LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

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_W\METHOD\SOM2WLM122719S.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	4.958	477	501	533	rBV	3148430	13887763	2.31%	0.132%
2	5.440	565	580	606	rVV	1953964	7817821	1.30%	0.074%
3	5.940	647	662	682	rBV	5580901	18804539	3.12%	0.179%
4	6.720	775	790	802	rBV	1702102	6491606	1.08%	0.062%
5	6.878	802	816	831	rBV	28570904	108999961	18.10%	1.038%
6	7.701	945	951	961	rVV	2432953	7766923	1.29%	0.074%
7	7.933	977	989	998	rBV2	54042957	167805079	27.86%	1.598%
8	8.043	998	1007	1018	rVB3	75683738	244591350	40.61%	2.329%
9	8.165	1018	1027	1040	rVB2	69673816	192098397	31.90%	1.829%
10	8.506	1062	1083	1092	rBV8	91851230	421207103	69.94%	4.011%
11	8.585	1092	1096	1105	rVB	10704417	22407866	3.72%	0.213%
12	8.701	1105	1115	1128	rVB2	55774357	121660389	20.20%	1.158%
13	8.835	1128	1137	1149	rBV2	7697898	21154805	3.51%	0.201%
14	8.994	1158	1163	1171	rVB	3013730	5898875	0.98%	0.056%
15	9.152	1180	1189	1202	rVB	4376932	12181901	2.02%	0.116%
16	9.335	1202	1219	1224	rBV2	69817284	202361952	33.60%	1.927%
17	9.396	1224	1229	1236	rVB2	67456882	152027353	25.24%	1.448%
18	9.476	1236	1242	1246	rBV	13621005	28984223	4.81%	0.276%
19	9.518	1246	1249	1255	rVB	16258255	28424614	4.72%	0.271%
20	9.616	1255	1265	1273	rVB3	17589068	49565761	8.23%	0.472%
21	9.774	1274	1291	1301	rBV2	97949563	307398363	51.04%	2.927%
22	9.908	1301	1313	1318	rBV5	111649259	308475415	51.22%	2.937%
23	9.969	1318	1323	1327	rBV3	51375636	105460780	17.51%	1.004%
24	10.110	1336	1346	1357	rBV4	88173912	264713192	43.96%	2.521%
25	10.256	1364	1370	1376	rVB3	50990828	101154805	16.80%	0.963%
26	10.329	1376	1382	1386	rBV2	35014704	73344838	12.18%	0.698%
27	10.366	1386	1388	1392	rVB	13362199	16891396	2.80%	0.161%
28	10.451	1392	1402	1405	rBV3	21164203	54654110	9.08%	0.520%
29	10.512	1405	1412	1418	rVB5	87839146	196395940	32.61%	1.870%
30	10.573	1418	1422	1426	rVB2	14330739	21451333	3.56%	0.204%
31	10.616	1426	1429	1434	rVB3	5431986	8945975	1.49%	0.085%
32	10.689	1434	1441	1446	rBV6	15007811	38825964	6.45%	0.370%
33	10.768	1446	1454	1462	rBV6	37062408	102518054	17.02%	0.976%
34	10.853	1462	1468	1474	rVB	28478226	54735873	9.09%	0.521%

LSC Area Percent Report

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Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

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_W\METHOD\SOM2WLM122719S.M
Title : VOC Analysis

35	10.939	1474	1482	1488	rBV	26789082	58088568	9.65%	0.553%
36	11.000	1488	1492	1494	rBV	10199949	15976483	2.65%	0.152%
37	11.042	1494	1499	1506	rVB2	34977908	73333999	12.18%	0.698%
38	11.109	1506	1510	1513	rBV4	10131782	16074344	2.67%	0.153%
39	11.146	1513	1516	1519	rVB2	7236778	8581838	1.42%	0.082%
40	11.183	1519	1522	1526	rVB2	10908613	15299193	2.54%	0.146%
41	11.237	1526	1531	1535	rBV3	11402131	21905485	3.64%	0.209%
42	11.286	1536	1539	1544	rVB4	13325859	22019614	3.66%	0.210%
43	11.347	1544	1549	1552	rBV	22307725	40922709	6.80%	0.390%
44	11.420	1552	1561	1572	rVB6	93713797	272430943	45.24%	2.594%
45	11.524	1572	1578	1587	rBV3	72271685	164990489	27.40%	1.571%
46	11.615	1587	1593	1600	rBV3	37135655	88584574	14.71%	0.843%
47	11.707	1601	1608	1610	rBV2	49795883	94905336	15.76%	0.904%
48	11.847	1621	1631	1635	rBV5	108396091	258819302	42.98%	2.464%
49	11.963	1647	1650	1654	rVB2	5490898	7337094	1.22%	0.070%
50	12.036	1655	1662	1663	rBV4	12008043	22937199	3.81%	0.218%
51	12.073	1663	1668	1675	rVV3	34455517	76675388	12.73%	0.730%
52	12.146	1675	1680	1692	rVB4	37566953	112538652	18.69%	1.072%
53	12.255	1692	1698	1704	rVB3	39738686	81062784	13.46%	0.772%
54	12.335	1705	1711	1715	rBV2	25577492	54750595	9.09%	0.521%
55	12.420	1723	1725	1728	rBV3	4021422	4556691	0.76%	0.043%
56	12.469	1729	1733	1735	rBV	18860936	30108023	5.00%	0.287%
57	12.512	1736	1740	1743	rBV3	15290924	29541374	4.91%	0.281%
58	12.603	1749	1755	1761	rVB6	80680106	215866443	35.84%	2.055%
59	12.664	1761	1765	1769	rBV2	43609026	67087581	11.14%	0.639%
60	12.768	1777	1782	1785	rBV2	39624994	76059702	12.63%	0.724%
61	12.804	1785	1788	1794	rVB2	54251960	94435482	15.68%	0.899%
62	12.877	1794	1800	1803	rBV3	93908424	194036935	32.22%	1.848%
63	12.944	1807	1811	1830	rVB5	139938457	401452121	66.66%	3.823%
64	13.109	1830	1838	1846	rBV4	95488985	258798386	42.97%	2.464%
65	13.182	1846	1850	1851	rBV2	12795882	17463777	2.90%	0.166%
66	13.200	1851	1853	1856	rVB2	17574036	19662741	3.26%	0.187%
67	13.261	1856	1863	1869	rBV3	119479464	298017002	49.49%	2.838%
68	13.383	1875	1883	1887	rBV5	56281305	165736215	27.52%	1.578%
69	13.450	1890	1894	1898	rVB3	59590906	100680384	16.72%	0.959%
70	13.499	1898	1902	1906	rBV2	39429382	68330811	11.35%	0.651%
71	13.597	1911	1918	1923	rBV6	86691572	214863768	35.68%	2.046%

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ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

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_W\METHOD\SOM2WLM122719S.M
Title : VOC Analysis

72	13.639	1923	1925	1932	rVB4	49972707	80155992	13.31%	0.763%
73	13.761	1932	1945	1949	rBV5	161470723	602235029	100.00%	5.734%
74	13.804	1949	1952	1962	rVB7	147114808	456861537	75.86%	4.350%
75	13.889	1962	1966	1972	rVB2	61452756	97657377	16.22%	0.930%
76	13.956	1972	1977	1982	rBV3	78721364	138073501	22.93%	1.315%
77	14.023	1982	1988	1990	rBV5	117923982	222301132	36.91%	2.117%
78	14.109	1997	2002	2009	rVB4	143708890	302945002	50.30%	2.885%
79	14.212	2009	2019	2025	rVV4	73701358	175486944	29.14%	1.671%
80	14.280	2027	2030	2036	rVV3	14778138	30712752	5.10%	0.292%
81	14.340	2036	2040	2045	rVV3	45347175	74754289	12.41%	0.712%
82	14.426	2045	2054	2057	rVV5	91049568	188167601	31.24%	1.792%
83	14.462	2057	2060	2064	rVV2	96011345	167377715	27.79%	1.594%
84	14.499	2064	2066	2070	rVV2	67833408	97772321	16.23%	0.931%
85	14.542	2070	2073	2080	rVV	29239208	43054161	7.15%	0.410%
86	14.603	2080	2083	2086	rVV	10175948	15662068	2.60%	0.149%
87	14.645	2086	2090	2093	rVV	35761234	52618576	8.74%	0.501%
88	14.694	2093	2098	2101	rVV4	45125917	88897743	14.76%	0.846%
89	14.731	2102	2104	2109	rVB	38347583	48062815	7.98%	0.458%
90	14.792	2109	2114	2121	rBV5	45590715	124398260	20.66%	1.184%
91	14.859	2121	2125	2138	rVB2	20534650	45116104	7.49%	0.430%
92	15.029	2148	2153	2154	rBV2	7893107	11145178	1.85%	0.106%
93	15.066	2154	2159	2170	rVV3	32262145	86212066	14.32%	0.821%
94	15.176	2170	2177	2184	rVB3	18706971	44458400	7.38%	0.423%
95	15.322	2195	2201	2203	rBV3	2320614	4302618	0.71%	0.041%
96	15.365	2203	2208	2213	rVB	9341625	16250588	2.70%	0.155%
97	15.468	2220	2225	2229	rVV2	4971413	8384994	1.39%	0.080%
98	15.523	2229	2234	2248	rVB2	4188928	11766996	1.95%	0.112%
99	15.651	2248	2255	2262	rBV	4517887	8976680	1.49%	0.085%
100	15.822	2273	2283	2287	rBV3	1975521	5427049	0.90%	0.052%

Sum of corrected areas: 10502271832

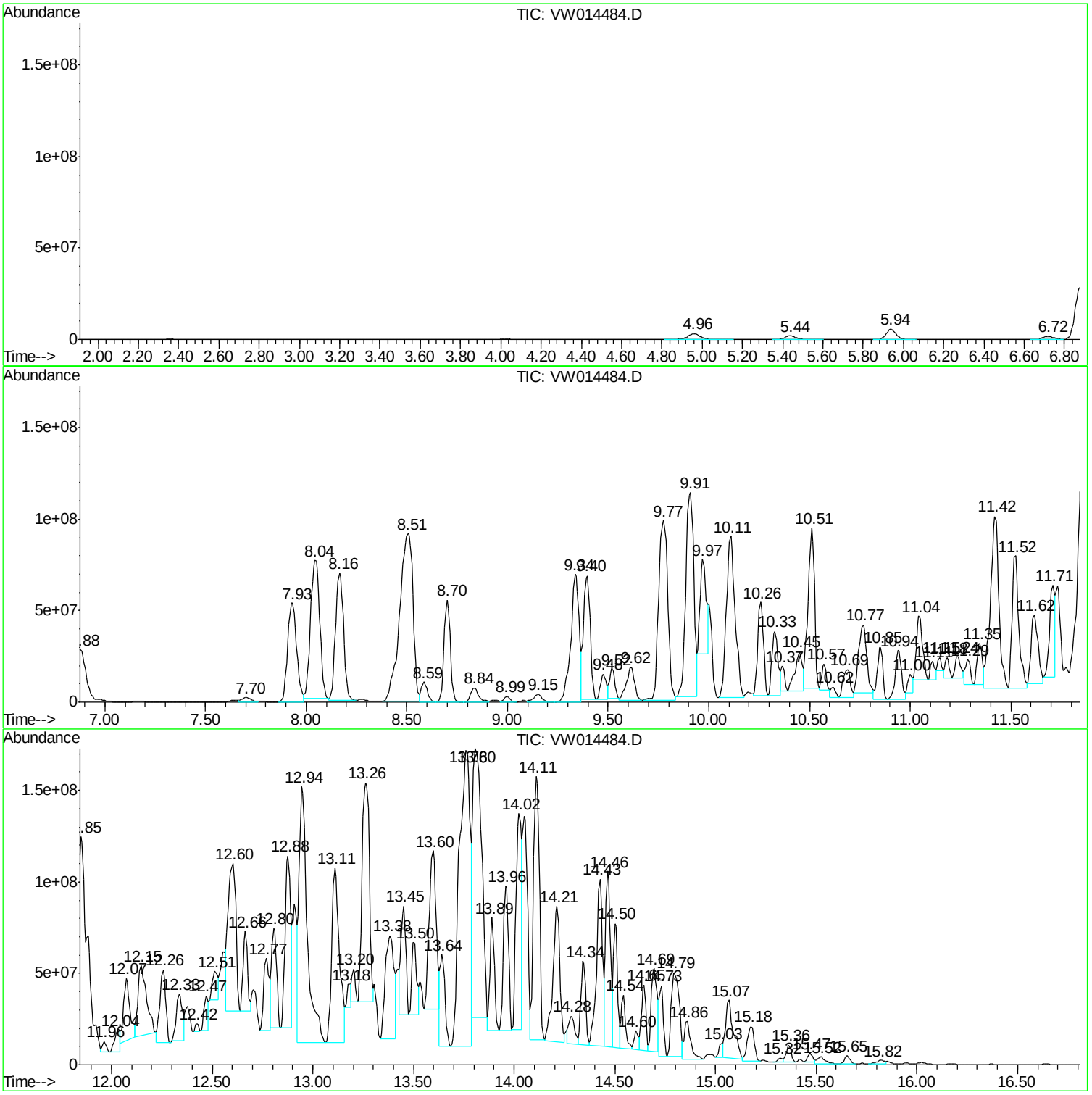
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
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Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

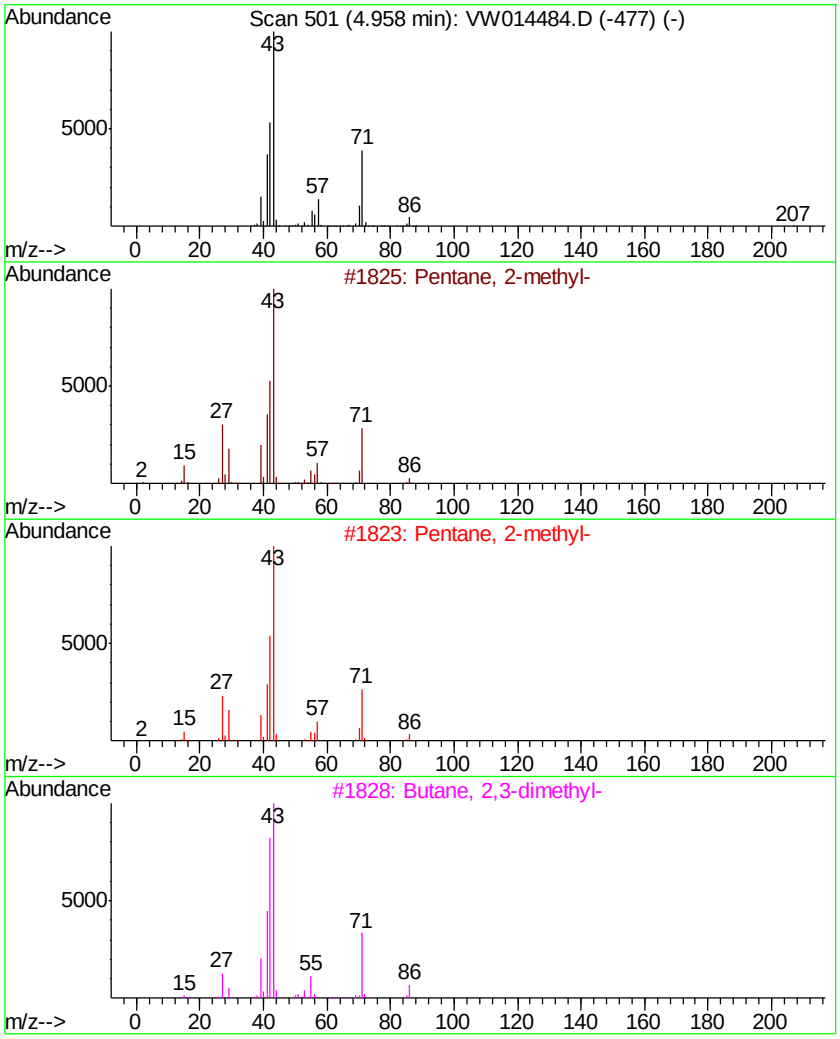
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

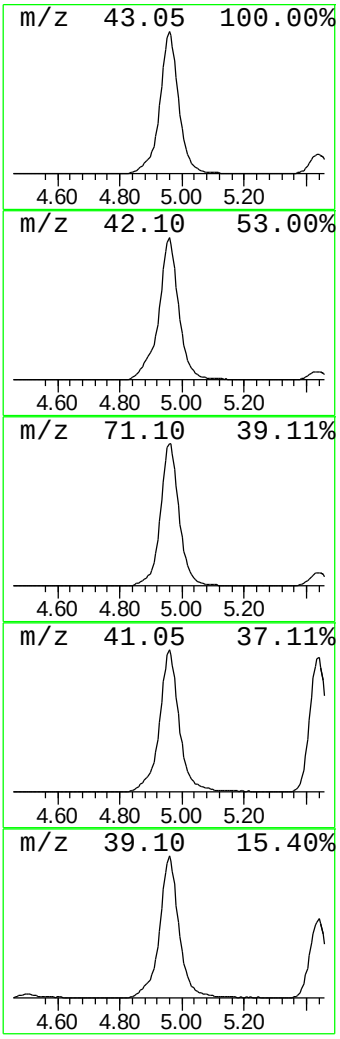
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.96	16.41 ug/L	13887800	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59
4	1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	45
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

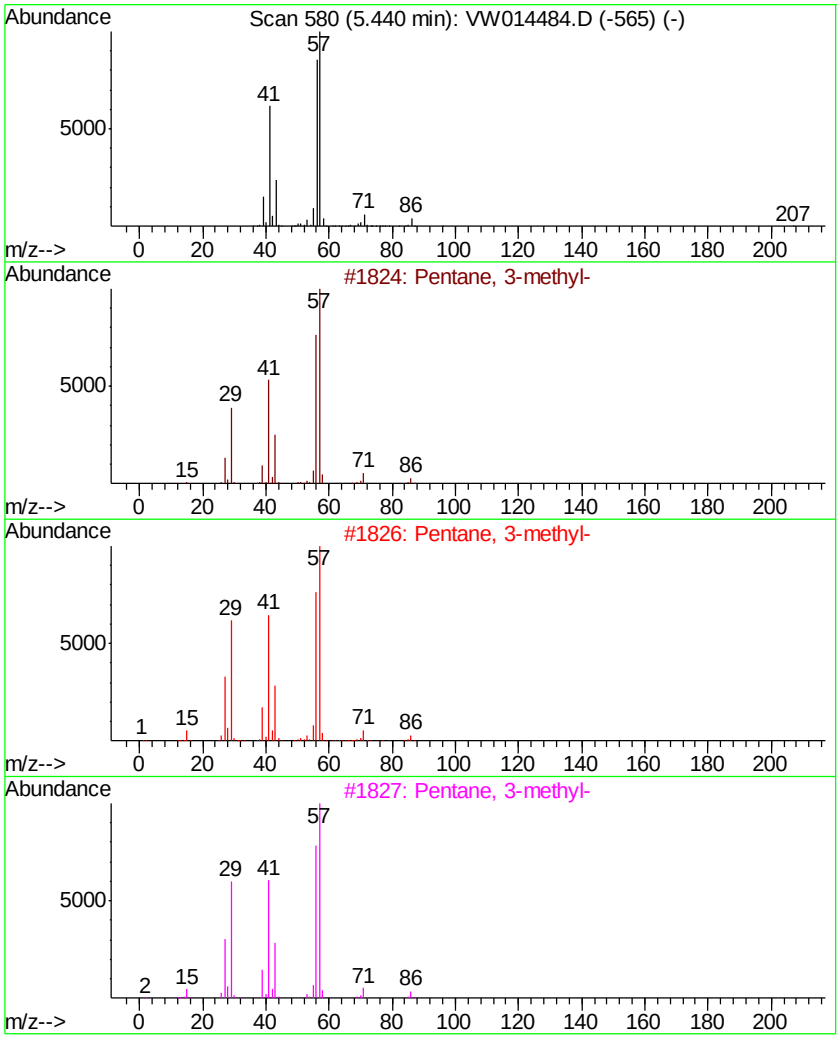
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

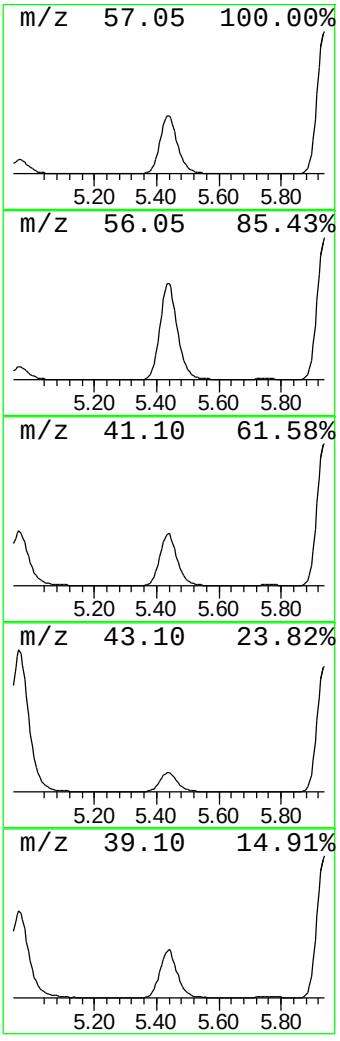
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.44	9.24 ug/L	7817820	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
4	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	78
5	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	56





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

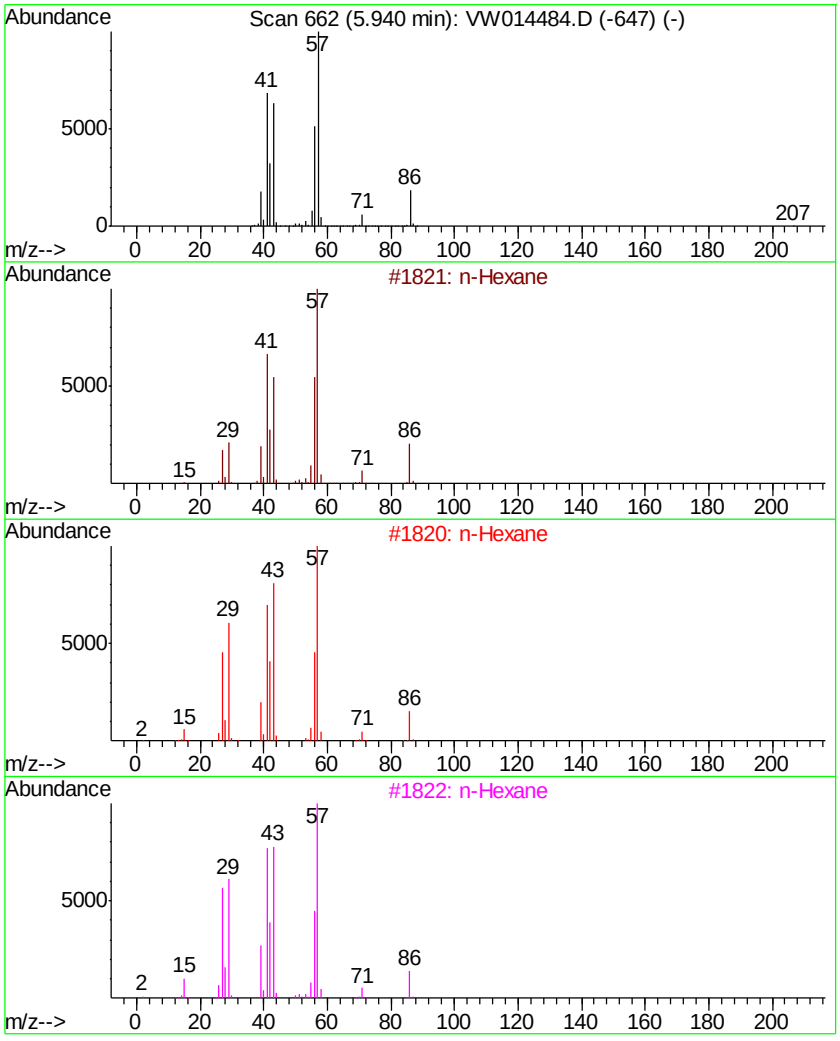
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

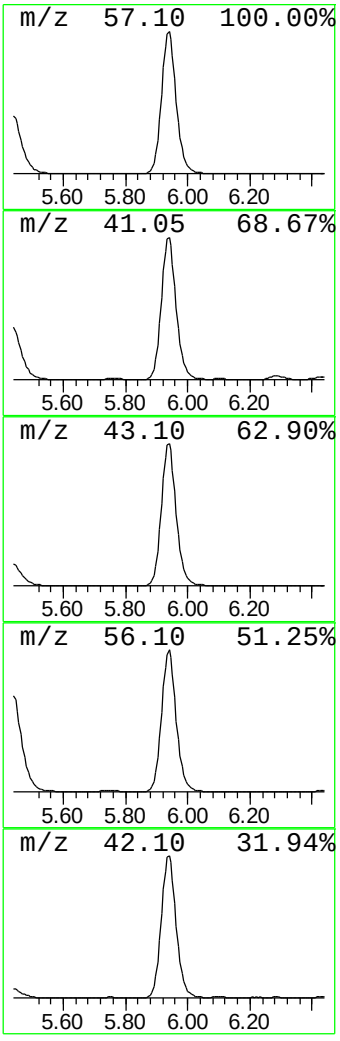
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.94	22.22 ug/L	18804500	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	94
2	n-Hexane	86	C6H14	000110-54-3	90
3	n-Hexane	86	C6H14	000110-54-3	90
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	53
5	1-Propanol, 2,2-dimethyl-	88	C5H12O	000075-84-3	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

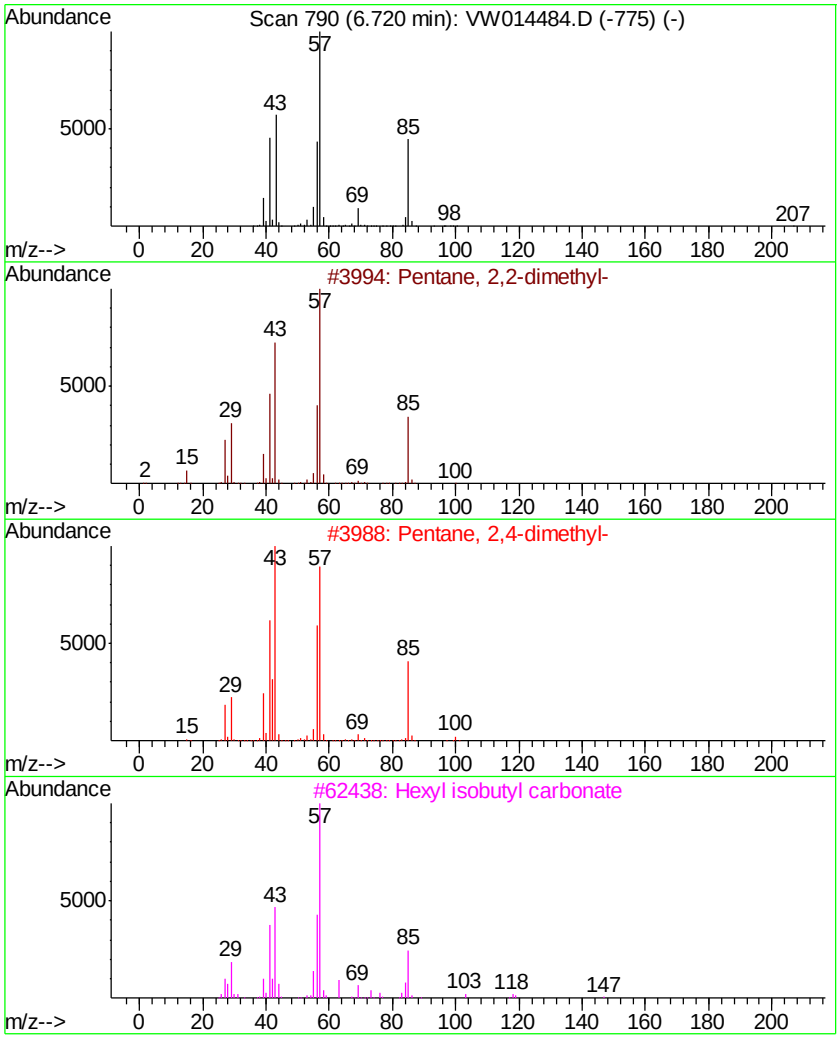
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

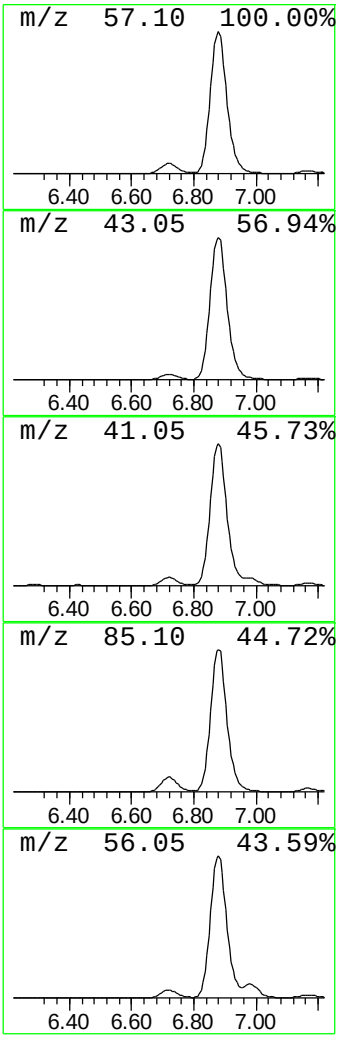
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	7.67 ug/L	6491610	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	78
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	78
3	Hexyl isobutyl carbonate	202	C11H22O3	959067-98-2	78
4	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	78
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

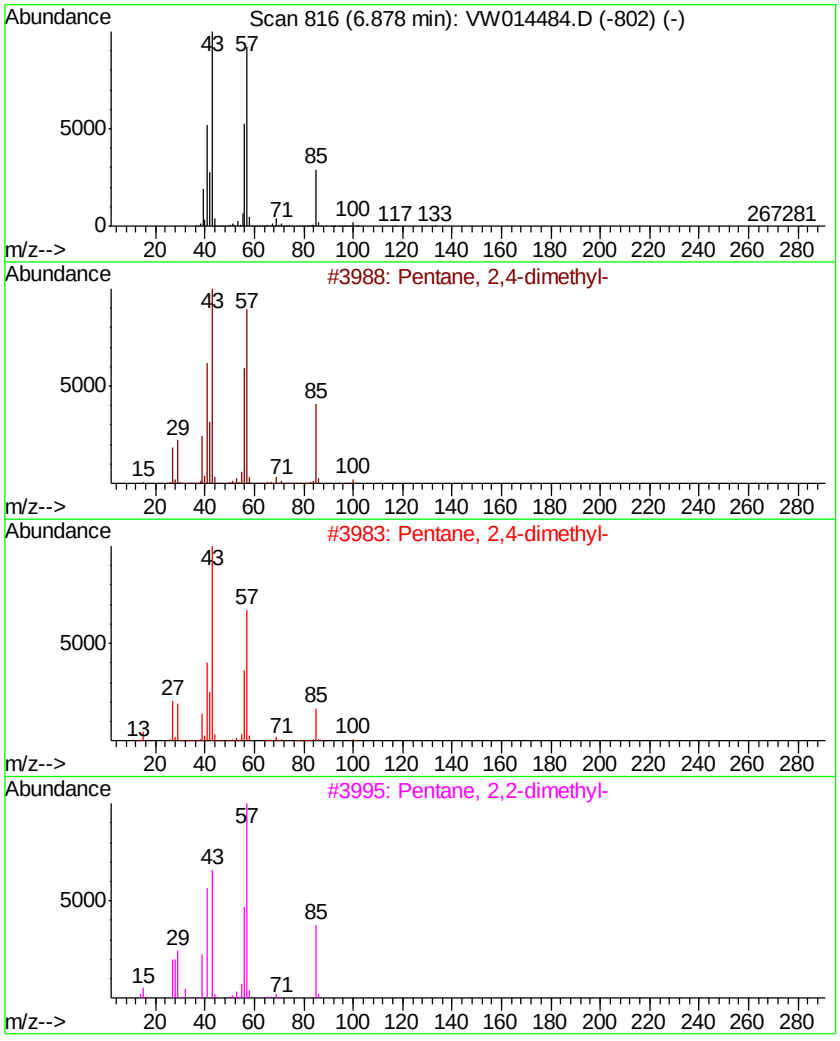
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

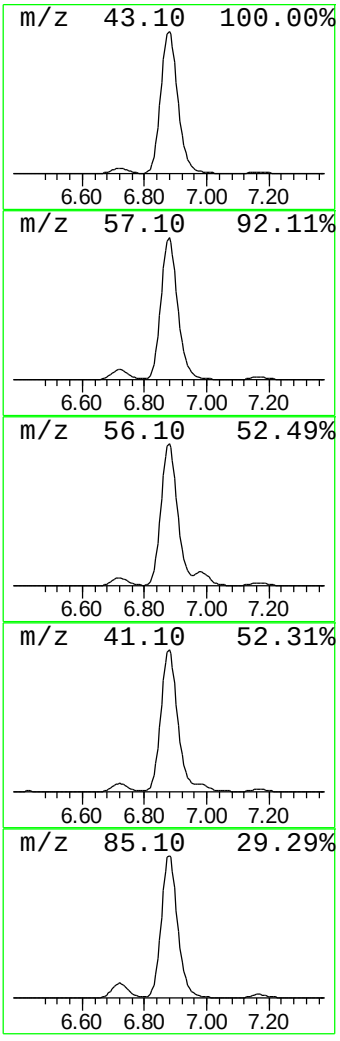
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.88	128.81 ug/L	109000000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	94
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	59
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	59





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

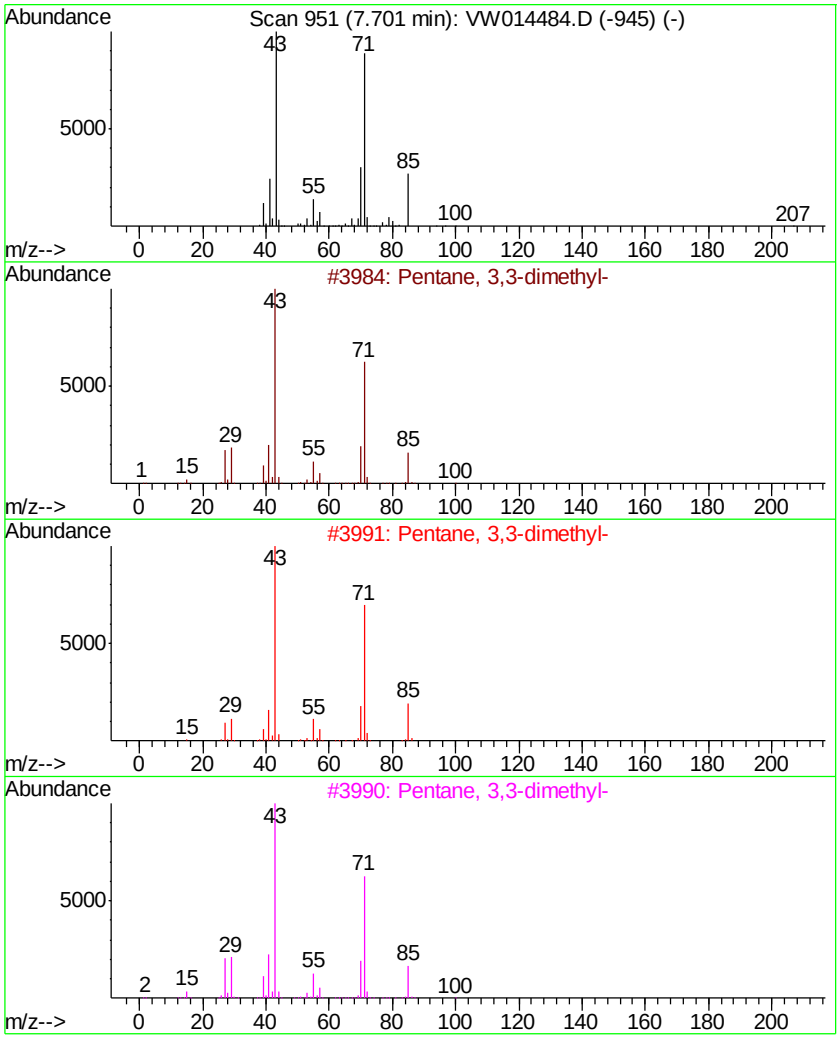
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

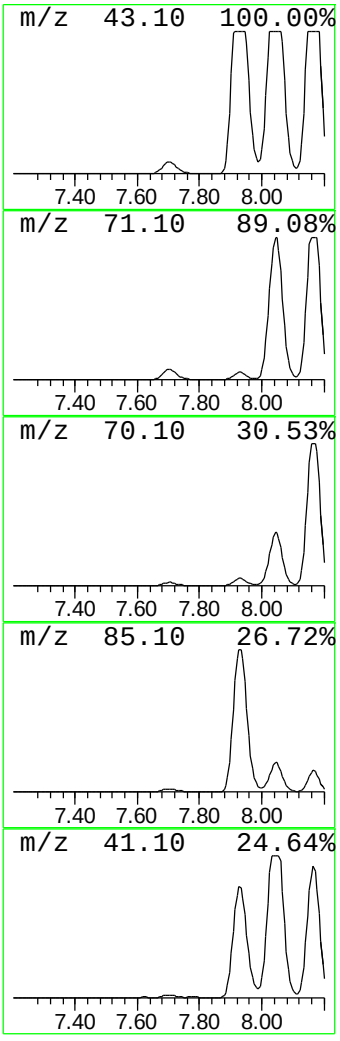
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	9.18 ug/L	7766920	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	78
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	64
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	56
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	40
5	Propanoic acid, 2-methyl-, anhyd...	158	C8H14O3	000097-72-3	40





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

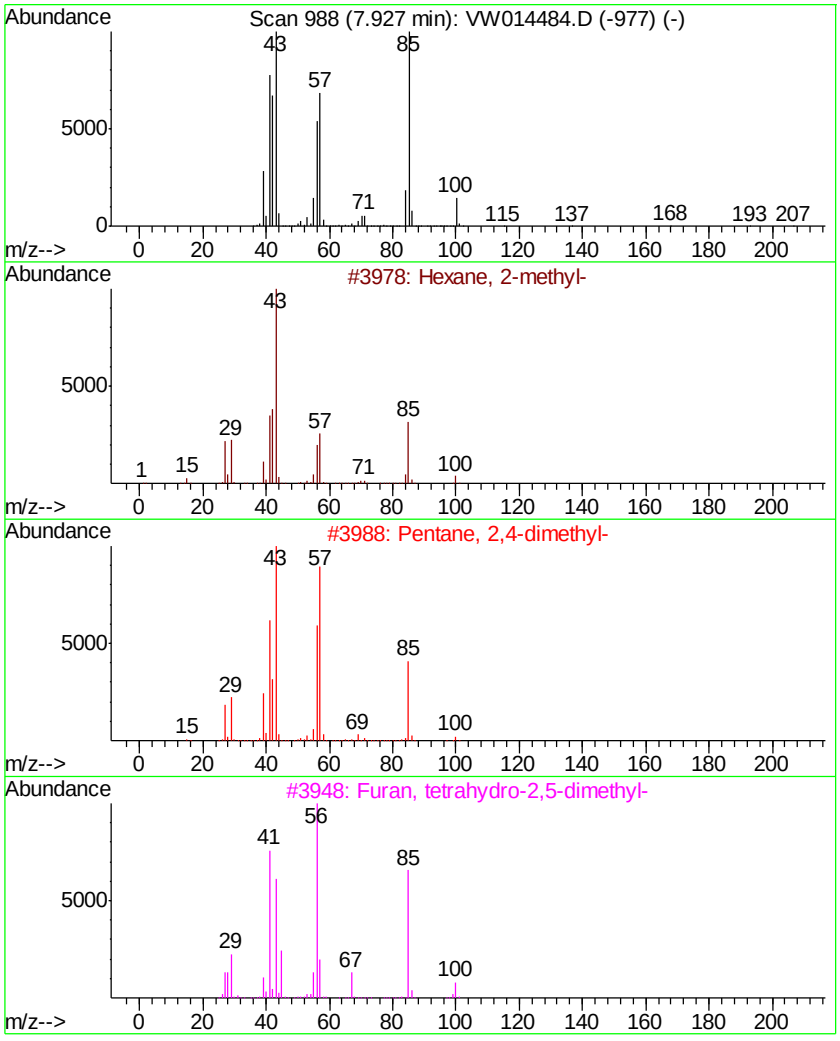
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

