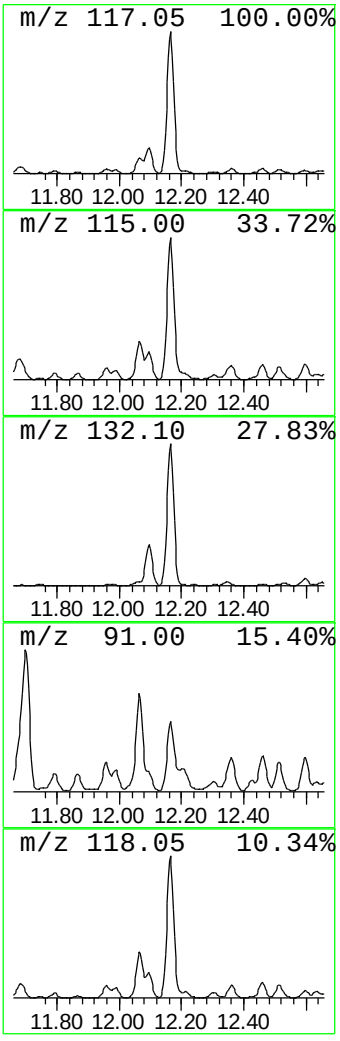
****

Peak Number 39 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	128.97 ug/L	14719100	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	91
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	87
5	1-Phenyl-1-butene	132	C10H12	000824-90-8	87





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Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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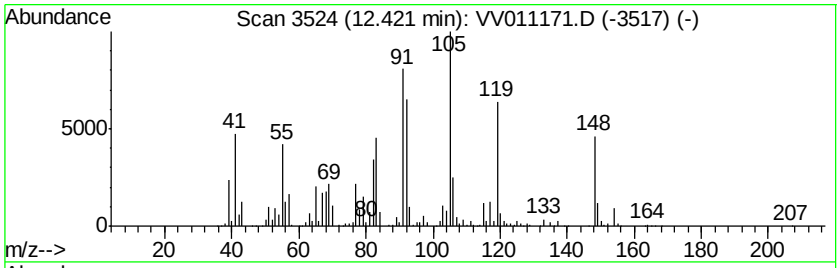
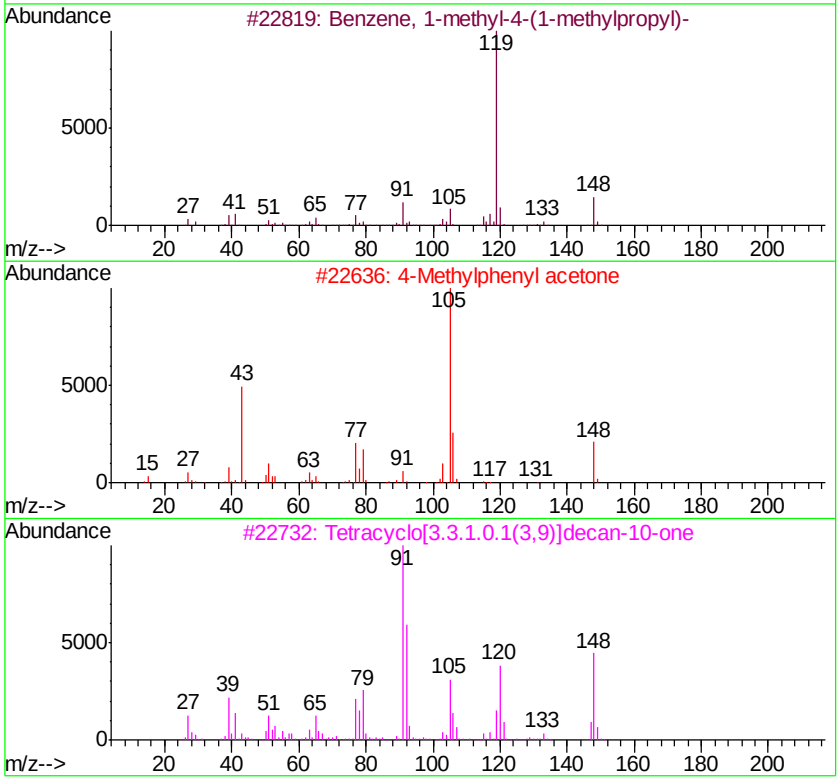
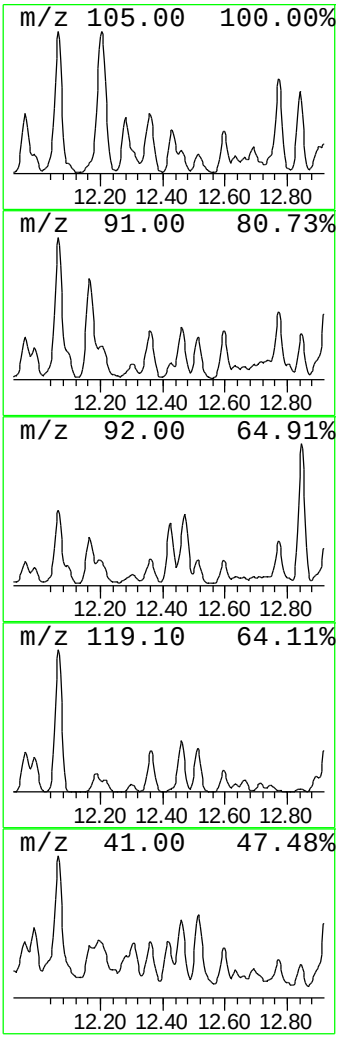
Peak Number 41 unknown-01 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	9.08 ug/L	1036590	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	43
2	4-Methylphenyl acetone	148	C10H12O	002096-86-8	43
3	Tetracyclo[3.3.1.0.1(3,9)]decan-...	148	C10H12O	016492-06-1	43
4	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	38
5	Benzene, pentyl-	148	C11H16	000538-68-1	38







Library Search Compound Report

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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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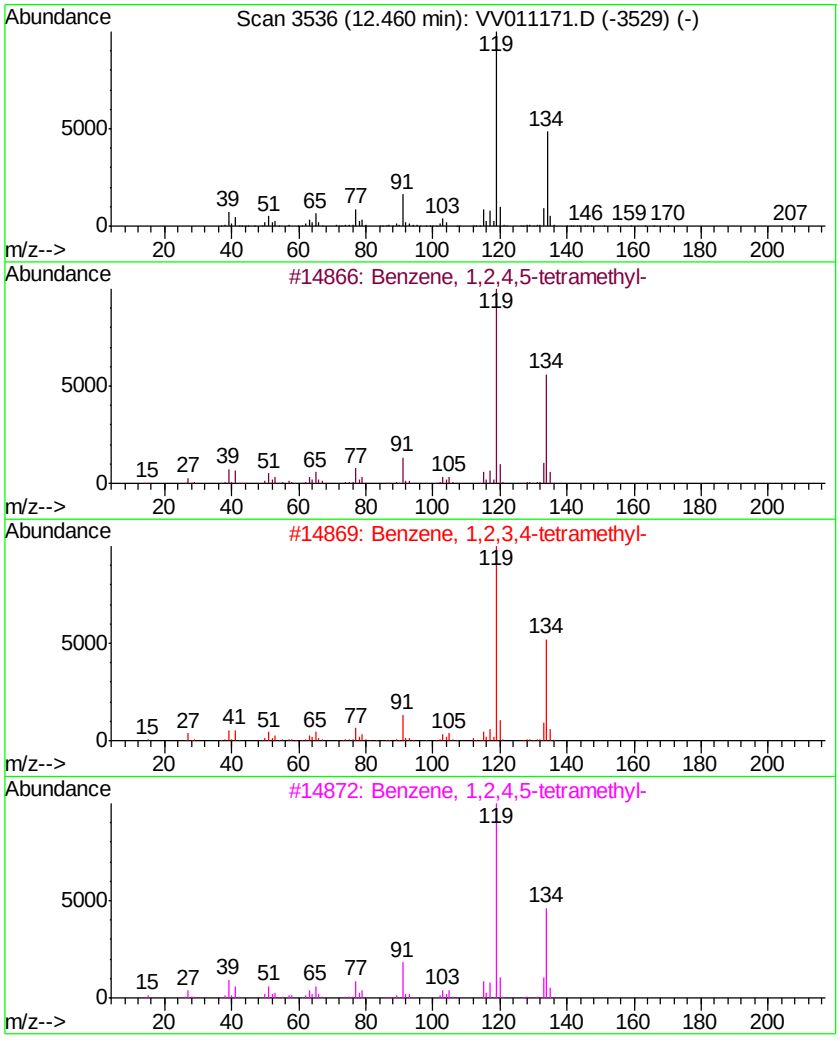
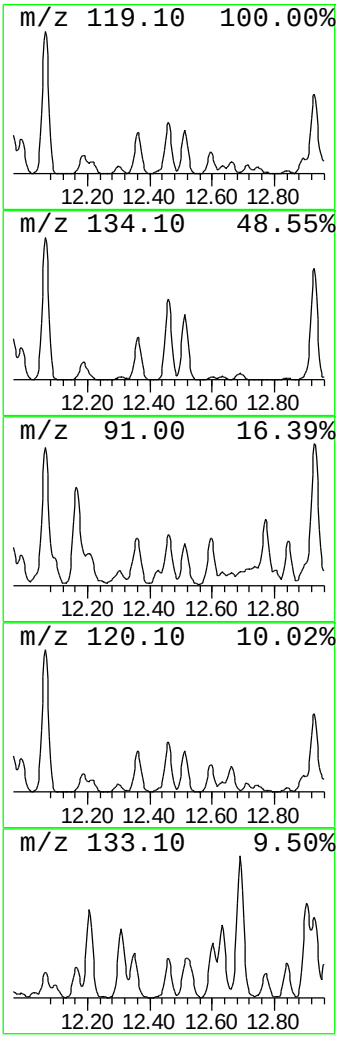
Peak Number 42 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	43.64 ug/L	4980690	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

