LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.110	3	6	19	rVB2	9817	11429	0.04%	0.030%
2	1.209	29	37	52	rBV	23873	55673	0.18%	0.147%
3	1.309	63	68	80	rVB	44219	45641	0.14%	0.120%
4	1.383	86	91	99	rVB	20154	20522	0.06%	0.054%
5	1.560	140	146	155	rVB	30066	35849	0.11%	0.095%
6	2.116	306	319	331	rVB2	74430	113325	0.36%	0.299%
7	2.183	331	340	349	rVB	7714	11120	0.04%	0.029%
8	2.302	365	377	389	rVB	9229	13850	0.04%	0.037%
9	2.527	439	447	454	rBV3	2402	3826	0.01%	0.010%
10	2.781	520	526	527	rBV3	806	637	0.00%	0.002%
11	2.987	583	590	595	rVV4	520	657	0.00%	0.002%
12	3.064	609	614	620	rBV2	425	434	0.00%	0.001%
13	3.550	756	765	769	rBV2	215	388	0.00%	0.001%
14	3.733	807	822	835	rVV2	3994	9938	0.03%	0.026%
15	3.952	865	890	921	rBV2	287424	722732	2.28%	1.906%
16	4.392	1010	1027	1045	rBV	59221	142316	0.45%	0.375%
17	4.486	1052	1056	1057	rBV2	586	387	0.00%	0.001%
18	4.650	1090	1107	1125	rBV2	23698	58057	0.18%	0.153%
19	5.090	1225	1244	1269	rBV2	136228	344989	1.09%	0.910%
20	5.270	1296	1300	1303	rVV4	617	428	0.00%	0.001%
21	5.357	1323	1327	1329	rBV	397	369	0.00%	0.001%
22	5.534	1378	1382	1387	rVB3	590	558	0.00%	0.001%
23	5.659	1403	1421	1439	rBV	112768	223992	0.71%	0.591%
24	5.794	1453	1463	1466	rBV7	2450	4302	0.01%	0.011%
25	5.965	1485	1516	1550	rBV	15001298	31705795	100.00%	83.631%
26	6.116	1553	1563	1583	rVB	84703	180218	0.57%	0.475%
27	6.235	1590	1600	1622	rVB2	84726	176249	0.56%	0.465%
28	6.441	1647	1664	1676	rBV5	8879	20958	0.07%	0.055%
29	6.486	1676	1678	1682	rVB2	706	407	0.00%	0.001%
30	6.543	1693	1696	1699	rVB2	407	343	0.00%	0.001%
31	6.592	1699	1711	1722	rBV7	3381	7315	0.02%	0.019%
32	6.691	1739	1742	1743	rBV2	572	377	0.00%	0.001%
33	6.884	1794	1802	1816	rVB7	6152	12480	0.04%	0.033%
34	6.955	1816	1824	1832	rBV6	3092	5623	0.02%	0.015%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Title : VOC Analysis