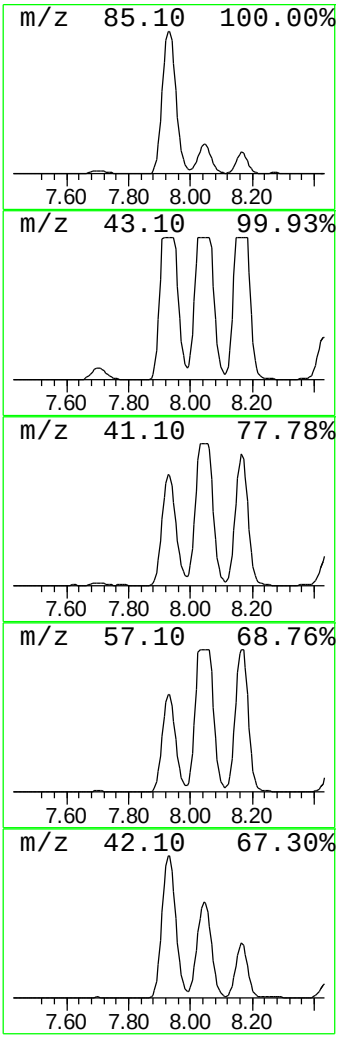
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.93	198.31 ug/L	167805000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	74
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
3	Furan, tetrahydro-2,5-dimethyl-	100	C6H12O	001003-38-9	59
4	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	59
5	Furan, tetrahydro-2,5-dimethyl-,...	100	C6H12O	002144-41-4	58





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

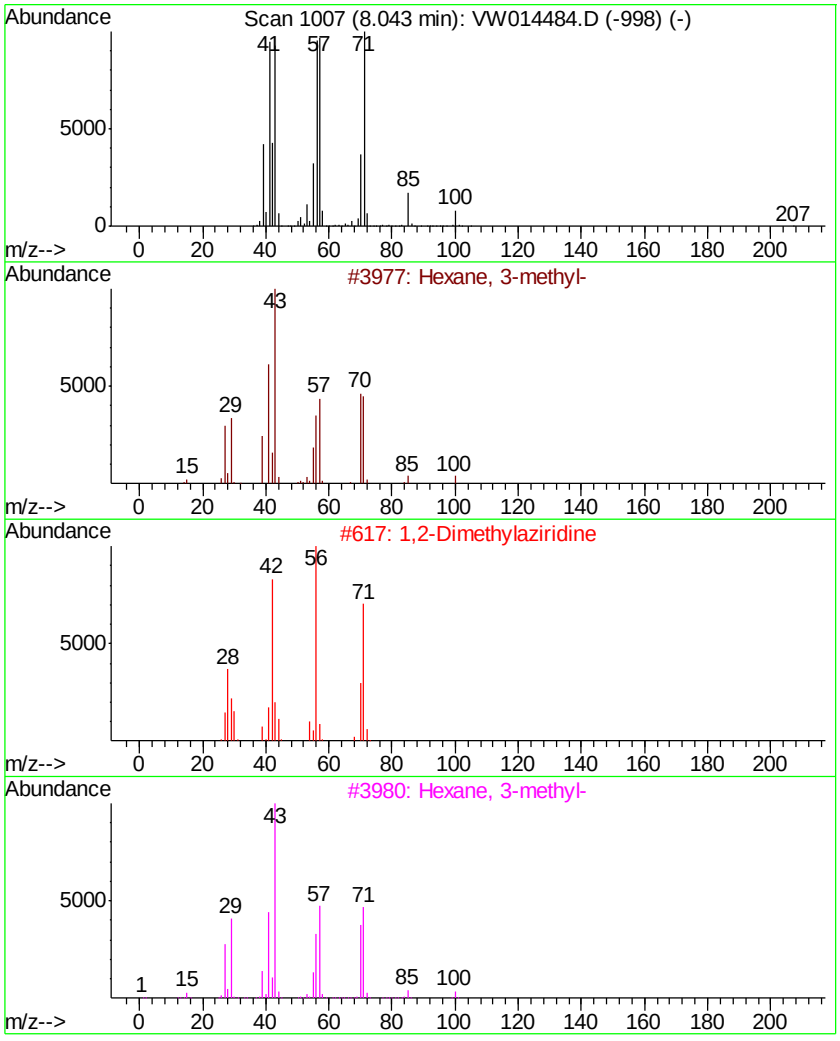
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

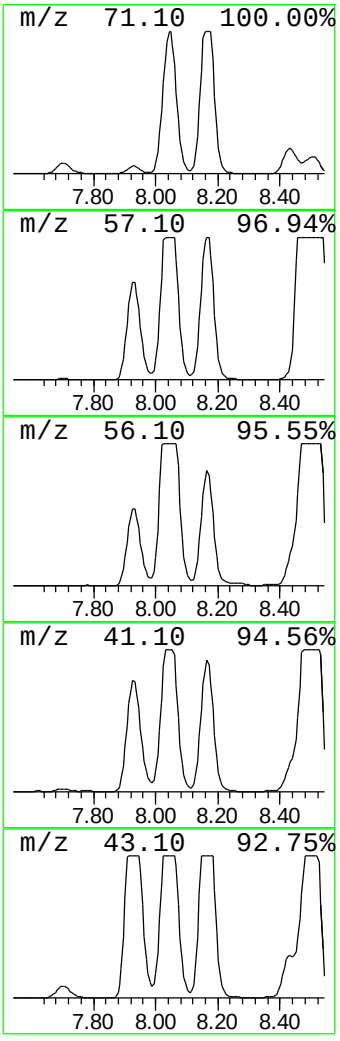
****

Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	289.05 ug/L	244591000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	72
2	1,2-Dimethylaziridine	71	C4H9N	030757-96-1	59
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	58
4	Hexane, 3-methyl-	100	C7H16	000589-34-4	52
5	1-Heptene	98	C7H14	000592-76-7	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

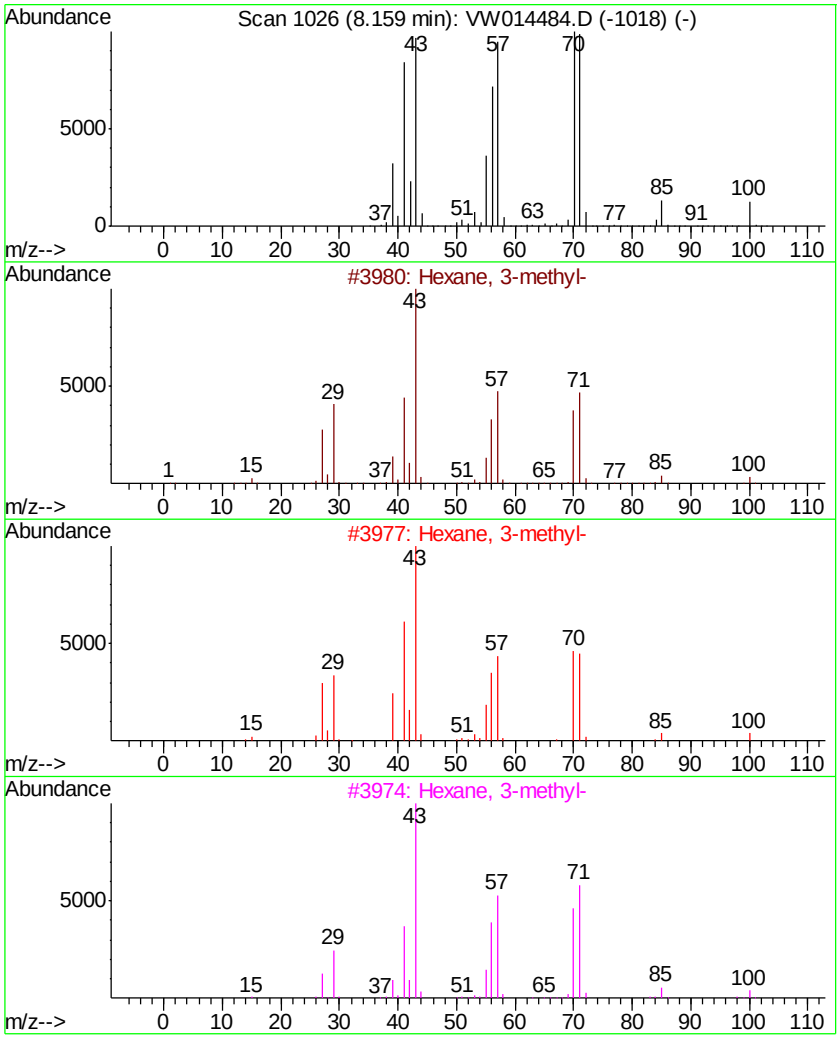
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

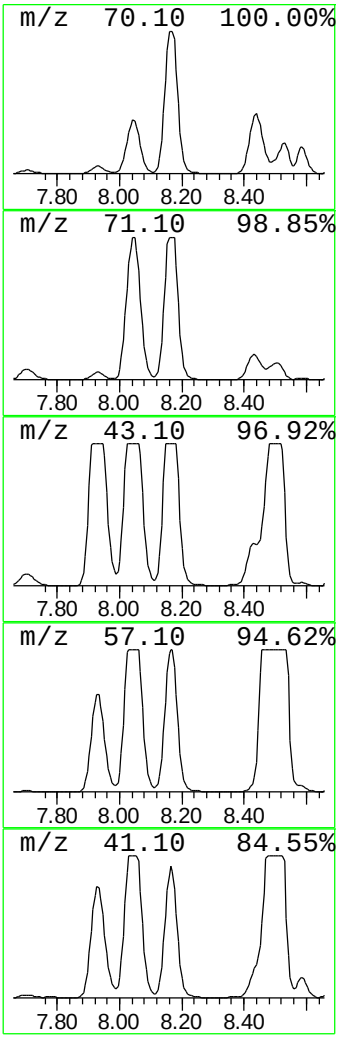
****

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.16	227.02 ug/L	192098000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	70
4	Octane, 4,5-dimethyl-	142	C10H22	015869-96-2	53
5	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

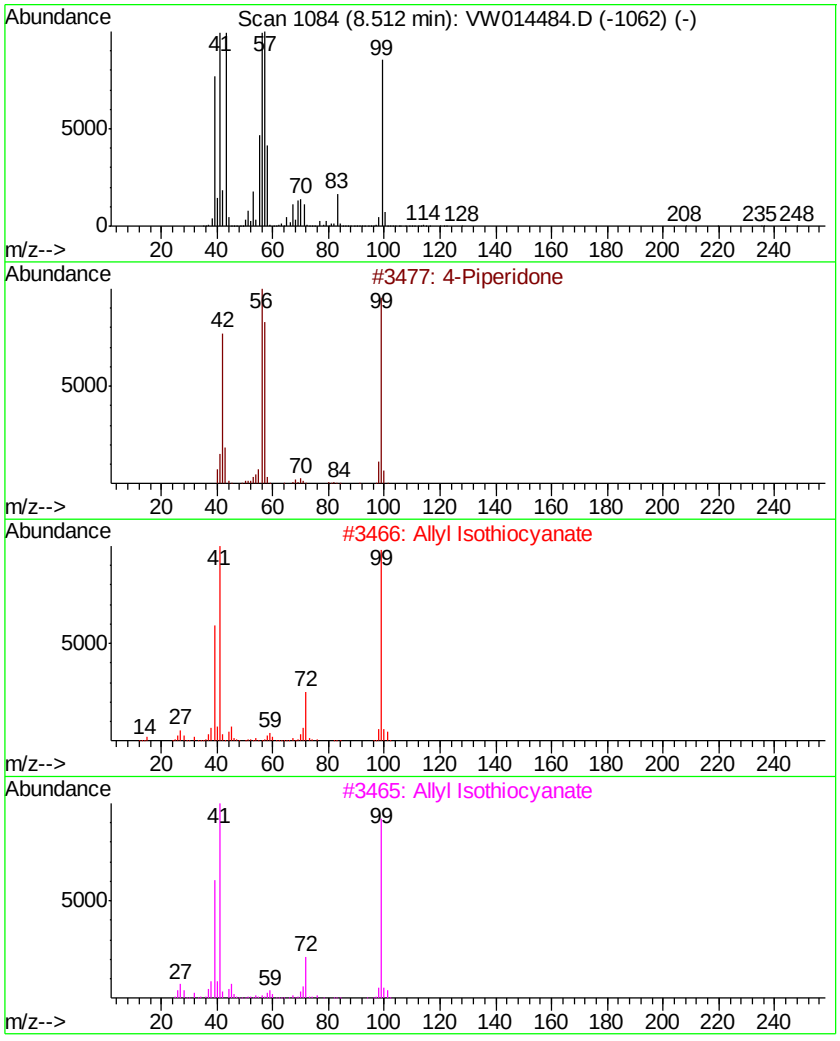
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

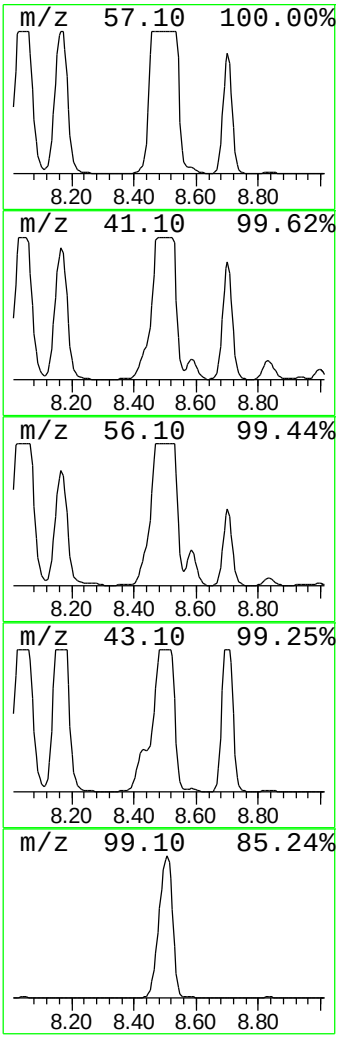
****

Peak Number 10 4-Piperidone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.51	497.77 ug/L	421207000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Piperidone	99	C5H9NO	041661-47-6	64
2	Allyl Isothiocyanate	99	C4H5NS	000057-06-7	53
3	Allyl Isothiocyanate	99	C4H5NS	000057-06-7	50
4	2-Ethyl-3-vinyloxirane	98	C6H10O	034485-78-4	43
5	Allyl Isothiocyanate	99	C4H5NS	000057-06-7	42





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

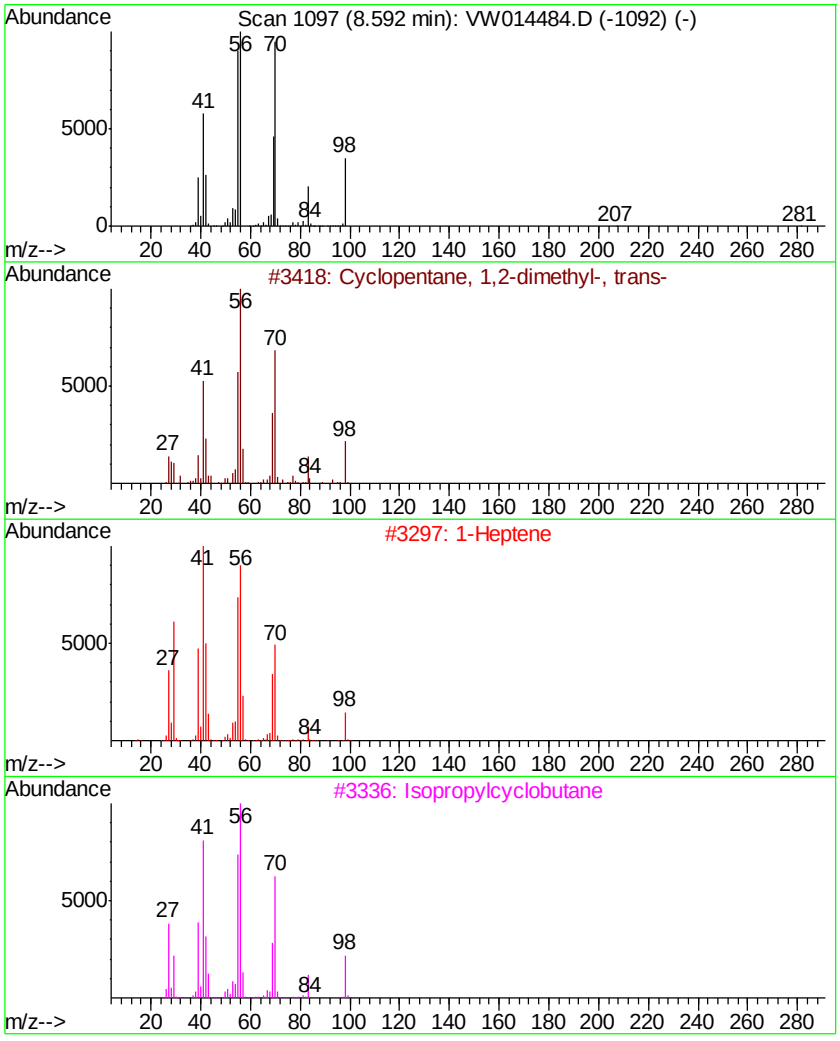
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

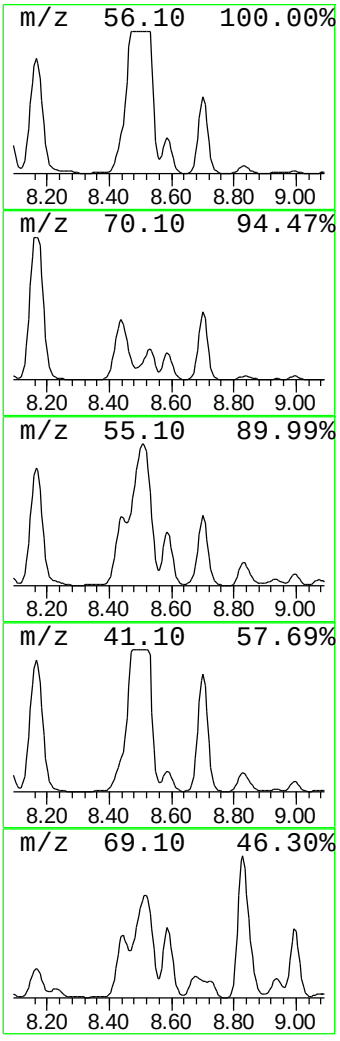
****

Peak Number 11 (DEL) Alkane: Cyclic8.59 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.59	26.48 ug/L	22407900	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
2	1-Heptene	98	C7H14	000592-76-7	91
3	Isopropylcyclobutane	98	C7H14	000872-56-0	91
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
5	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

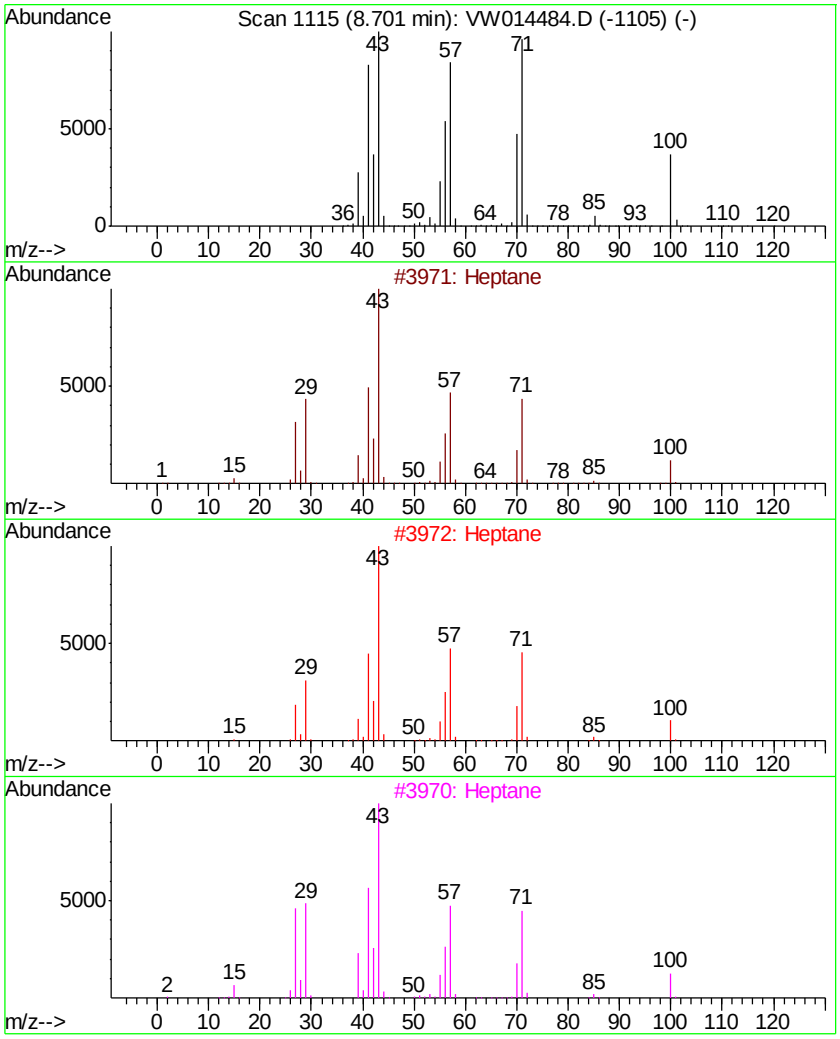
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

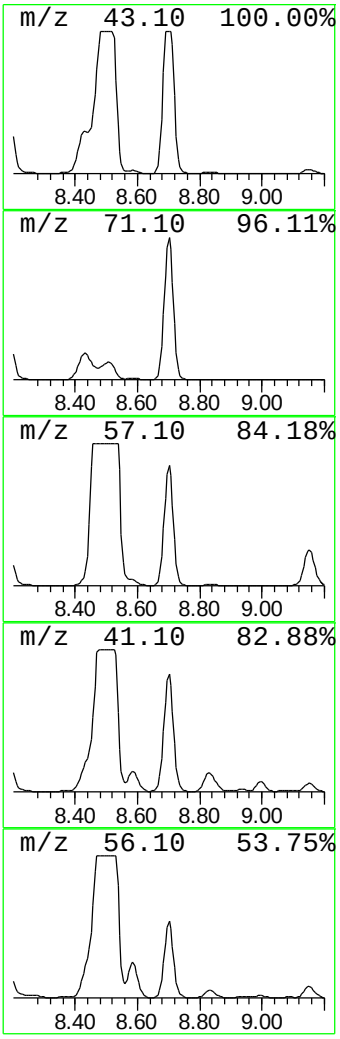
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.70	143.77 ug/L	121660000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane	100	C7H16	000142-82-5	91
2	Heptane	100	C7H16	000142-82-5	83
3	Heptane	100	C7H16	000142-82-5	83
4	Heptane	100	C7H16	000142-82-5	74
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	53





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

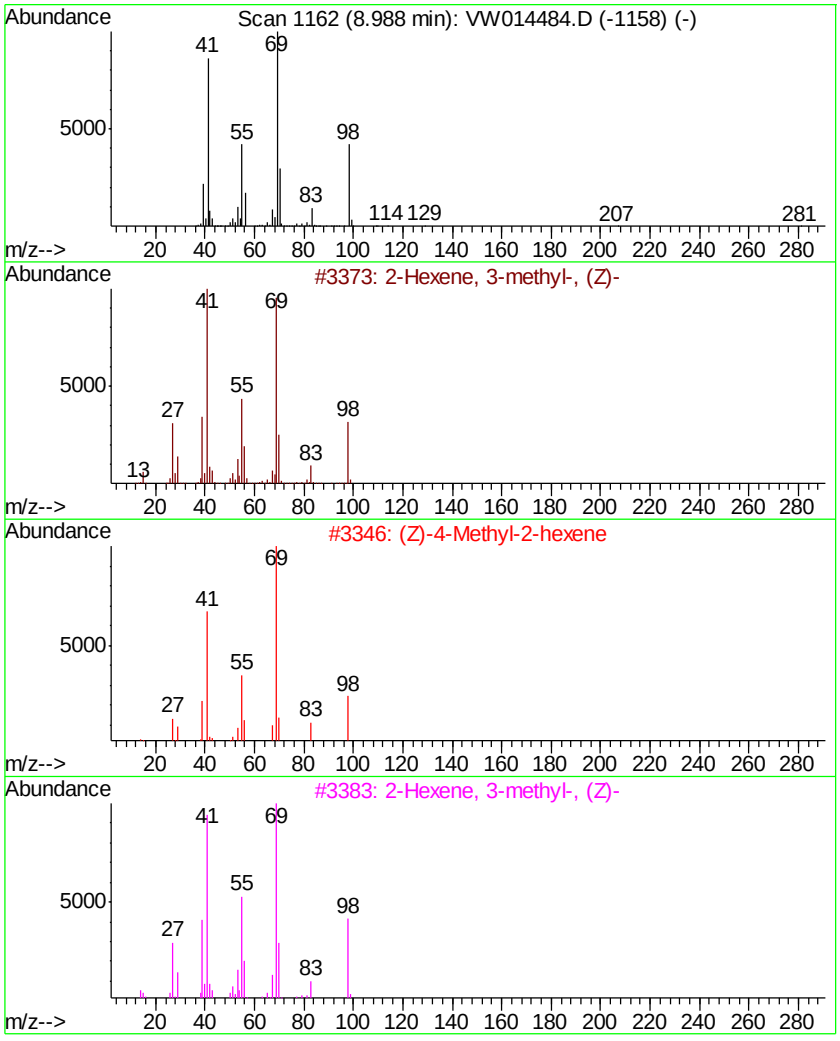
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

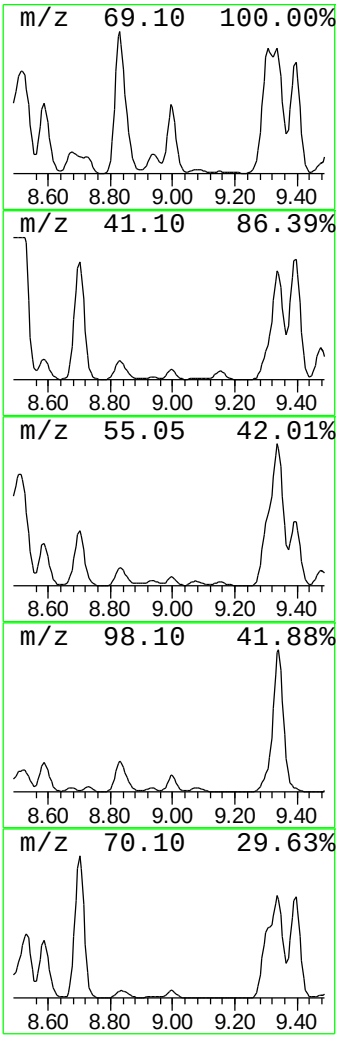
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 (DEL) Alkane: Cyclic8.99 Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.99	6.97 ug/L	5898880	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	94
2	(Z)-4-Methyl-2-hexene	98	C7H14	003683-19-0	80
3	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	78
4	2-Hexene, 2-methyl-	98	C7H14	002738-19-4	72
5	2-Hexene, 4-methyl-, (E)-	98	C7H14	003683-22-5	64





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

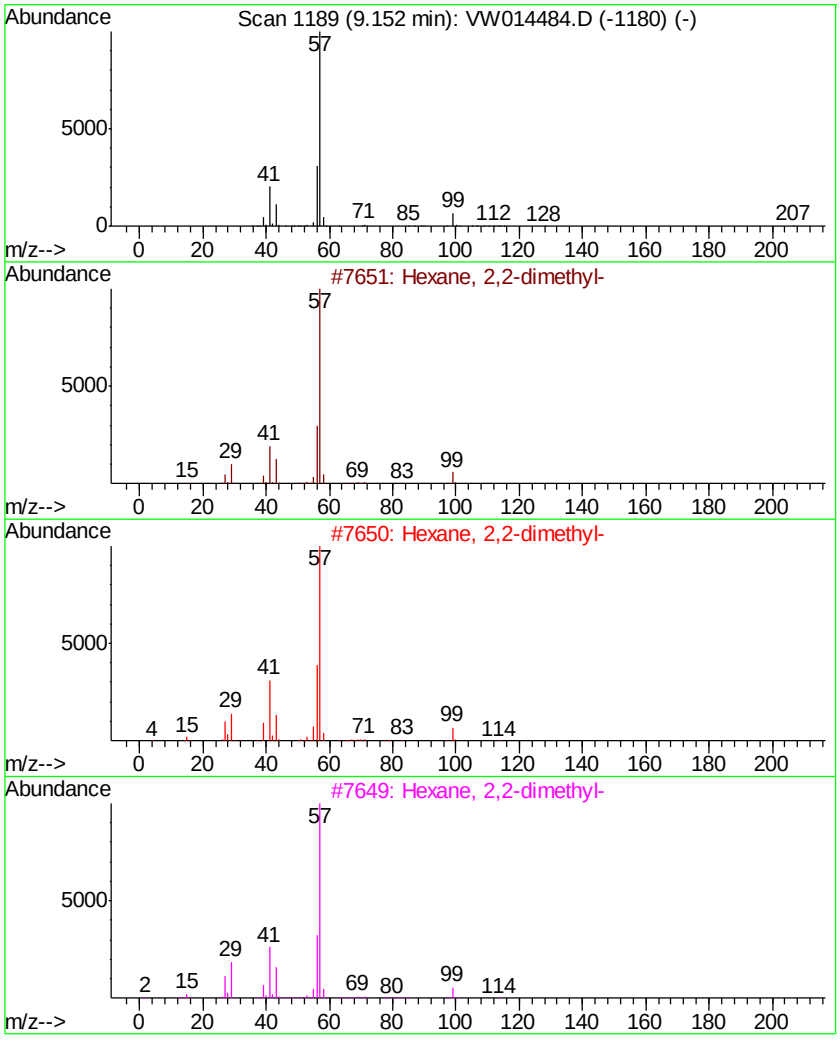
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

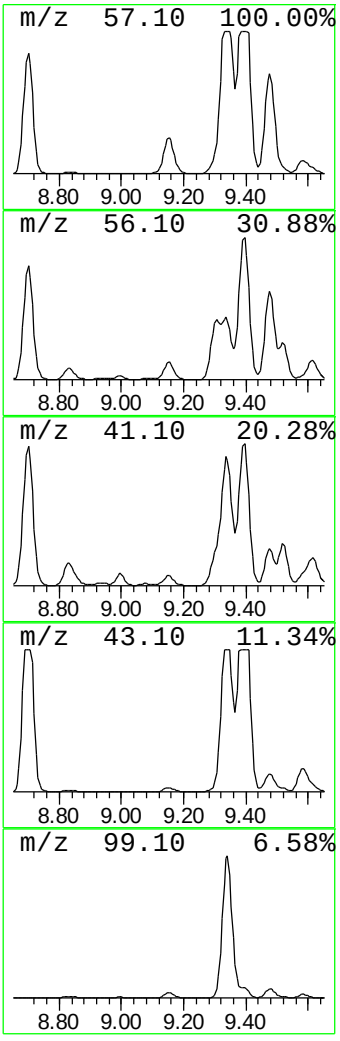
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.15	14.40 ug/L	12181900	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	64





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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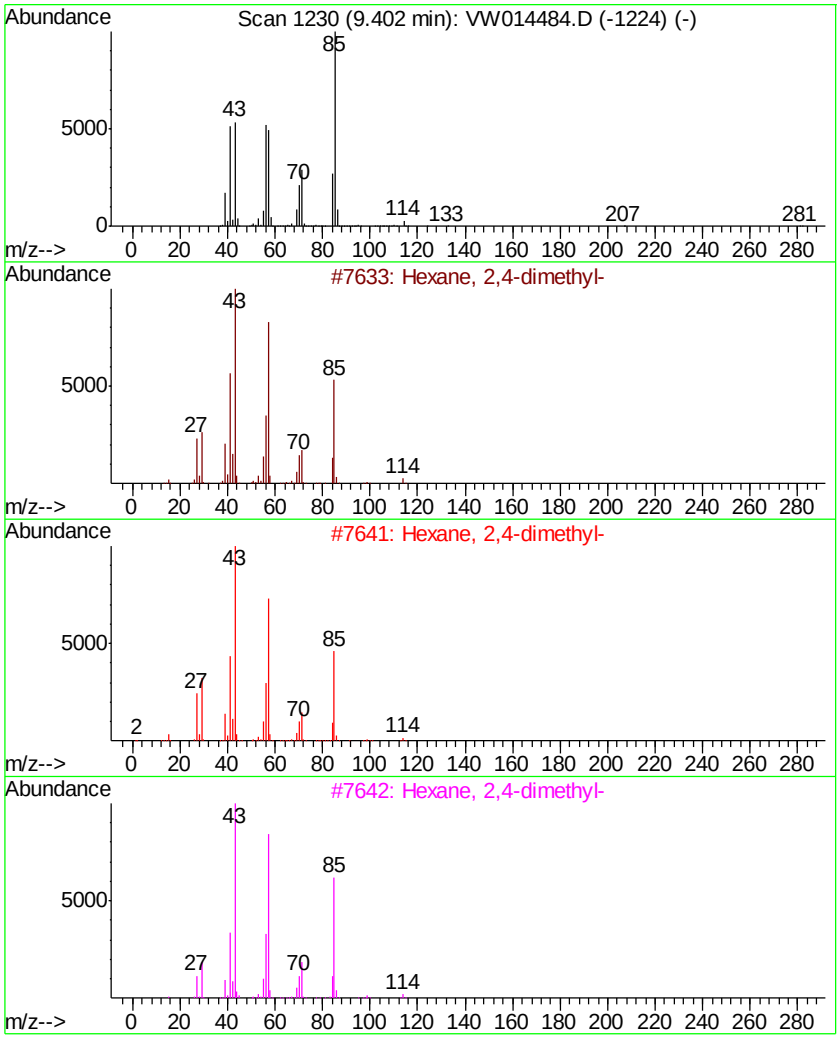
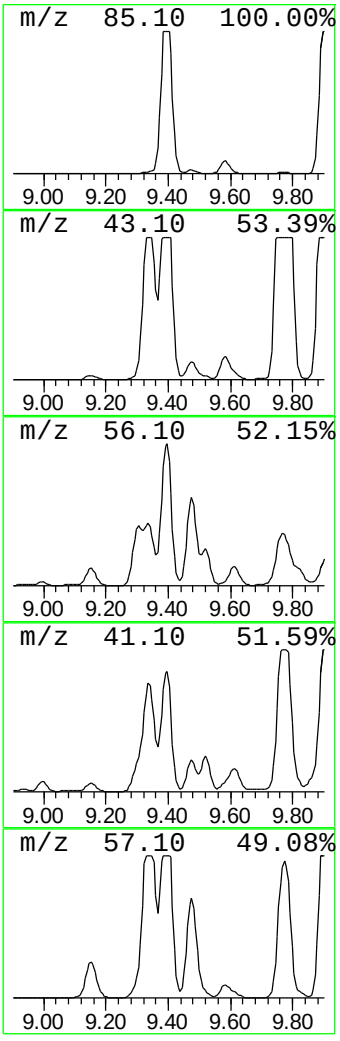
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	179.66 ug/L	152027000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	90
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	86
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
5	2H-Pyran, tetrahydro-2-[(tetrahy...	186	C10H18O3	000710-14-5	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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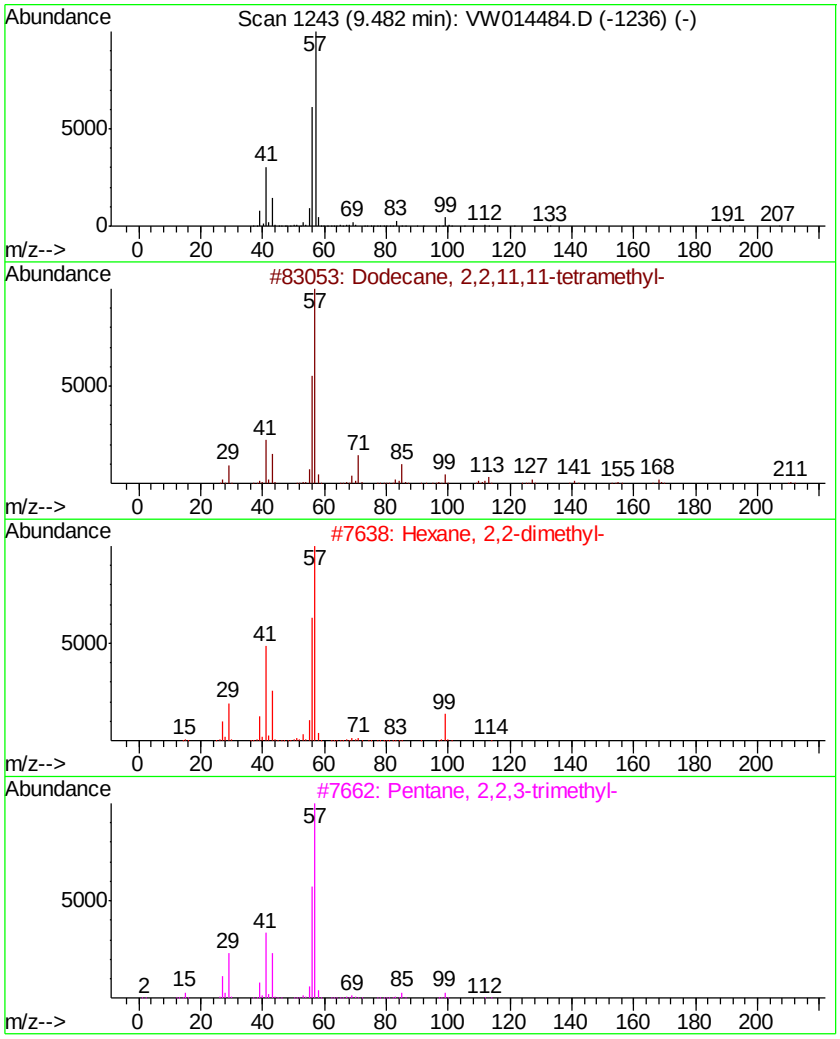
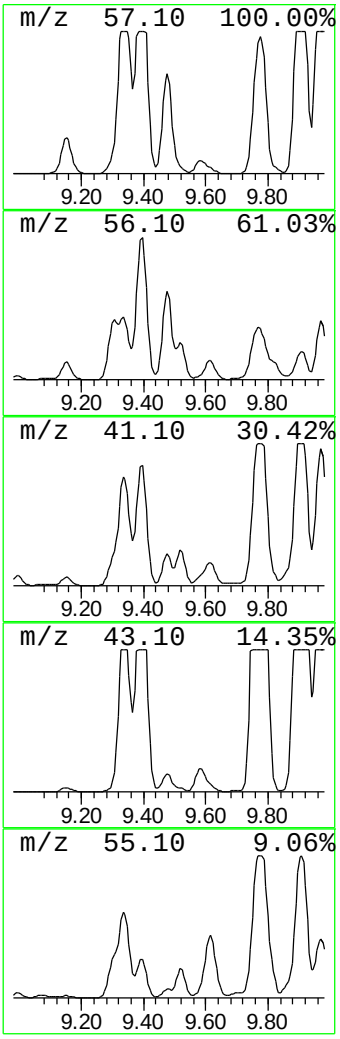
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.48	34.25 ug/L	28984200	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	72
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	56
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