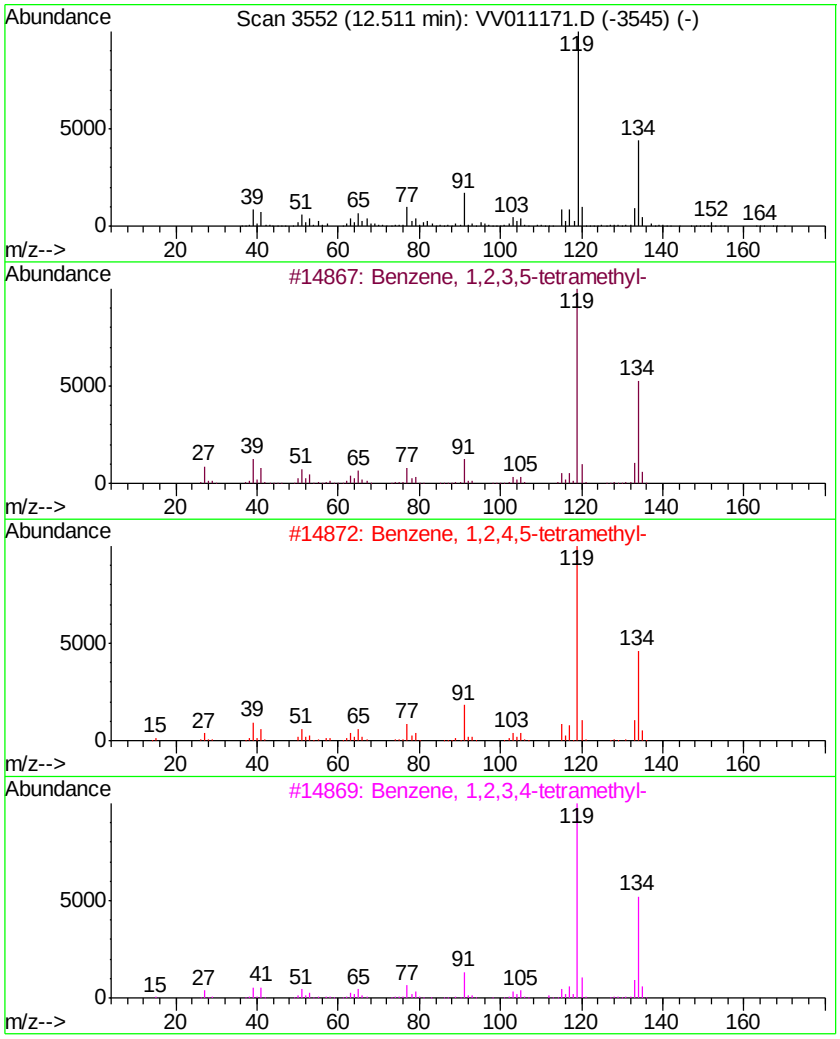
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

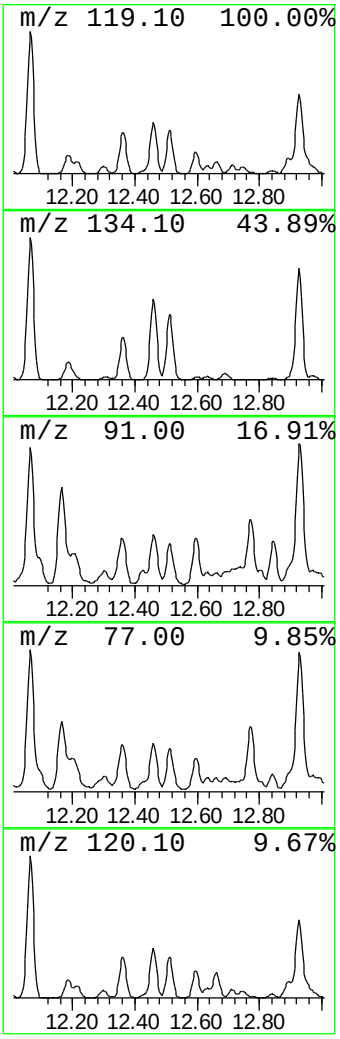
****

Peak Number 43 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	46.37 ug/L	5291670	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
5	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

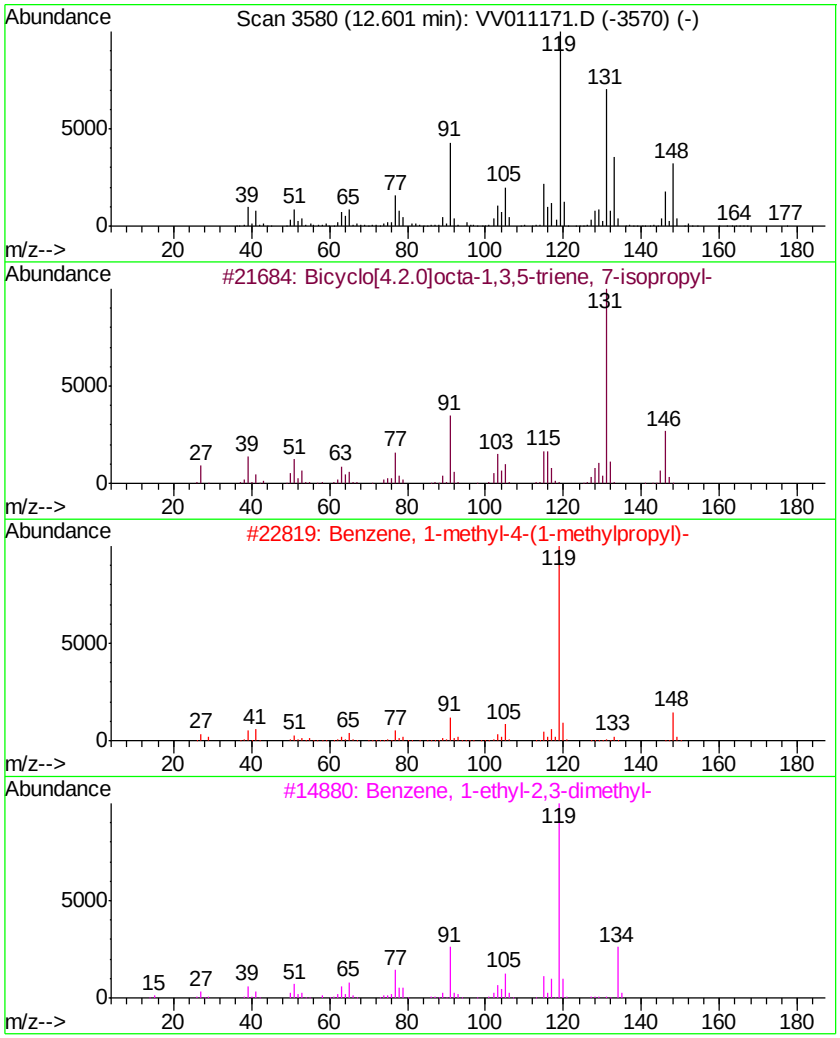
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

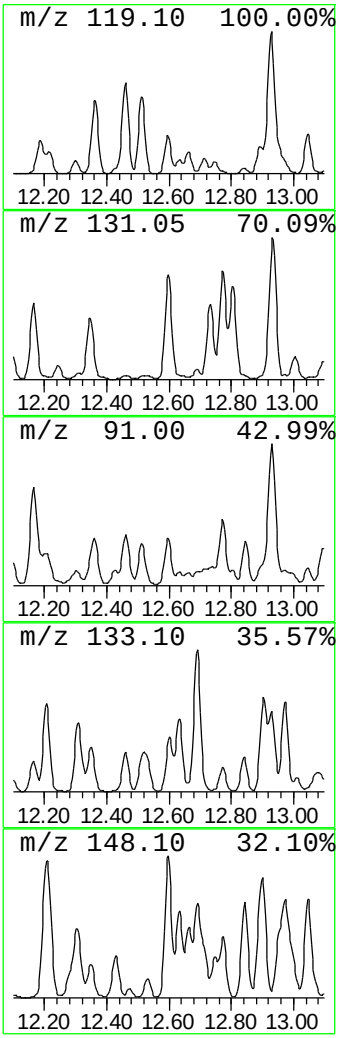
****

Peak Number 44 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	34.79 ug/L	3970140	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	60
2	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	60
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	55
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	55
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	47





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

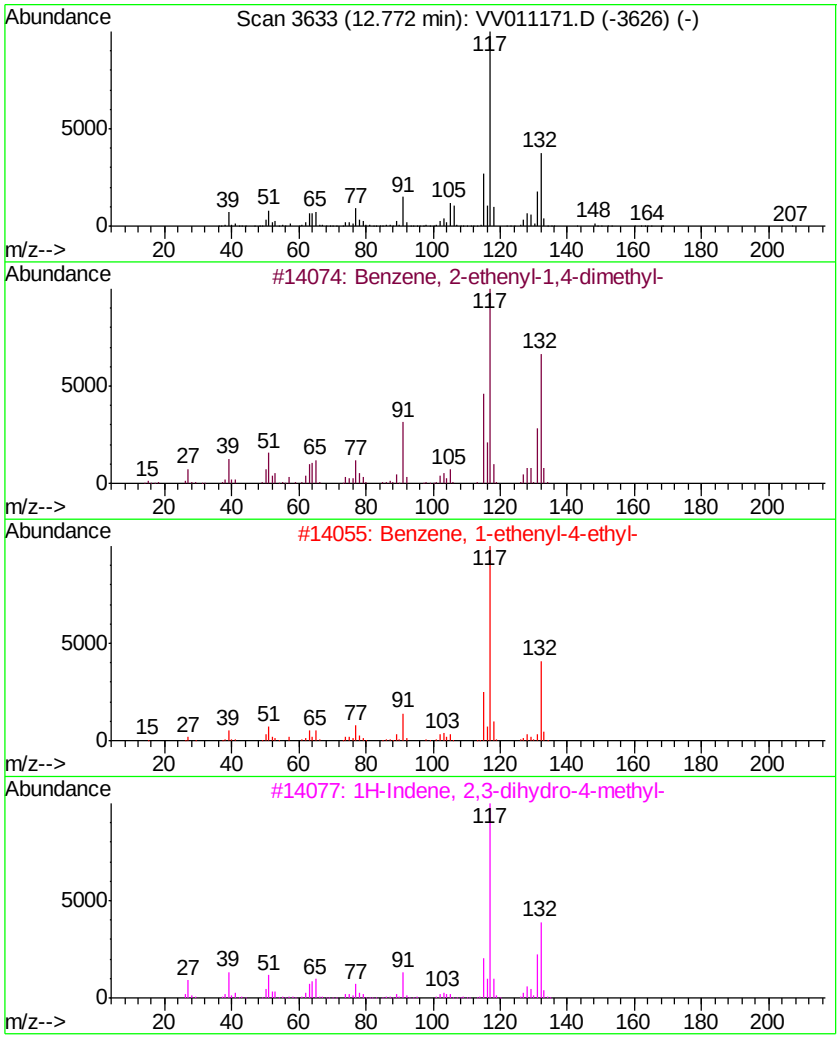
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

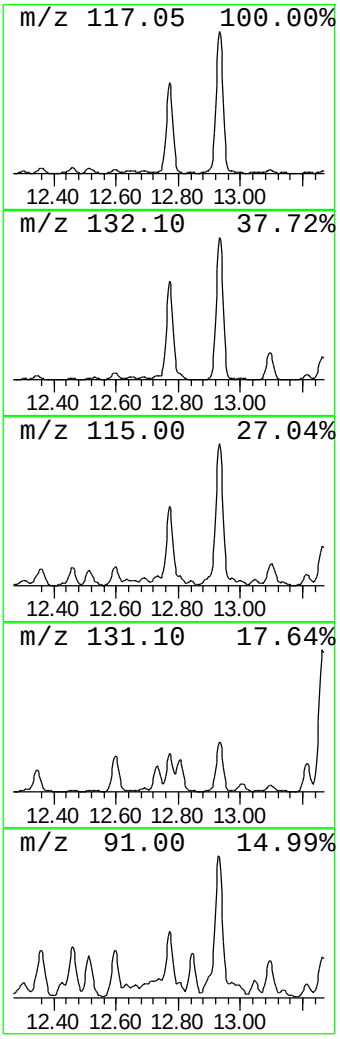
****

Peak Number 45 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	59.04 ug/L	6737740	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
4	Indan, 1-methyl-	132	C10H12	000767-58-8	93
5	1-Phenyl-1-butene	132	C10H12	000824-90-8	93