35	7.026	1832	1846	1864	rVB	40533	73112	0.23%	0.193%
36	7.125	1868	1877	1884	rVV7	2816	4559	0.01%	0.012%
37	7.186	1891	1896	1903	rVB5	918	1283	0.00%	0.003%
38	7.235	1908	1911	1916	rVB2	376	368	0.00%	0.001%
39	7.357	1922	1949	1965	rBV	140880	270258	0.85%	0.713%
40	7.563	2009	2013	2018	rBV4	494	460	0.00%	0.001%
41	7.608	2018	2027	2034	rBV4	7879	12480	0.04%	0.033%
42	7.659	2034	2043	2063	rBV	25715	47472	0.15%	0.125%
43	7.833	2089	2097	2104	rVV9	2345	3229	0.01%	0.009%
44	7.884	2105	2113	2119	rVV9	2101	3395	0.01%	0.009%
45	8.016	2130	2154	2180	rBV	1089670	1876178	5.92%	4.949%
46	8.129	2180	2189	2201	rBV	62820	105272	0.33%	0.278%
47	8.408	2263	2276	2277	rBV9	5398	8628	0.03%	0.023%
48	8.550	2302	2320	2333	rBV9	8209	22809	0.07%	0.060%
49	8.711	2363	2370	2380	rVB5	11426	20551	0.06%	0.054%
50	8.781	2390	2392	2397	rVB3	553	389	0.00%	0.001%
51	8.833	2397	2408	2417	rBV5	13876	25341	0.08%	0.067%
52	8.894	2417	2427	2449	rVB	163326	267192	0.84%	0.705%
53	8.990	2453	2457	2458	rBV4	951	631	0.00%	0.002%
54	9.013	2460	2464	2466	rBV4	1744	1375	0.00%	0.004%
55	9.096	2487	2490	2497	rVB7	1946	2216	0.01%	0.006%
56	9.264	2527	2542	2562	rVB3	123074	256981	0.81%	0.678%
57	9.408	2581	2587	2591	rBV3	708	687	0.00%	0.002%
58	9.456	2591	2602	2603	rBV4	1095	1489	0.00%	0.004%
59	9.598	2639	2646	2648	rBV6	2982	3672	0.01%	0.010%
60	9.717	2674	2683	2684	rBV5	6260	6593	0.02%	0.017%
61	9.749	2688	2693	2704	rVB5	16890	25559	0.08%	0.067%
62	9.839	2713	2721	2732	rBV6	20360	35705	0.11%	0.094%
63	9.948	2749	2755	2765	rBV7	3487	6343	0.02%	0.017%
64	10.019	2771	2777	2783	rBV8	4900	7526	0.02%	0.020%
65	10.164	2816	2822	2833	rVB6	15022	25305	0.08%	0.067%
66	10.212	2834	2837	2838	rVV3	2435	1463	0.00%	0.004%
67	10.260	2842	2852	2871	rVB	99109	179187	0.57%	0.473%
68	10.434	2897	2906	2916	rBV	6902	15195	0.05%	0.040%
69	10.492	2919	2924	2934	rVV6	9437	16947	0.05%	0.045%
70	10.553	2935	2943	2952	rVV4	14622	26376	0.08%	0.070%
71	10.617	2954	2963	2984	rVB2	48420	88589	0.28%	0.234%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Title : VOC Analysis

72	10.919	3051	3057	3068	rBV8	7131	12317	0.04%	0.032%
73	11.080	3101	3107	3111	rBV7	3364	4345	0.01%	0.011%
74	11.196	3137	3143	3153	rVB5	14516	20921	0.07%	0.055%
75	11.292	3163	3173	3185	rBV	117750	195257	0.62%	0.515%
76	11.508	3235	3240	3249	rVB6	5048	6818	0.02%	0.018%
77	11.575	3253	3261	3270	rBV6	6030	10515	0.03%	0.028%
78	11.672	3279	3291	3308	rVB	111972	203380	0.64%	0.536%
79	11.833	3332	3341	3349	rBV4	13532	20410	0.06%	0.054%
80	11.987	3384	3389	3395	rVB6	2969	3261	0.01%	0.009%
81	12.025	3399	3401	3404	rBV4	1418	949	0.00%	0.003%
82	12.128	3431	3433	3437	rVB4	755	547	0.00%	0.001%
83	12.154	3437	3441	3443	rBV2	972	715	0.00%	0.002%
84	12.206	3447	3457	3459	rBV6	3485	4980	0.02%	0.013%
85	12.299	3475	3486	3495	rBV8	8255	17012	0.05%	0.045%
86	12.402	3509	3518	3520	rBV4	2652	3425	0.01%	0.009%
87	12.517	3547	3554	3560	rBV6	3567	4479	0.01%	0.012%
88	12.595	3576	3578	3584	rVV3	879	849	0.00%	0.002%
89	12.640	3587	3592	3594	rBV3	1012	641	0.00%	0.002%
90	12.717	3611	3616	3617	rBV3	768	729	0.00%	0.002%
91	12.845	3654	3656	3663	rVB5	993	696	0.00%	0.002%
92	12.894	3665	3671	3673	rVV3	941	747	0.00%	0.002%
93	12.932	3676	3683	3693	rVB8	2021	3856	0.01%	0.010%
94	12.990	3694	3701	3707	rBV7	5258	6825	0.02%	0.018%
95	13.048	3715	3719	3721	rBV3	1212	1059	0.00%	0.003%
96	13.524	3860	3867	3868	rBV3	473	472	0.00%	0.001%
97	13.630	3896	3900	3905	rBV5	913	915	0.00%	0.002%
98	14.083	4029	4041	4053	rBV2	4218	8423	0.03%	0.022%
99	15.408	4450	4453	4457	rBV3	438	423	0.00%	0.001%
100	16.832	4892	4896	4897	rBV	527	443	0.00%	0.001%