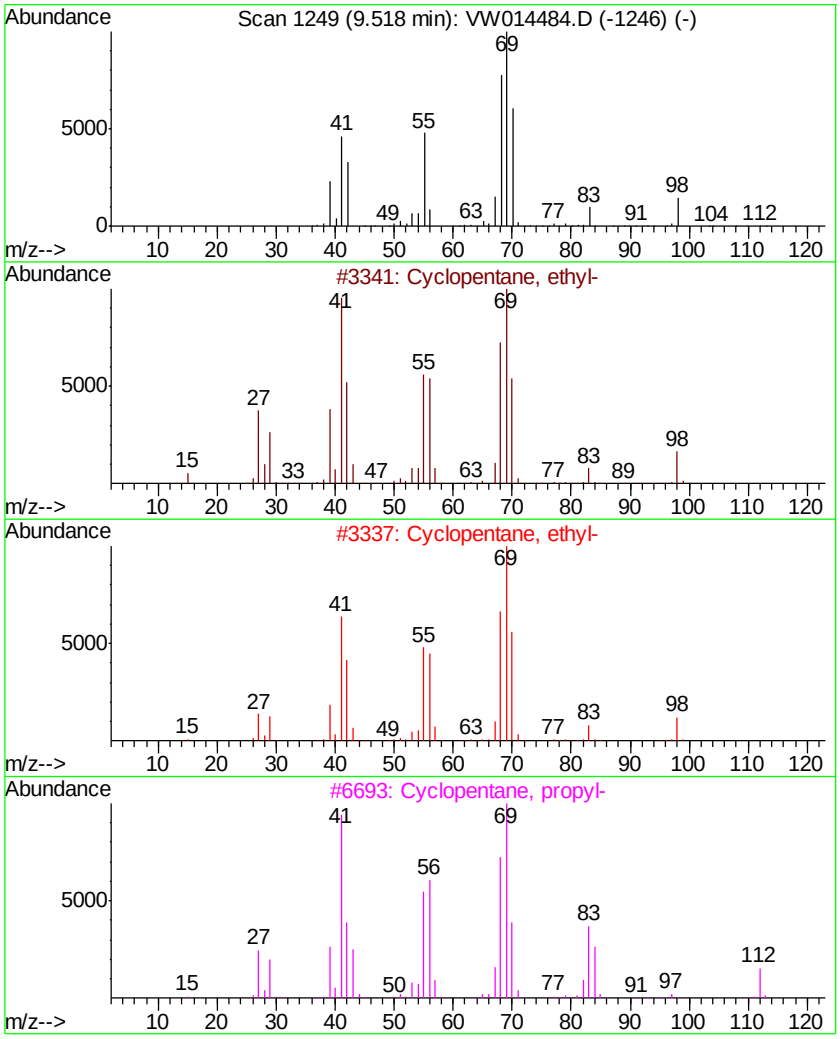
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

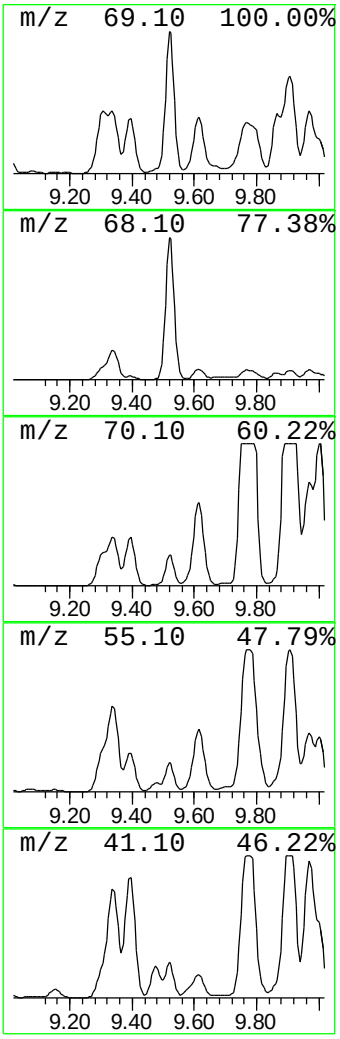
****

Peak Number 17 (DEL) Alkane: Cyclic9.52 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	33.59 ug/L	28424600	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	81
3	Cyclopentane, propyl-	112	C8H16	002040-96-2	50
4	Cyanamide, dimethyl-	70	C3H6N2	001467-79-4	43
5	Cyclopentanone, 3-methyl-	98	C6H10O	001757-42-2	38





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

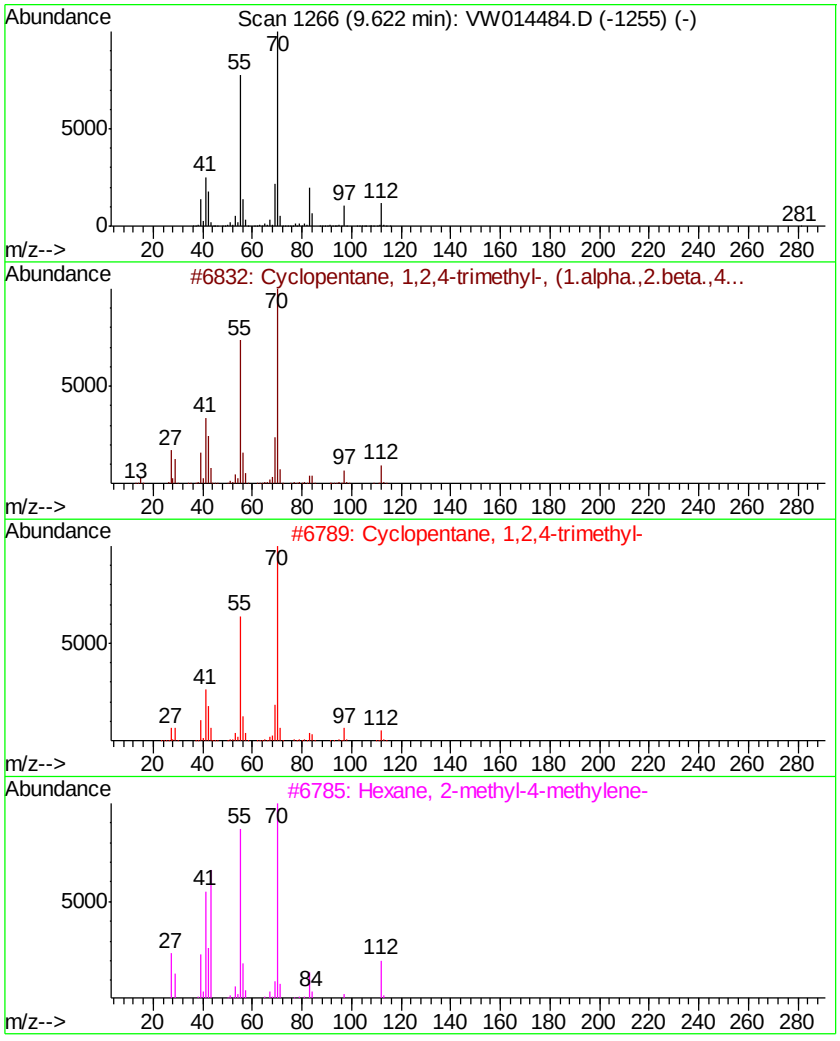
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

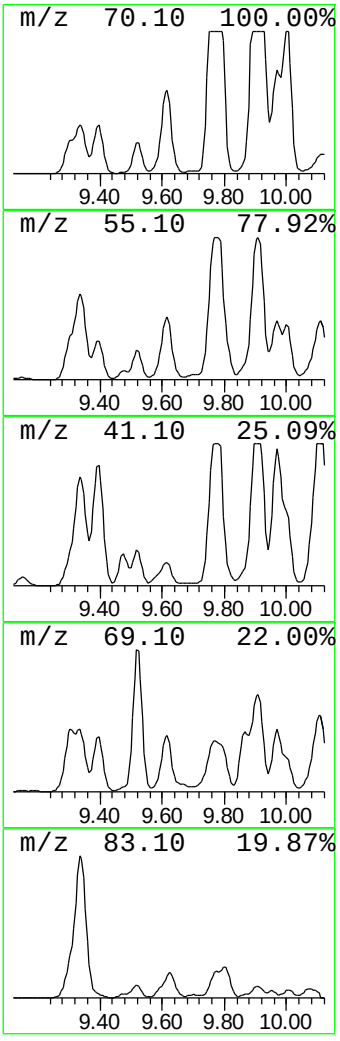
****

Peak Number 18 (DEL) Alkane: Cyclic9.62 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.62	58.58 ug/L	49565800	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	91
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
3	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	90
4	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	90
5	Heptane, 3-methylene-	112	C8H16	001632-16-2	86





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

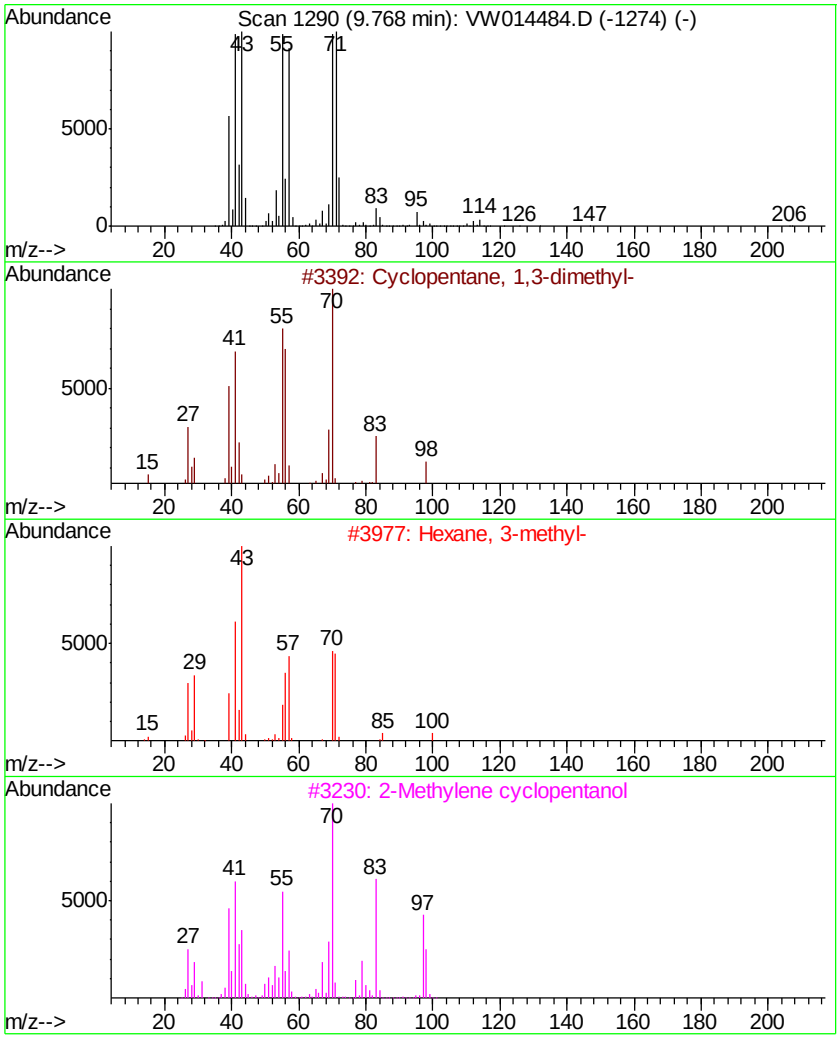
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

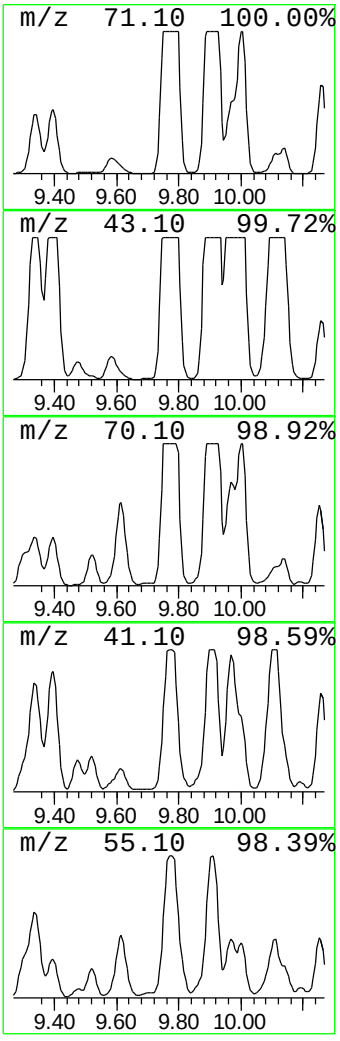
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 (DEL) Alkane: Cyclic9.77 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.77	363.27 ug/L	307398000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	47
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	40
3	2-Methylene cyclopentanol	98	C6H10O	020461-31-8	38
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	37
5	Nonane, 3-methylene-	140	C10H20	051655-64-2	35





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

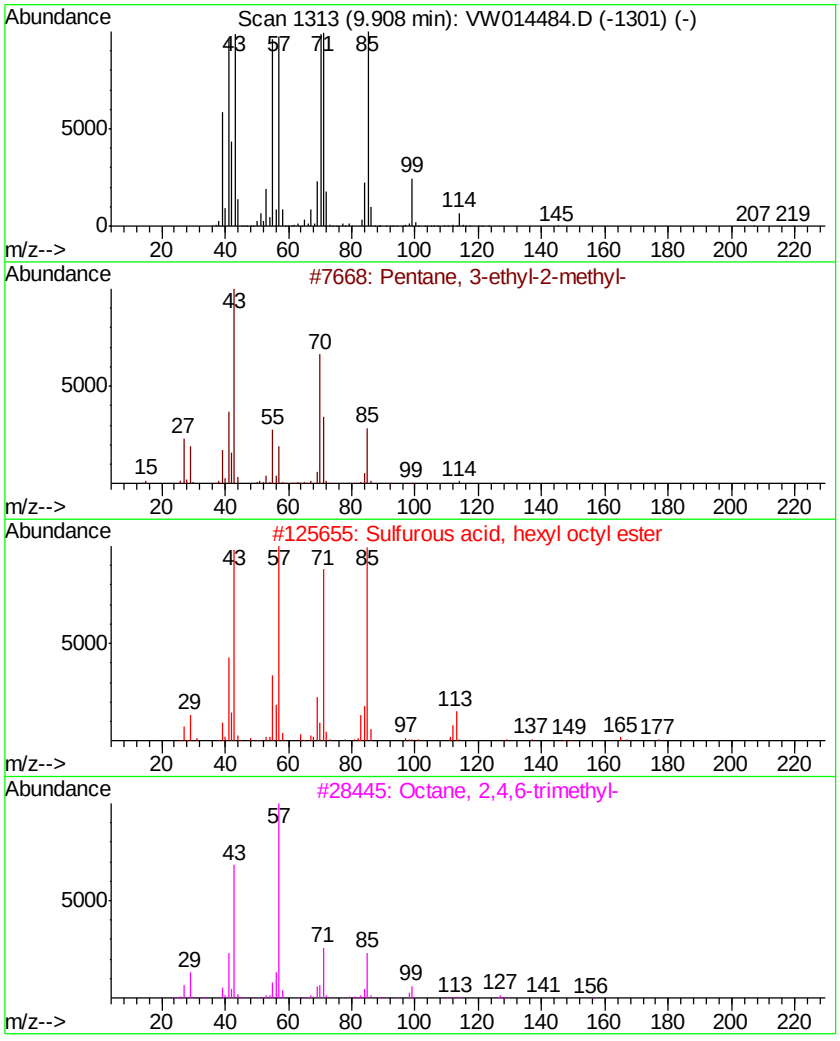
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

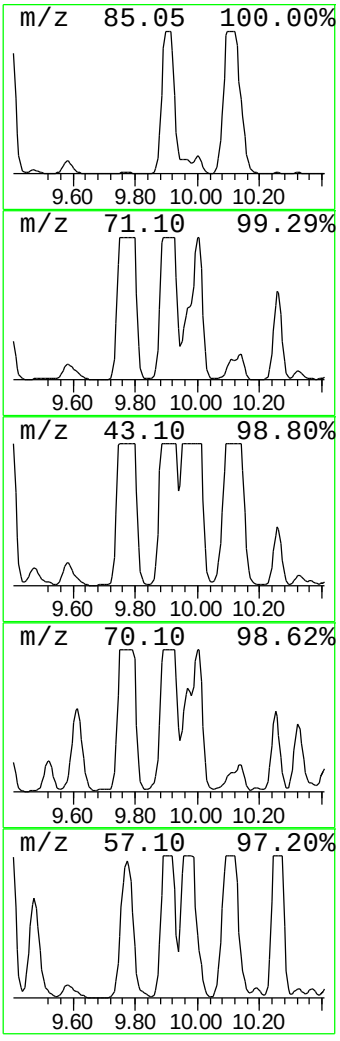
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.91	364.55 ug/L	308475000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-ethyl-2-methyl-	114	C8H18	000609-26-7	52
2	Sulfurous acid, hexyl octyl ester	278	C14H30O3S	1000309-13-0	50
3	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	50
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	47
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	47





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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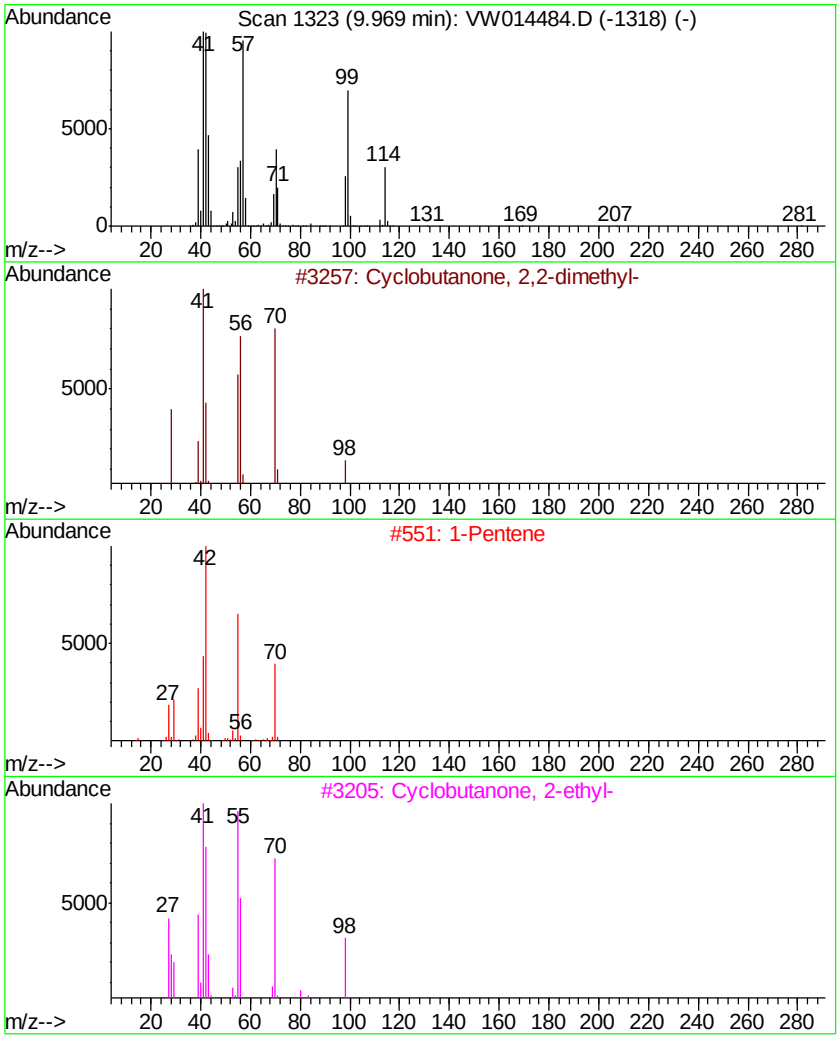
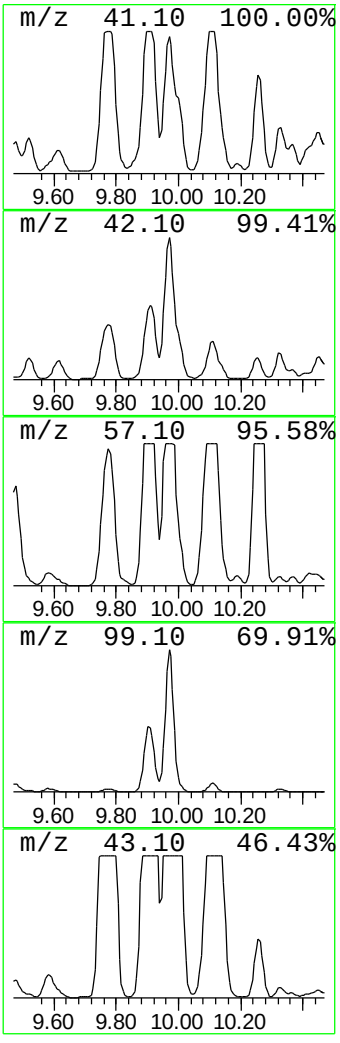
Peak Number 21 unknown-01 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.97	124.63 ug/L	105461000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutanone, 2,2-dimethyl-	98	C6H10O	001192-14-9	46
2	1-Pentene	70	C5H10	000109-67-1	43
3	Cyclobutanone, 2-ethyl-	98	C6H10O	010374-14-8	43
4	2-Piperidinone	99	C5H9NO	000675-20-7	40
5	2-Piperidinone	99	C5H9NO	000675-20-7	37





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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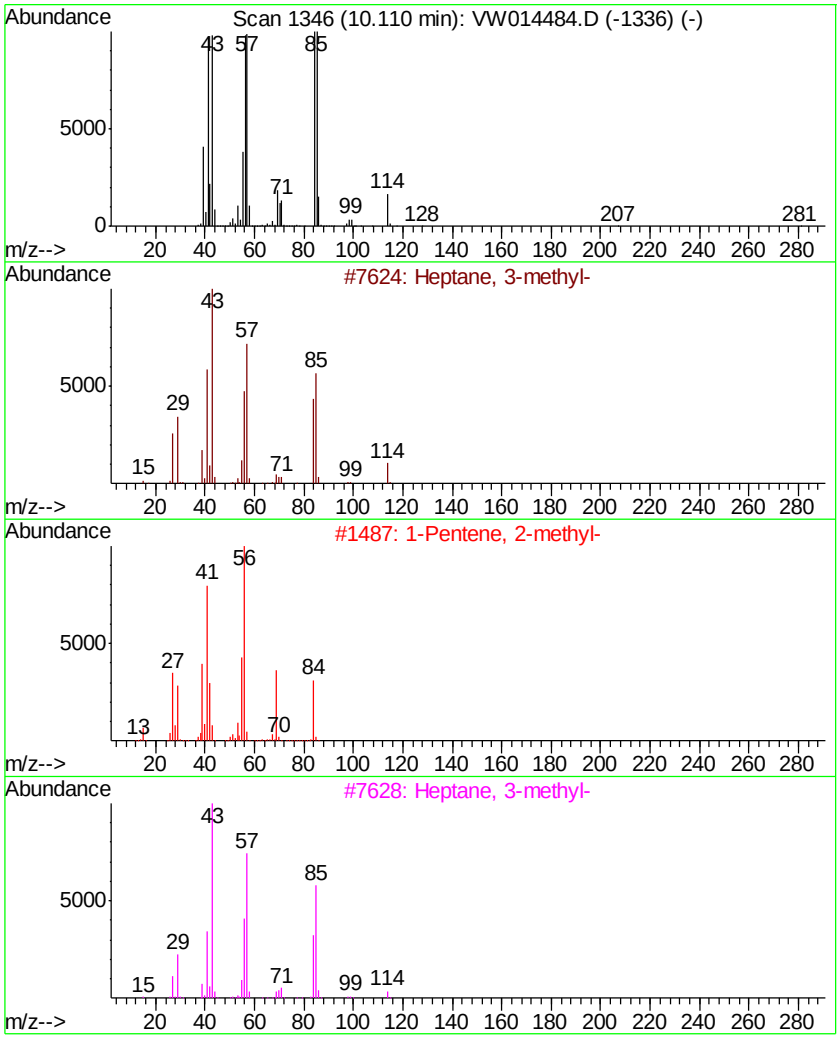
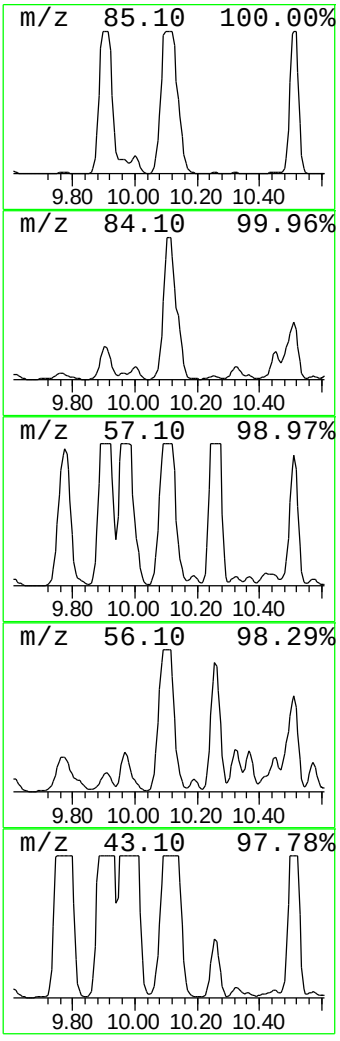
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.11	312.83 ug/L	264713000	1,4-Difluorobenzene	8.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	72
2	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	47
3	Heptane, 3-methyl-	114	C8H18	000589-81-1	47
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	38
5	Cyclohexane	84	C6H12	000110-82-7	38





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

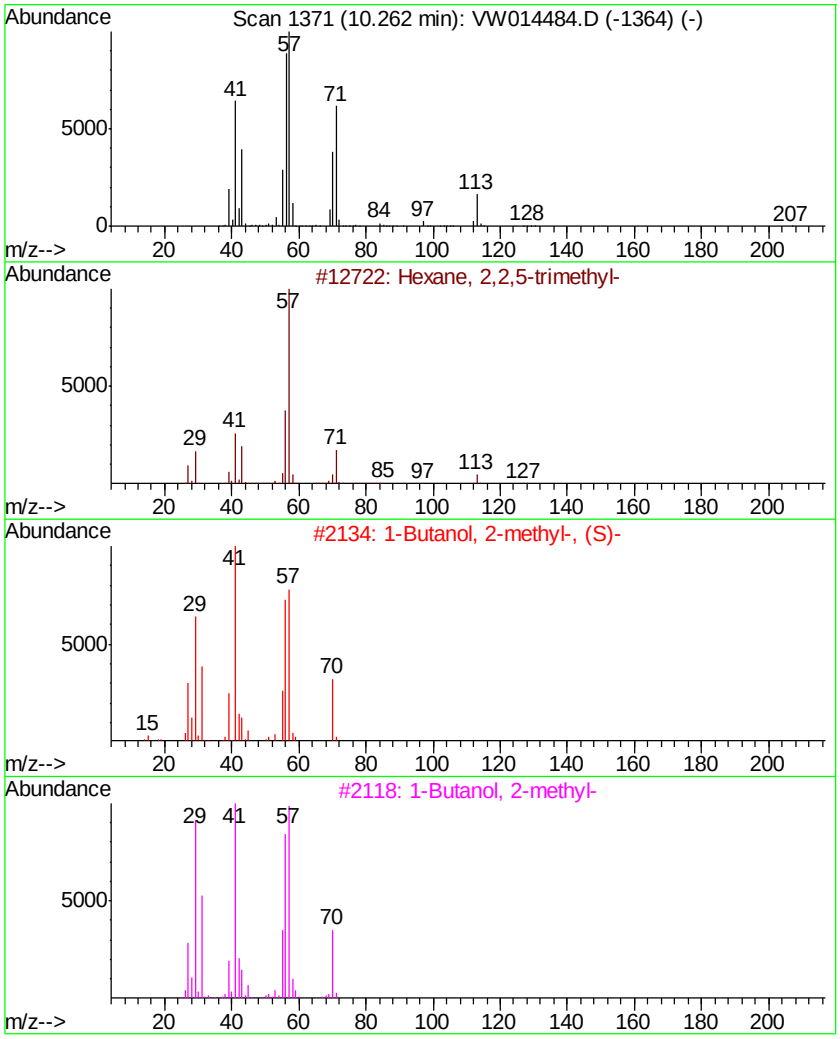
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

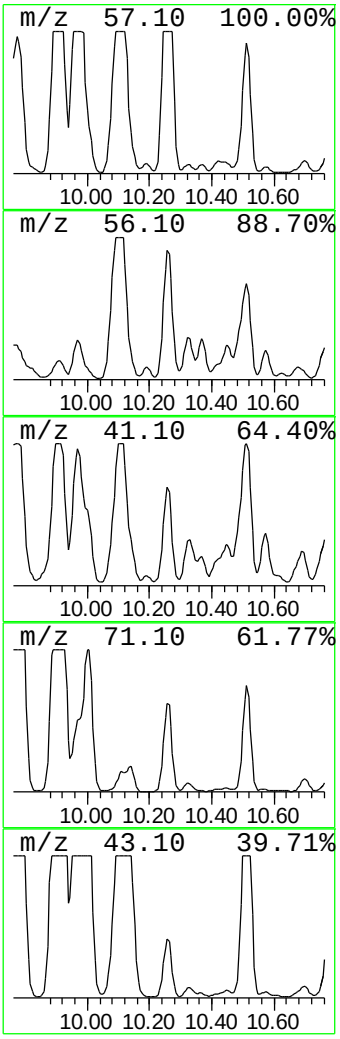
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.26	28.55 ug/L	101155000	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	53
2	1-Butanol, 2-methyl-, (S)-	88	C5H12O	001565-80-6	50
3	1-Butanol, 2-methyl-	88	C5H12O	000137-32-6	50
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	50
5	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	47





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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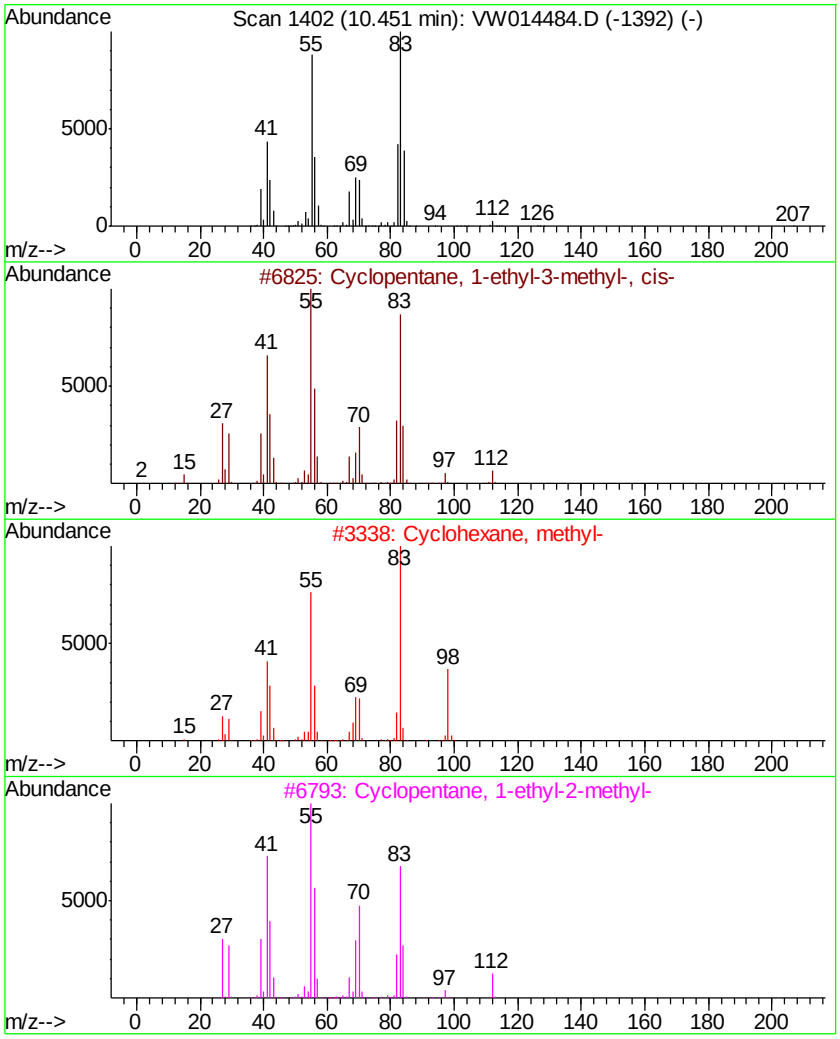
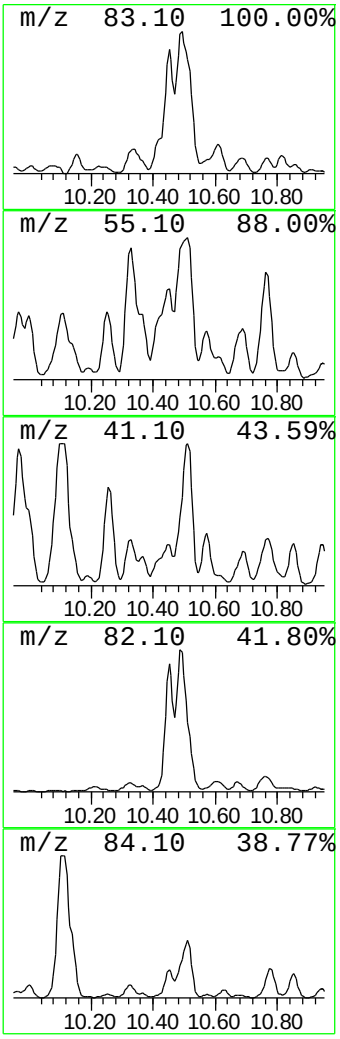
Peak Number 24 (DEL) Alkane: Cyclic10.45 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.45	15.42 ug/L	54654100	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-ethyl-3-methyl-,...	112	C8H16	002613-66-3	83
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	53
3	Cyclopentane, 1-ethyl-2-methyl-	112	C8H16	003726-46-3	50
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	50
5	6-Oxabicyclo[3.1.0]hexane	84	C5H8O	000285-67-6	43





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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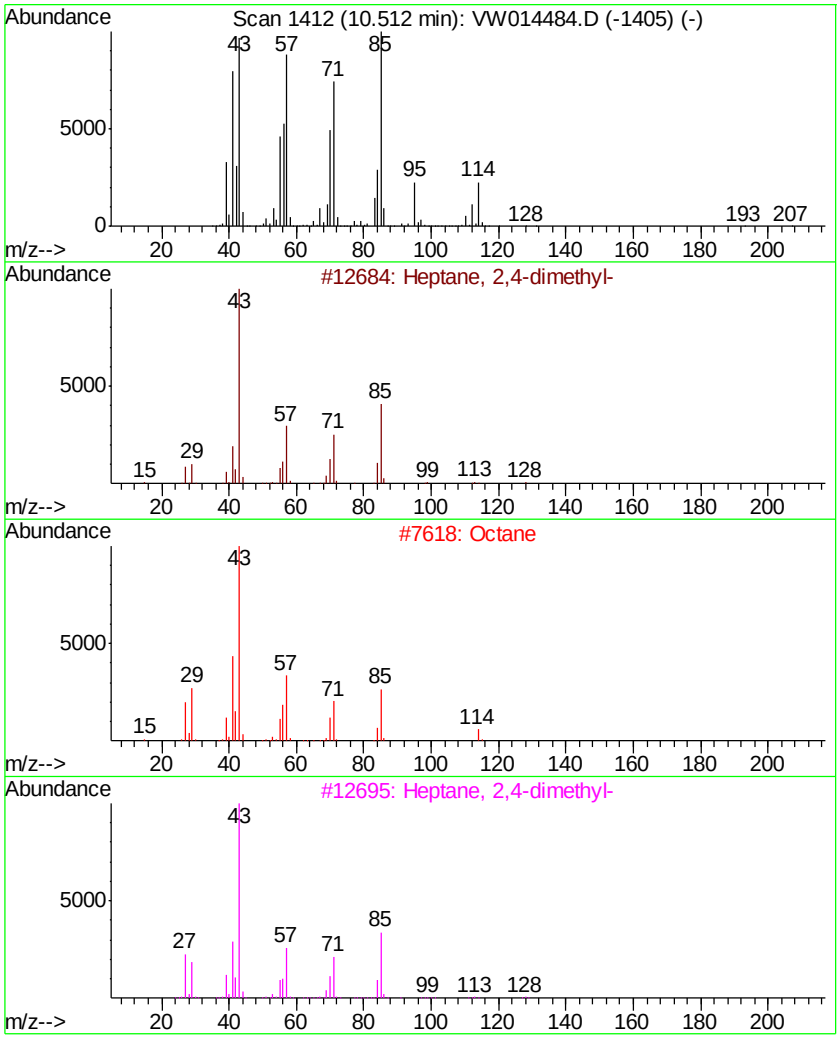
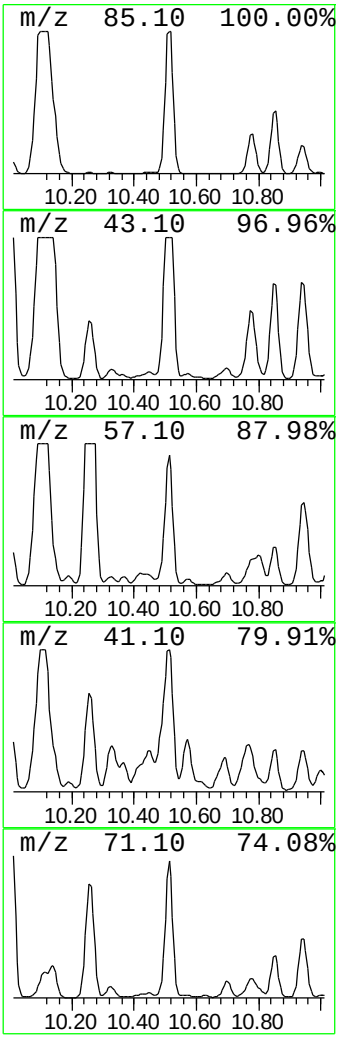
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.51	55.43 ug/L	196396000	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
2	Octane	114	C8H18	000111-65-9	59
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	50
4	3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	43
5	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	43