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

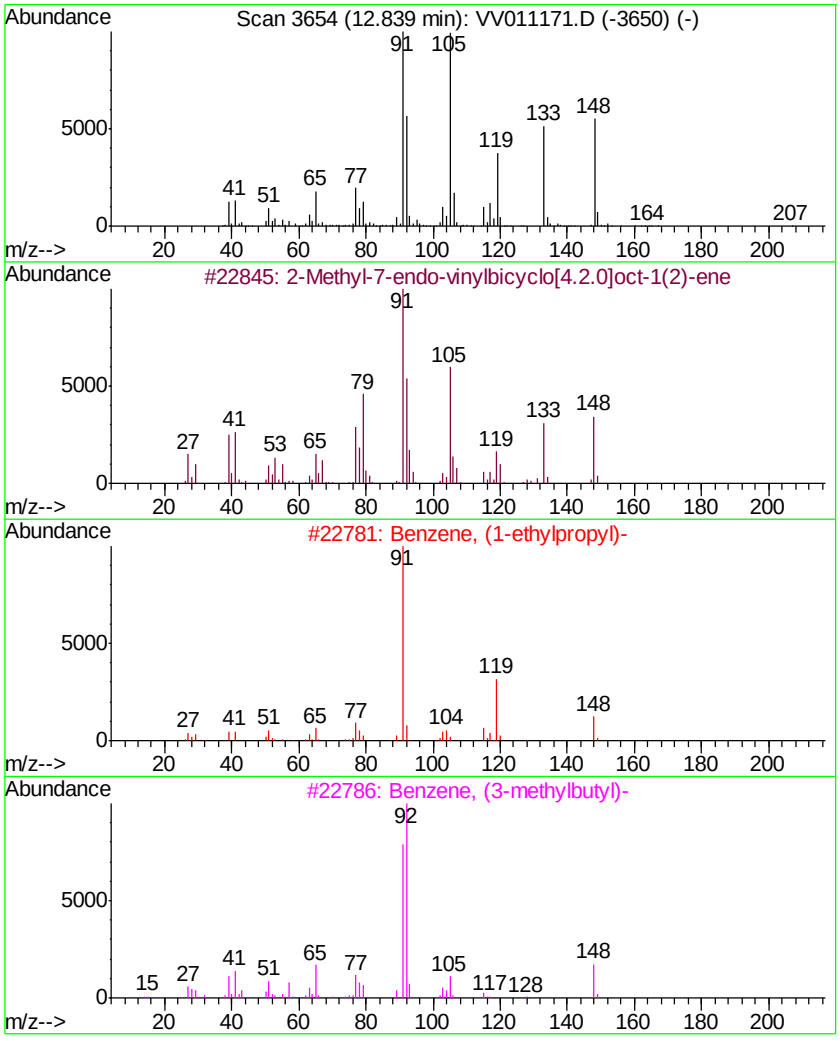
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

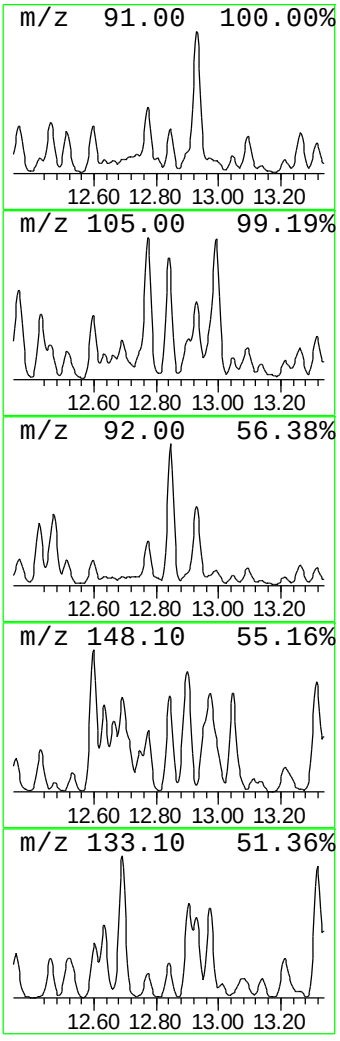
****

Peak Number 46 2-Methyl-7-endo-vinylbicycl... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.84	12.50 ug/L	1426430	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-7-endo-vinylbicyclo[4.2...	148	C11H16	1000200-99-1	91
2	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	46
3	Benzene, (3-methylbutyl)-	148	C11H16	002049-94-7	41
4	Benzofuran, 5-methoxy-	148	C9H8O2	013391-28-1	38
5	Benzene, (2-methylbutyl)-	148	C11H16	003968-85-2	38





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

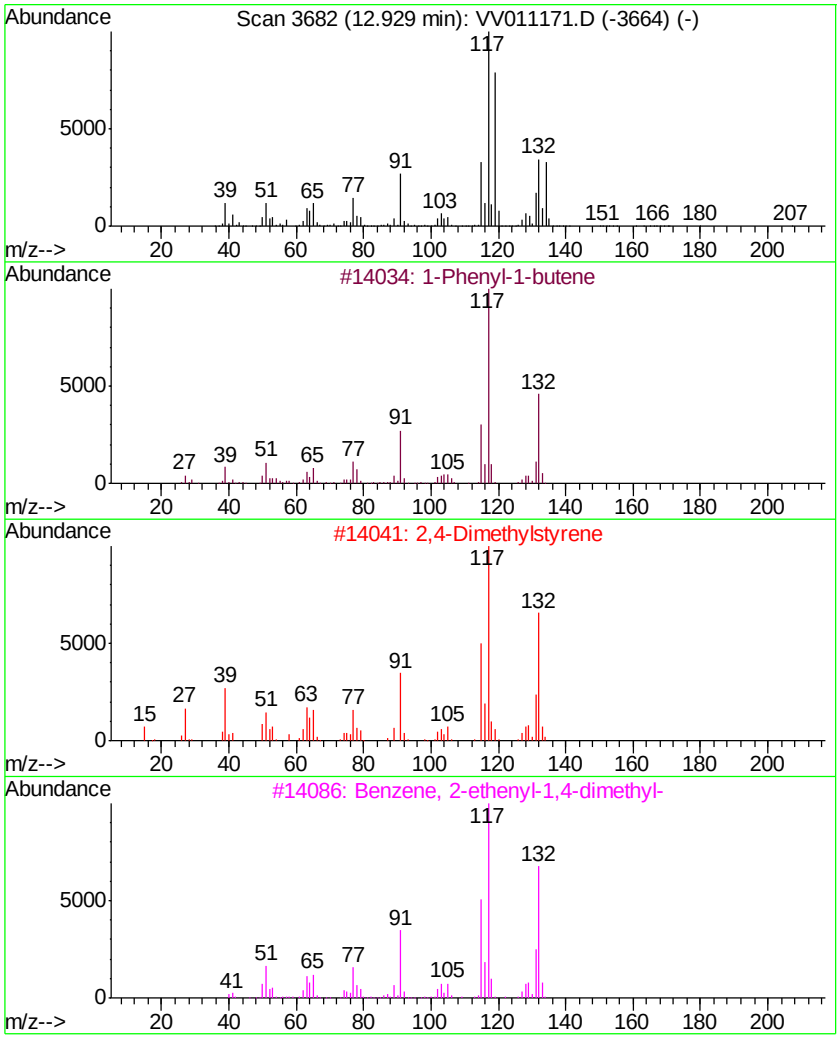
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

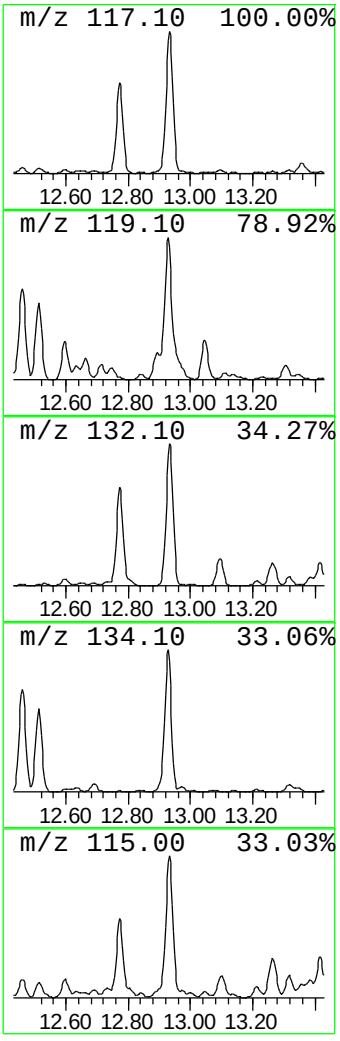
****

Peak Number 47 1-Phenyl-1-butene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	194.77 ug/L	22228700	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	96
2	2,4-Dimethylstyrene	132	C10H12	002234-20-0	91
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	91
4	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	90
5	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

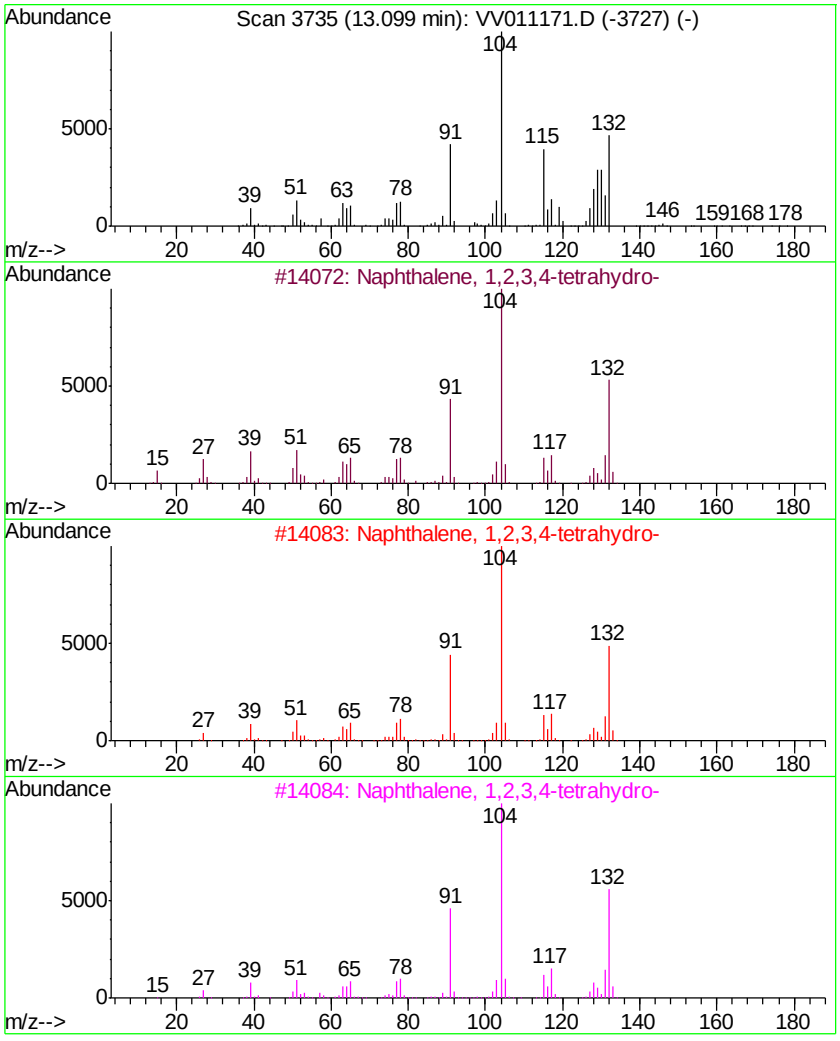
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