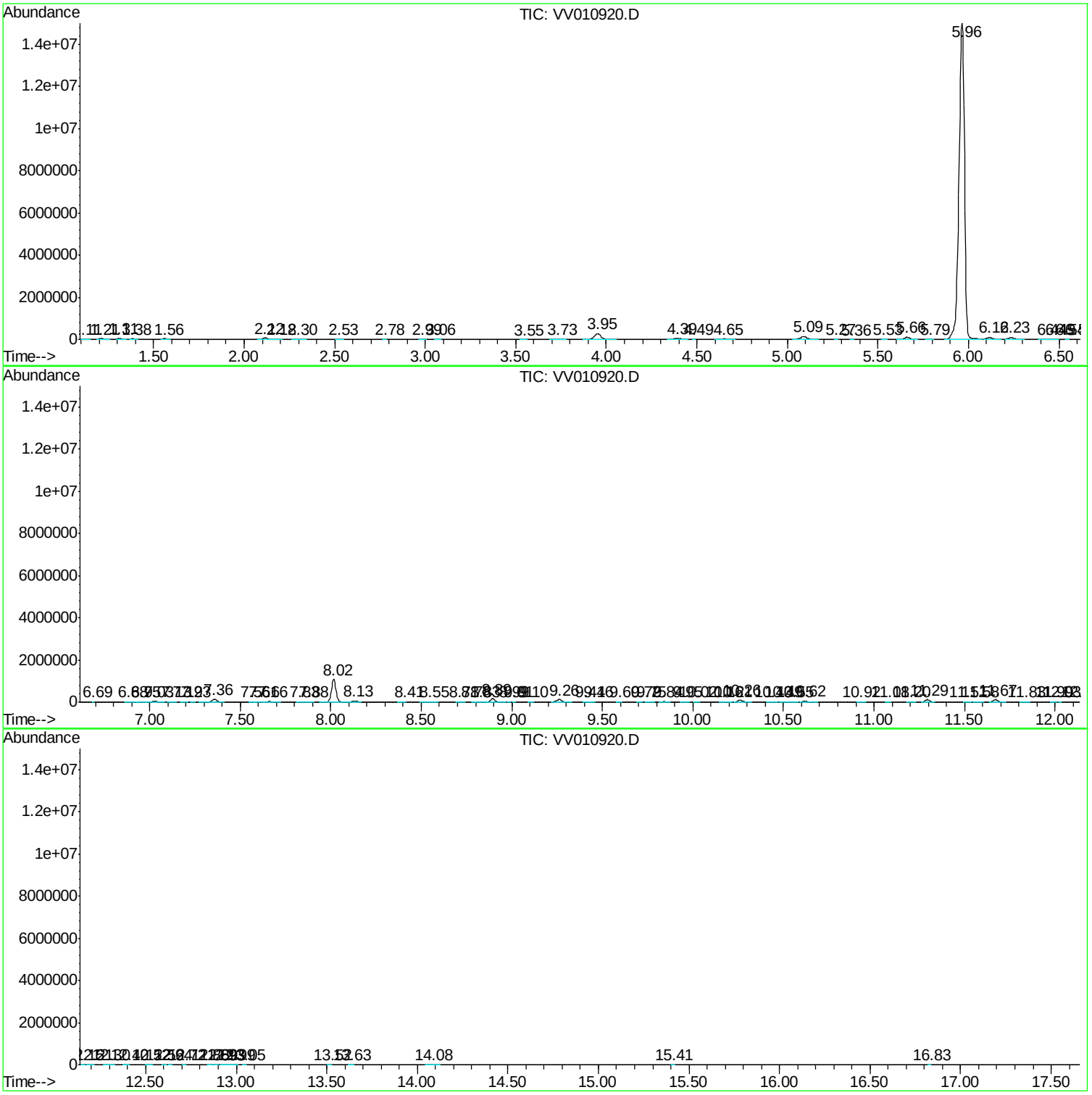
Sum of corrected areas: 37911408

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

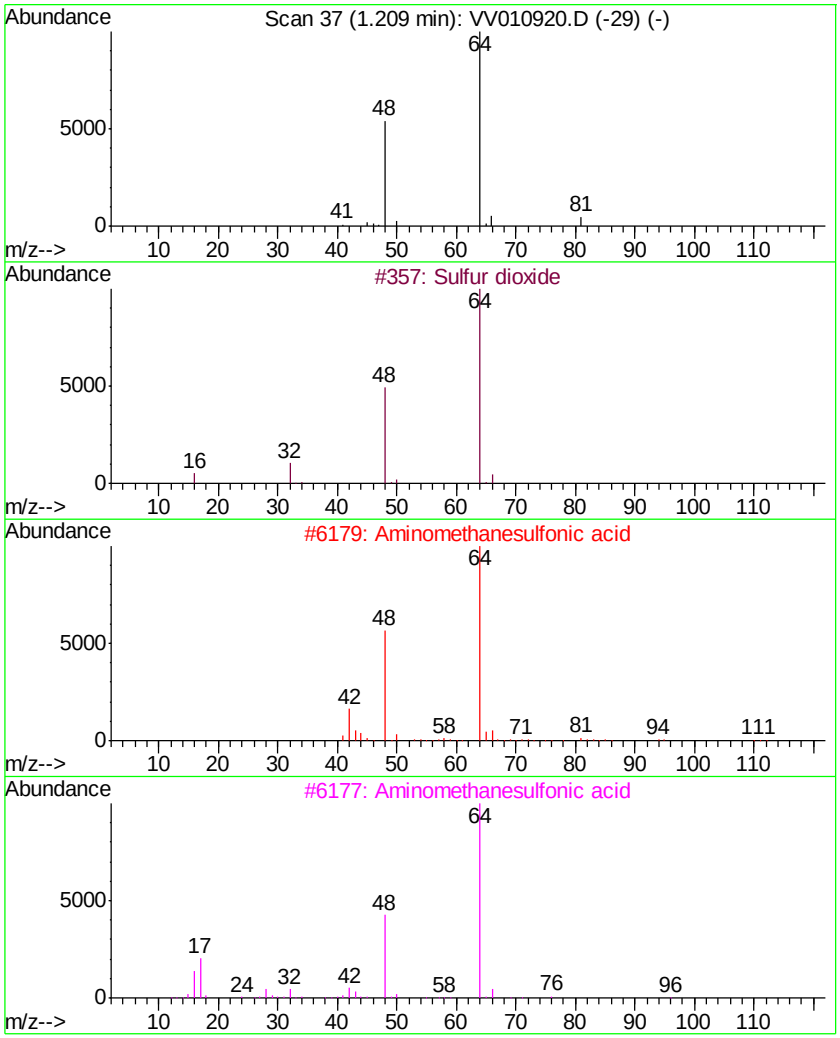
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

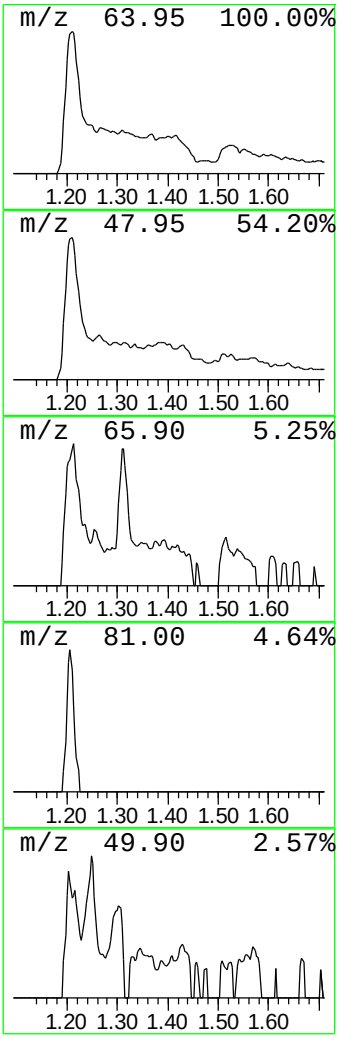
****

Peak Number 2 Sulfur dioxide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.21	6.21 ug/L	55673	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	90
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	64
3	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	64
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	9
5	2-Aminoethyl hydrogen sulfate	141	C2H7NO4S	000926-39-6	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