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Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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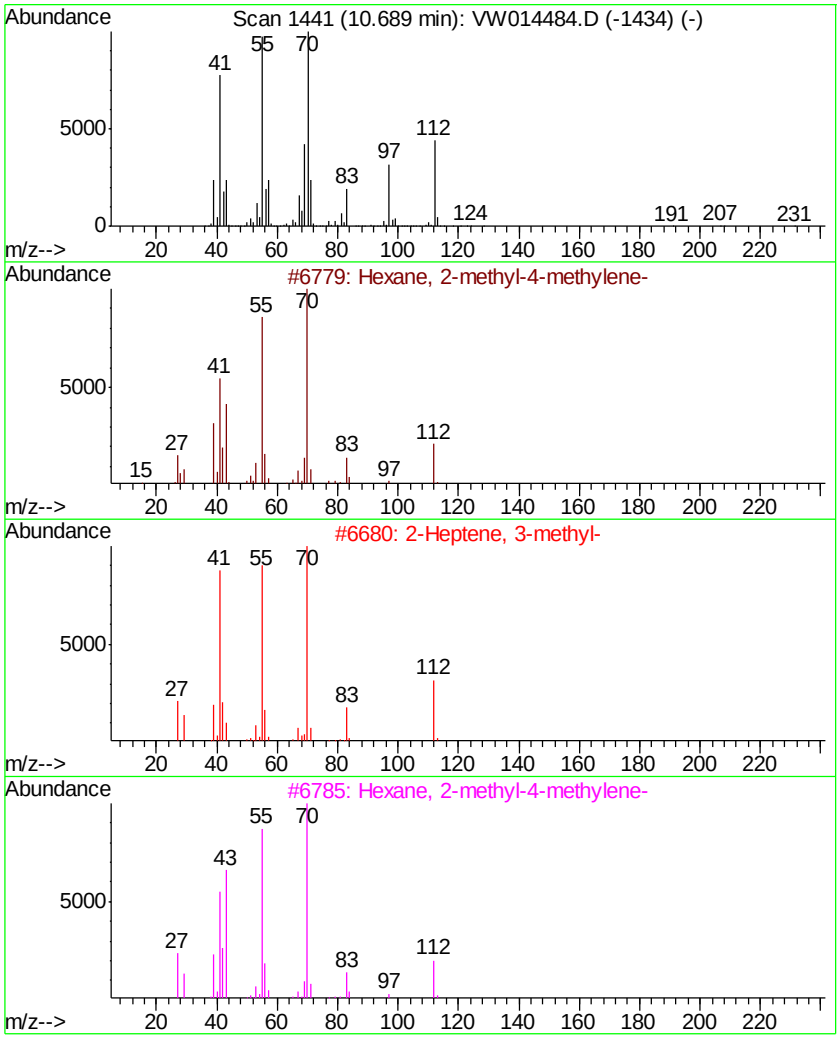
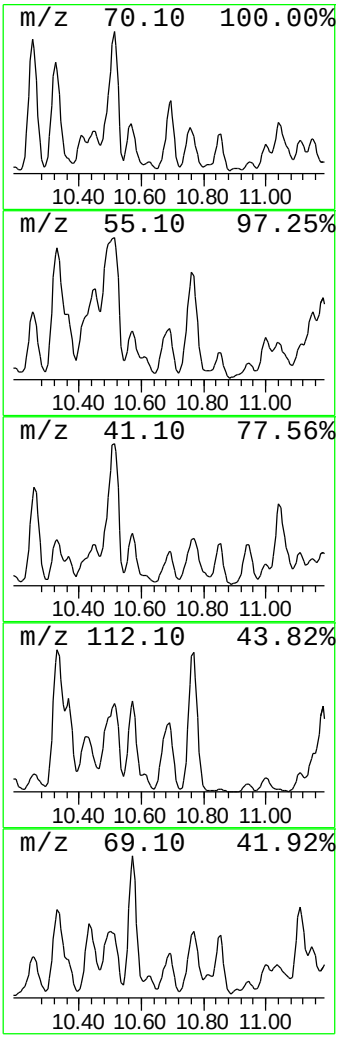
Peak Number 26 (DEL) Alkane: Cyclic10.69 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.69	10.96 ug/L	38826000	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	83
2	2-Heptene, 3-methyl-	112	C8H16	003404-75-9	72
3	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	64
4	trans-1-Butyl-2-methylcyclopropane	112	C8H16	038851-70-6	64
5	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	59





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Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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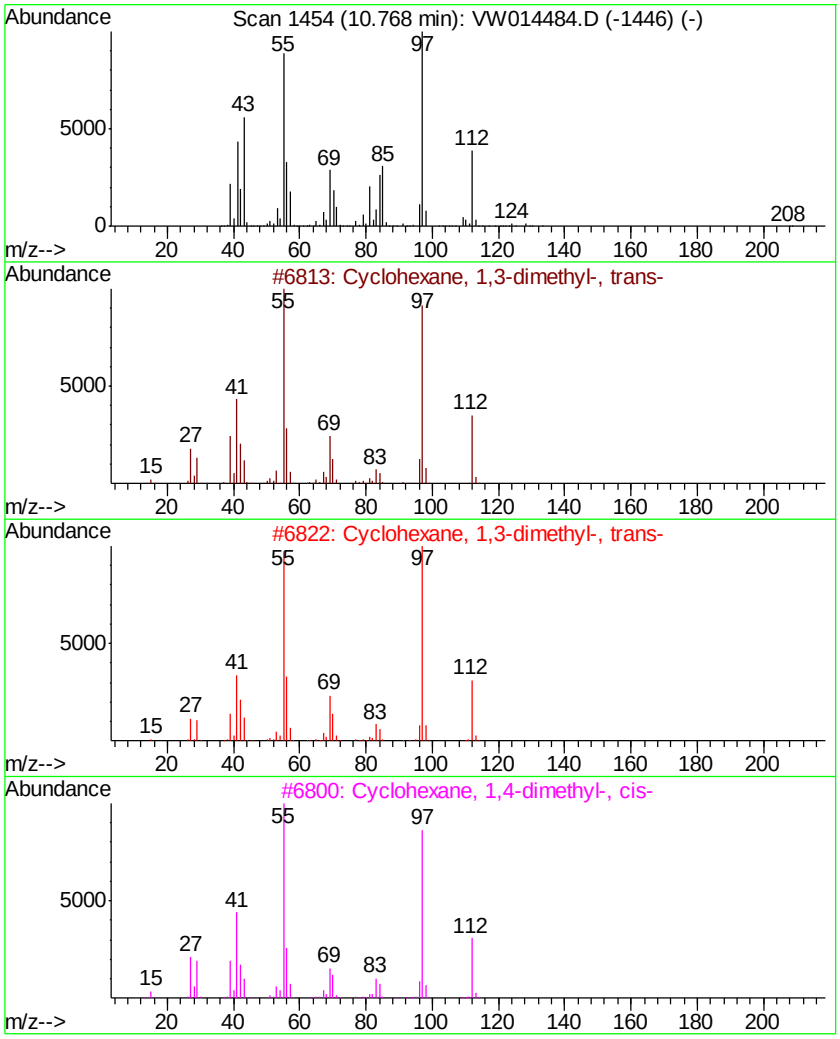
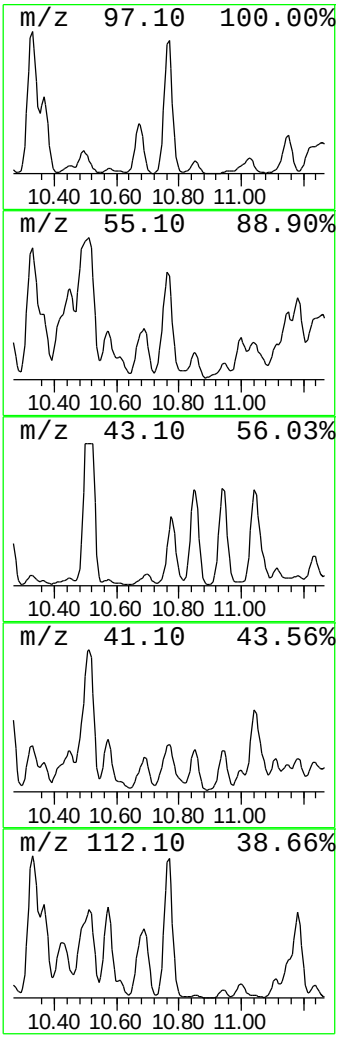
Peak Number 27 (DEL) Alkane: Cyclic10.77 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	28.93 ug/L	102518000	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	93
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	93
3	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	81
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	81
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	81





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

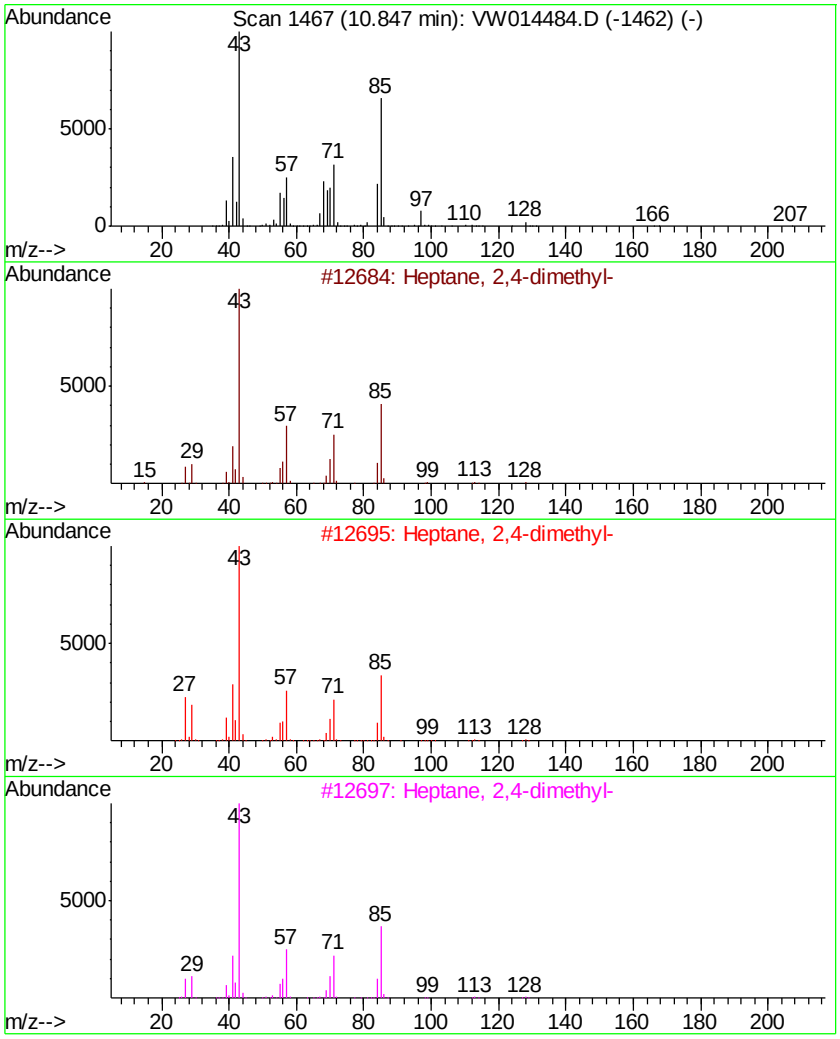
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

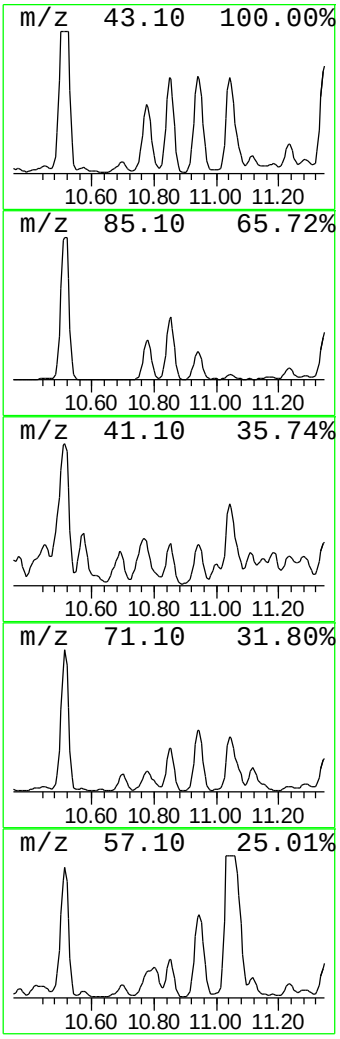
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	15.45 ug/L	54735900	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Octane, 4-methyl-	128	C9H20	002216-34-4	58
5	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

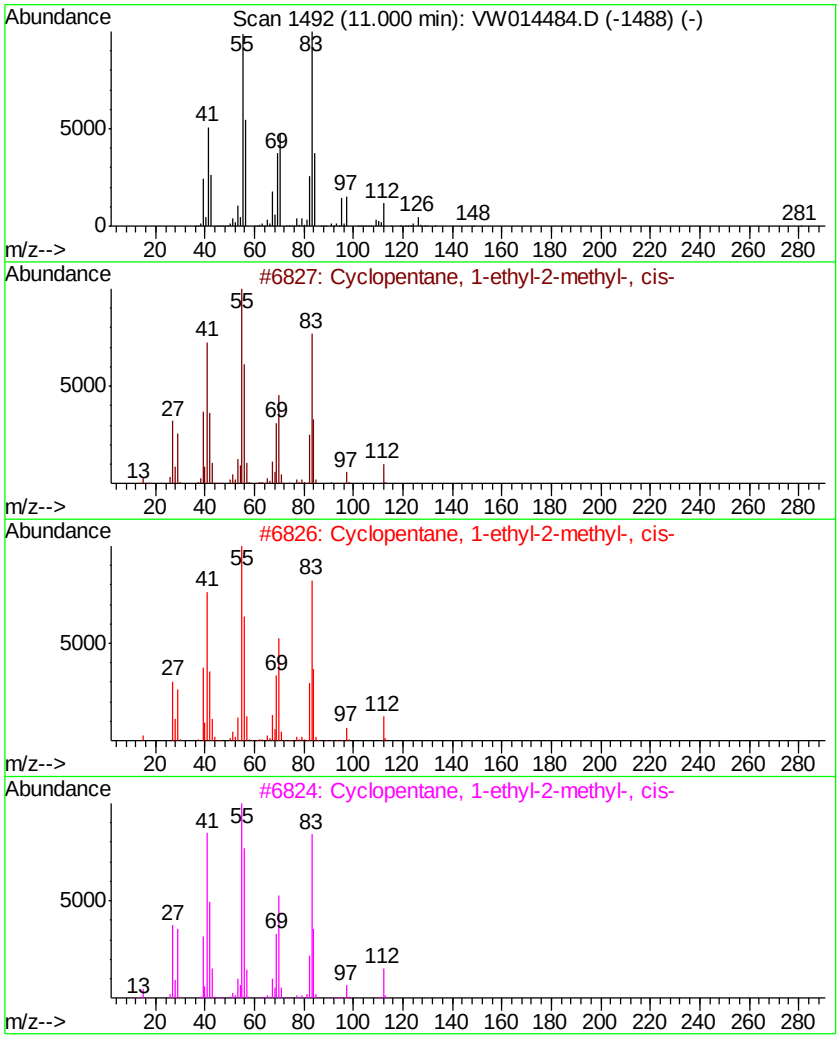
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

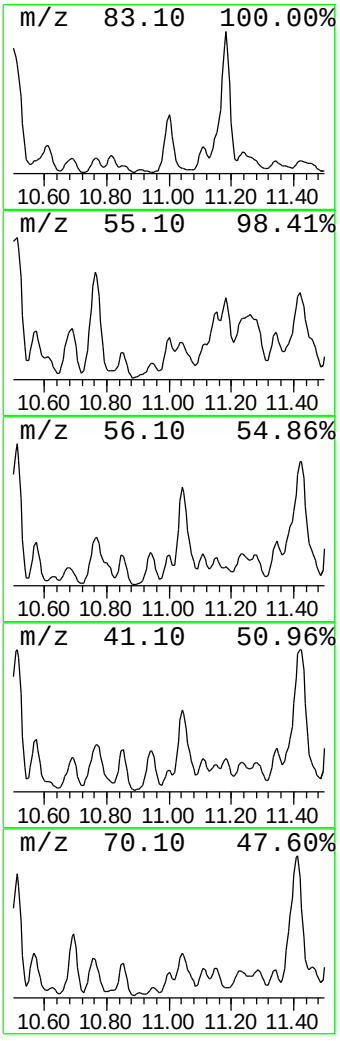
****

Peak Number 29 (DEL) Alkane: Cyclic11.00 Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	4.51 ug/L	15976500	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-ethyl-2-methyl-,...	112	C8H16	000930-89-2	91
2	Cyclopentane, 1-ethyl-2-methyl-,...	112	C8H16	000930-89-2	91
3	Cyclopentane, 1-ethyl-2-methyl-,...	112	C8H16	000930-89-2	91
4	1-Ethyl-2-(4-methylpentyl)cyclop...	182	C13H26	219726-60-0	78
5	Cyclopentane, 1-ethyl-3-methyl-	112	C8H16	003726-47-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

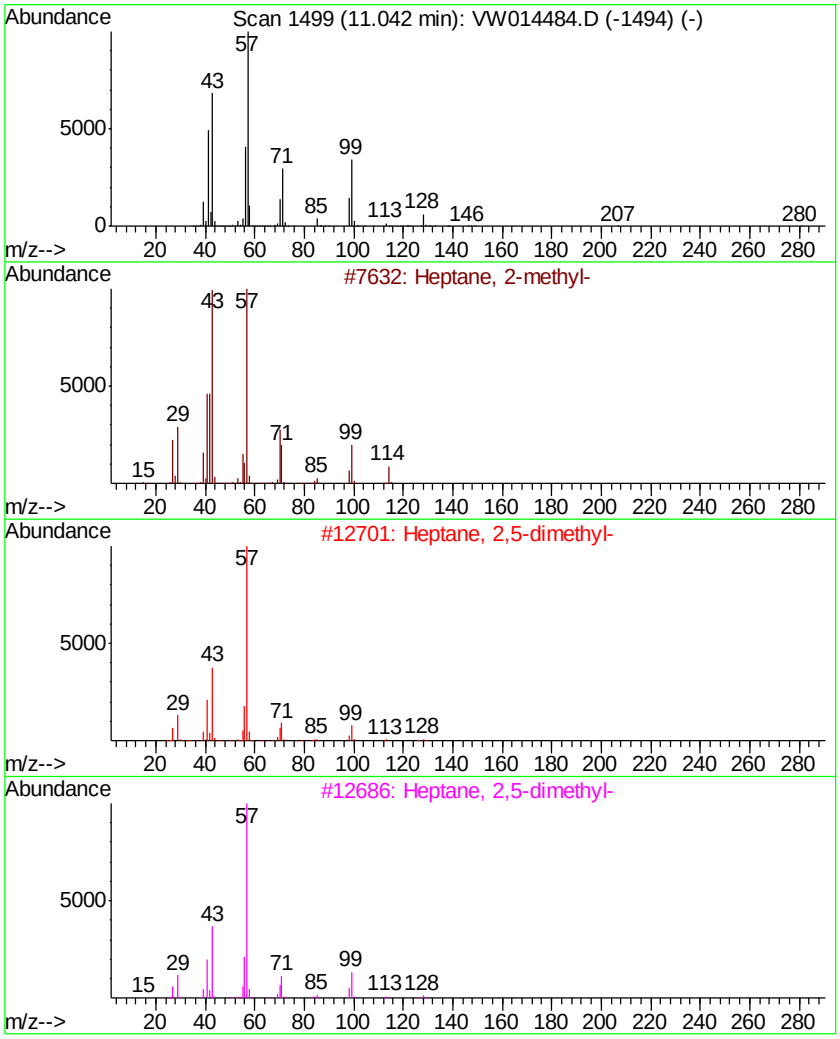
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

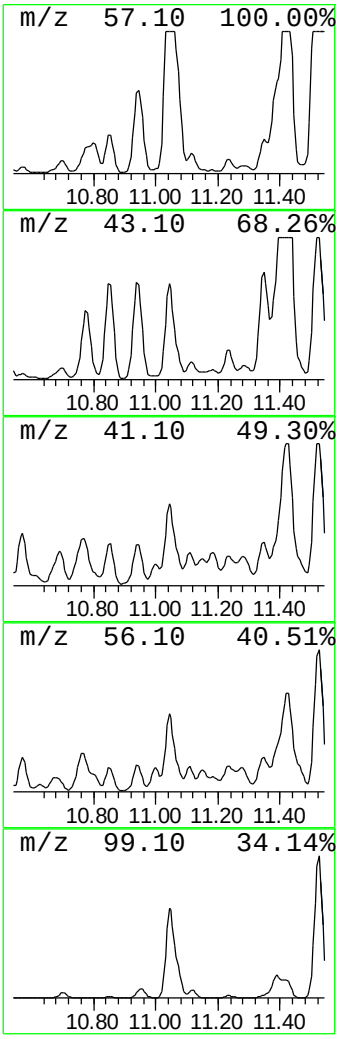
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.04	20.70 ug/L	73334000	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	47
2	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	46
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	43
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	43
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	42





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

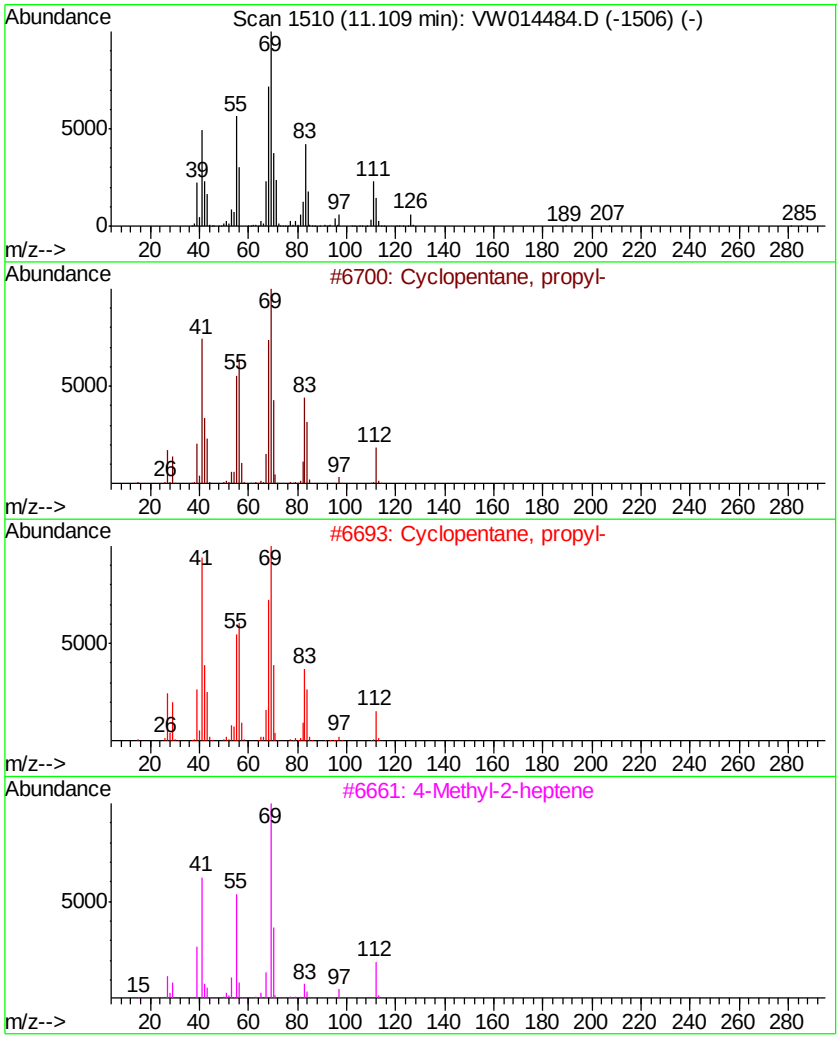
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

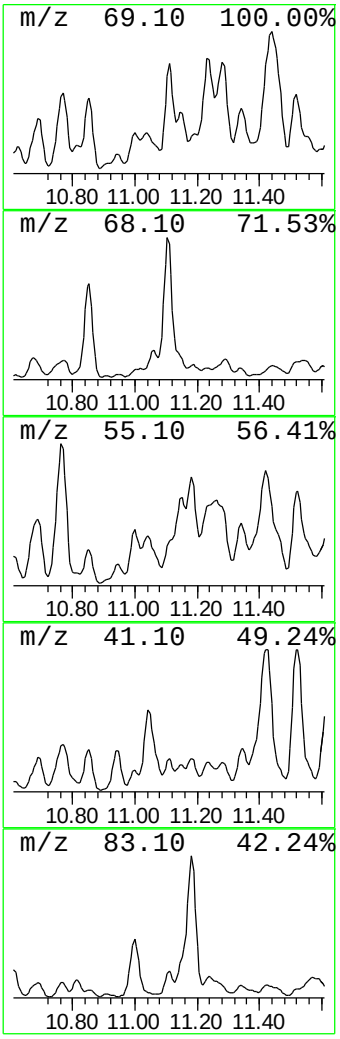
****

Peak Number 31 (DEL) Alkane: Cyclic11.11 Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	4.54 ug/L	16074300	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, propyl-	112	C8H16	002040-96-2	58
2	Cyclopentane, propyl-	112	C8H16	002040-96-2	58
3	4-Methyl-2-heptene	112	C8H16	003404-56-6	41
4	2-Heptene, 4-methyl-, (E)-	112	C8H16	066225-17-0	38
5	Cyclopentane, 2-propenyl-	110	C8H14	003524-75-2	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

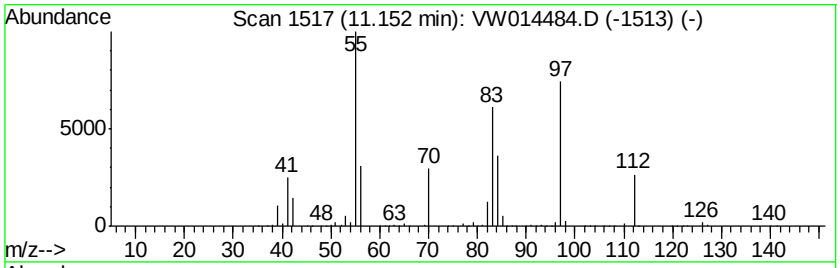
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

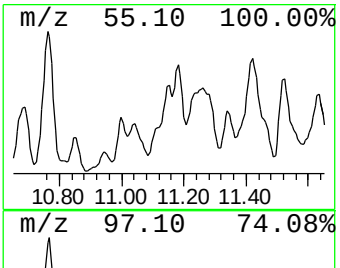
****

Peak Number 32 (DEL) Alkane: Cyclic11.15 Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	2.42 ug/L	8581840	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	58
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	50
3	1H-Pyrazole, 4,5-dihydro-3,5,5-t...	112	C6H12N2	003975-85-7	38
4	Cyclohexanone, 4-methyl-	112	C7H12O	000589-92-4	38
5	3-Hexene, 2,3-dimethyl-	112	C8H16	007145-23-5	35





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

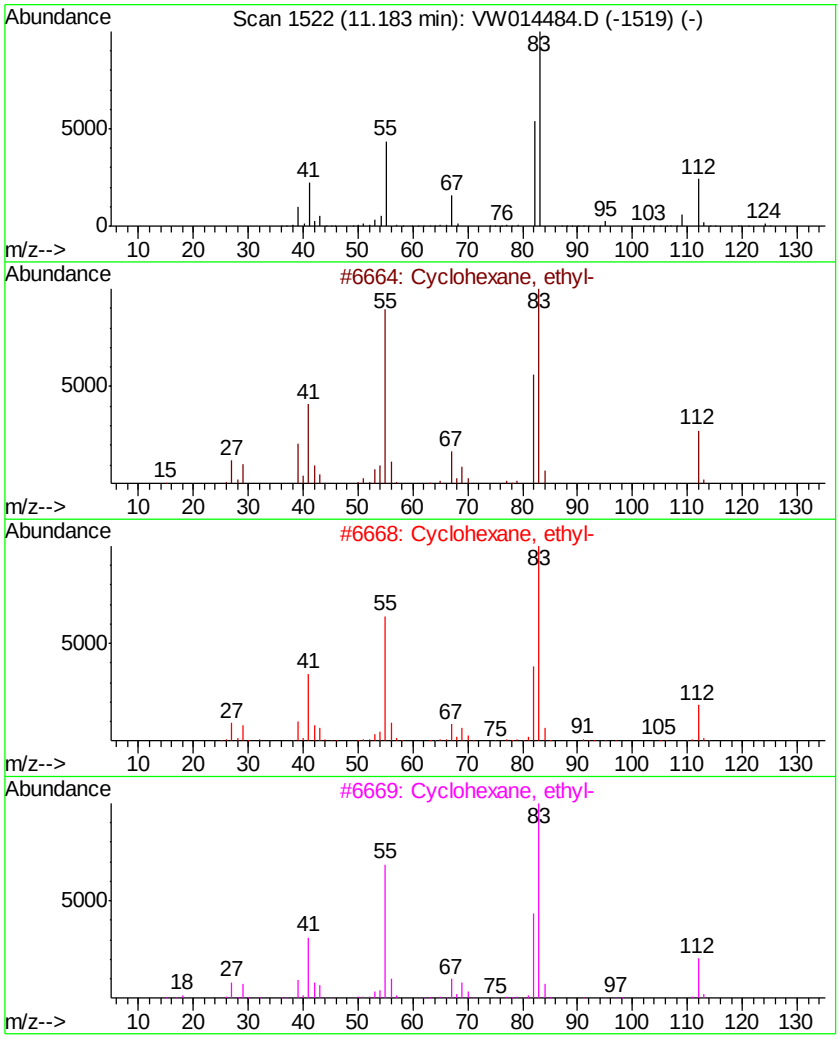
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

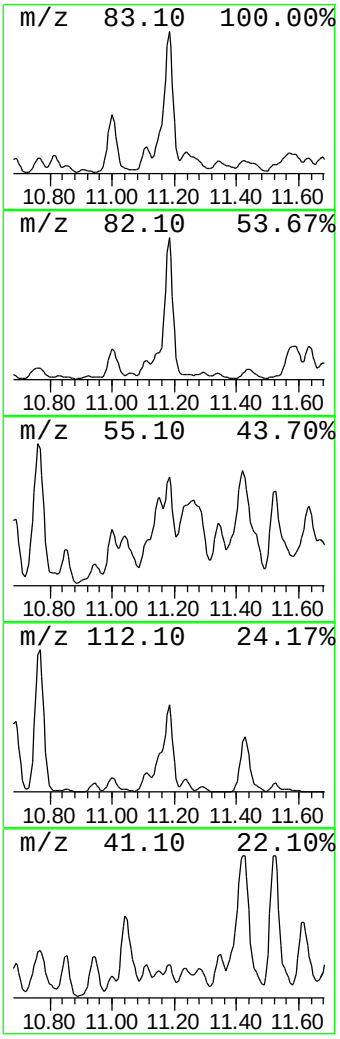
****

Peak Number 33 (DEL) Alkane: Cyclic11.18 Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	4.32 ug/L	15299200	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	83
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

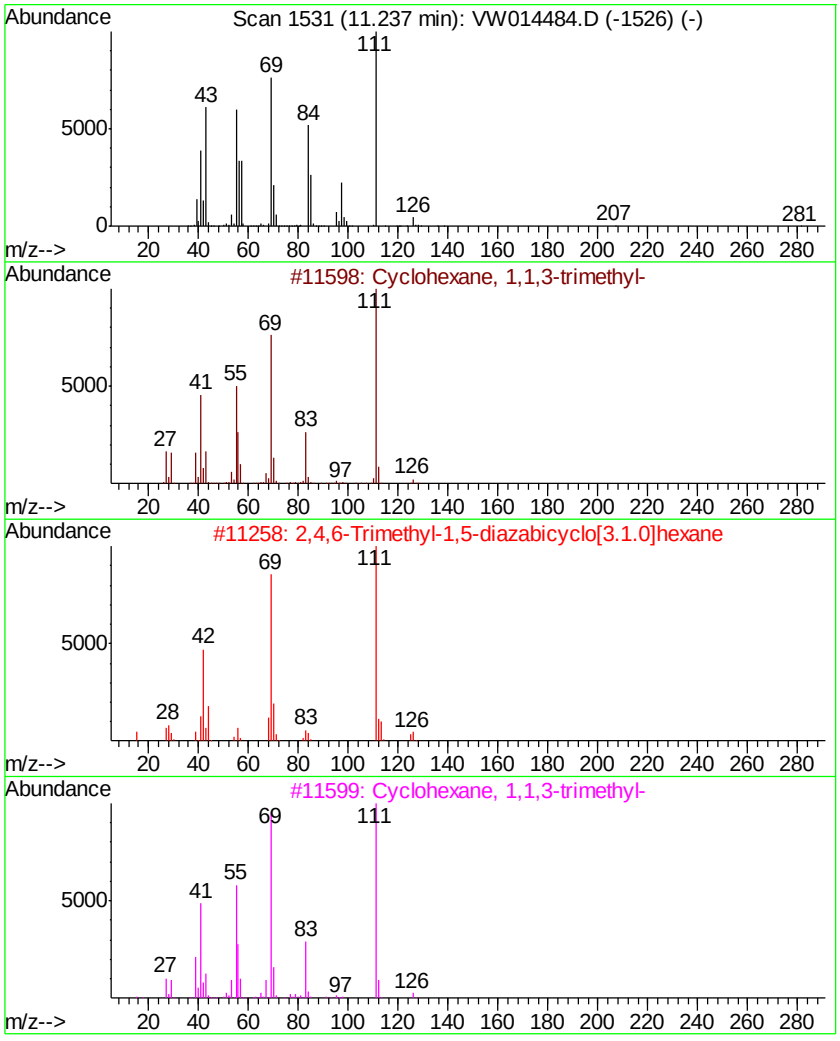
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

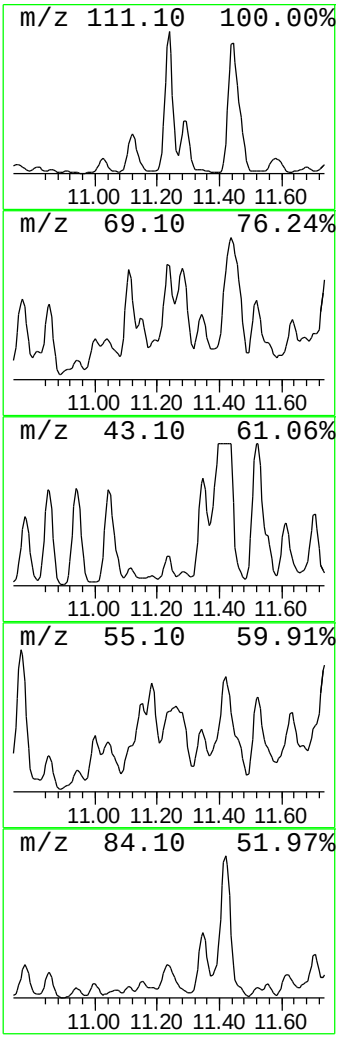
****

Peak Number 34 (DEL) Alkane: Cyclic11.24 Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	6.18 ug/L	21905500	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	52
2	2,4,6-Trimethyl-1,5-diazabicyclo...	126	C7H14N2	1000283-21-2	50
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	50
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	50
5	Cyclohexane, 1,4-dimethyl-2-octa...	364	C26H52	055282-02-5	40





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

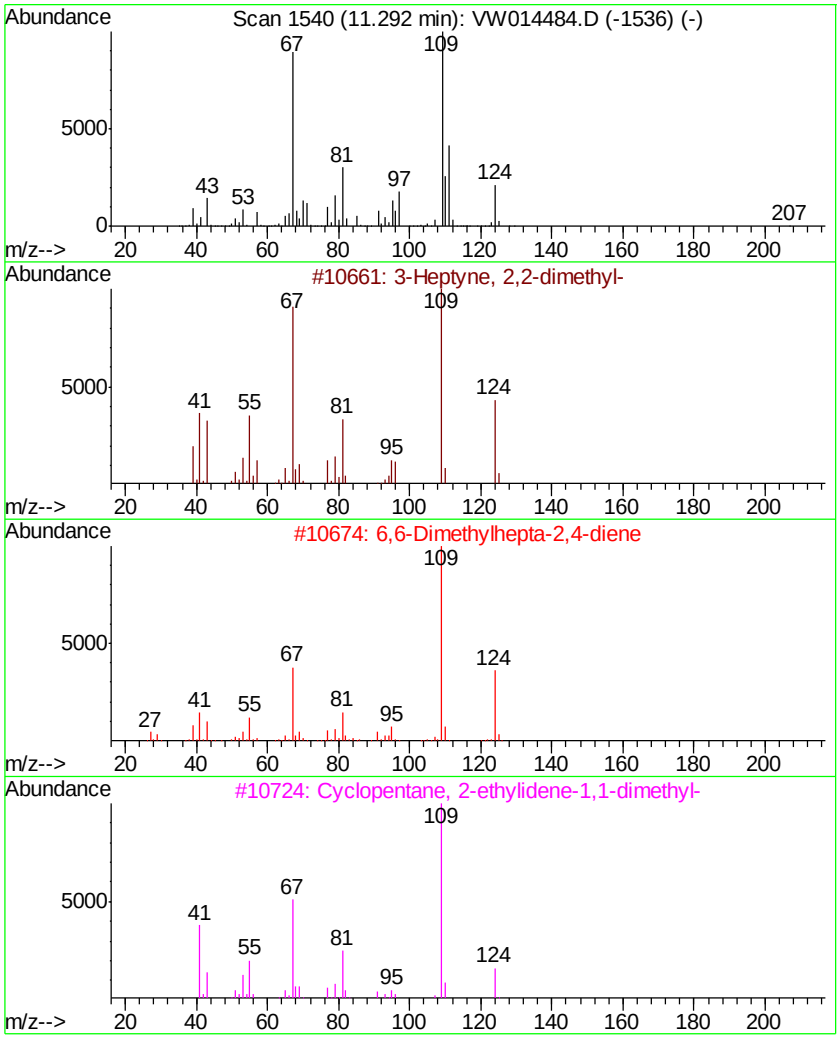
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