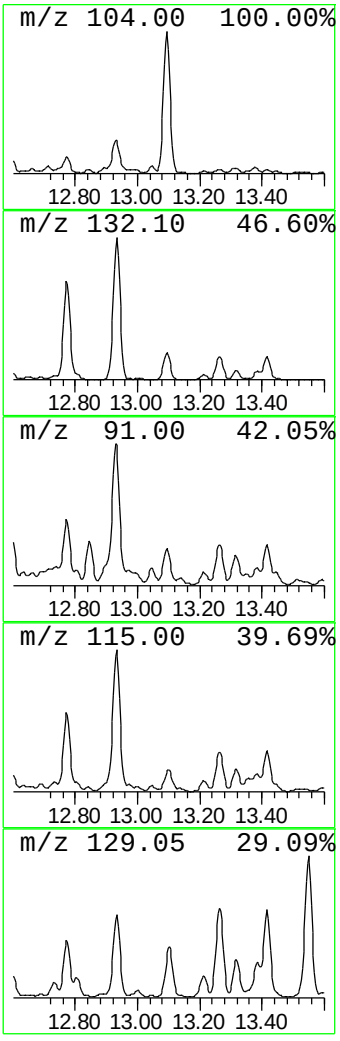
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 49 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	20.32 ug/L	2319030	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	86
5	1H-Inden-1-one, 2,3-dihydro-	132	C9H8O	000083-33-0	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

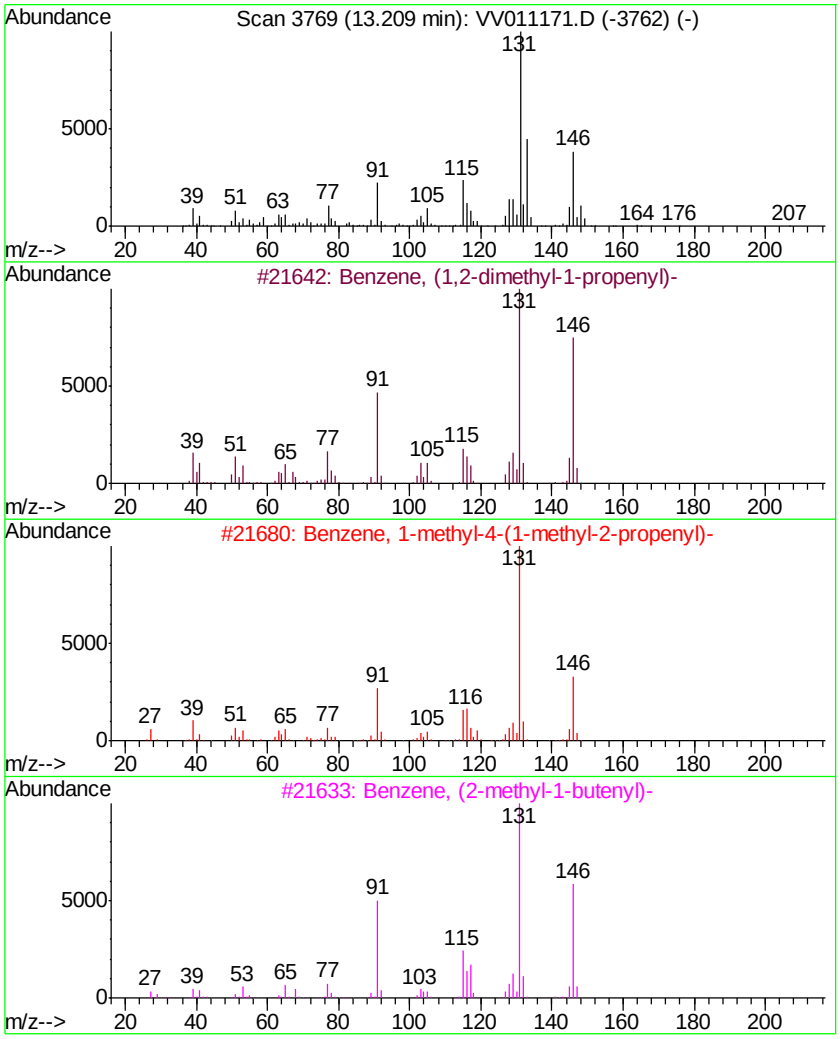
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

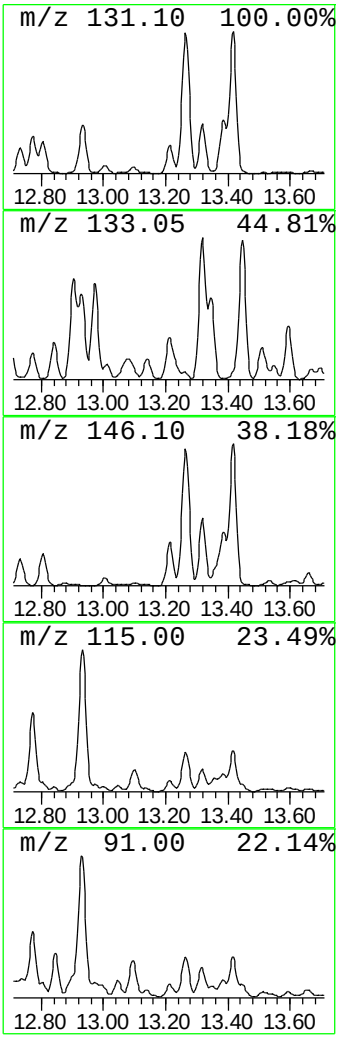
****

Peak Number 50 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	14.93 ug/L	1704500	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	95
2	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	89
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	89
4	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	89
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	86





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

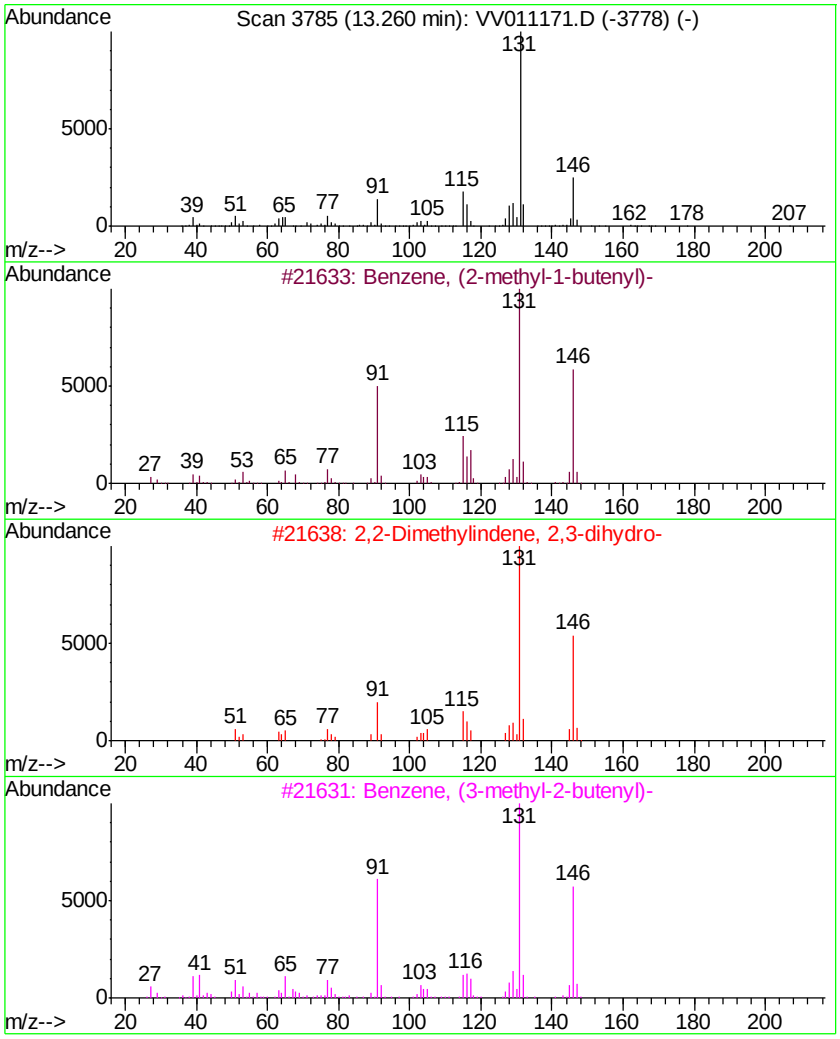
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

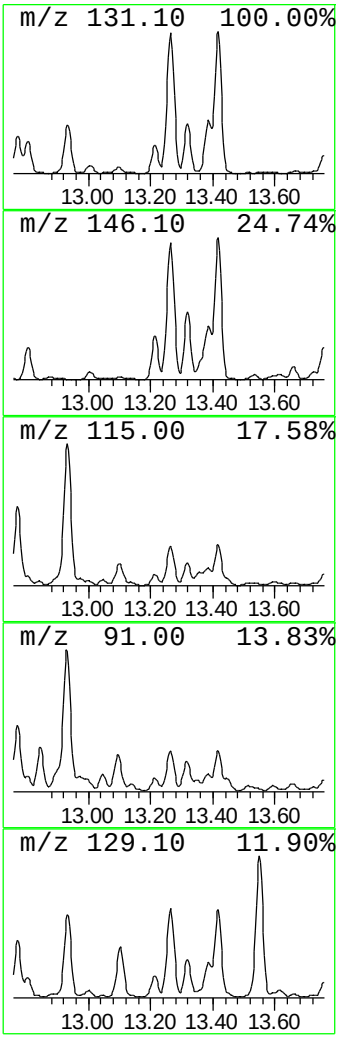
****

Peak Number 51 Benzene, (2-methyl-1-butenyl)- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	42.90 ug/L	4896260	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	94
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	91
4	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	91
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