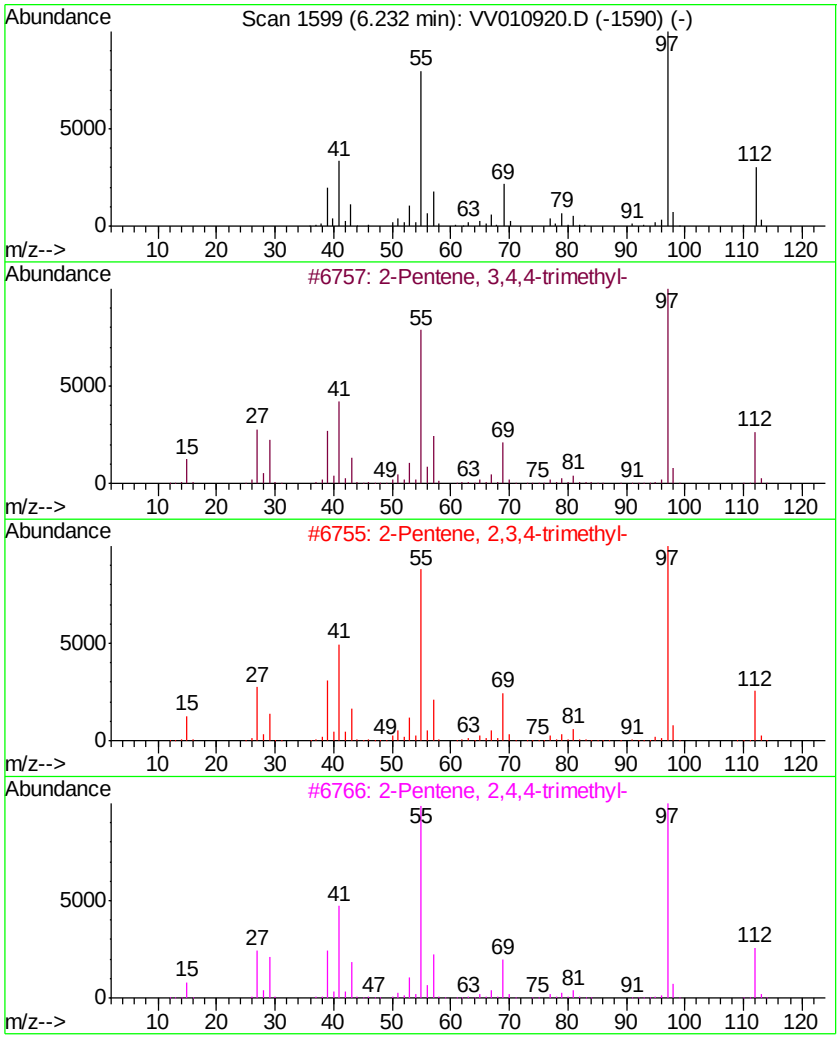
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

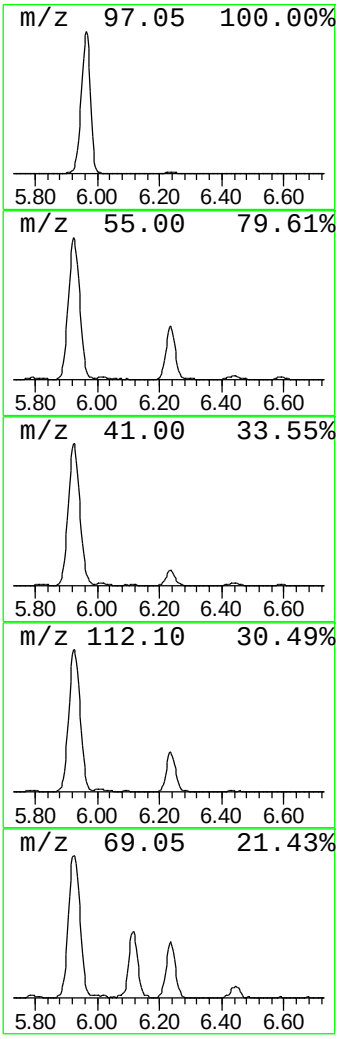
****

Peak Number 4 (DEL) Alkane: Cyclic6.23 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.23	19.67 ug/L	176249	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3,4,4-trimethyl-	112	C8H16	000598-96-9	94
2	2-Pentene, 2,3,4-trimethyl-	112	C8H16	000565-77-5	94
3	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	91
4	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	91
5	2-Pentene, 3,4,4-trimethyl-	112	C8H16	000598-96-9	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