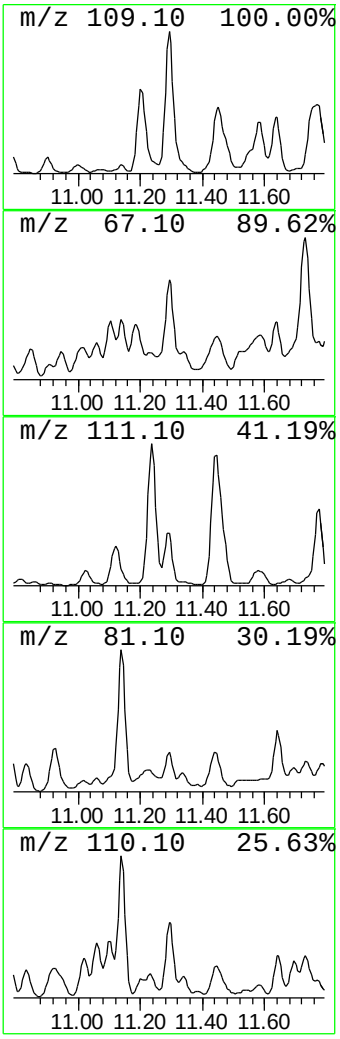
****

Peak Number 35 unknown-02 Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	6.21 ug/L	22019600	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptyne, 2,2-dimethyl-	124	C9H16	029022-29-5	47
2	6,6-Dimethylhepta-2,4-diene	124	C9H16	1000195-03-3	46
3	Cyclopentane, 2-ethylidene-1,1-d...	124	C9H16	056324-66-4	38
4	1-Cyclooctene, 3-bromo-	188	C8H13Br	1000163-39-0	32
5	Ketone, isopropylidenecyclopropy...	124	C8H12O	029765-67-1	22





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

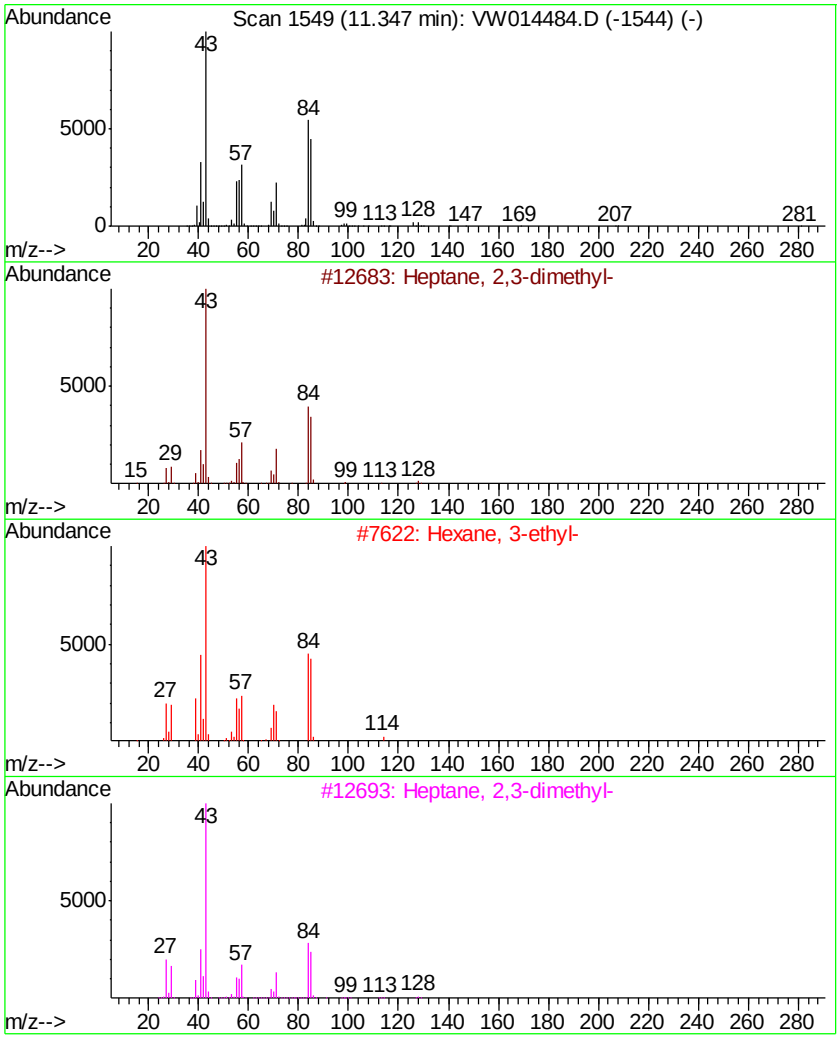
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

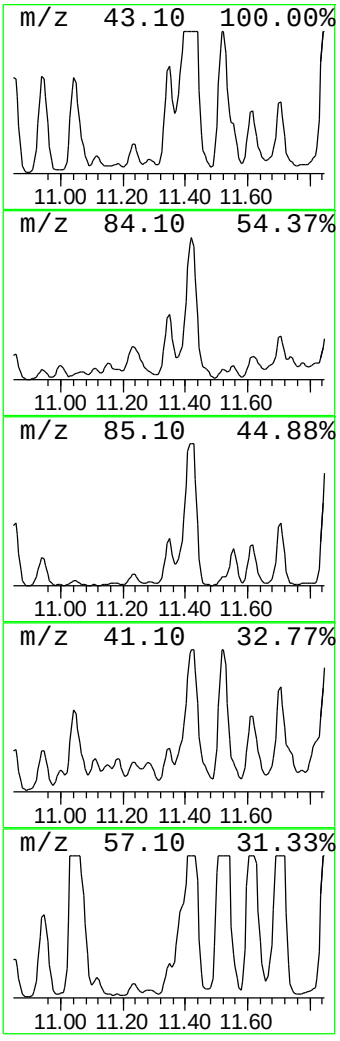
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 36 (DEL) Alkane: Straight-Chai... Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	11.55 ug/L	40922700	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	90
2	Hexane, 3-ethyl-	114	C8H18	000619-99-8	74
3	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	74
4	Decane, 5,6-dimethyl-	170	C12H26	001636-43-7	64
5	Decane, 5,6-dimethyl-	170	C12H26	001636-43-7	64





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

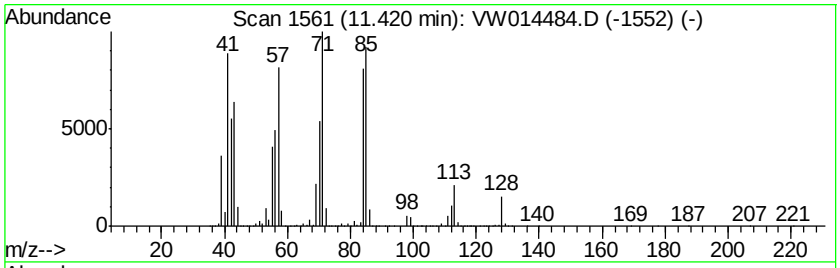
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

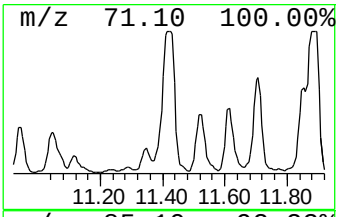
****

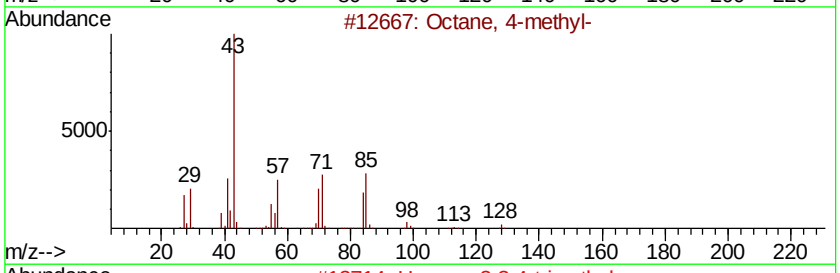
Peak Number 37 (DEL) Alkane: Straight-Chai... Concentration Rank 12

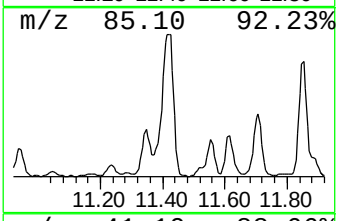
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.42	76.88 ug/L	272431000	Chlorobenzene-d5	11.63

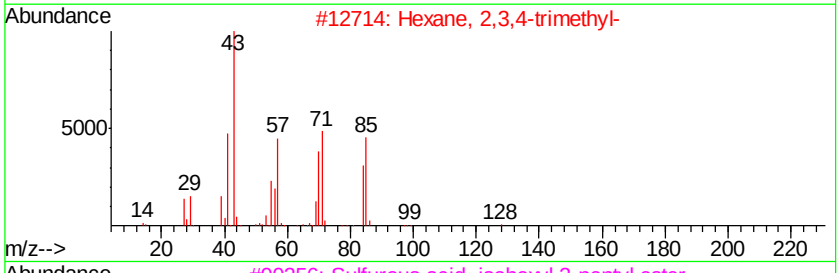
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	58
2	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	50
3	Sulfurous acid, isohexyl 2-pentyl...	236	C11H24O3S	1000309-15-5	47
4	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	38
5	Piperazine, 1,2,4-trimethyl-	128	C7H16N2	000120-85-4	38

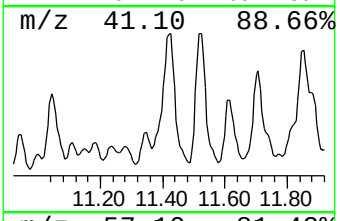


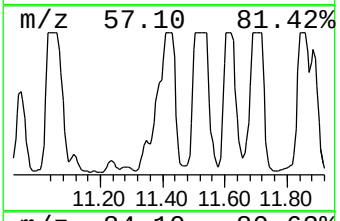


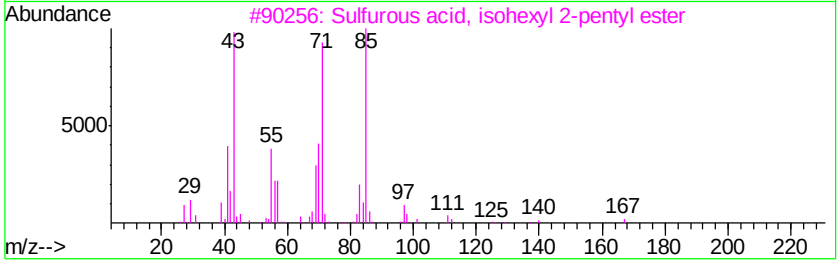


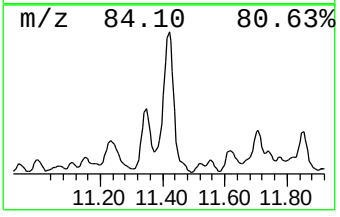












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

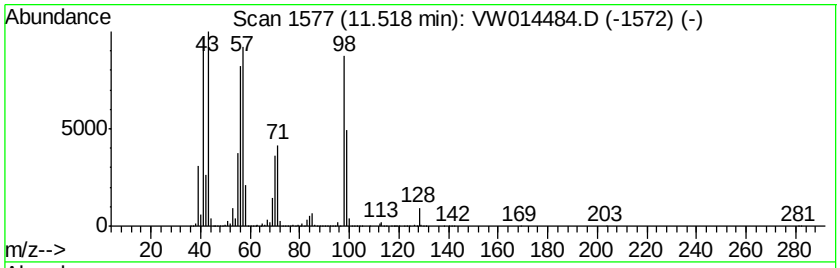
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

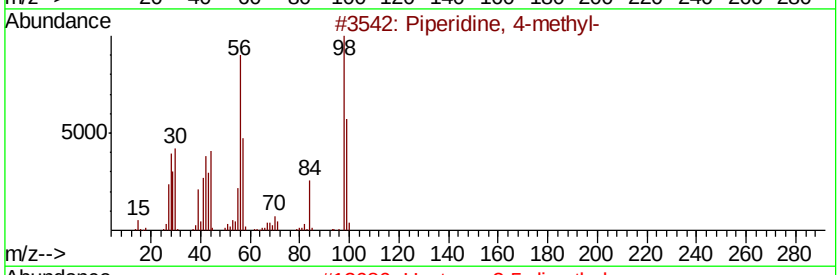
****

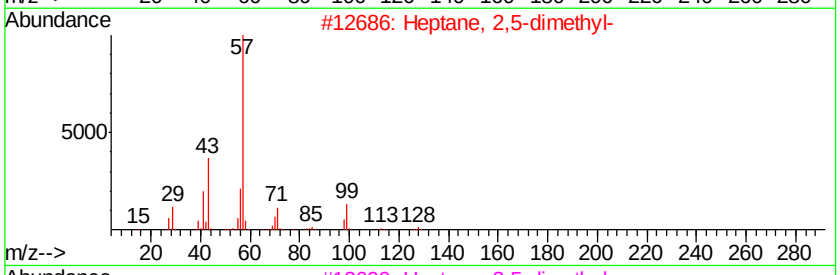
Peak Number 38 Piperidine, 4-methyl- Concentration Rank 18

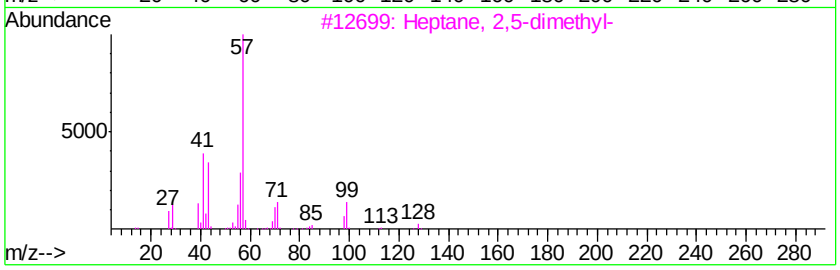
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.52	46.56 ug/L	164990000	Chlorobenzene-d5	11.63

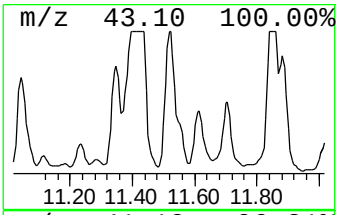
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Piperidine, 4-methyl-	99	C6H13N	000626-58-4	53
2	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	52
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	49
4	Heptane, 3-ethyl-	128	C9H20	015869-80-4	46
5	Heptane, 4-propyl-	142	C10H22	003178-29-8	43

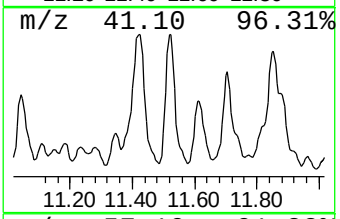


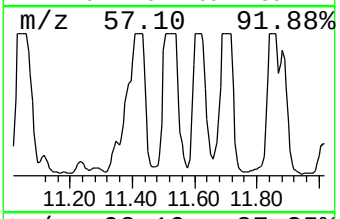


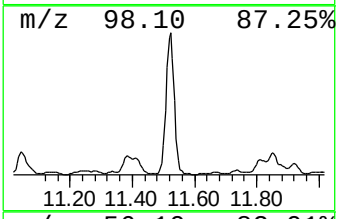


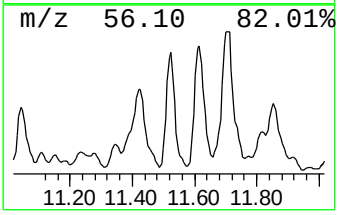












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

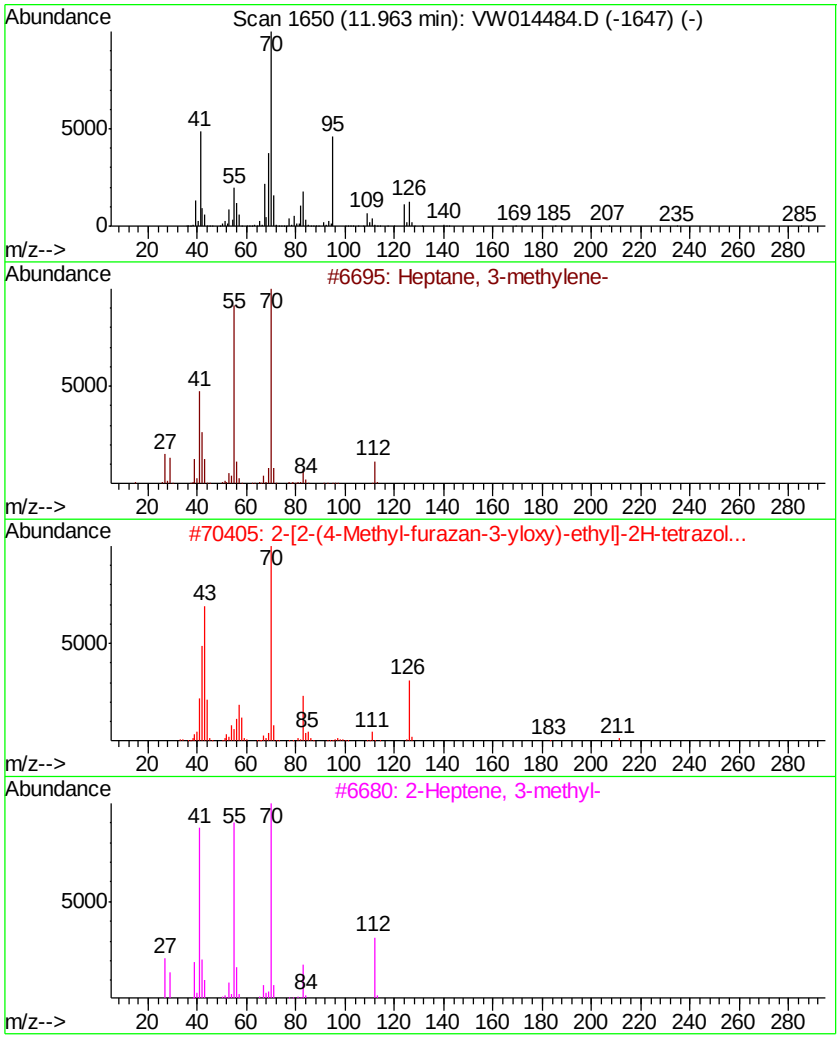
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

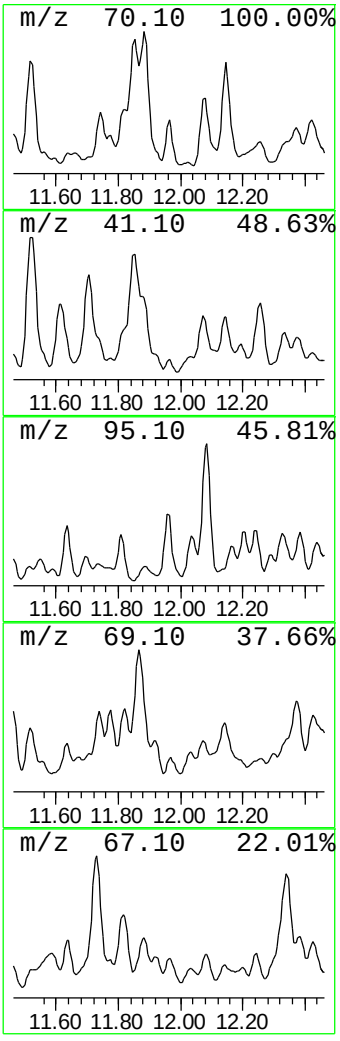
****

Peak Number 39 (DEL) Alkane: Cyclic11.96 Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	2.07 ug/L	7337090	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methylene-	112	C8H16	001632-16-2	32
2	2-[2-(4-Methyl-furazan-3-yloxy)-...	211	C6H9N7O2	1000300-54-6	32
3	2-Heptene, 3-methyl-	112	C8H16	003404-75-9	32
4	Cyclobutanone, 2,3,3,4-tetramethyl-	126	C8H14O	053907-62-3	32
5	Cyclohexane, (1,1-dimethylpropyl)-	154	C11H22	031797-64-5	28





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

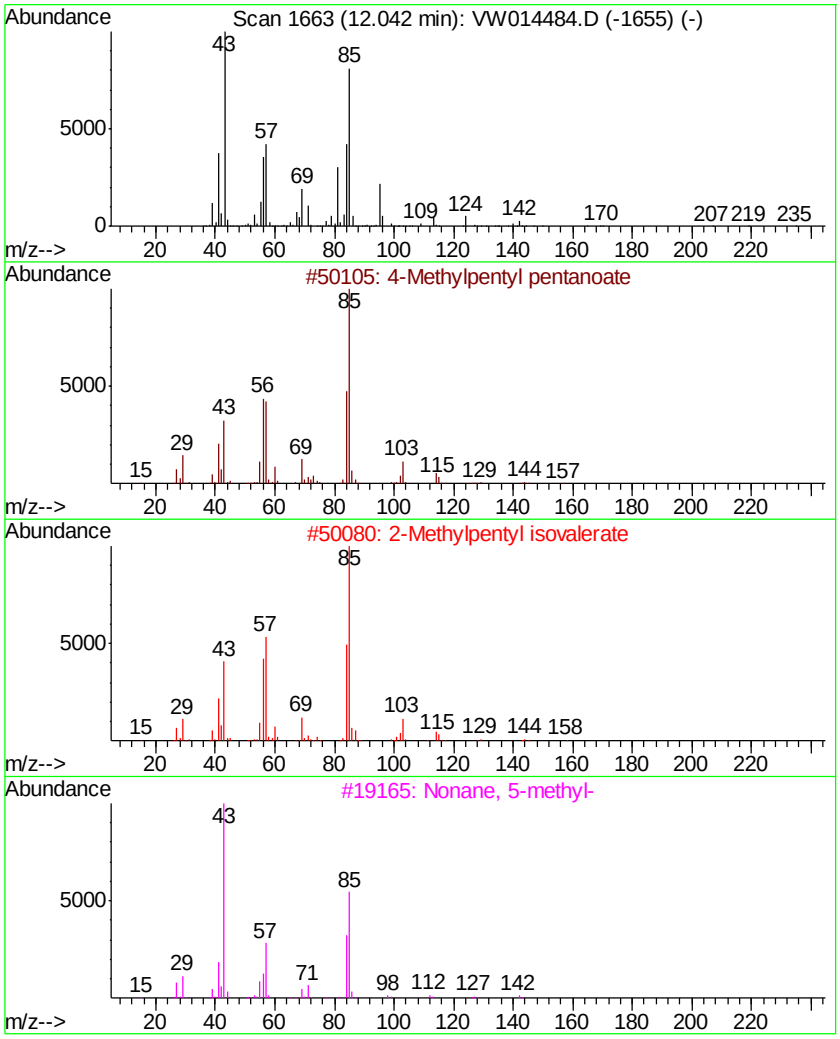
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

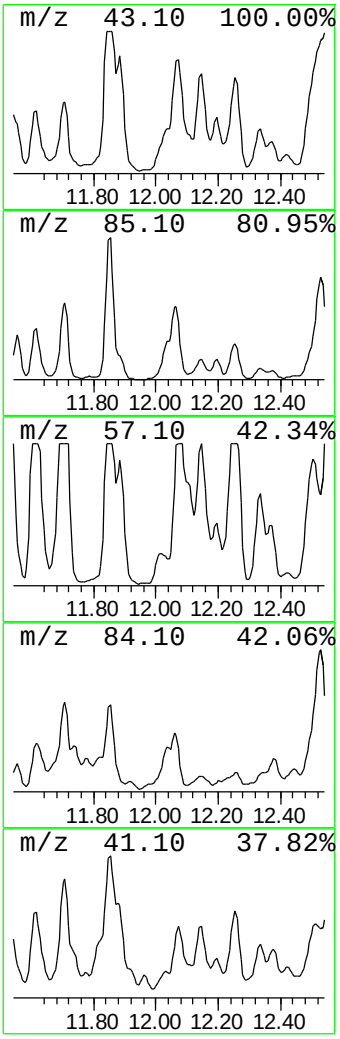
****

Peak Number 40 4-Methylpentyl pentanoate Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	6.47 ug/L	22937200	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylpentyl pentanoate	186	C11H22O2	035852-47-2	64
2	2-Methylpentyl isovalerate	186	C11H22O2	1000236-38-7	64
3	Nonane, 5-methyl-	142	C10H22	015869-85-9	58
4	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	53
5	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

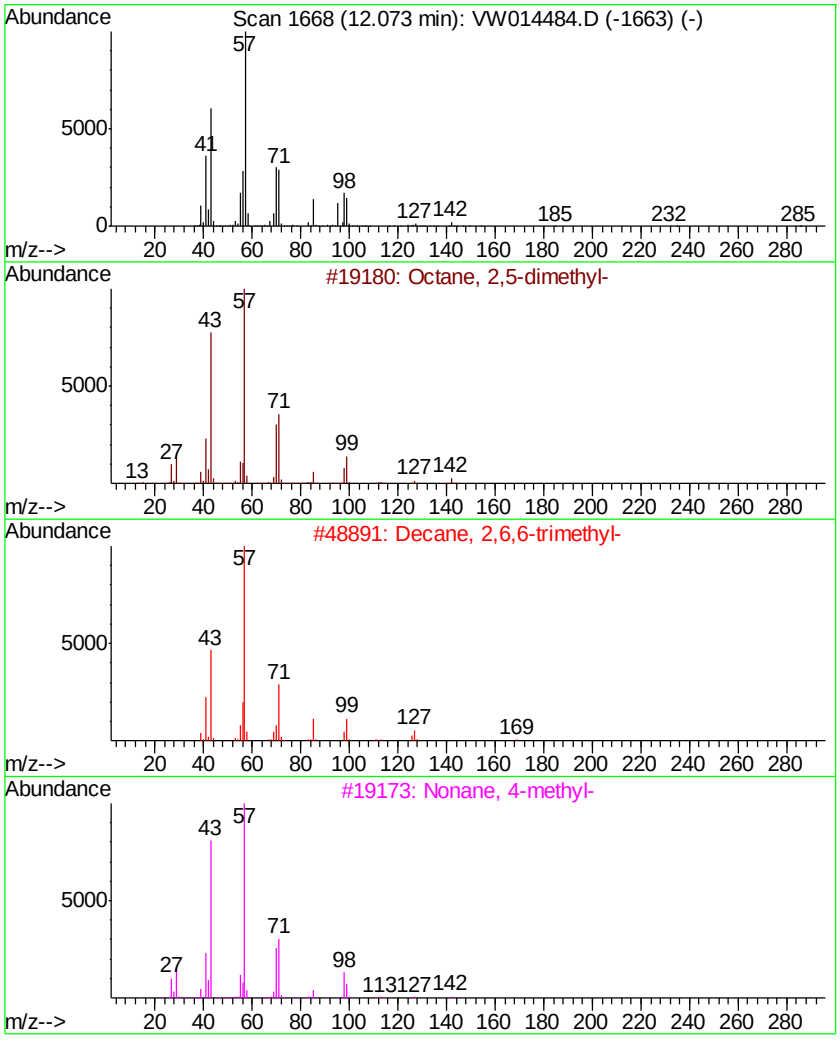
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

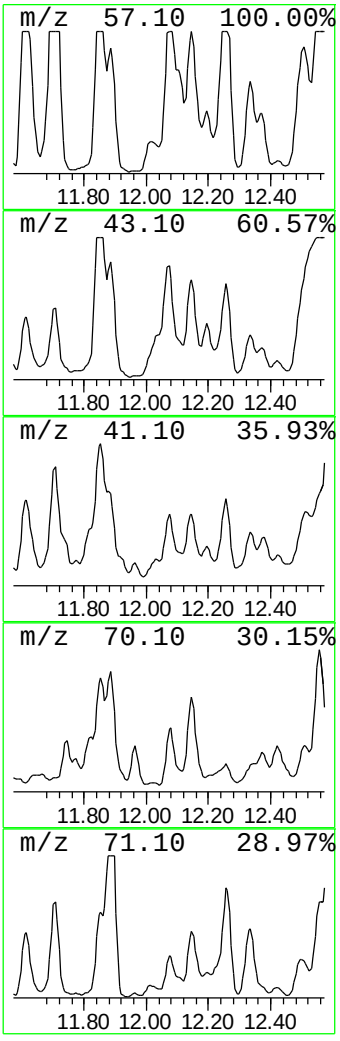
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 41 (DEL) Alkane: Straight-Chai... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	21.64 ug/L	76675400	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	58
2	Decane, 2,6,6-trimethyl-	184	C13H28	062108-24-1	53
3	Nonane, 4-methyl-	142	C10H22	017301-94-9	53
4	Nonane, 4-methyl-	142	C10H22	017301-94-9	52
5	Oxalic acid, isobutyl nonyl ester	272	C15H28O4	1000309-37-4	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

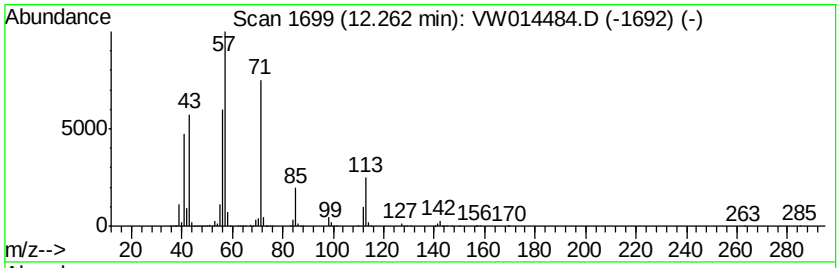
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

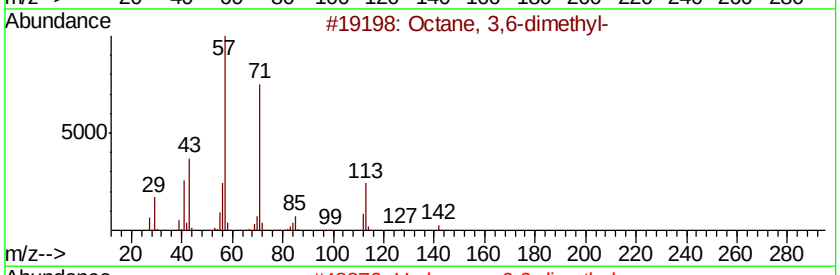
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

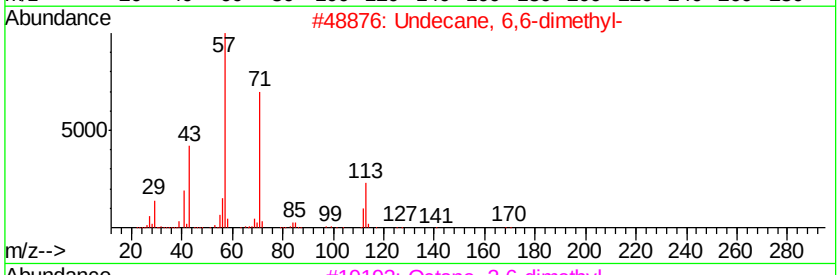
****
Peak Number 42 (DEL) Alkane: Straight-Chai... Concentration Rank 29

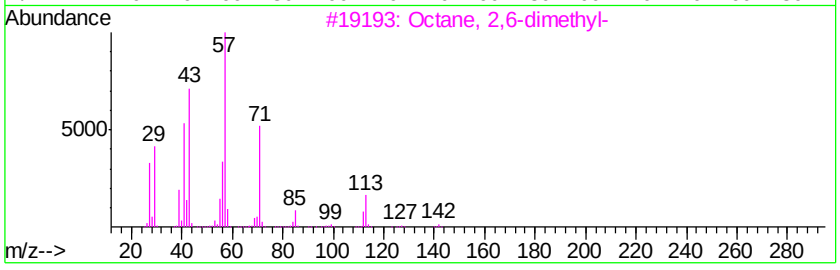
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	22.88 ug/L	81062800	Chlorobenzene-d5	11.63

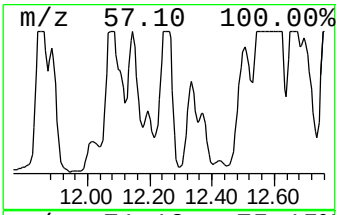
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	70
2	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	53
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	49
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	49
5	Ethane, isocyanato-	71	C3H5NO	000109-90-0	47

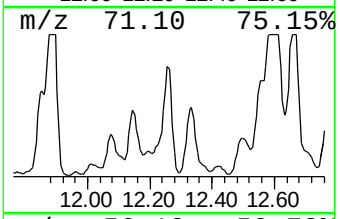


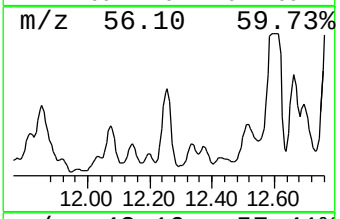


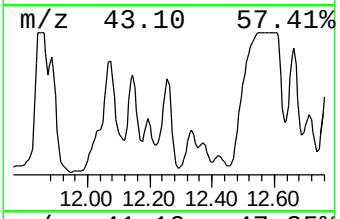


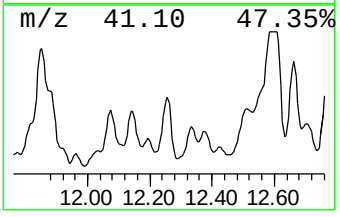












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

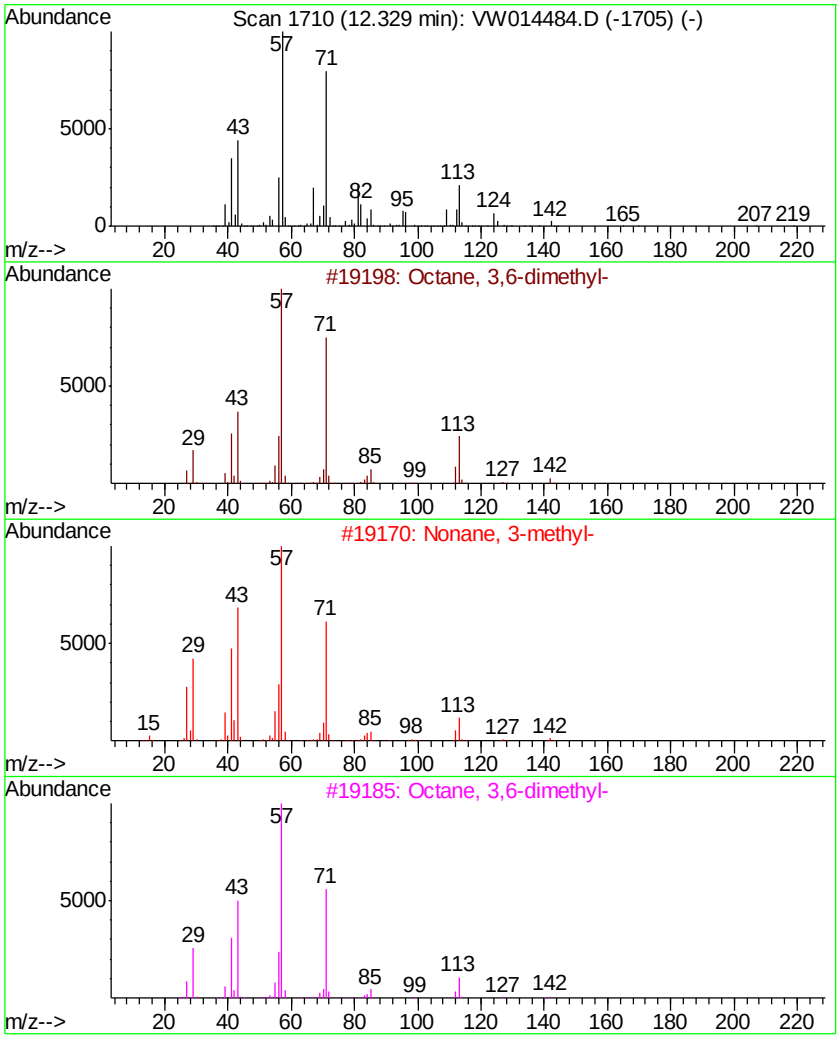
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

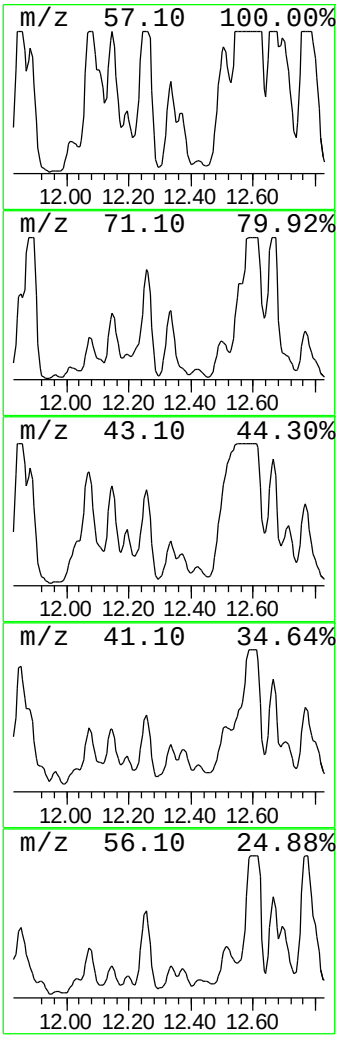
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 (DEL) Alkane: Straight-Chai... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	15.45 ug/L	54750600	Chlorobenzene-d5	11.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	94
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	89
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	76
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	76
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

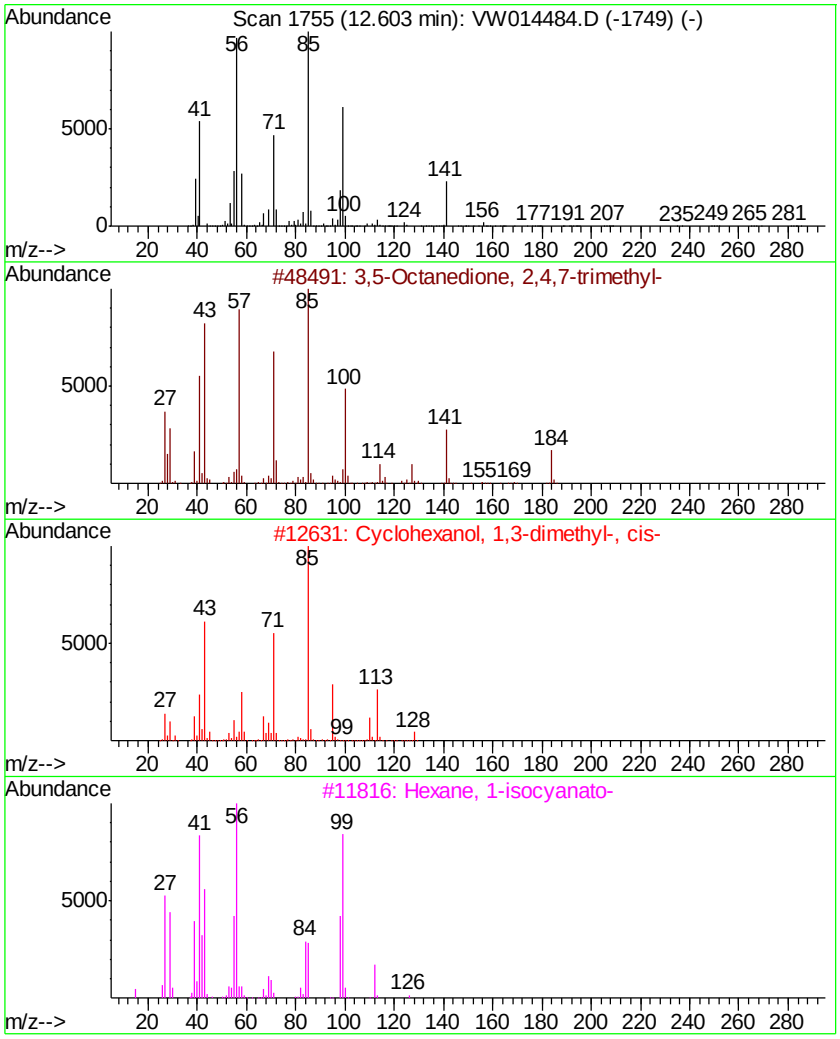
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