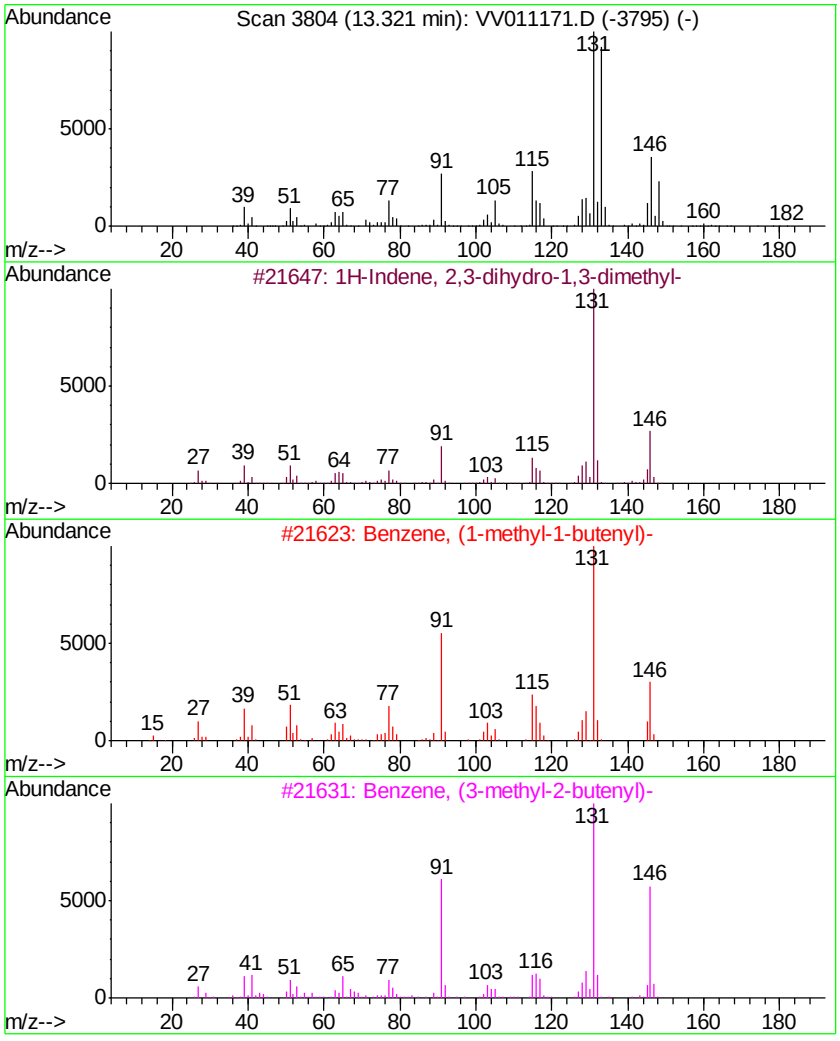
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

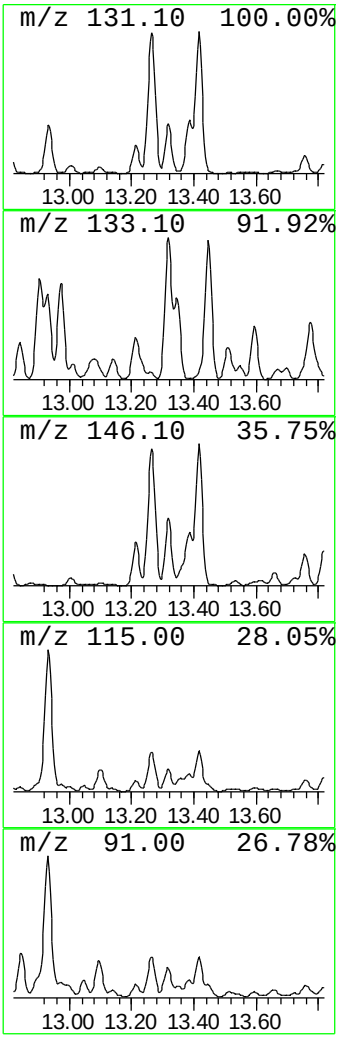
****

Peak Number 52 1H-Indene, 2,3-dihydro-1,3-... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	28.21 ug/L	3219360	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	90
2	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	89
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	70
4	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	70
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	64





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

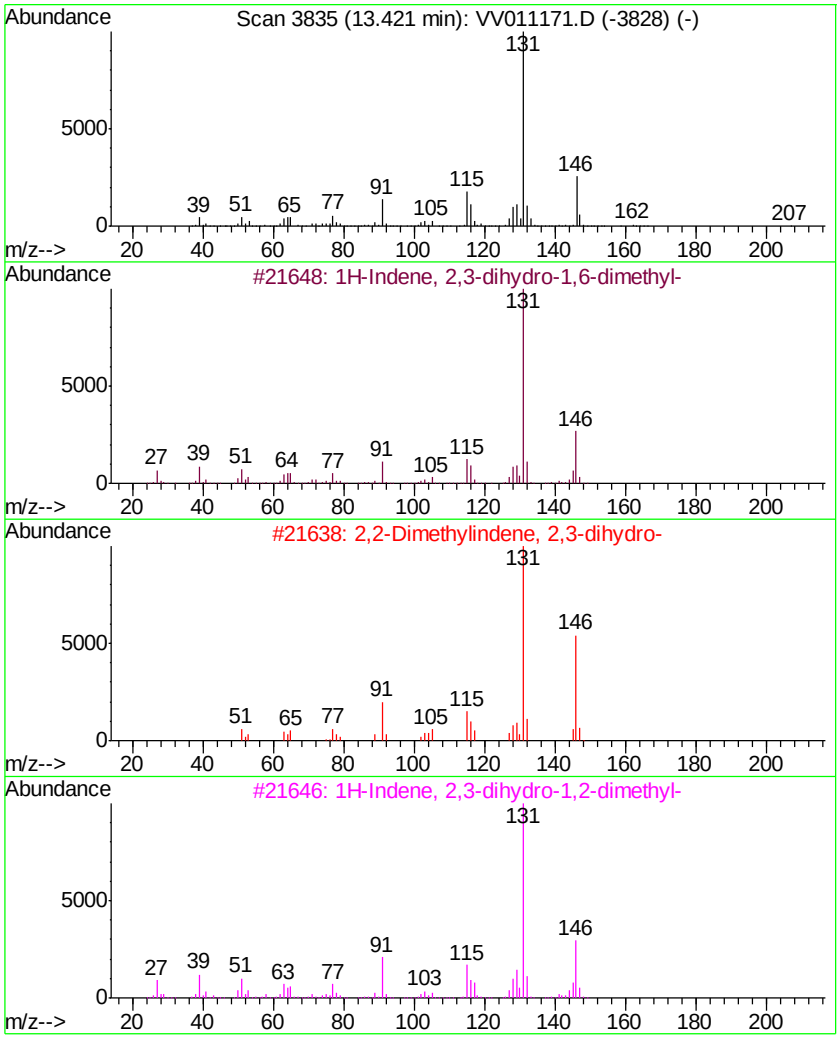
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

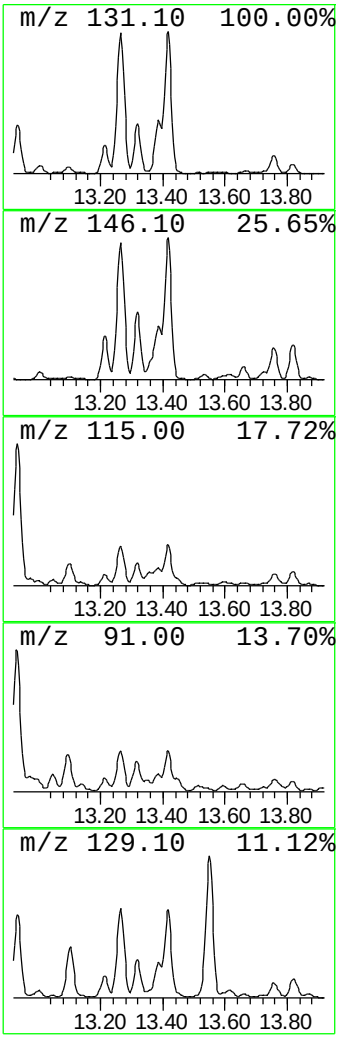
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 53 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.42	27.24 ug/L	3109350	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	94
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
3	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	91
4	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	91
5	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	91





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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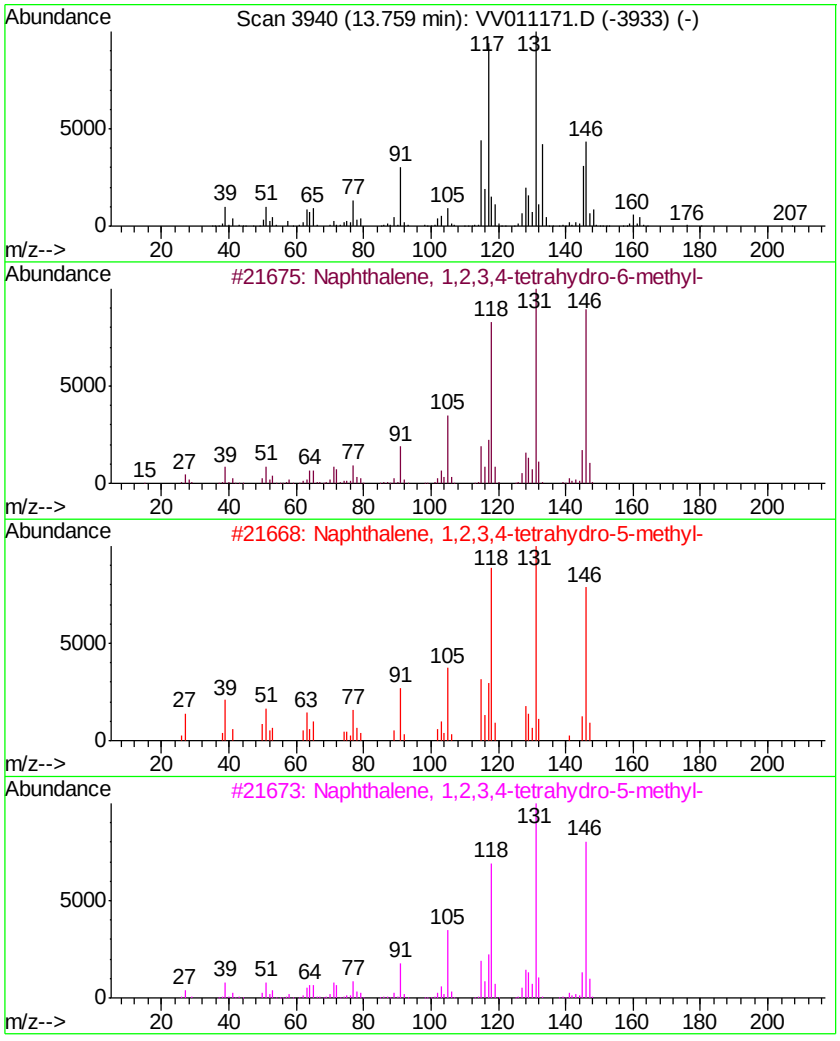
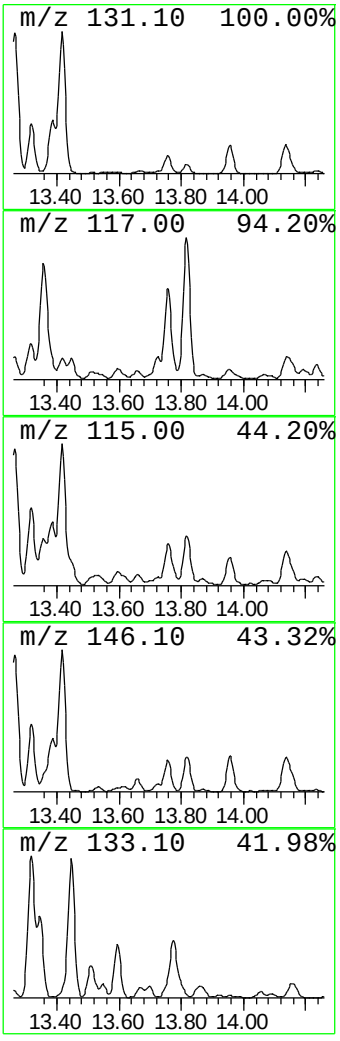
Peak Number 55 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	12.66 ug/L	1444830	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	83
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	64
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	62
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	62
5	Benzene, (1-ethyl-1-propenyl)-	146	C11H14	004701-36-4	55