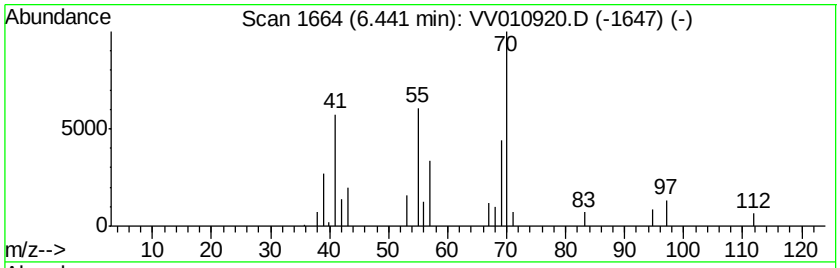
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

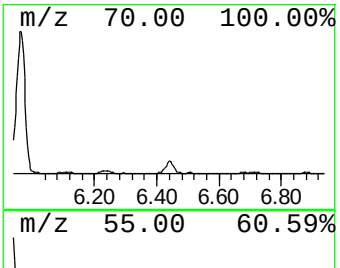
****

Peak Number 5 (DEL) Alkane: Cyclic6.44 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.44	2.34 ug/L	20958	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	64
2	Heptane, 3-methylene-	112	C8H16	001632-16-2	64
3	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	64
4	Heptane, 3-methylene-	112	C8H16	001632-16-2	64
5	Heptane, 3-methylene-	112	C8H16	001632-16-2	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

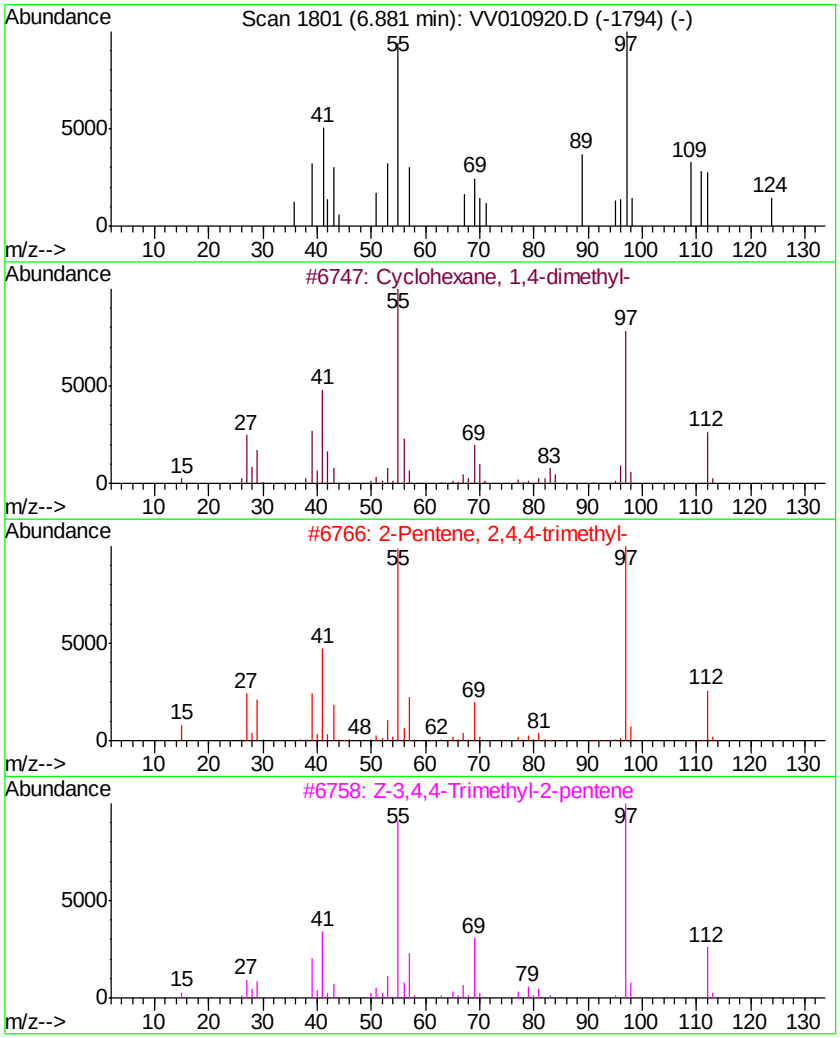
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