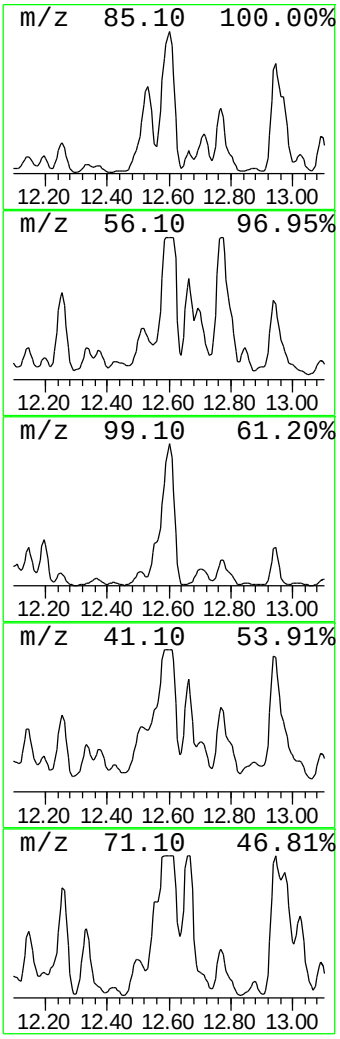
****

Peak Number 44 unknown-03 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	25.12 ug/L	215866000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Octanedione, 2,4,7-trimethyl-	184	C11H20O2	1000162-73-7	35
2	Cyclohexanol, 1,3-dimethyl-, cis-	128	C8H16O	015466-94-1	25
3	Hexane, 1-isocyanato-	127	C7H13NO	002525-62-4	25
4	2-Hexene, 5-methyl-, (E)-	98	C7H14	007385-82-2	14
5	2(3H)-Furanone, dihydro-5-pentyl-	156	C9H16O2	000104-61-0	10





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

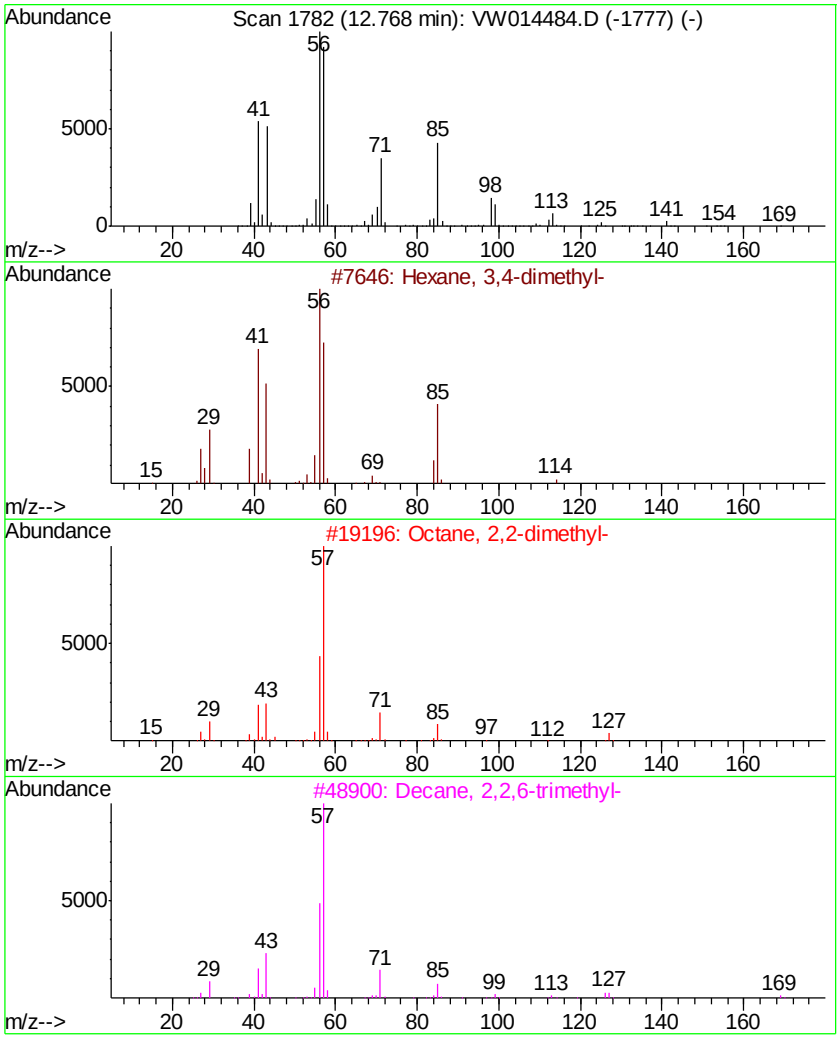
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

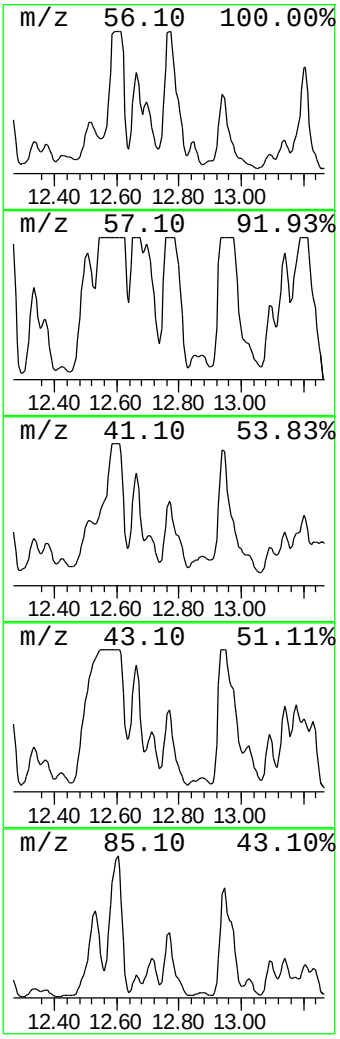
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 45 (DEL) Alkane: Straight-Chai... Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	8.85 ug/L	76059700	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	53
2	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	50
3	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	50
4	Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	47
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	47





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

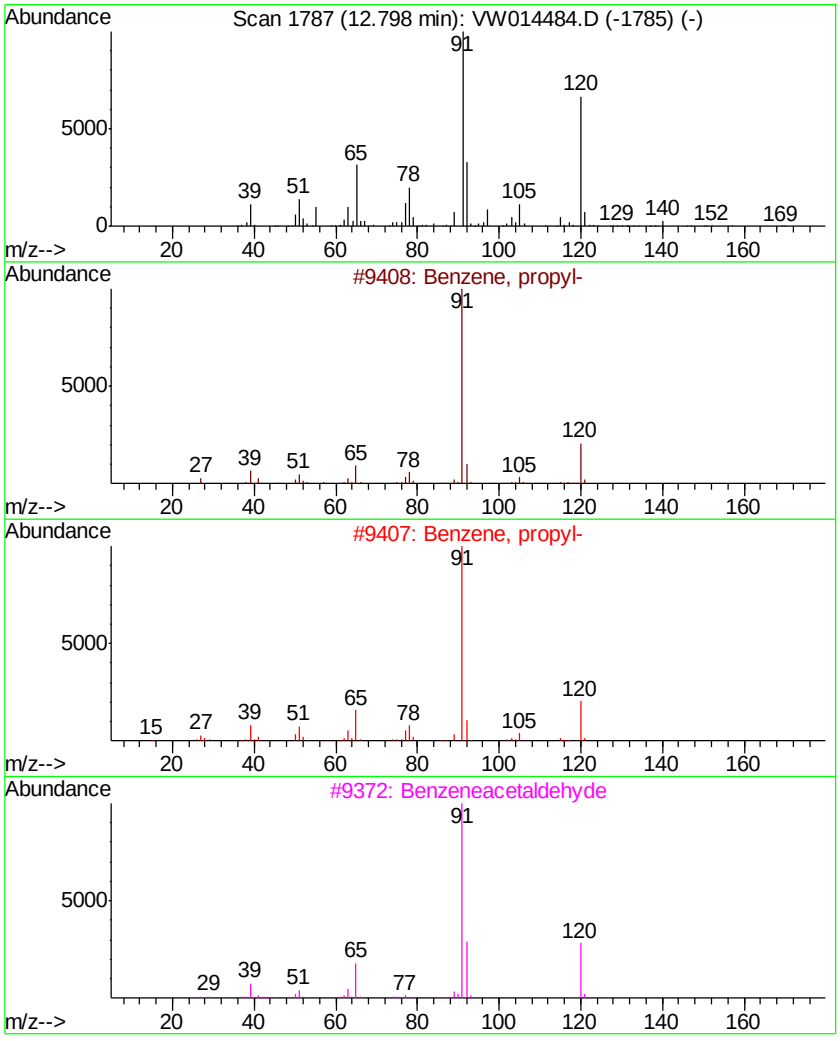
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

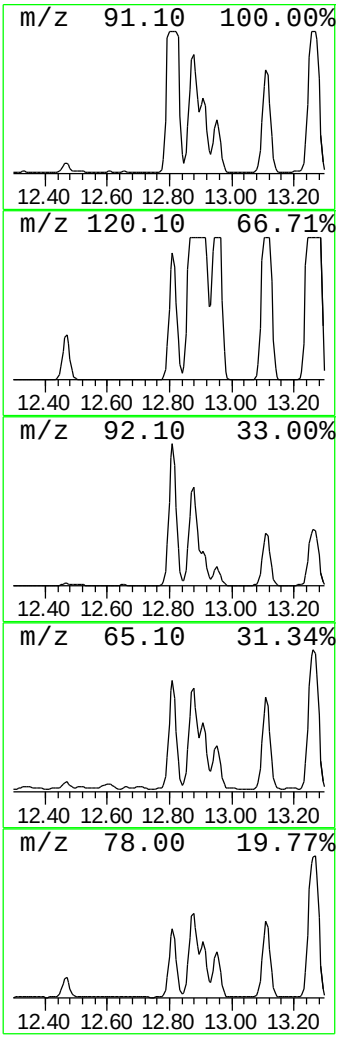
****

Peak Number 46 Benzene, propyl- Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	10.99 ug/L	94435500	1,4-Dichlorobenzene-d4	13.57

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	87
3	Benzeneacetaldehyde	120	C8H8O	000122-78-1	81
4	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	53
5	Benzeneethanamine	121	C8H11N	000064-04-0	53





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

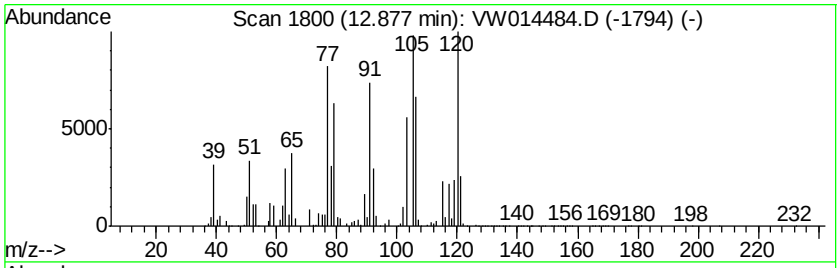
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

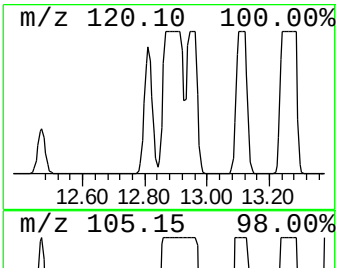
****

Peak Number 47 Benzene, 1-ethyl-4-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.88	22.58 ug/L	194037000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	70
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	62
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	58
4	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	50
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	47





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

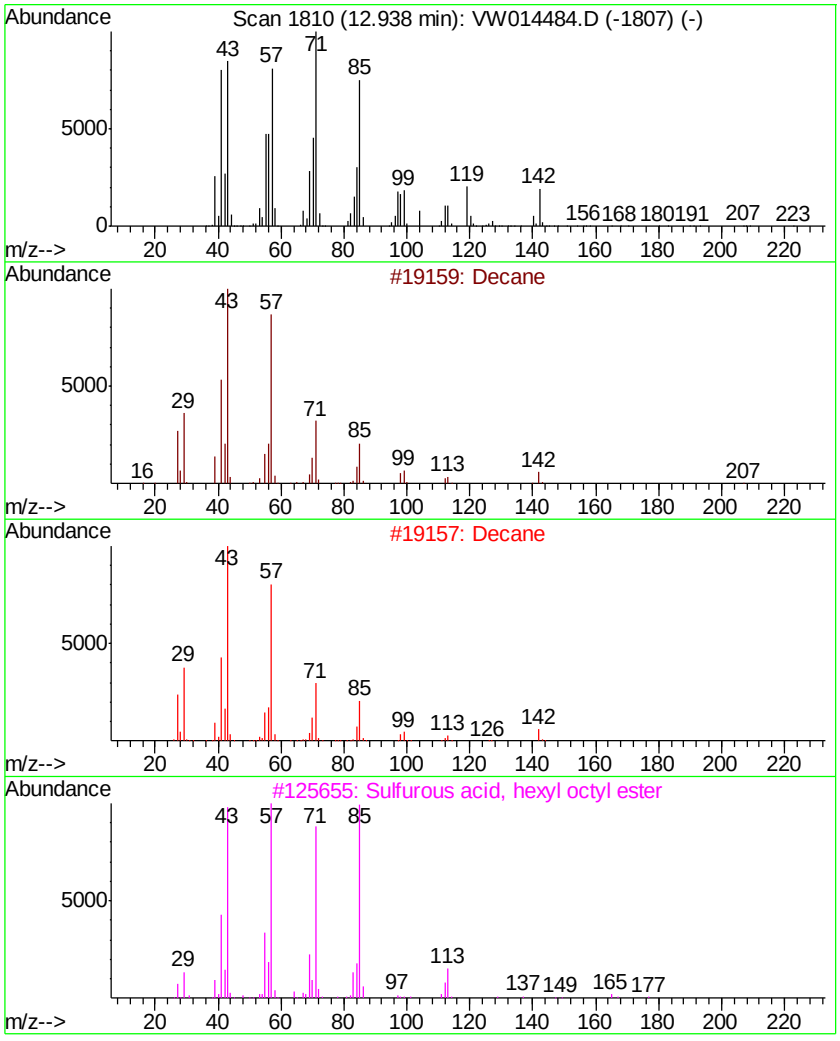
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

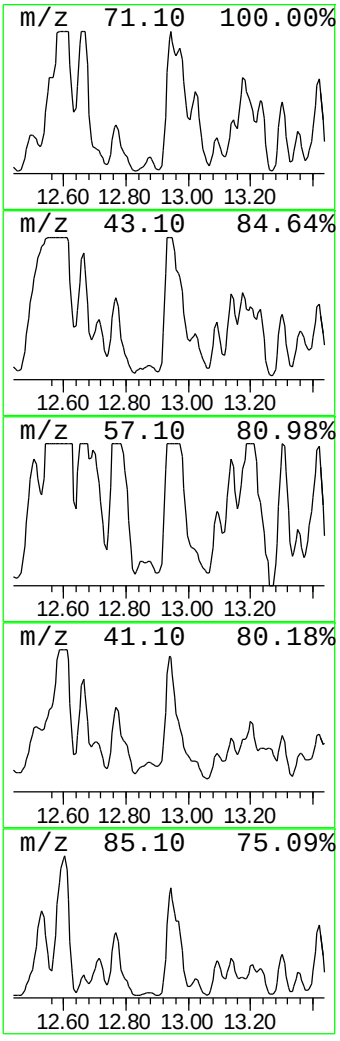
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 48 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	46.71 ug/L	401452000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	70
2	Decane	142	C10H22	000124-18-5	62
3	Sulfurous acid, hexyl octyl ester	278	C14H30O3S	1000309-13-0	46
4	2-Bromononane	206	C9H19Br	002216-35-5	38
5	Undecane, 2,7-dimethyl-	184	C13H28	017301-24-5	35





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

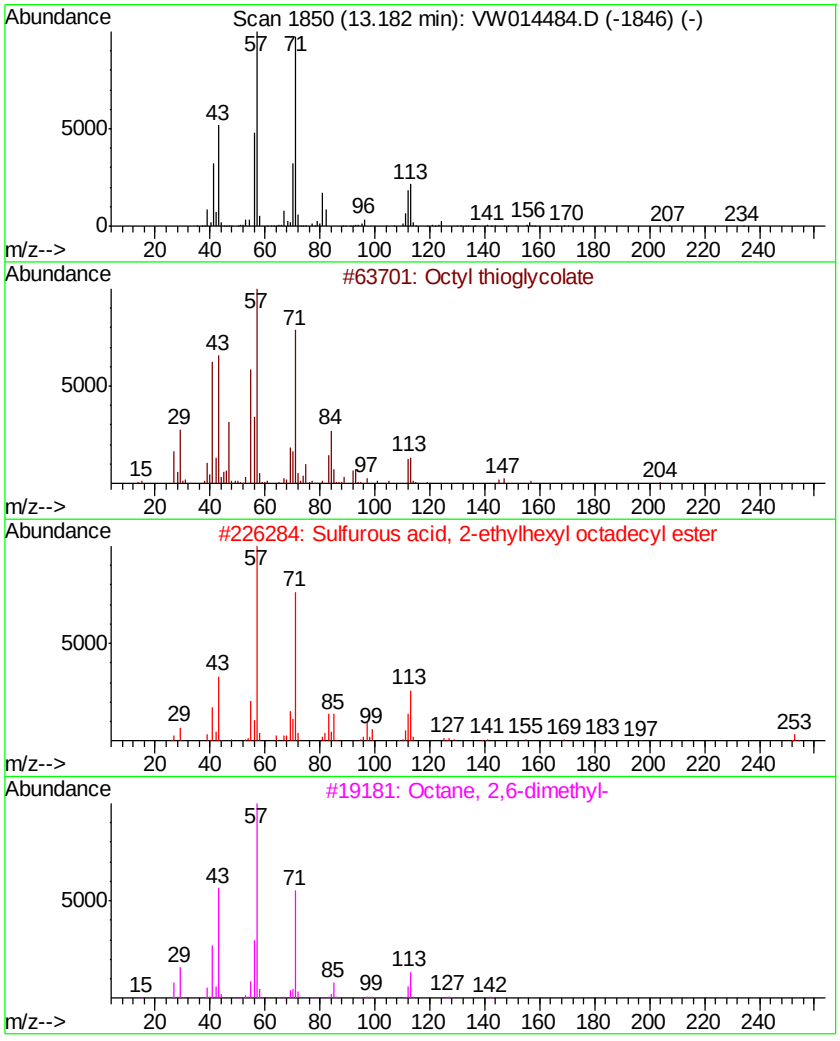
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

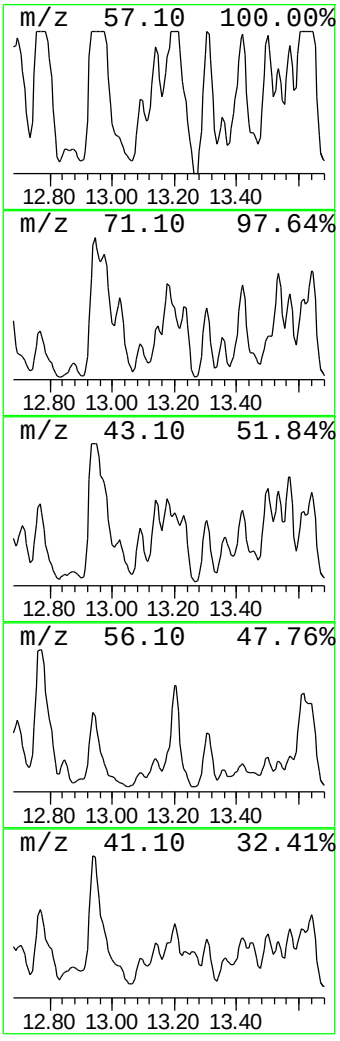
****

Peak Number 50 Octyl thioglycolate Concentration Rank 75

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	2.03 ug/L	17463800	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octyl thioglycolate	204	C10H20O2S	007664-80-4	72
2	Sulfurous acid, 2-ethylhexyl oct...	446	C26H54O3S	1000309-20-1	64
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	59
4	Isobutyl pentyl carbonate	188	C10H20O3	178442-32-5	59
5	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	59





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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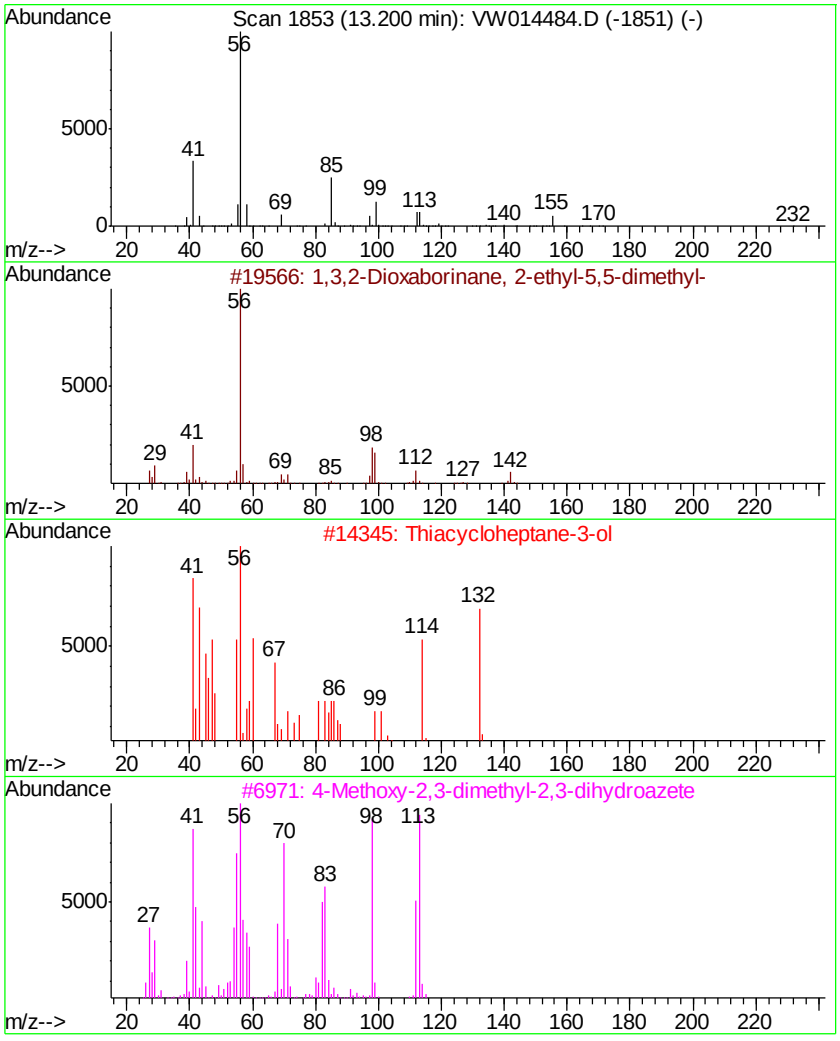
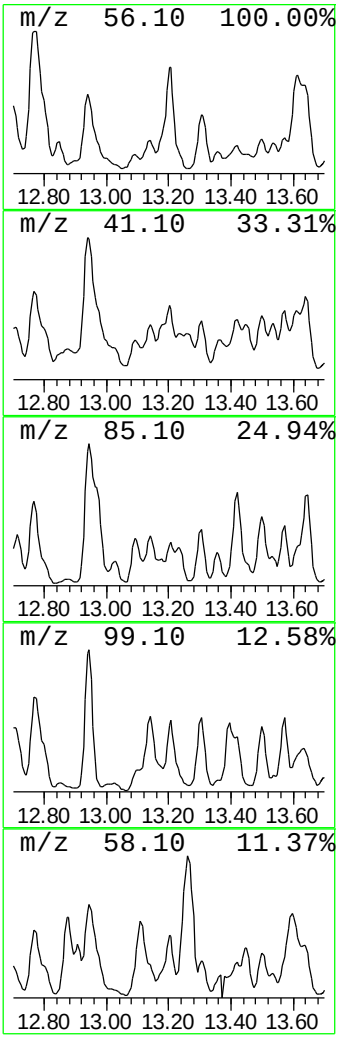
Peak Number 51 unknown-04 Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	2.29 ug/L	19662700	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,2-Dioxaborinane, 2-ethyl-5,5...	142	C7H15BO2	057186-59-1	36
2	Thiacycloheptane-3-ol	132	C6H12OS	1000143-84-2	25
3	4-Methoxy-2,3-dimethyl-2,3-dihyd...	113	C6H11NO	1000194-06-9	25
4	1,4-Dioxaspiro[2.4]heptan-5-one,...	142	C7H10O3	126091-79-0	9
5	Cycloheptylamine	113	C7H15N	005452-35-7	7





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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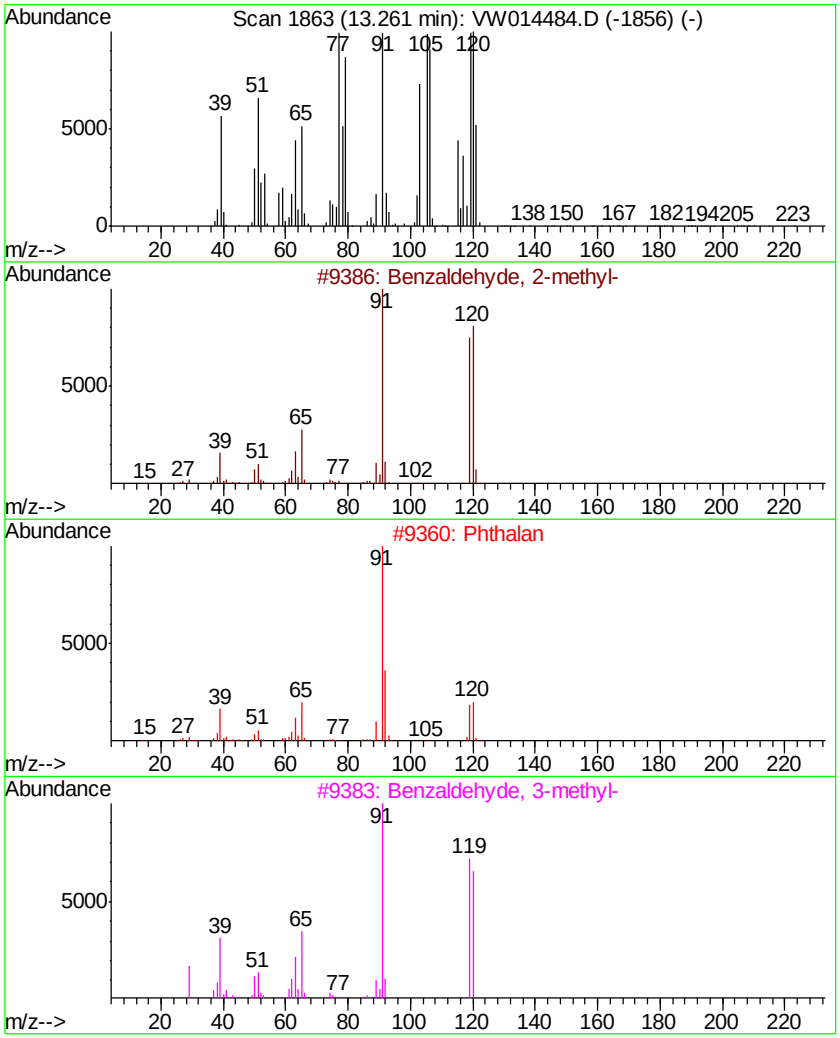
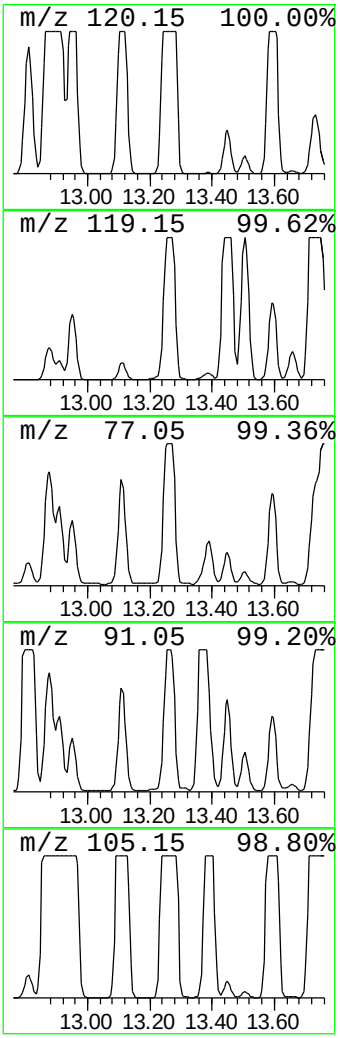
Peak Number 52 Benzaldehyde, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	34.68 ug/L	298017000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 2-methyl-	120	C8H8O	000529-20-4	89
2	Phthalan	120	C8H8O	000496-14-0	70
3	Benzaldehyde, 3-methyl-	120	C8H8O	000620-23-5	70
4	Benzaldehyde, 4-methyl-	120	C8H8O	000104-87-0	55
5	1-Hexen-4-yne, 3-ethylidene-2-me...	120	C9H12	076003-39-9	46





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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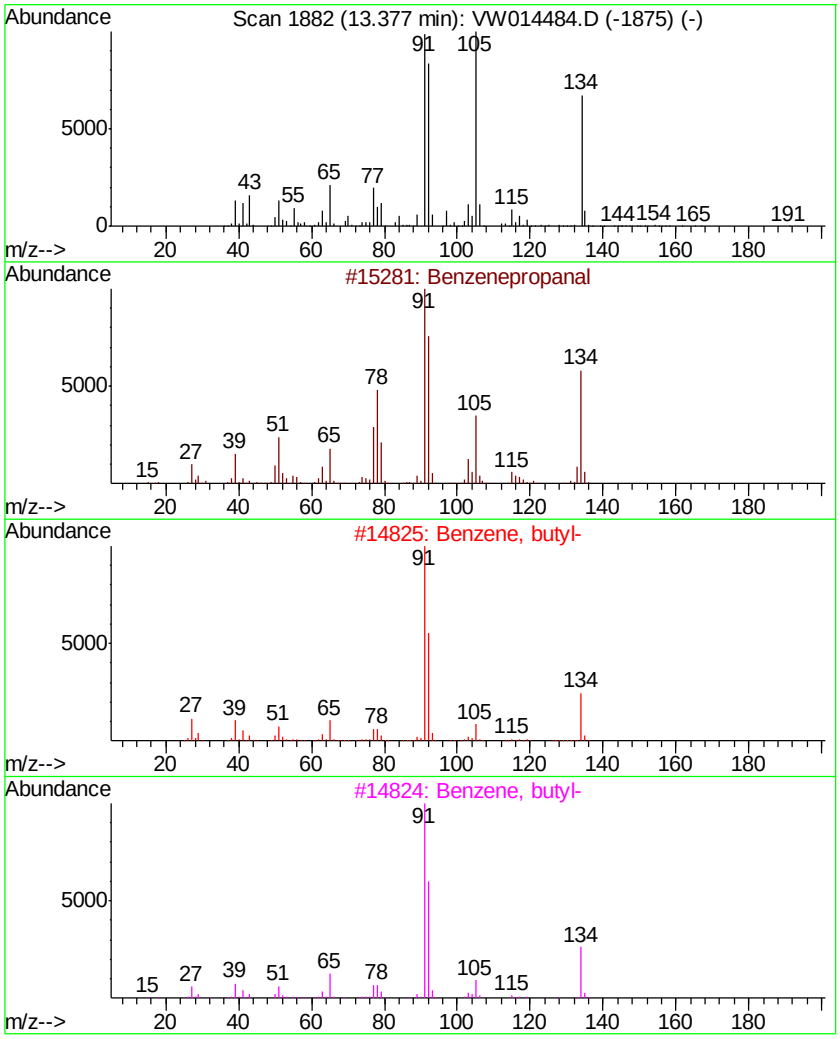
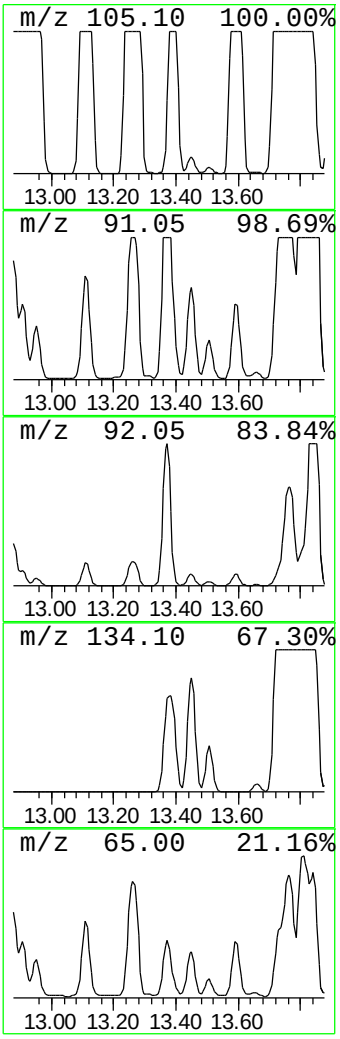
Peak Number 53 Benzenepropanal Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	19.28 ug/L	165736000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenepropanal	134	C9H10O	000104-53-0	58
2	Benzene, butyl-	134	C10H14	000104-51-8	49
3	Benzene, butyl-	134	C10H14	000104-51-8	49
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	49
5	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	49





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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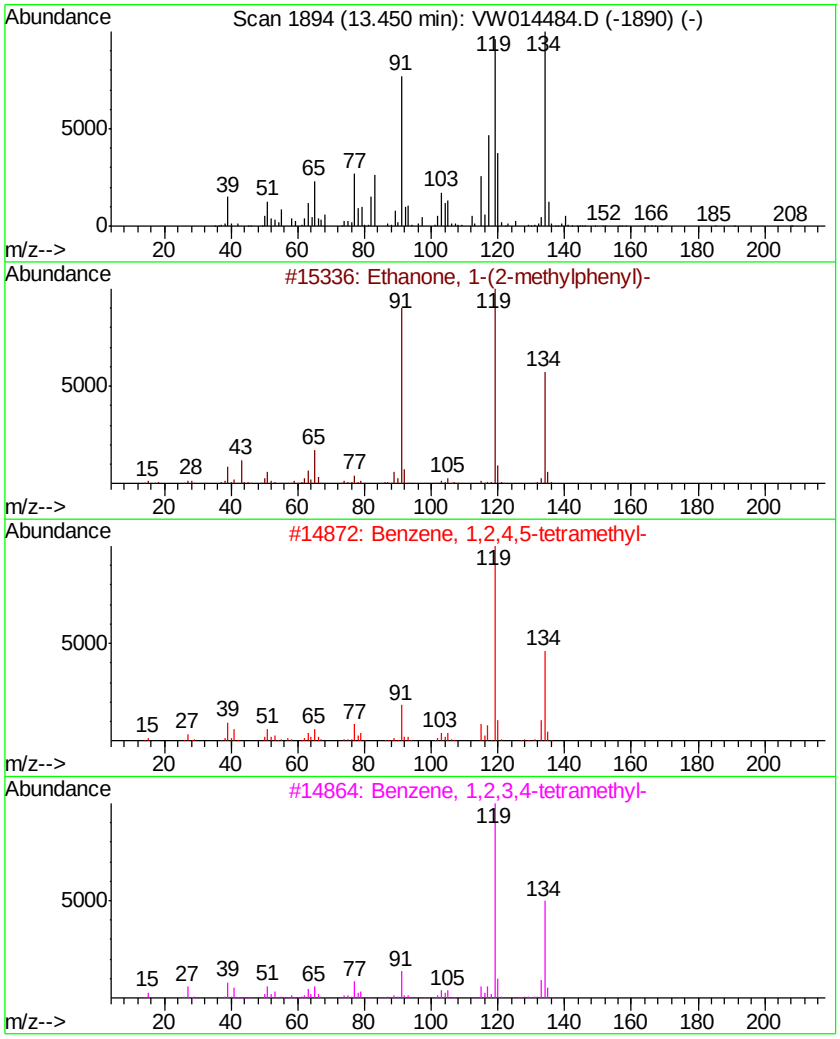
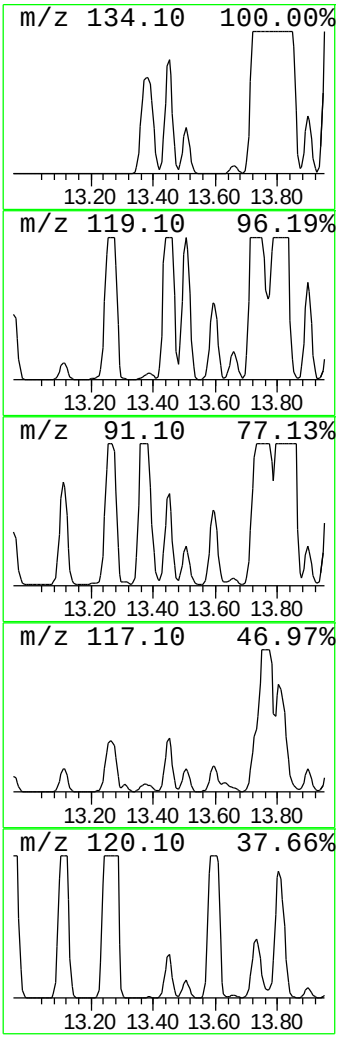
Peak Number 54 Ethanone, 1-(2-methylphenyl)- Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.45	11.71 ug/L	100680000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(2-methylphenyl)-	134	C9H10O	000577-16-2	91
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	76
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	74
4	Cyclobutene, bis(1-methylethylid...	134	C10H14	003642-14-6	72
5	o-Cymene	134	C10H14	000527-84-4	70