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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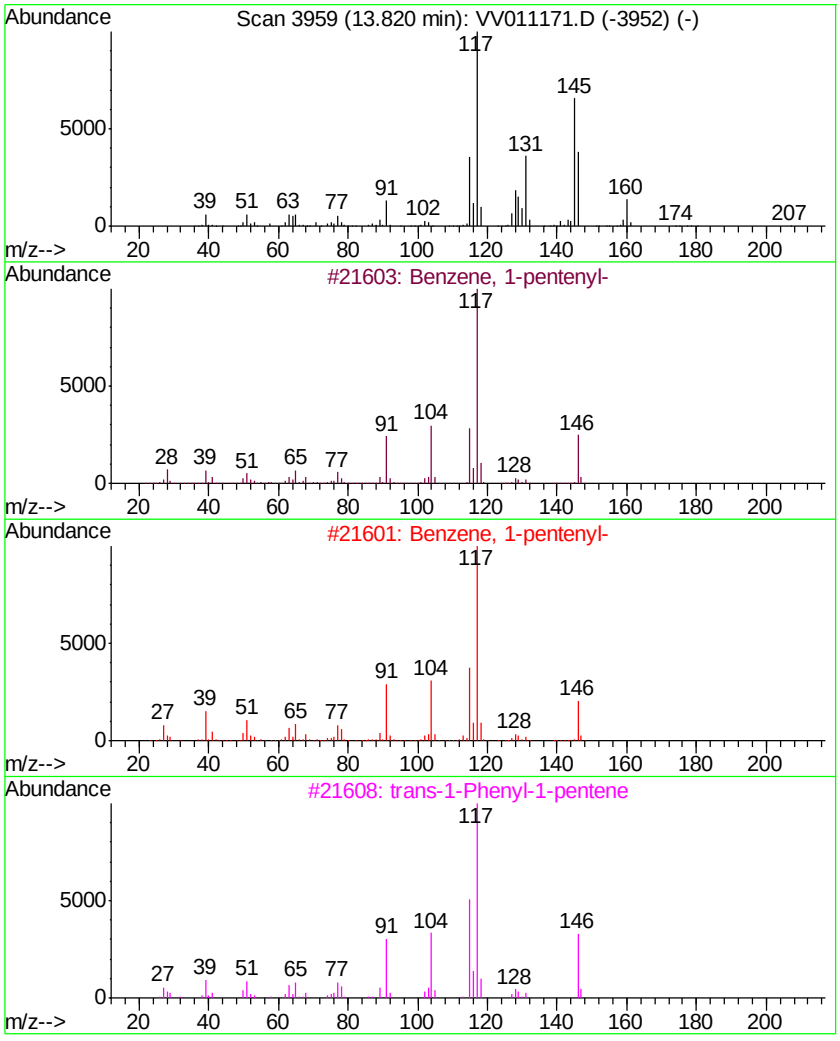
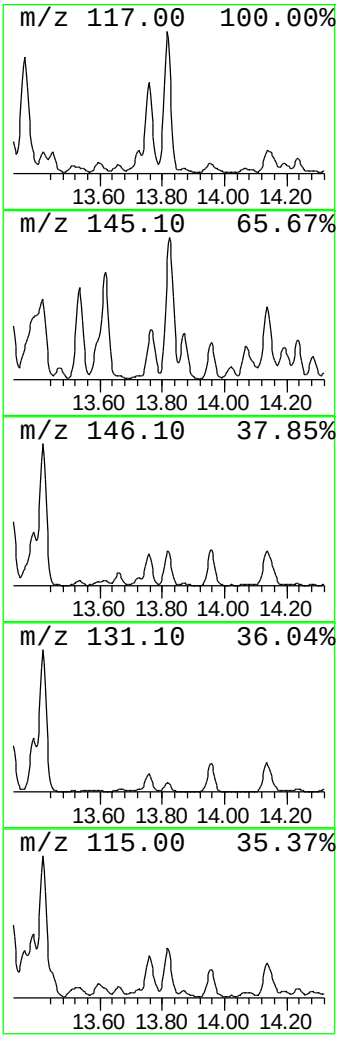
Peak Number 56 Benzene, 1-pentenyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	12.69 ug/L	1447920	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-pentenyl-	146	C11H14	000826-18-6	52
2	Benzene, 1-pentenyl-	146	C11H14	000826-18-6	50
3	trans-1-Phenyl-1-pentene	146	C11H14	016002-93-0	50
4	Bicyclo[4.2.1]nona-2,4,7-triene,...	146	C11H14	1000164-42-6	50
5	2(1H)-Quinolinone	145	C9H7NO	000059-31-4	49





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Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

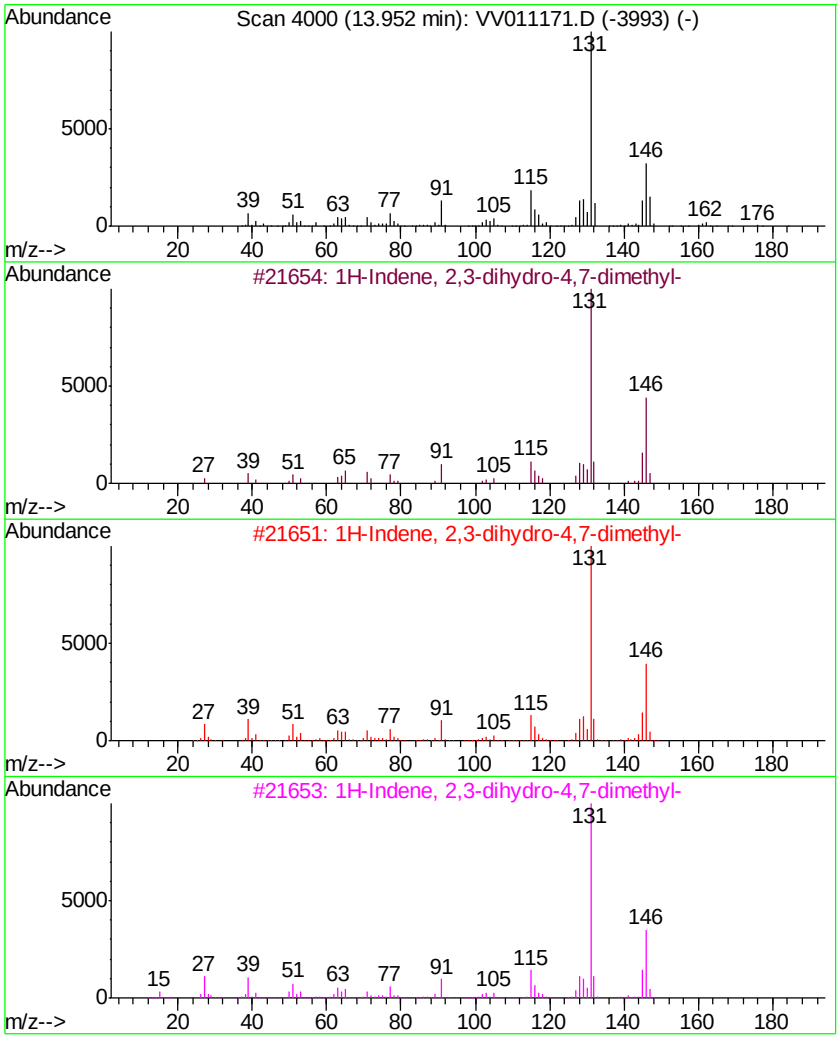
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

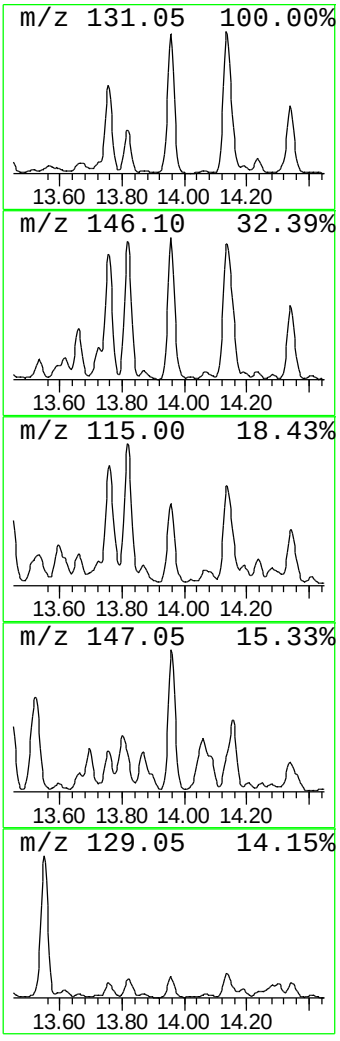
****

Peak Number 57 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	12.75 ug/L	1455390	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	97
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	94
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	94
4	1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	93
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	93