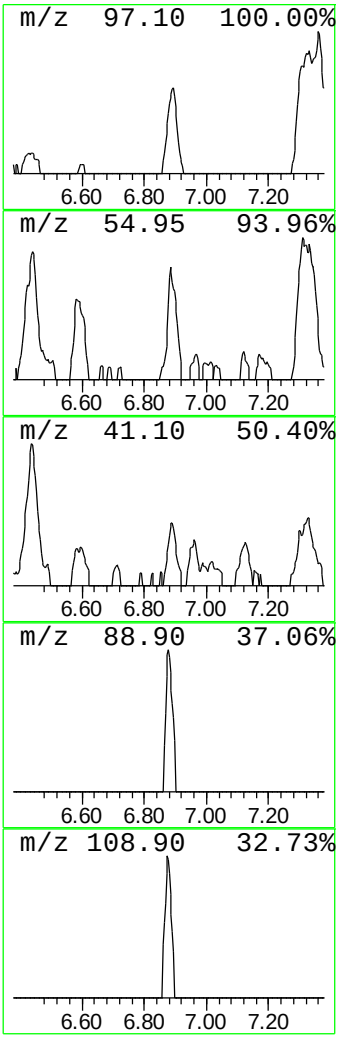
****

Peak Number 6 (DEL) Alkane: Cyclic6.88 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.88	1.39 ug/L	12480	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	52
2	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	49
3	Z-3,4,4-Trimethyl-2-pentene	112	C8H16	039761-64-3	49
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	49
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

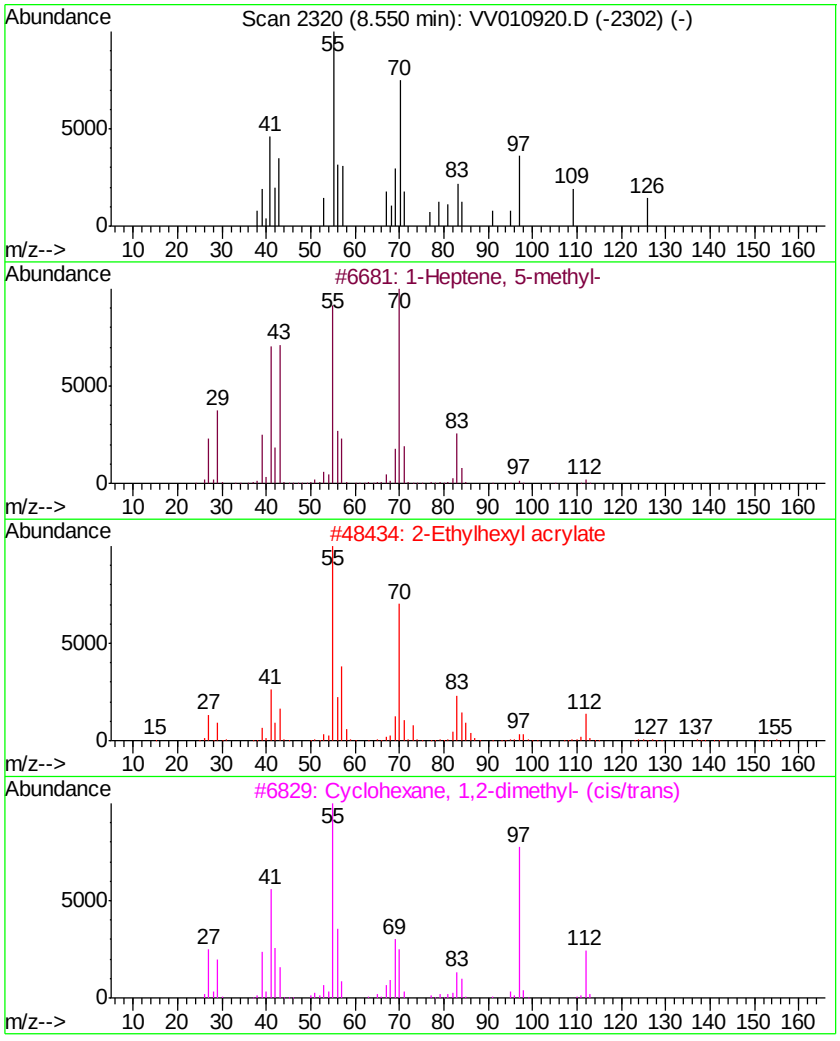
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