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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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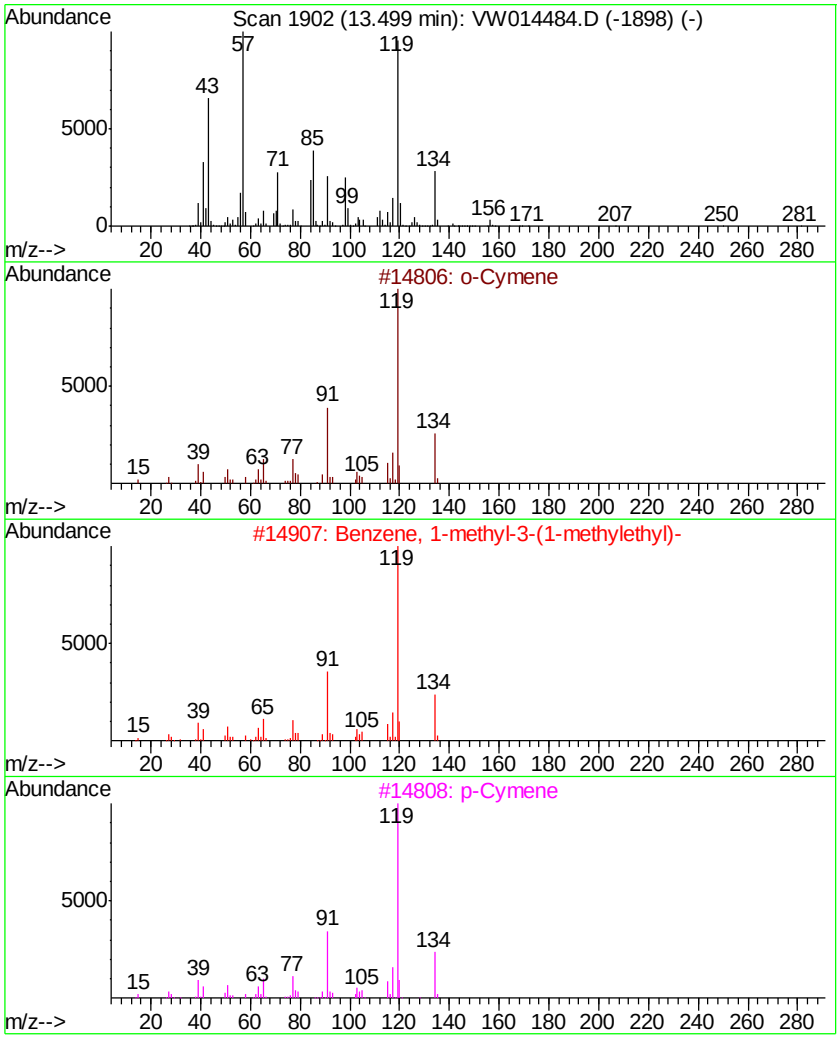
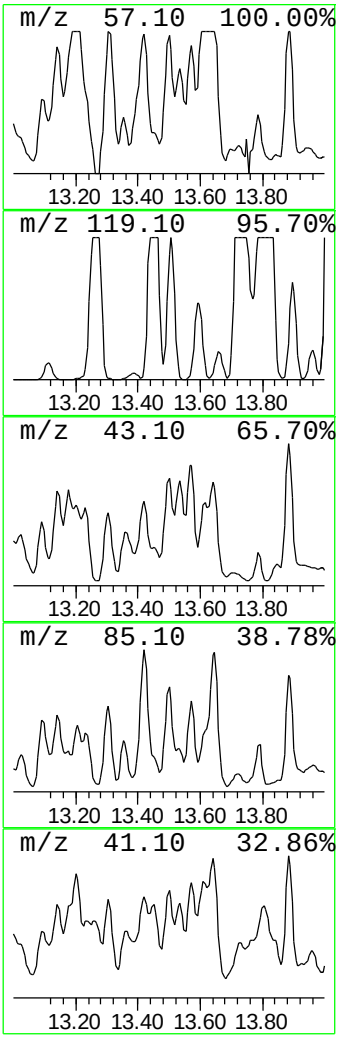
Peak Number 55 o-Cymene Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	7.95 ug/L	68330800	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	84
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	52
3	p-Cymene	134	C10H14	000099-87-6	52
4	Decane, 5-methyl-	156	C11H24	013151-35-4	46
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	46





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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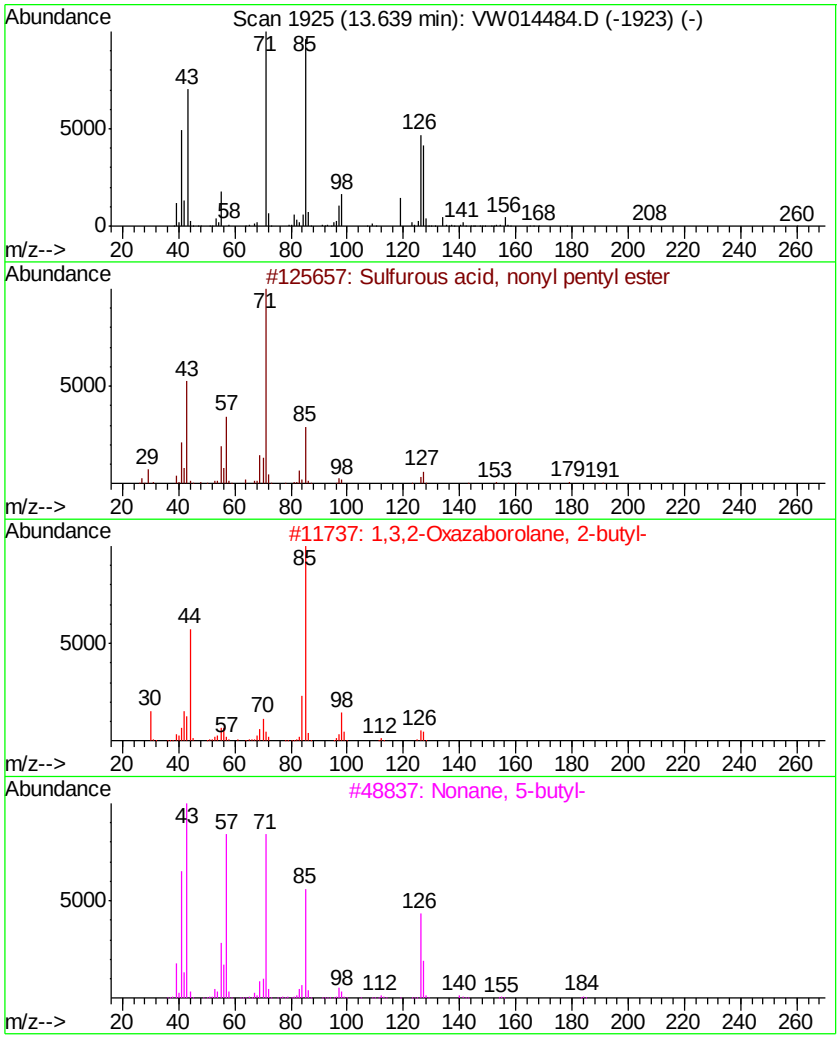
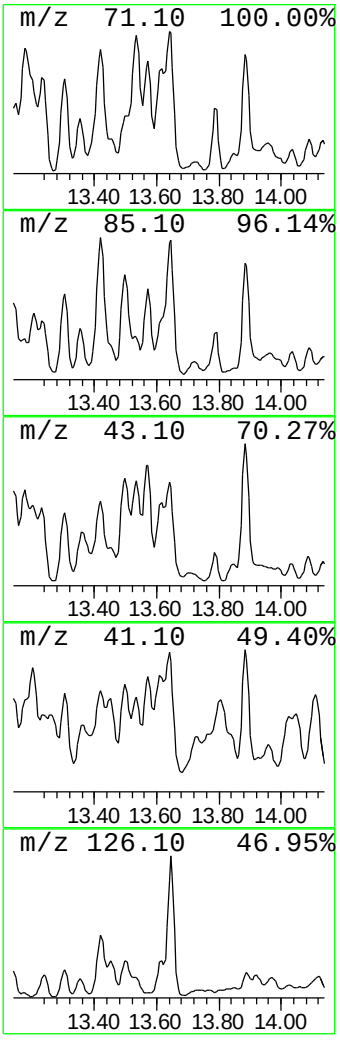
Peak Number 56 Sulfurous acid, nonyl penty... Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	9.33 ug/L	80156000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, nonyl pentyl ester	278	C14H30O3S	1000309-14-2	50
2	1,3,2-Oxazaborolane, 2-butyl-	127	C6H14BNO	031748-10-4	47
3	Nonane, 5-butyl-	184	C13H28	017312-63-9	40
4	Sulfurous acid, isohexyl pentyl ...	236	C11H24O3S	1000309-14-0	37
5	Sulfurous acid, hexyl 2-pentyl e...	236	C11H24O3S	1000309-15-6	37





Library Search Compound Report

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Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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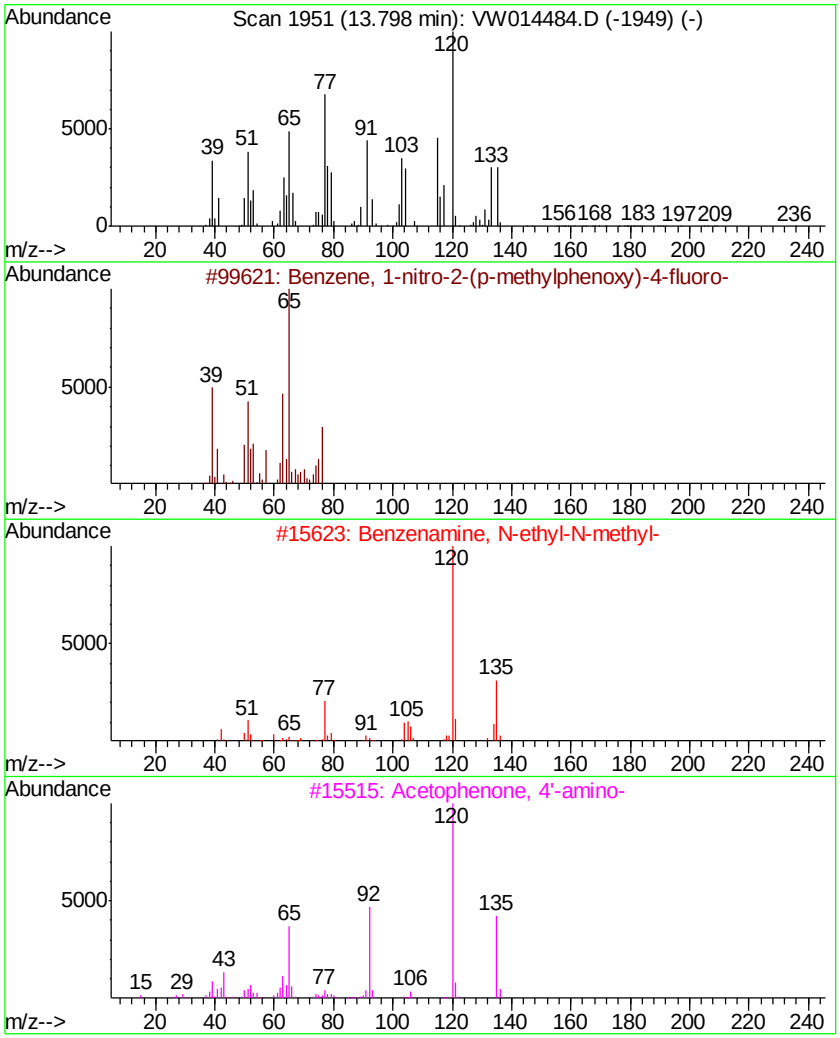
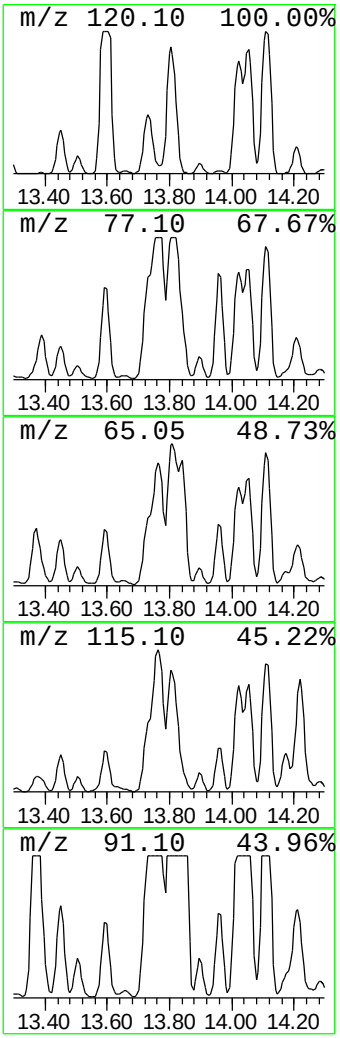
Peak Number 58 unknown-05 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	53.16 ug/L	456862000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-nitro-2-(p-methylphen...	247	C13H10FNO3	028987-57-7	27
2	Benzenamine, N-ethyl-N-methyl-	135	C9H13N	000613-97-8	10
3	Acetophenone, 4'-amino-	135	C8H9NO	000099-92-3	9
4	Benzofuran, 2,3-dihydro-	120	C8H8O	000496-16-2	9
5	[1,2,4]Triazolo[1,5-a]pyrazine	120	C5H4N4	000399-66-6	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
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Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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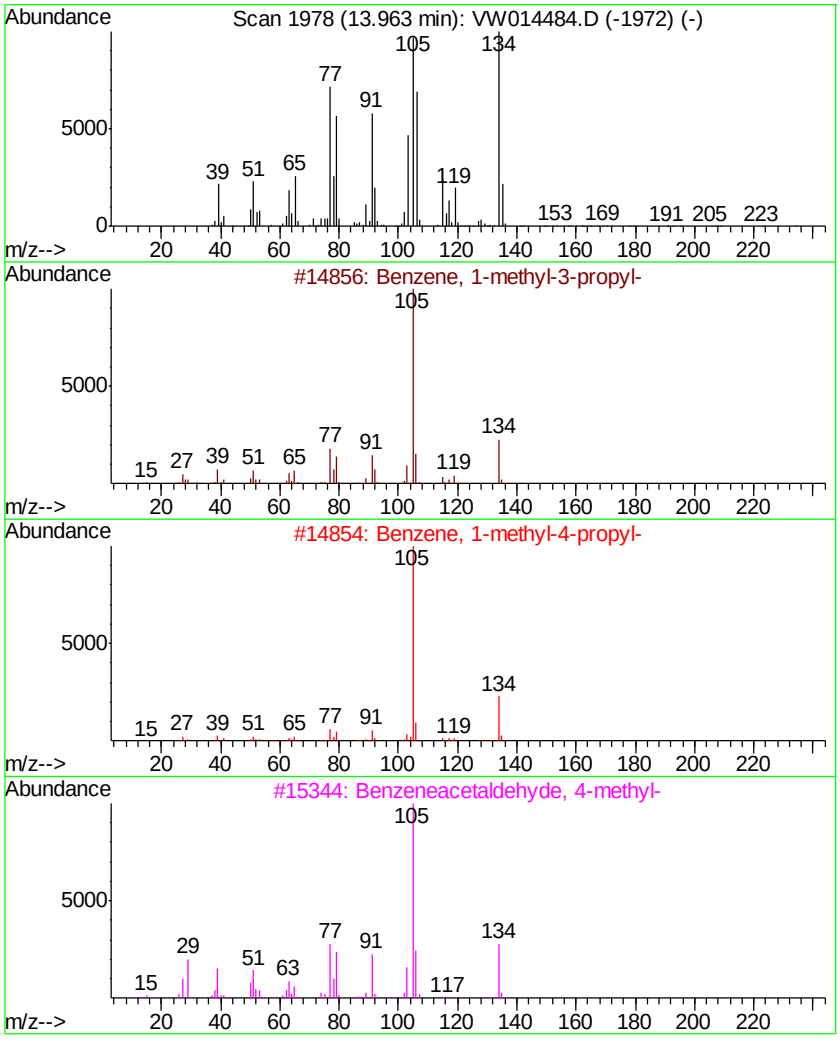
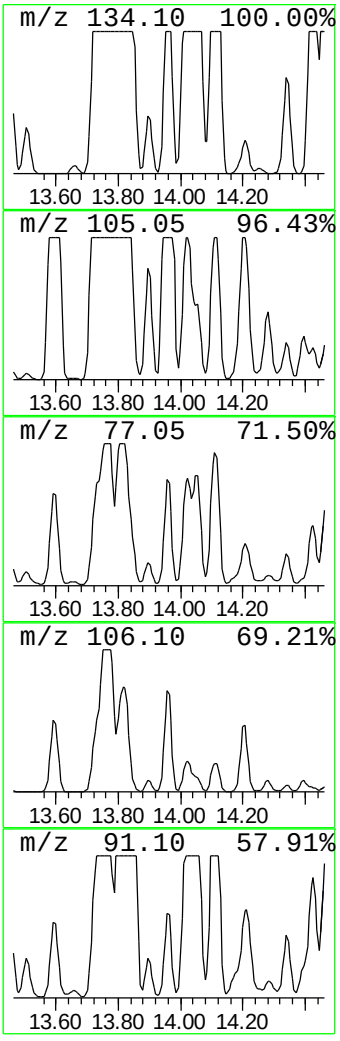
Peak Number 59 Benzene, 1-methyl-3-propyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.96	16.07 ug/L	138074000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	72
3	Benzeneacetaldehyde, 4-methyl-	134	C9H10O	000104-09-6	72
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	64
5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

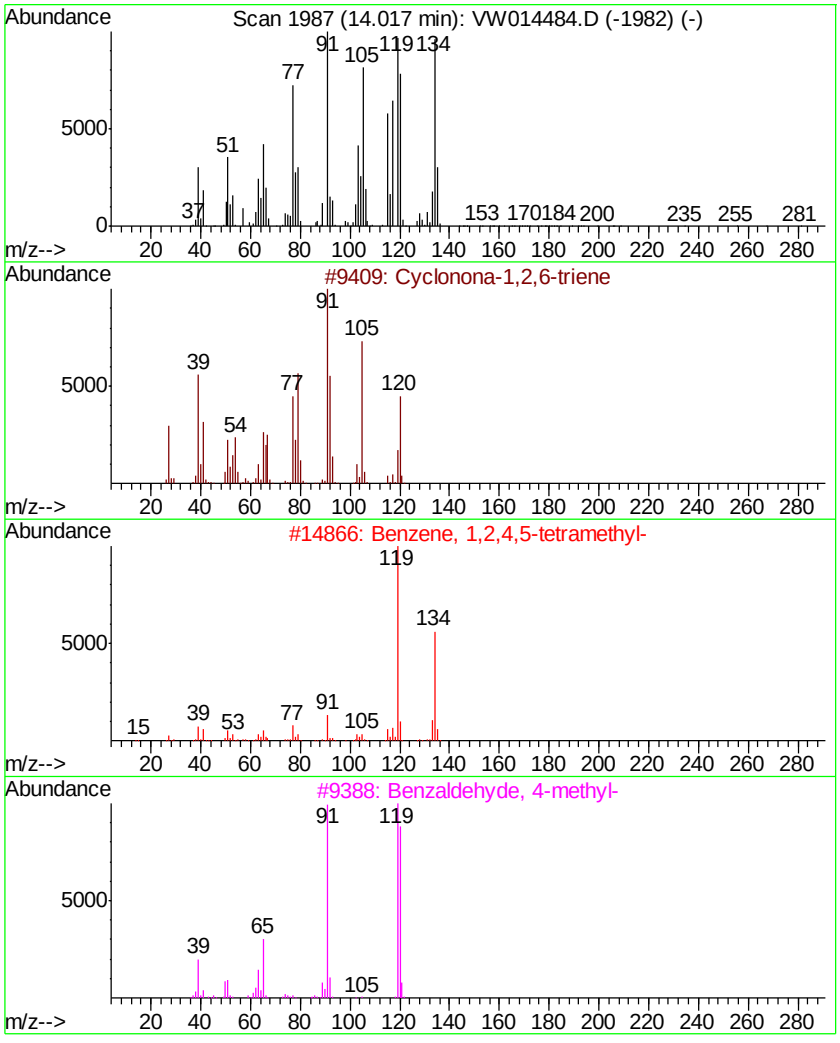
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

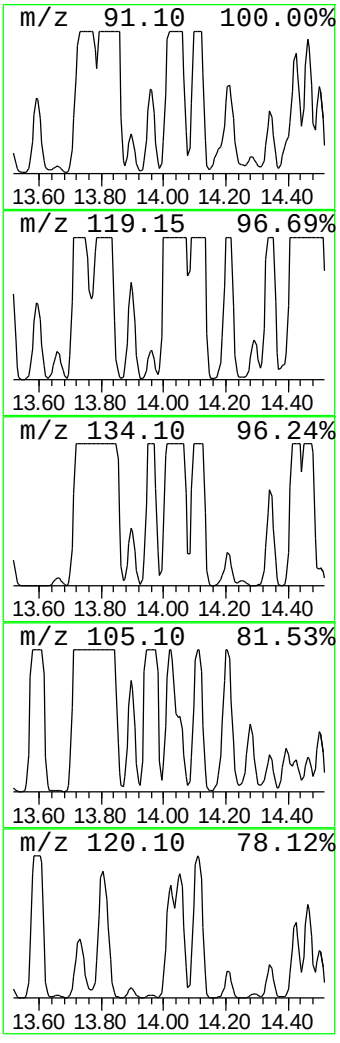
****

Peak Number 60 unknown-06 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.02	25.87 ug/L	222301000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclonona-1,2,6-triene	120	C9H12	1000196-99-9	49
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	43
3	Benzaldehyde, 4-methyl-	120	C8H8O	000104-87-0	38
4	Benzaldehyde, 4-methyl-	120	C8H8O	000104-87-0	38
5	Benzaldehyde, 3-methyl-	120	C8H8O	000620-23-5	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

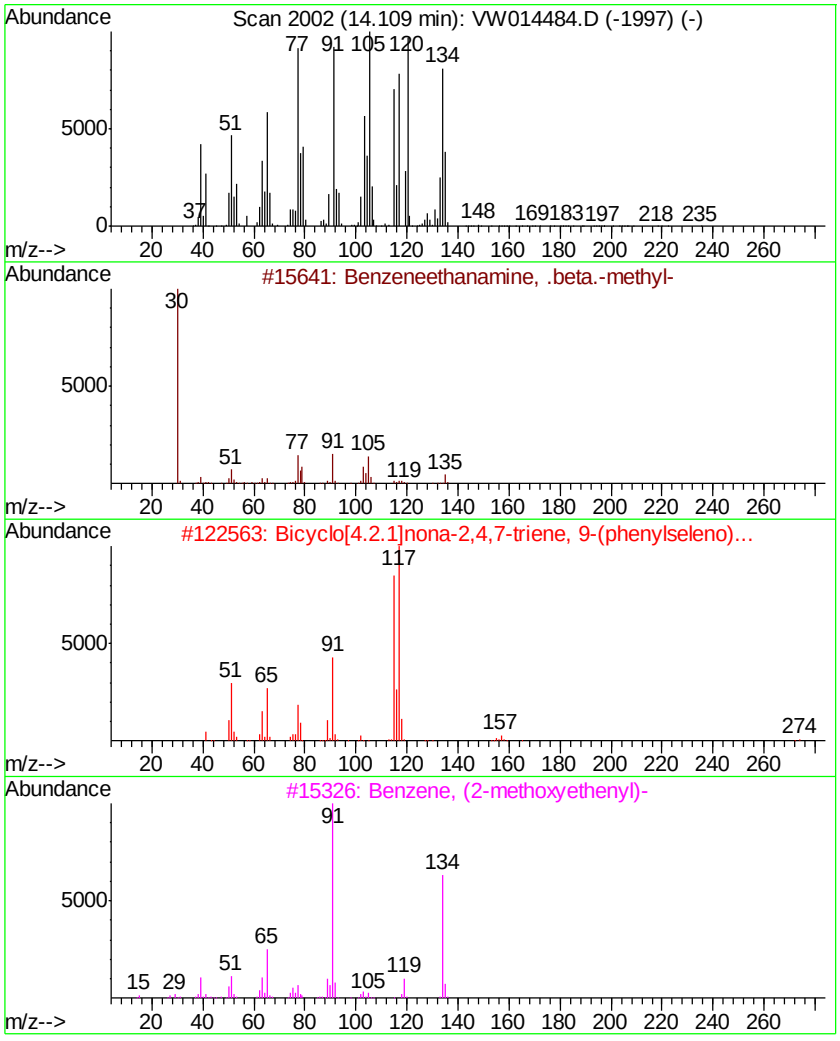
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

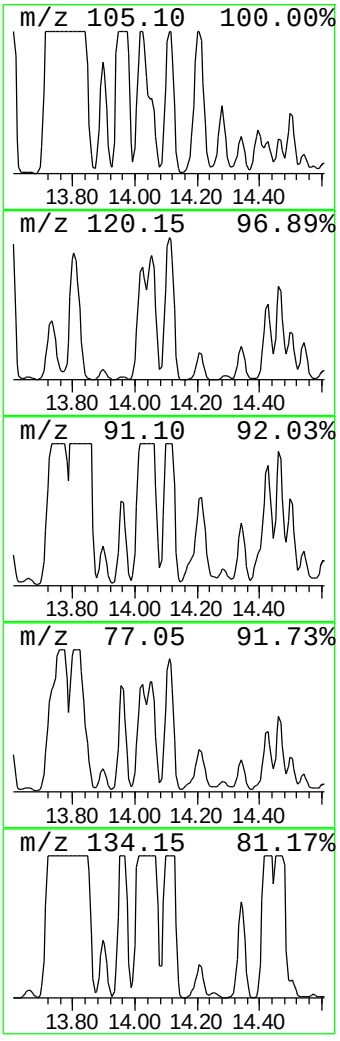
****

Peak Number 61 unknown-07 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	35.25 ug/L	302945000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, .beta.-methyl-	135	C9H13N	000582-22-9	40
2	Bicyclo[4.2.1]nona-2,4,7-triene,...	274	C15H14Se	072065-50-0	38
3	Benzene, (2-methoxyethenyl)-	134	C9H10O	004747-15-3	38
4	2,3,5-Trioxabicyclo[2.1.0]pentan...	254	C16H14O3	056247-48-4	35
5	Benzene, propyl-	120	C9H12	000103-65-1	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

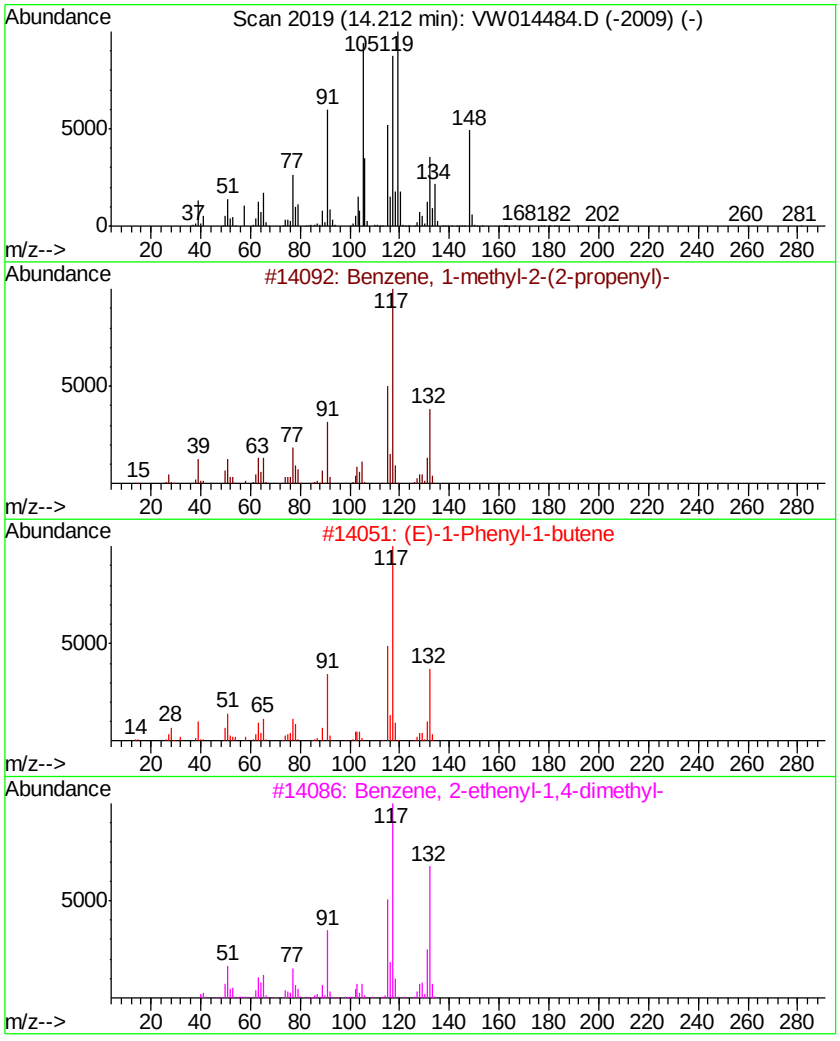
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

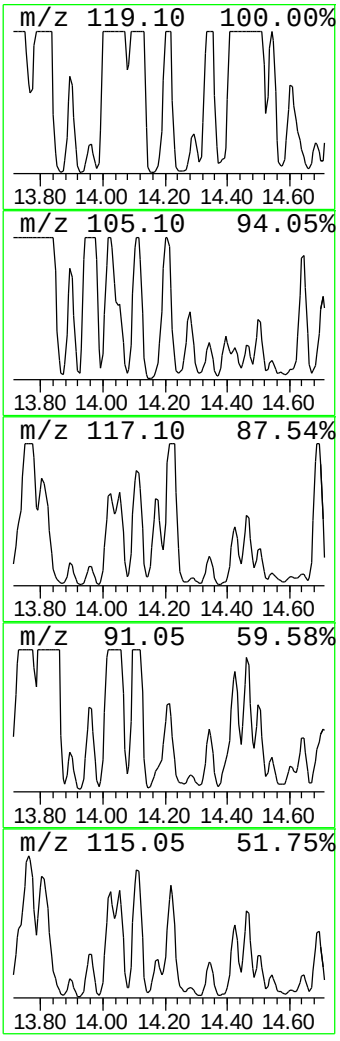
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 62 Benzene, 1-methyl-2-(2-prop... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.21	20.42 ug/L	175487000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	86
2	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	60
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	52
4	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	46
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	46





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

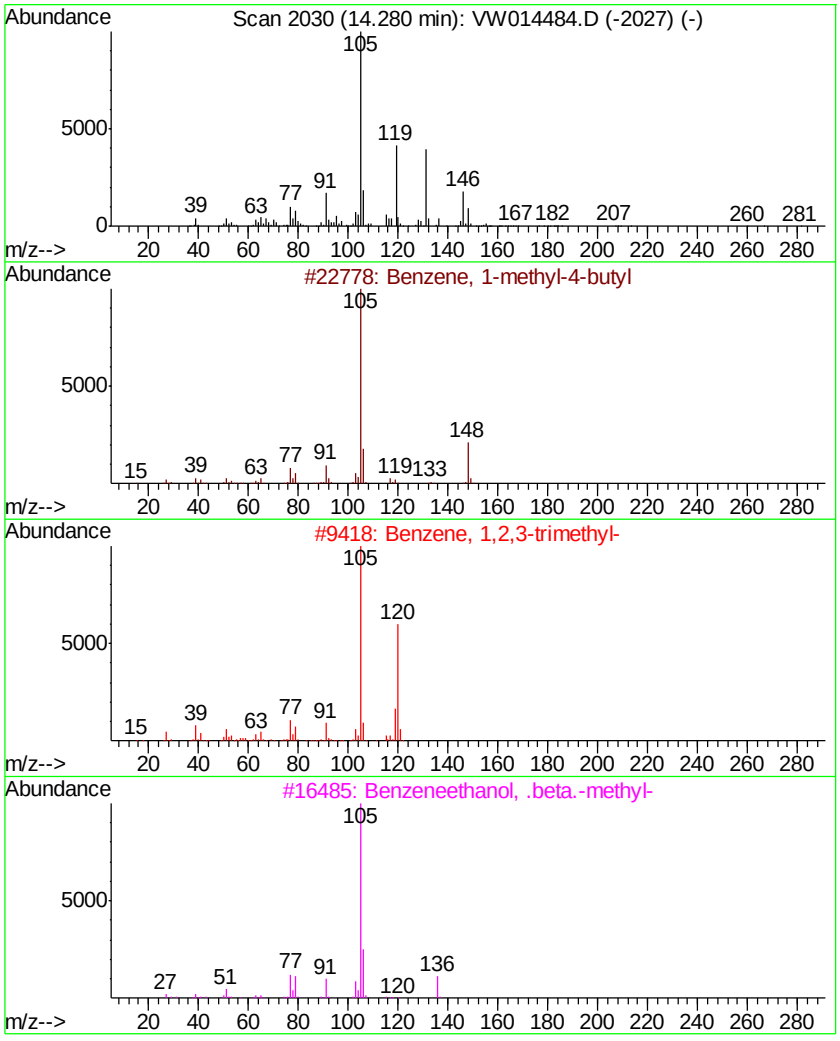
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

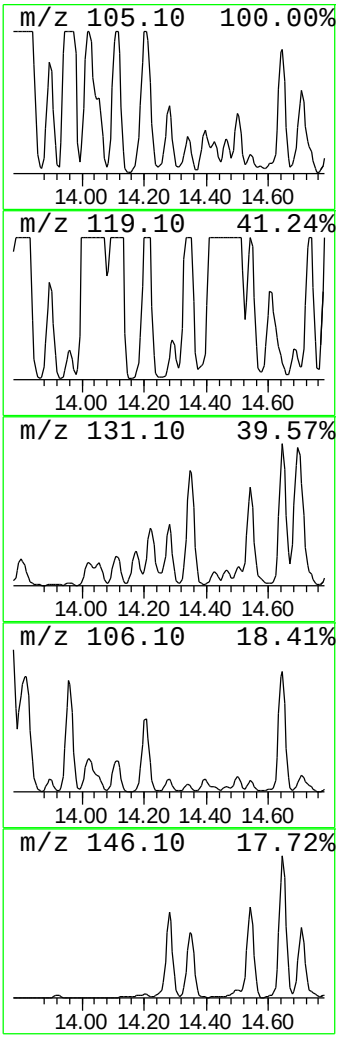
****

Peak Number 63 unknown-08 Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.28	3.57 ug/L	30712800	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-butyl	148	C11H16	001595-05-7	20
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	14
3	Benzeneethanol, .beta.-methyl-	136	C9H12O	001123-85-9	11
4	Benzeneethanol, 2-methyl-	136	C9H12O	019819-98-8	11
5	Benzene, (1-methylbutyl)-	148	C11H16	002719-52-0	10