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

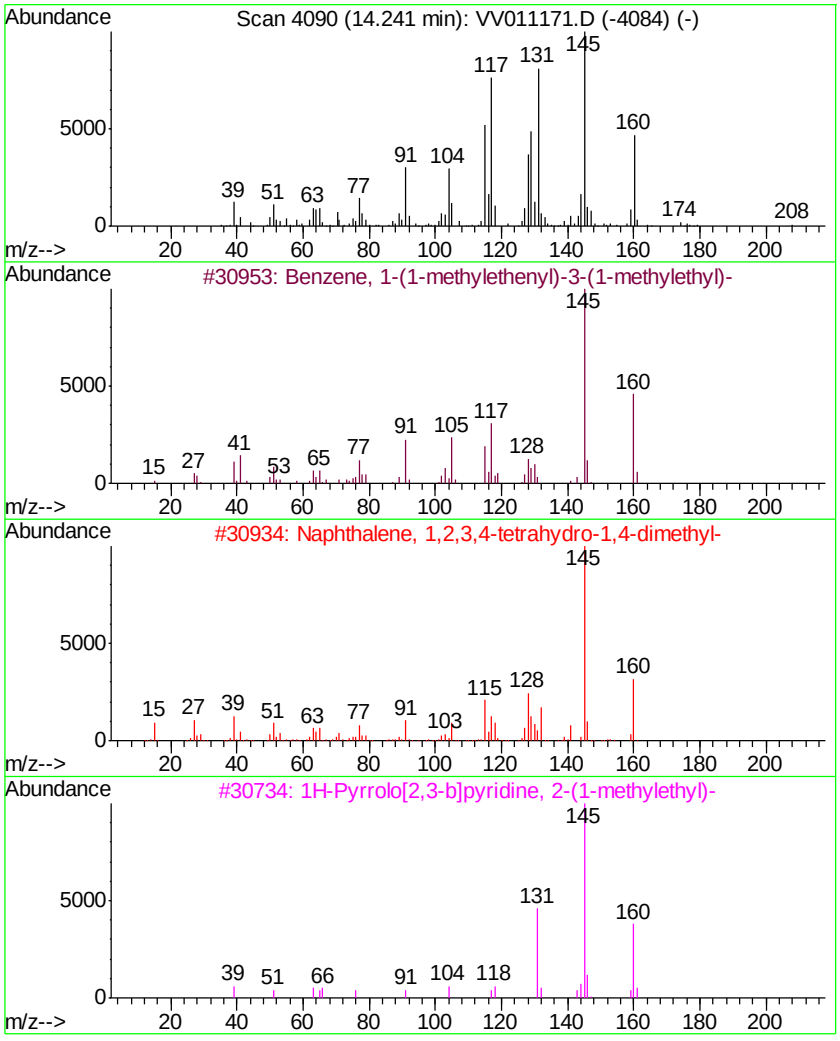
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

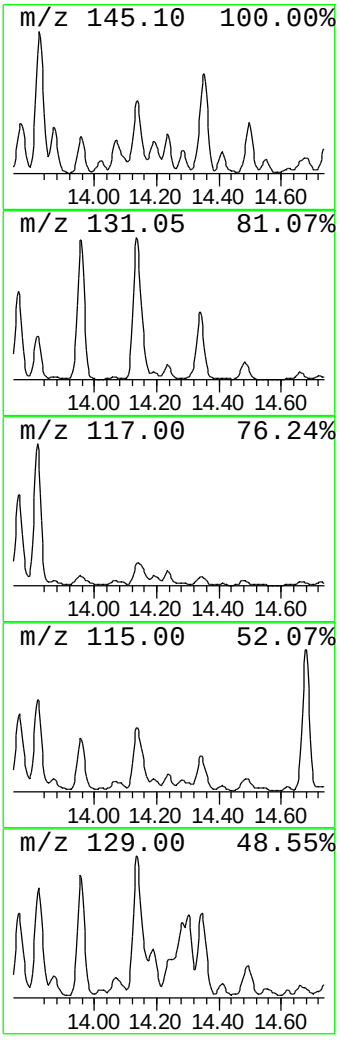
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 59 Benzene, 1-(1-methylethenyl... Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.24	1.40 ug/L	160216	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(1-methylethenyl)-3-(...	160	C12H16	001129-29-9	58
2	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	46
3	1H-Pyrrolo[2,3-b]pyridine, 2-(1-...	160	C10H12N2	027257-18-7	43
4	Ethanone, 1-[4-(1-methylethenyl)...	160	C11H12O	005359-04-6	43
5	1H-Inden-1-one, 2,3-dihydro-3,3-...	160	C11H12O	026465-81-6	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

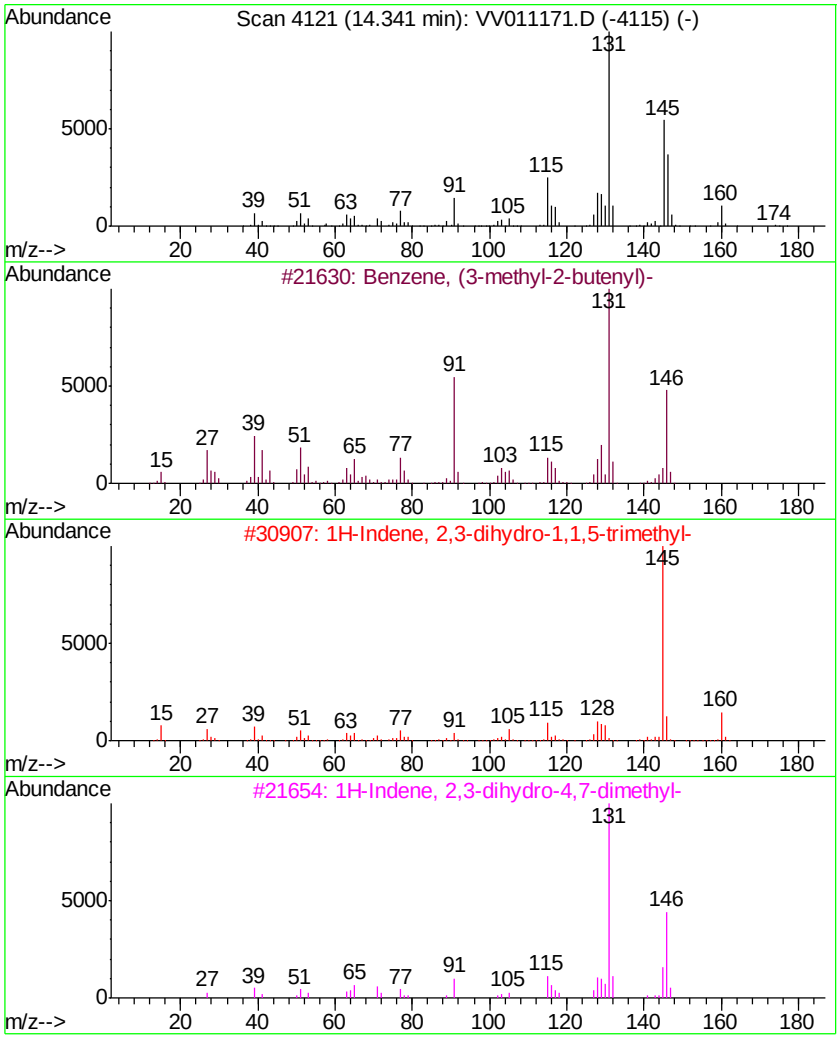
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

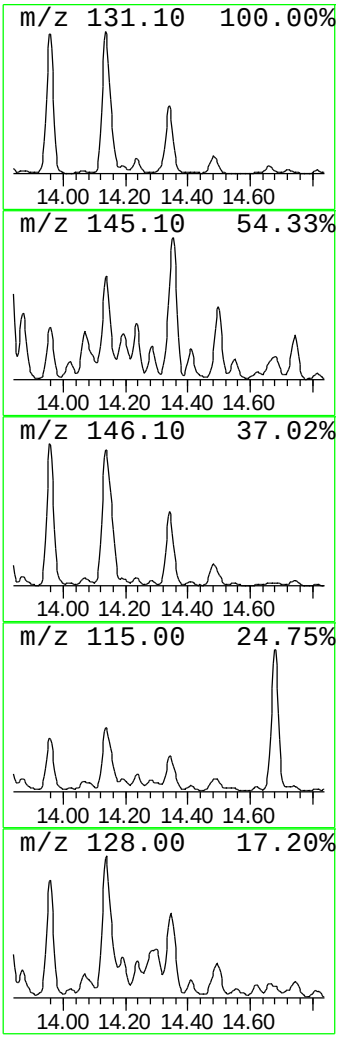
****

Peak Number 60 Benzene, (3-methyl-2-butenyl)- Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	8.90 ug/L	1015930	1,4-Dichlorobenzene-d4	11.29

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-1,1,5-tri...	160	C12H16	040650-41-7	55
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	53
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	53
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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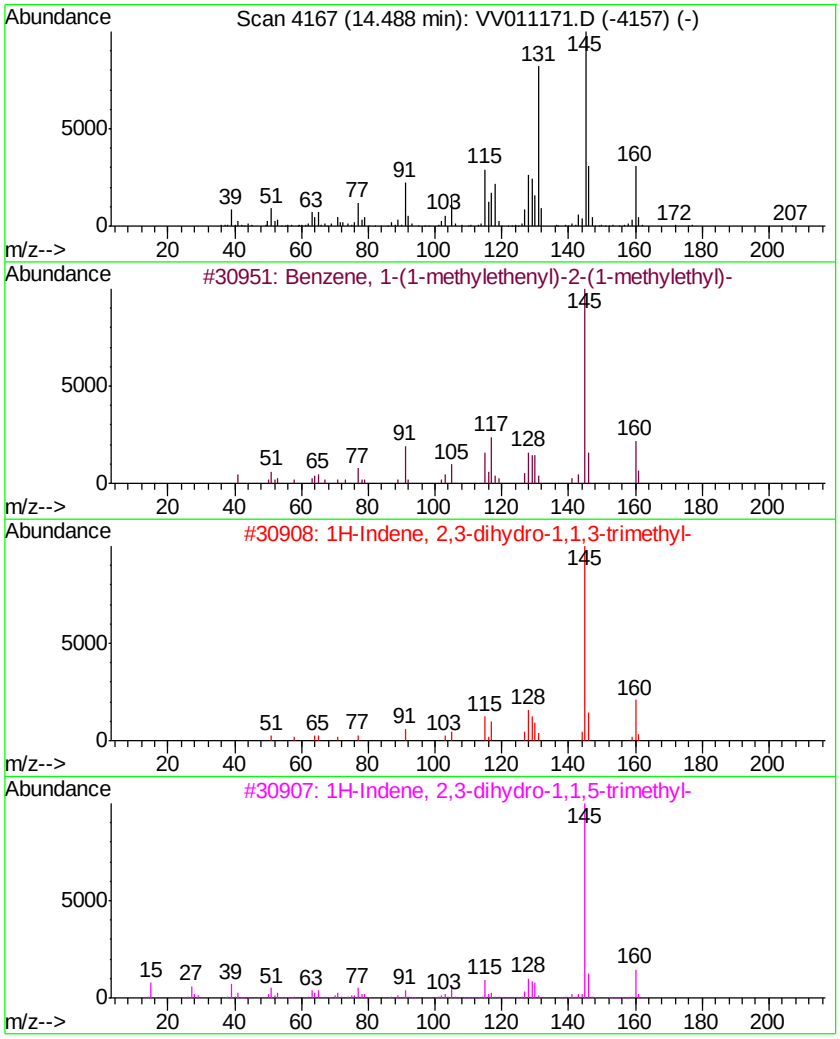
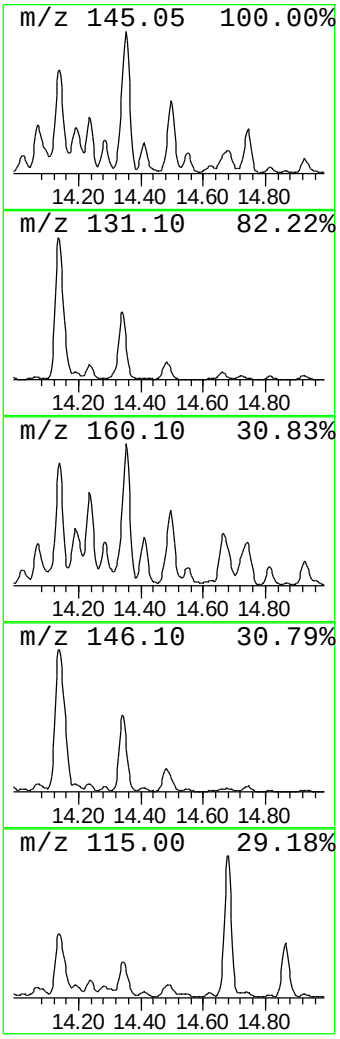
Peak Number 61 Benzene, 1-(1-methylethenyl... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.49	3.49 ug/L	398479	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(1-methylethenyl)-2-(...	160	C12H16	005557-93-7	90
2	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	70
3	1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	68
4	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	62
5	1H-Indene, 2,3-dihydro-1,5,7-tri...	160	C12H16	054340-88-4	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

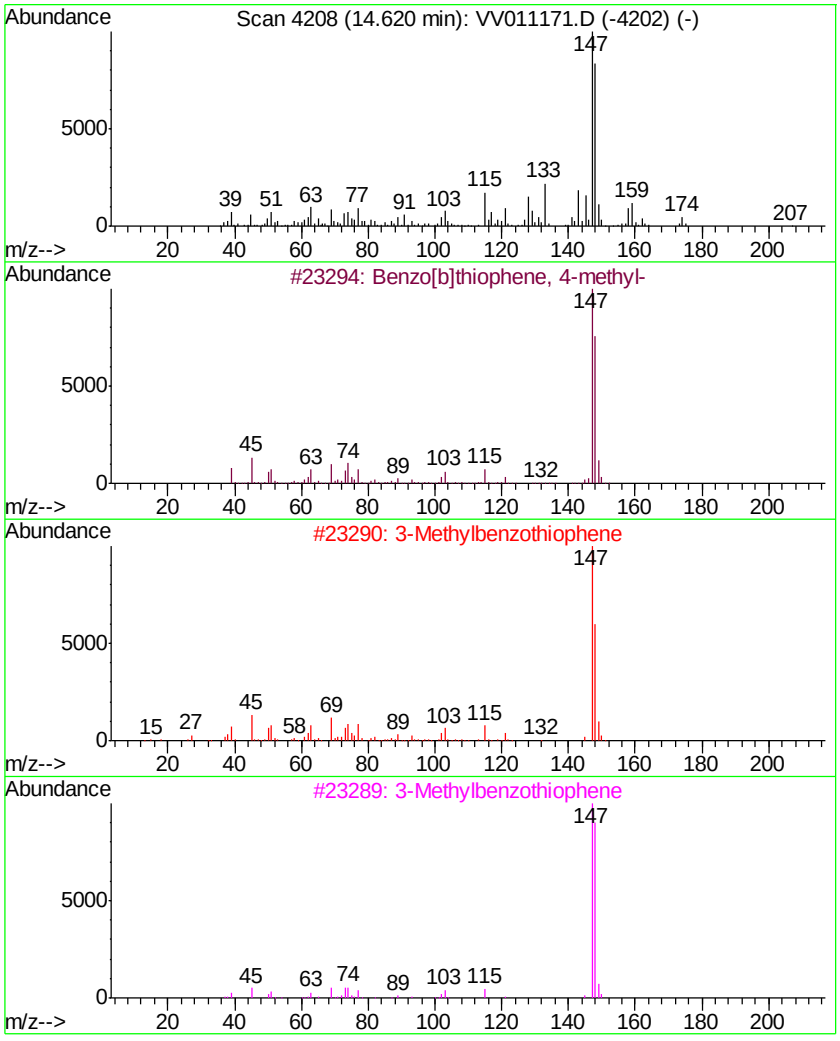
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

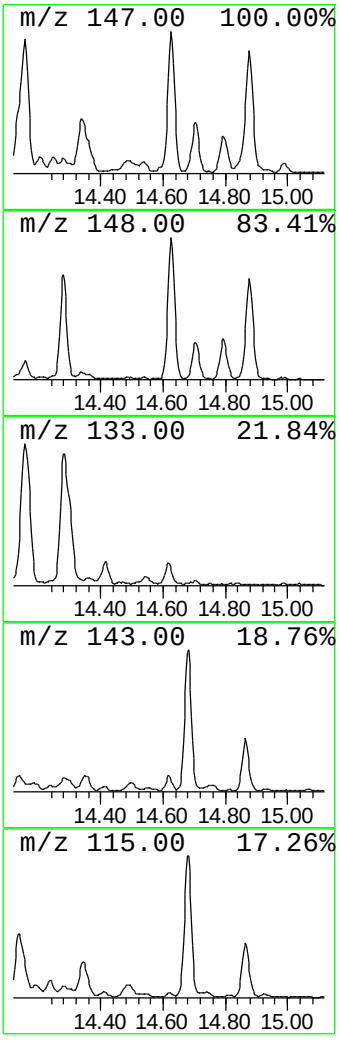
****

Peak Number 62 Benzo[b]thiophene, 4-methyl- Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	1.36 ug/L	155429	1,4-Dichlorobenzene-d4	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 4-methyl-	148	C9H8S	014315-11-8	76
2	3-Methylbenzothiophene	148	C9H8S	001455-18-1	76
3	3-Methylbenzothiophene	148	C9H8S	001455-18-1	70
4	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	68
5	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011171.D
Acq On : 31 May 2019 09:26
Operator : SY/MD
Sample : K3081-04
Misc : 7.04G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : GALD4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.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...	4.94	3.7	ug/L	120603	1	5.66	818701	25.0
(DEL) Alkane: Cyc...	5.36	2.8	ug/L	90337	1	5.66	818701	25.0
(DEL) Alkane: Str...	5.53	8.6	ug/L	282579	1	5.66	818701	25.0
(DEL) Alkane: Str...	6.23	1.3	ug/L	43740	1	5.66	818701	25.0
(DEL) Alkane: Str...	6.29	2.1	ug/L	69751	1	5.66	818701	25.0
(DEL) Alkane: Cyc...	6.40	2.9	ug/L	95995	1	5.66	818701	25.0
(DEL) Alkane: Cyc...	6.50	6.5	ug/L	211695	1	5.66	818701	25.0
Cyclohexene, 4-me...	6.61	1.7	ug/L	54459	1	5.66	818701	25.0
(DEL) Alkane: Cyc...	6.67	11.2	ug/L	368114	1	5.66	818701	25.0
(DEL) Alkane: Str...	6.96	8.1	ug/L	263867	1	5.66	818701	25.0
(DEL) Alkane: Str...	7.12	9.2	ug/L	300004	1	5.66	818701	25.0
(DEL) Alkane: Cyc...	7.30	36.3	ug/L	1404220	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	7.48	14.8	ug/L	573145	2	8.89	967733	25.0
(DEL) Alkane: Str...	7.60	11.0	ug/L	424989	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	7.83	20.3	ug/L	787240	2	8.89	967733	25.0
Cyclohexene, 3,5-...	7.88	11.6	ug/L	448459	2	8.89	967733	25.0
(DEL) Alkane: Str...	8.01	6.2	ug/L	240434	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	8.33	44.2	ug/L	1709260	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	8.39	79.5	ug/L	3076180	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	8.55	36.4	ug/L	1410330	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	8.63	61.0	ug/L	2361980	2	8.89	967733	25.0
(DEL) Alkane: Str...	8.70	28.3	ug/L	1096720	2	8.89	967733	25.0
(DEL) Alkane: Str...	8.83	60.3	ug/L	2333220	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	9.24	84.7	ug/L	3280150	2	8.89	967733	25.0
Cyclohexene, 3-(1...	9.36	43.8	ug/L	1693500	2	8.89	967733	25.0
Propylidencyclohe...	9.75	200.8	ug/L	7772170	2	8.89	967733	25.0
(DEL) Alkane: Cyc...	9.84	133.8	ug/L	5180850	2	8.89	967733	25.0
Benzene, propyl-	10.40	35.2	ug/L	4018080	3	11.29	2853210	25.0
Benzene, 1-ethyl-...	10.50	28.5	ug/L	3253970	3	11.29	2853210	25.0
Benzene, 1,2,3-tr...	10.96	66.4	ug/L	7575750	3	11.29	2853210	25.0
(DEL) Alkane: Cyc...	11.20	19.7	ug/L	2250670	3	11.29	2853210	25.0
Benzene, 1-etheny...	11.58	122.2	ug/L	13942400	3	11.29	2853210	25.0
Benzene, 1-methyl...	11.86	35.3	ug/L	4031360	3	11.29	2853210	25.0
Benzene, 2-ethyl-...	11.96	33.2	ug/L	3784370	3	11.29	2853210	25.0
Benzene, 1-etheny...	12.16	129.0	ug/L	14719100	3	11.29	2853210	25.0
unknown-01	12.42	9.1	ug/L	1036590	3	11.29	2853210	25.0
Benzene, 1,2,4,5-...	12.46	43.6	ug/L	4980690	3	11.29	2853210	25.0
Benzene, 1,2,3,5-...	12.51	46.4	ug/L	5291670	3	11.29	2853210	25.0
Bicyclo[4.2.0]oct...	12.60	34.8	ug/L	3970140	3	11.29	2853210	25.0
Benzene, 2-etheny...	12.77	59.0	ug/L	6737740	3	11.29	2853210	25.0
2-Methyl-7-endo-v...	12.84	12.5	ug/L	1426430	3	11.29	2853210	25.0
1-Phenyl-1-butene	12.93	194.8	ug/L	22228700	3	11.29	2853210	25.0
Naphthalene, 1,2,...	13.10	20.3	ug/L	2319030	3	11.29	2853210	25.0
Benzene, (1,2-dim...	13.21	14.9	ug/L	1704500	3	11.29	2853210	25.0
Benzene, (2-methy...	13.26	42.9	ug/L	4896260	3	11.29	2853210	25.0
1H-Indene, 2,3-di...	13.32	28.2	ug/L	3219360	3	11.29	2853210	25.0
1H-Indene, 2,3-di...	13.42	27.2	ug/L	3109350	3	11.29	2853210	25.0
Naphthalene, 1,2,...	13.76	12.7	ug/L	1444830	3	11.29	2853210	25.0
Benzene, 1-pentenyl-	13.82	12.7	ug/L	1447920	3	11.29	2853210	25.0

1H-Indene, 2,3-di...	13.95	12.8	ug/L	1455390	3	11.29	2853210	25.0
Benzene, 1-(1-met...	14.24	1.4	ug/L	160216	3	11.29	2853210	25.0
Benzene, (3-methy...	14.34	8.9	ug/L	1015930	3	11.29	2853210	25.0
Benzene, 1-(1-met...	14.49	3.5	ug/L	398479	3	11.29	2853210	25.0
Benzo[b]thiophene...	14.62	1.4	ug/L	155429	3	11.29	2853210	25.0

Instrument :
MSVOA_V
ClientSampleId :
GALD4