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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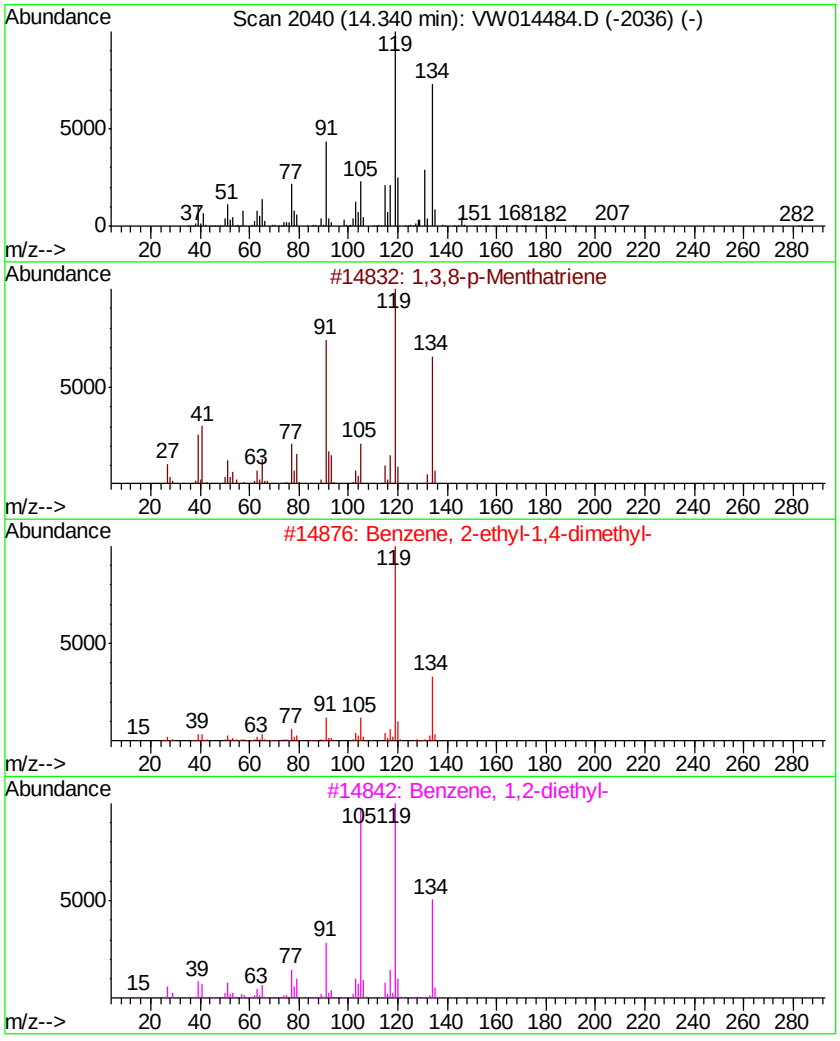
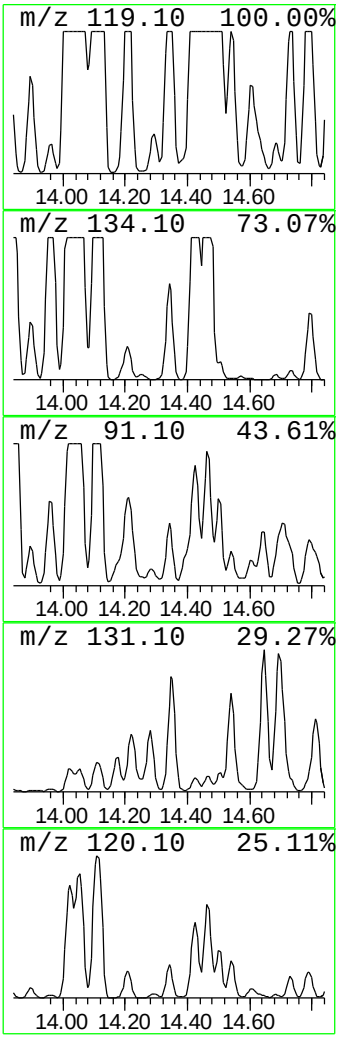
Peak Number 64 1,3,8-p-Menthatriene Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	8.70 ug/L	74754300	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,8-p-Menthatriene	134	C10H14	018368-95-1	74
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	60
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	58
4	o-Cymene	134	C10H14	000527-84-4	58
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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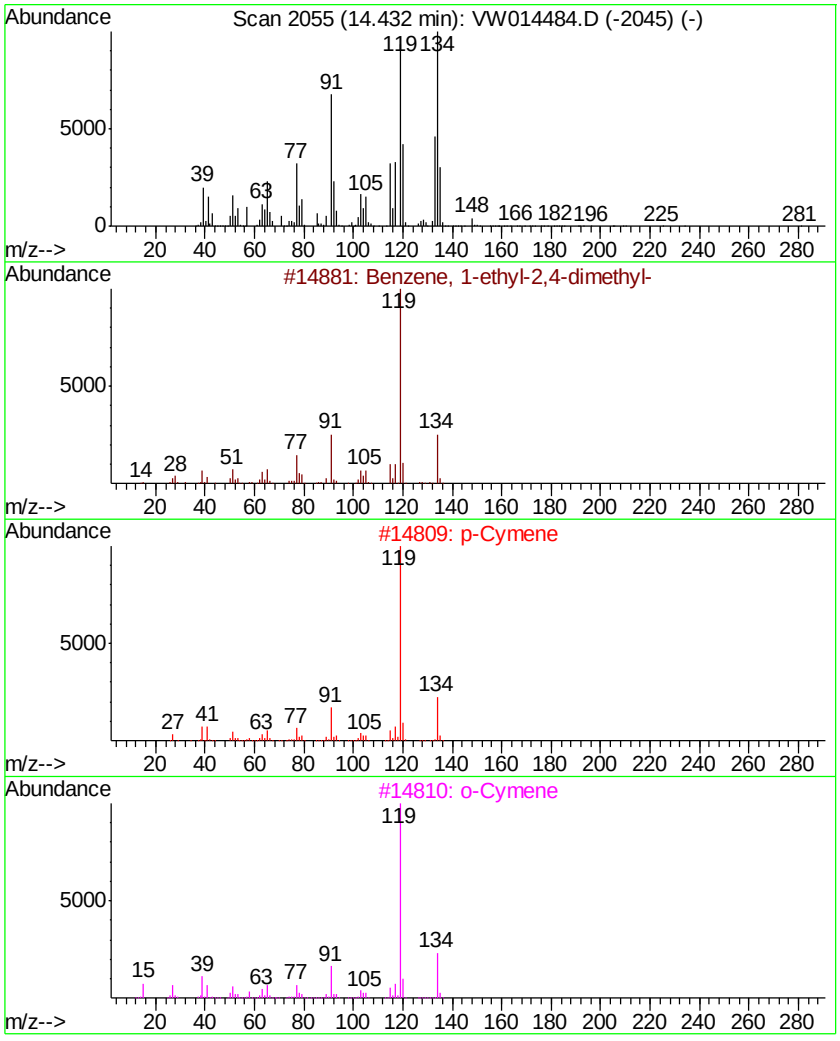
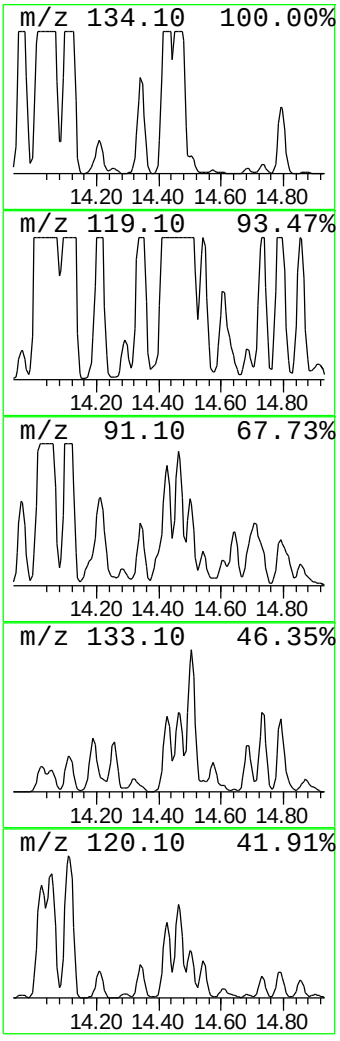
Peak Number 65 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	21.89 ug/L	188168000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	53
2	p-Cymene	134	C10H14	000099-87-6	49
3	o-Cymene	134	C10H14	000527-84-4	49
4	o-Cymene	134	C10H14	000527-84-4	49
5	1,3,8-p-Menthatriene	134	C10H14	018368-95-1	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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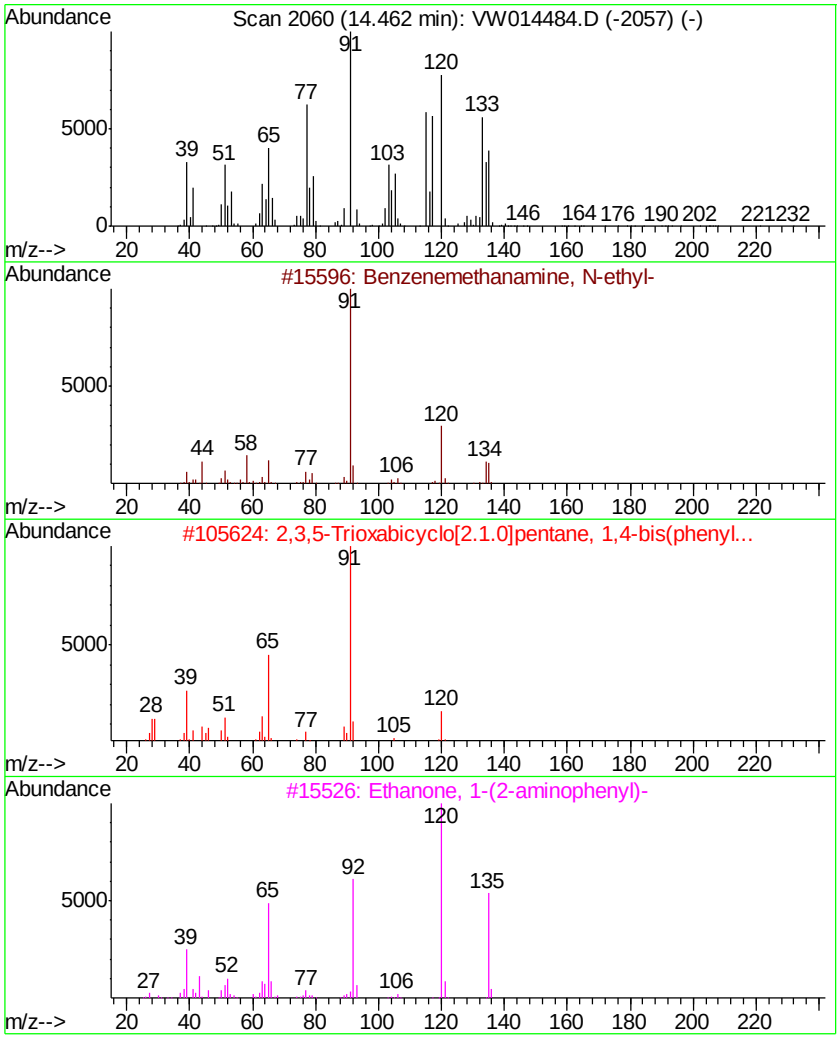
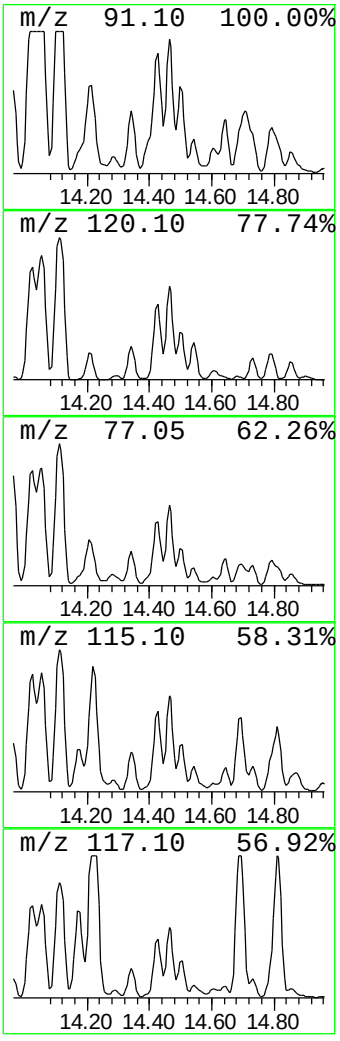
Peak Number 66 unknown-09 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.46	19.47 ug/L	167378000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenemethanamine, N-ethyl-	135	C9H13N	014321-27-8	47
2	2,3,5-Trioxabicyclo[2.1.0]pentan...	254	C16H14O3	056247-48-4	38
3	Ethanone, 1-(2-aminophenyl)-	135	C8H9NO	000551-93-9	37
4	Bicyclo[4.2.1]nona-2,4,7-triene,...	274	C15H14Se	072065-50-0	37
5	Acetophenone, 4'-amino-	135	C8H9NO	000099-92-3	37





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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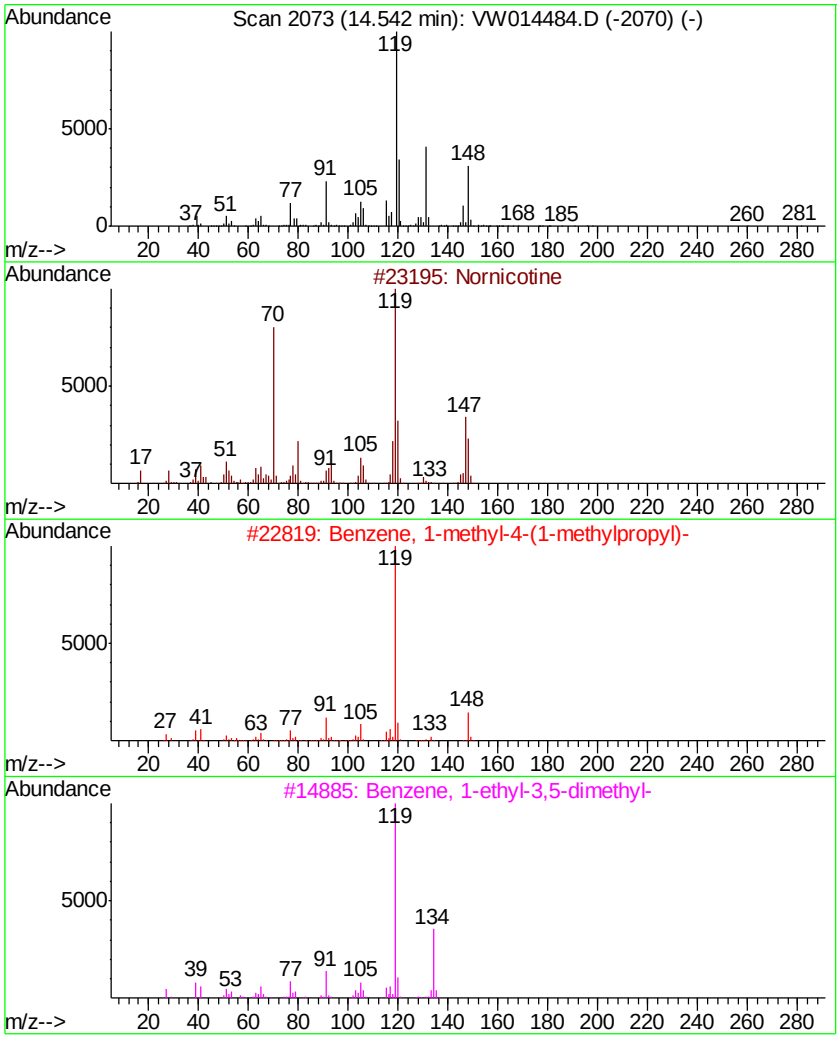
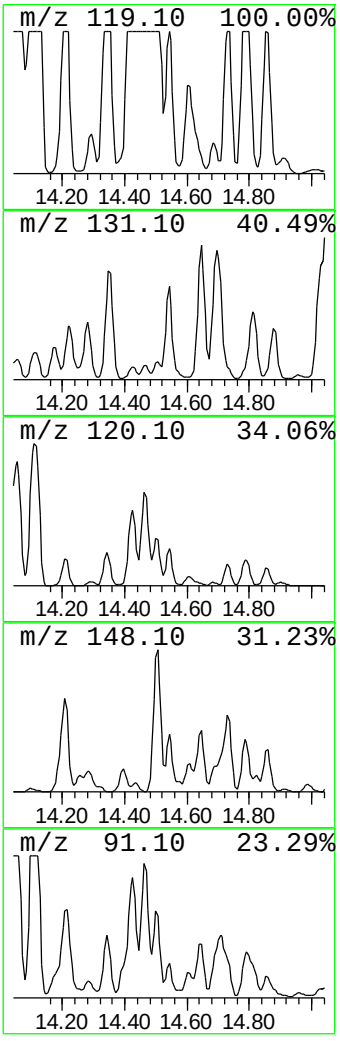
Peak Number 68 unknown-10 Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.54	5.01 ug/L	43054200	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nornicotine	148	C9H12N2	000494-97-3	47
2	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	46
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	38
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	35
5	Benzoic acid, 2,4-dimethyl-, (2,...	268	C18H20O2	055000-43-6	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

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

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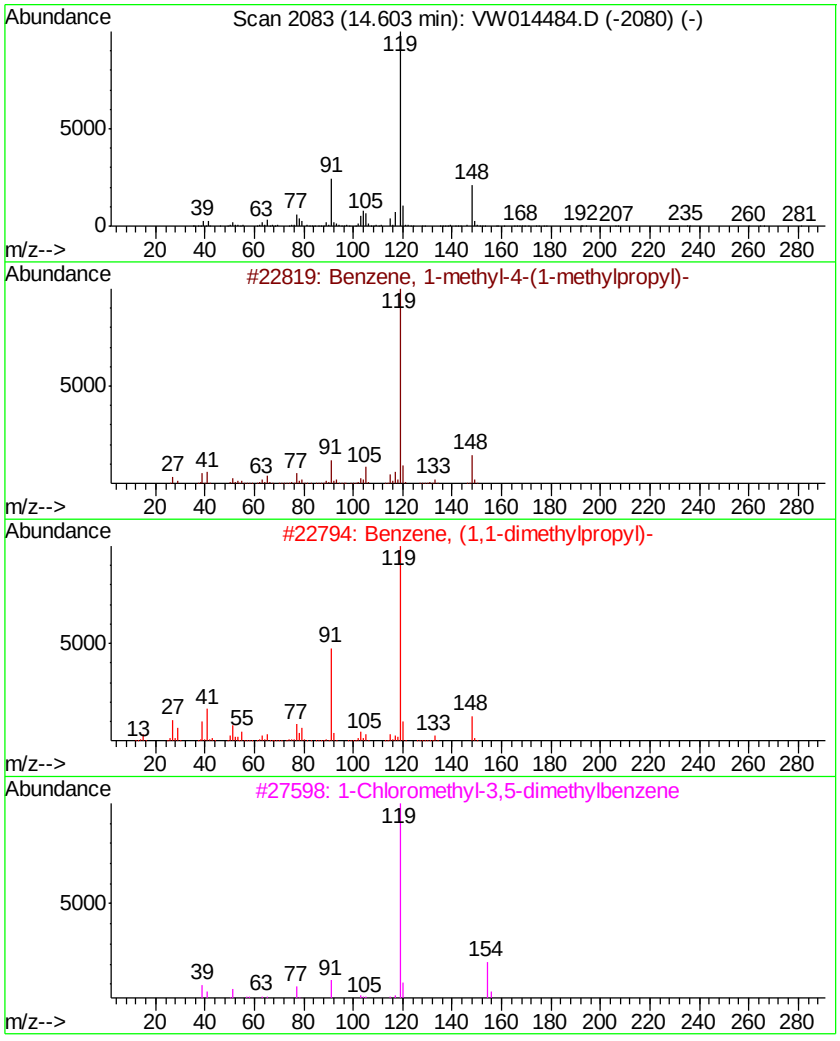
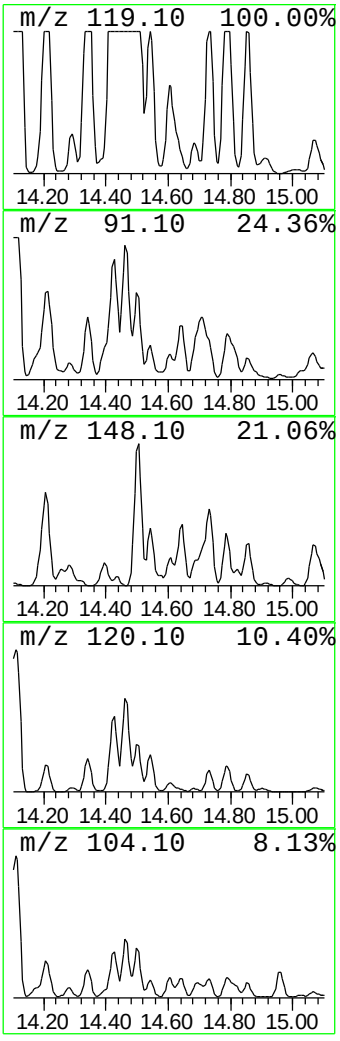
Peak Number 69 Benzene, 1-methyl-4-(1-meth... Concentration Rank 77

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.60	1.82 ug/L	15662100	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	87
2	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	72
3	1-Chloromethyl-3,5-dimethylbenzene	154	C9H11Cl	002745-54-2	64
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	64
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

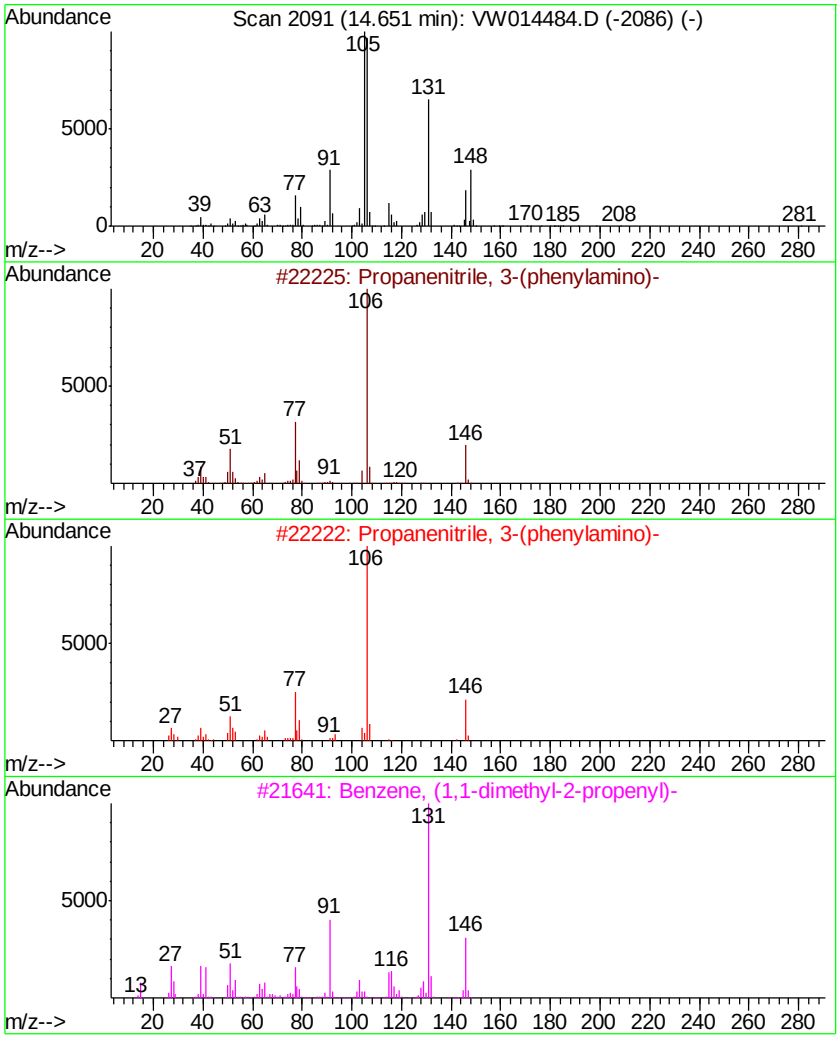
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

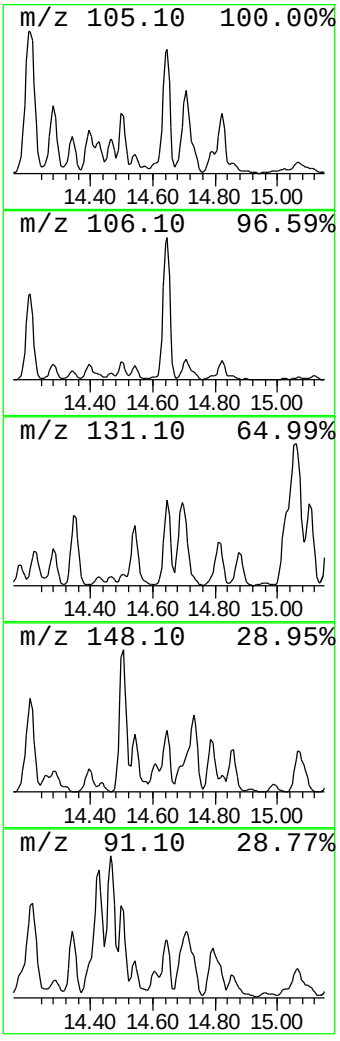
****

Peak Number 70 unknown-11 Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.65	6.12 ug/L	52618600	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanenitrile, 3-(phenylamino)-	146	C9H10N2	001075-76-9	38
2	Propanenitrile, 3-(phenylamino)-	146	C9H10N2	001075-76-9	38
3	Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14	018321-36-3	38
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	35
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

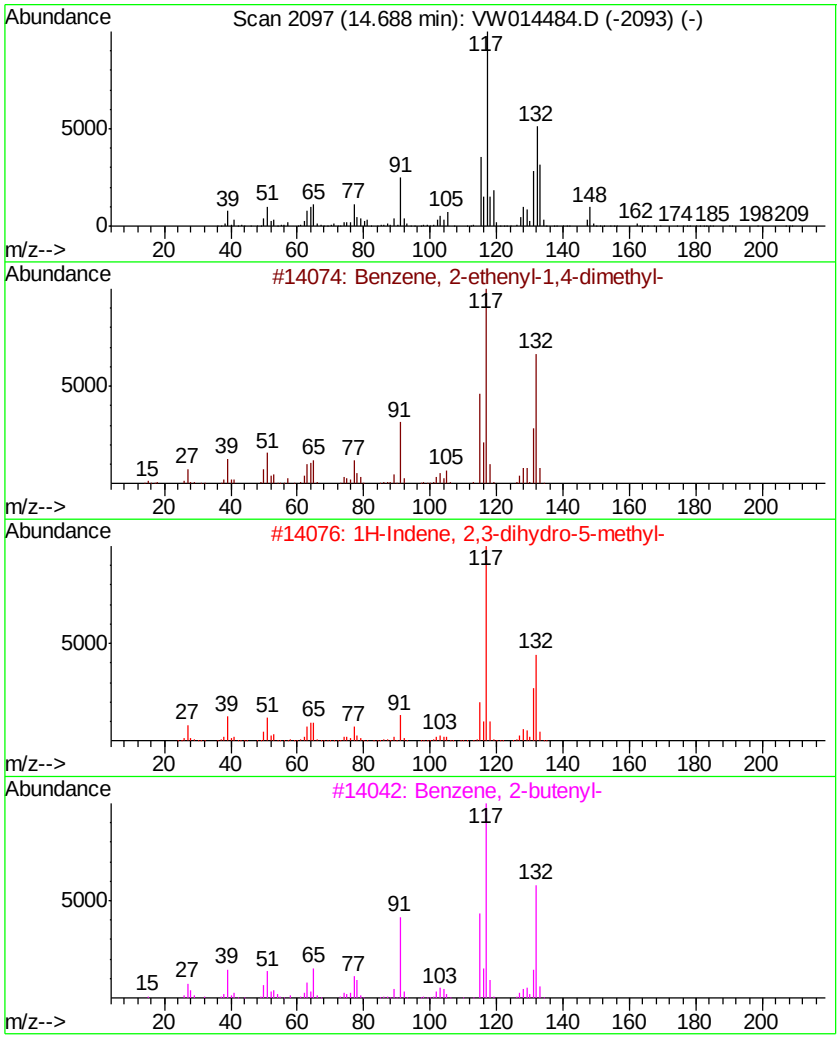
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

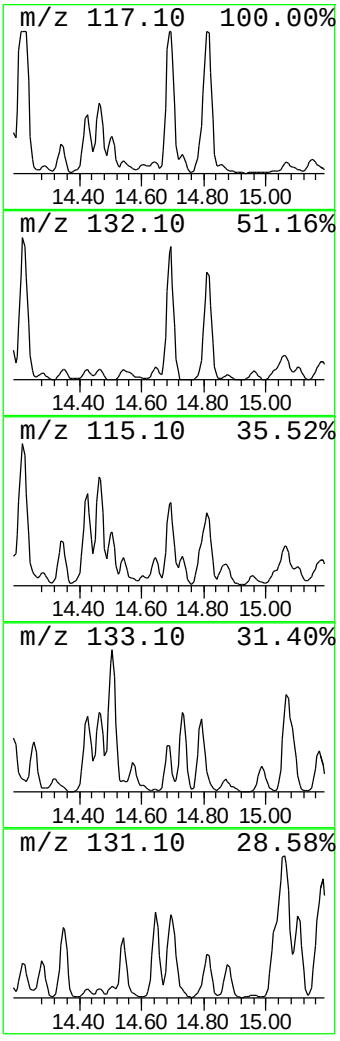
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 71 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.69	10.34 ug/L	88897700	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	81
3	Benzene, 2-butenyl-	132	C10H12	001560-06-1	76
4	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	76
5	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	76





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

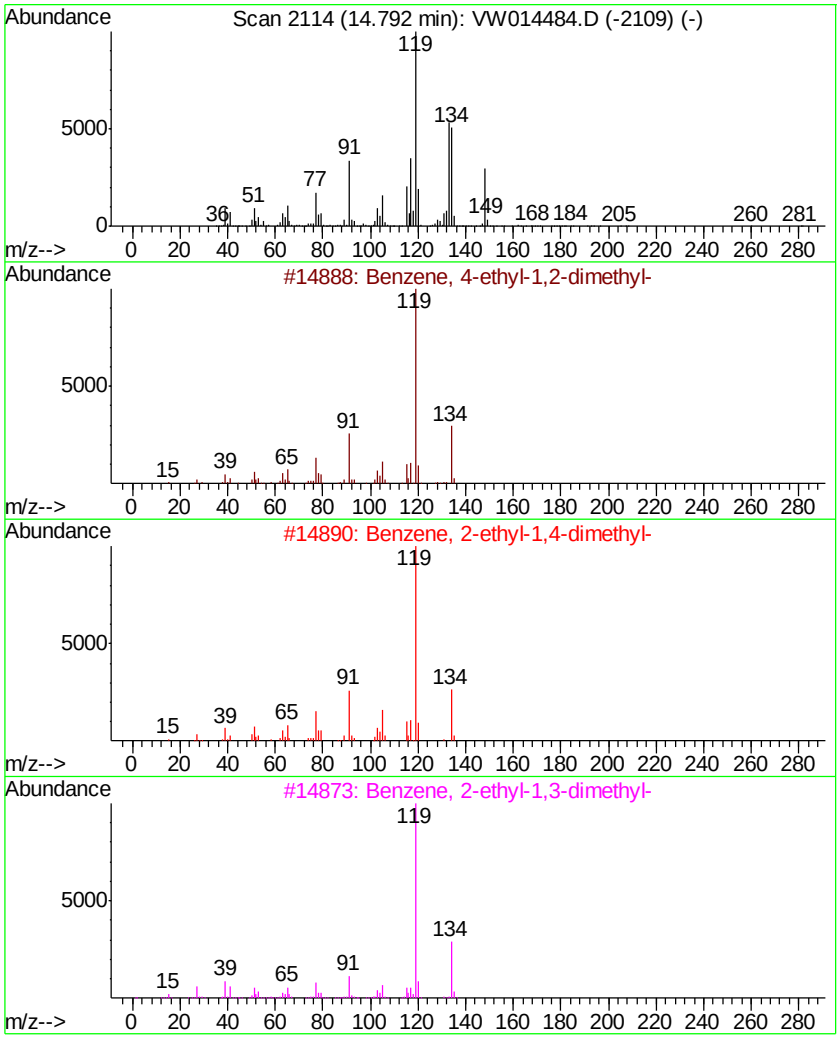
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

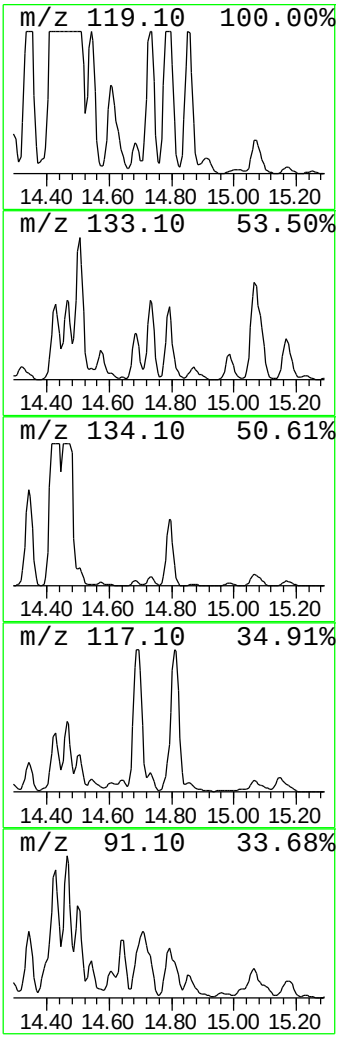
****

Peak Number 73 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.79	14.47 ug/L	124398000	1,4-Dichlorobenzene-d4	13.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	60
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	60
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	60
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	58
5	1,3,8-p-Menthatriene	134	C10H14	018368-95-1	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis

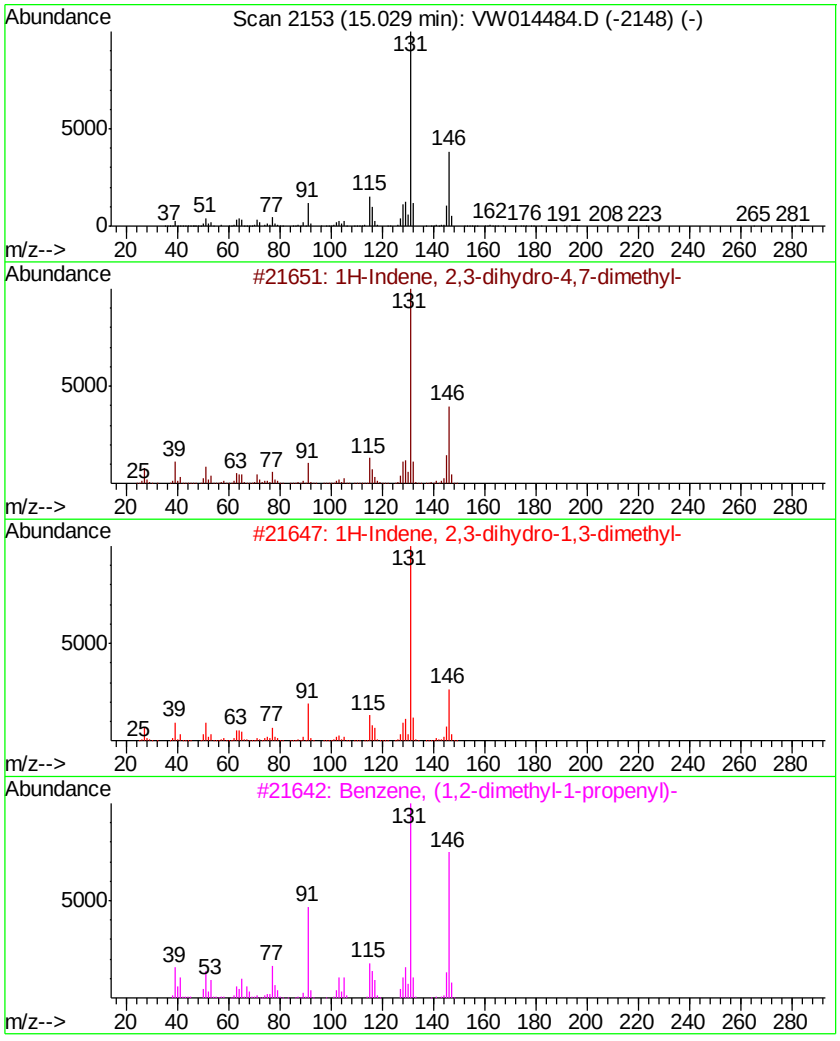
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

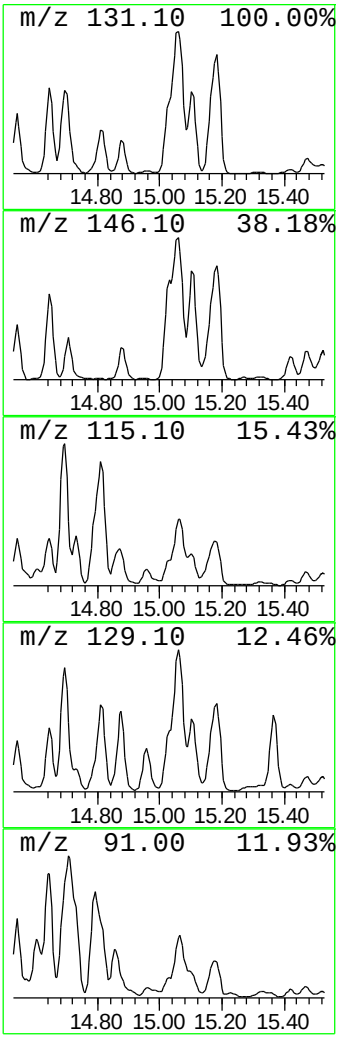
****

Peak Number 75 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 79

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	1.30 ug/L	11145200	1,4-Dichlorobenzene-d4	13.57

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-1,3-dimet...	146	C11H14	004175-53-5	94
3	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	94
4	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122719\
Data File : VW014484.D
Acq On : 28 Dec 2019 01:17
Operator : SY/VA
Sample : K6397-01
Misc : 5.28G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_W
ClientSampleId : ETK90

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.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...	4.96	16.4	ug/L	13887800	1	8.84	21154800	25.0
(DEL) Alkane: Str...	5.44	9.2	ug/L	7817820	1	8.84	21154800	25.0
(DEL) Alkane: Str...	5.94	22.2	ug/L	18804500	1	8.84	21154800	25.0
(DEL) Alkane: Str...	6.72	7.7	ug/L	6491610	1	8.84	21154800	25.0
(DEL) Alkane: Str...	6.88	128.8	ug/L	109000000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	7.70	9.2	ug/L	7766920	1	8.84	21154800	25.0
(DEL) Alkane: Str...	7.93	198.3	ug/L	167805000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	8.04	289.1	ug/L	244591000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	8.16	227.0	ug/L	192098000	1	8.84	21154800	25.0
4-Piperidone	8.51	497.8	ug/L	421207000	1	8.84	21154800	25.0
(DEL) Alkane: Cyc...	8.59	26.5	ug/L	22407900	1	8.84	21154800	25.0
(DEL) Alkane: Str...	8.70	143.8	ug/L	121660000	1	8.84	21154800	25.0
(DEL) Alkane: Cyc...	8.99	7.0	ug/L	5898880	1	8.84	21154800	25.0
(DEL) Alkane: Str...	9.15	14.4	ug/L	12181900	1	8.84	21154800	25.0
(DEL) Alkane: Str...	9.40	179.7	ug/L	152027000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	9.48	34.3	ug/L	28984200	1	8.84	21154800	25.0
(DEL) Alkane: Cyc...	9.52	33.6	ug/L	28424600	1	8.84	21154800	25.0
(DEL) Alkane: Cyc...	9.62	58.6	ug/L	49565800	1	8.84	21154800	25.0
(DEL) Alkane: Cyc...	9.77	363.3	ug/L	307398000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	9.91	364.6	ug/L	308475000	1	8.84	21154800	25.0
unknown-01	9.97	124.6	ug/L	105461000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	10.11	312.8	ug/L	264713000	1	8.84	21154800	25.0
(DEL) Alkane: Str...	10.26	28.6	ug/L	101155000	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	10.45	15.4	ug/L	54654100	2	11.63	88584600	25.0
(DEL) Alkane: Str...	10.51	55.4	ug/L	196396000	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	10.69	11.0	ug/L	38826000	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	10.77	28.9	ug/L	102518000	2	11.63	88584600	25.0
(DEL) Alkane: Str...	10.85	15.4	ug/L	54735900	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	11.00	4.5	ug/L	15976500	2	11.63	88584600	25.0
(DEL) Alkane: Str...	11.04	20.7	ug/L	73334000	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	11.11	4.5	ug/L	16074300	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	11.15	2.4	ug/L	8581840	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	11.18	4.3	ug/L	15299200	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	11.24	6.2	ug/L	21905500	2	11.63	88584600	25.0
unknown-02	11.29	6.2	ug/L	22019600	2	11.63	88584600	25.0
(DEL) Alkane: Str...	11.35	11.6	ug/L	40922700	2	11.63	88584600	25.0
(DEL) Alkane: Str...	11.42	76.9	ug/L	272431000	2	11.63	88584600	25.0
Piperidine, 4-met...	11.52	46.6	ug/L	164990000	2	11.63	88584600	25.0
(DEL) Alkane: Cyc...	11.96	2.1	ug/L	7337090	2	11.63	88584600	25.0
4-Methylpentyl pe...	12.04	6.5	ug/L	22937200	2	11.63	88584600	25.0
(DEL) Alkane: Str...	12.07	21.6	ug/L	76675400	2	11.63	88584600	25.0
(DEL) Alkane: Str...	12.26	22.9	ug/L	81062800	2	11.63	88584600	25.0
(DEL) Alkane: Str...	12.33	15.4	ug/L	54750600	2	11.63	88584600	25.0
unknown-03	12.60	25.1	ug/L	215866000	3	13.57	214864000	25.0
(DEL) Alkane: Str...	12.77	8.8	ug/L	76059700	3	13.57	214864000	25.0
Benzene, propyl-	12.80	11.0	ug/L	94435500	3	13.57	214864000	25.0
Benzene, 1-ethyl-...	12.88	22.6	ug/L	194037000	3	13.57	214864000	25.0
(DEL) Alkane: Str...	12.94	46.7	ug/L	401452000	3	13.57	214864000	25.0
Octyl thioglycolate	13.18	2.0	ug/L	17463800	3	13.57	214864000	25.0

unknown-04	13.20	2.3	ug/L	19662700	3	13.57	214864000	25.0
Benzaldehyde, 2-m...	13.26	34.7	ug/L	298017000	3	13.57	214864000	25.0
Benzenepropanal	13.38	19.3	ug/L	165736000	3	13.57	214864000	25.0
Ethanone, 1-(2-me...	13.45	11.7	ug/L	100680000	3	13.57	214864000	25.0
o-Cymene	13.50	8.0	ug/L	68330800	3	13.57	214864000	25.0
Sulfurous acid, n...	13.64	9.3	ug/L	80156000	3	13.57	214864000	25.0
unknown-05	13.80	53.2	ug/L	456862000	3	13.57	214864000	25.0
Benzene, 1-methyl...	13.96	16.1	ug/L	138074000	3	13.57	214864000	25.0
unknown-06	14.02	25.9	ug/L	222301000	3	13.57	214864000	25.0
unknown-07	14.11	35.3	ug/L	302945000	3	13.57	214864000	25.0
Benzene, 1-methyl...	14.21	20.4	ug/L	175487000	3	13.57	214864000	25.0
unknown-08	14.28	3.6	ug/L	30712800	3	13.57	214864000	25.0
1,3,8-p-Menthatriene	14.34	8.7	ug/L	74754300	3	13.57	214864000	25.0
Benzene, 1-ethyl-...	14.43	21.9	ug/L	188168000	3	13.57	214864000	25.0
unknown-09	14.46	19.5	ug/L	167378000	3	13.57	214864000	25.0
unknown-10	14.54	5.0	ug/L	43054200	3	13.57	214864000	25.0
Benzene, 1-methyl...	14.60	1.8	ug/L	15662100	3	13.57	214864000	25.0
unknown-11	14.65	6.1	ug/L	52618600	3	13.57	214864000	25.0
Benzene, 2-etheny...	14.69	10.3	ug/L	88897700	3	13.57	214864000	25.0
Benzene, 4-ethyl-...	14.79	14.5	ug/L	124398000	3	13.57	214864000	25.0
1H-Indene, 2,3-di...	15.03	1.3	ug/L	11145200	3	13.57	214864000	25.0

Instrument :
MSVOA_W
ClientSampleId :
ETK90