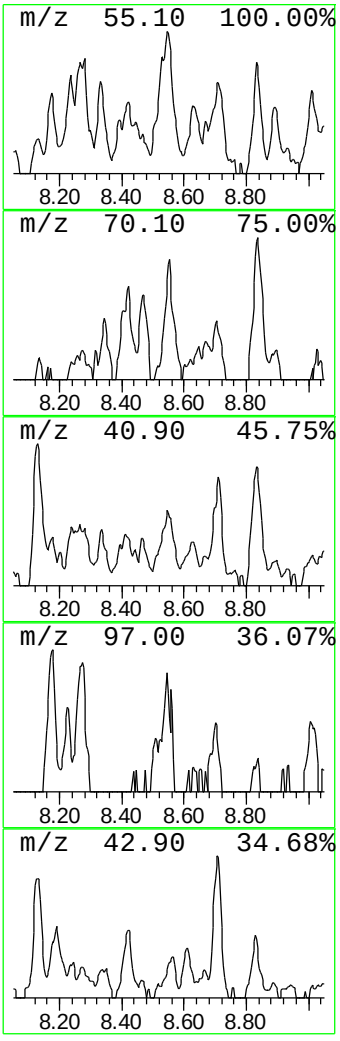
****

Peak Number 8 (DEL) Alkane: Cyclic8.55 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.55	2.13 ug/L	22809	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptene, 5-methyl-	112	C8H16	013151-04-7	59
2	2-Ethylhexyl acrylate	184	C11H20O2	000103-11-7	50
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	43
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	43
5	3-Chloropropionic acid, hexadecy...	332	C19H37ClO2	053312-70-2	43





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Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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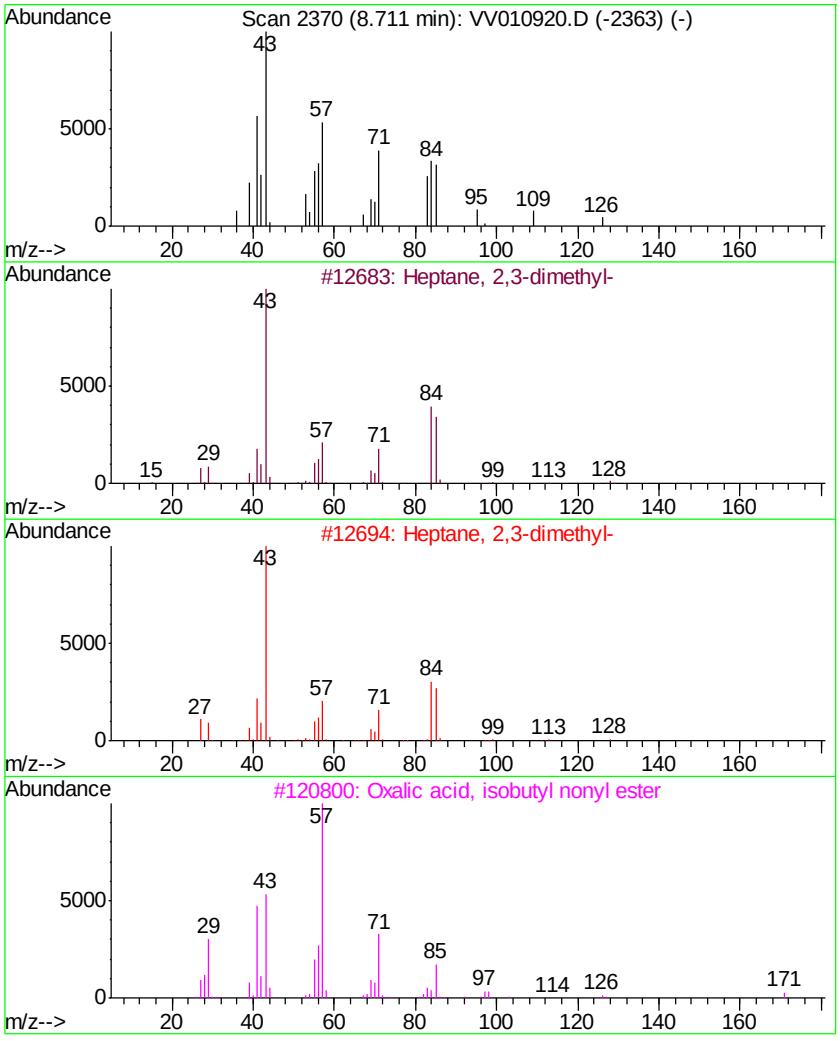
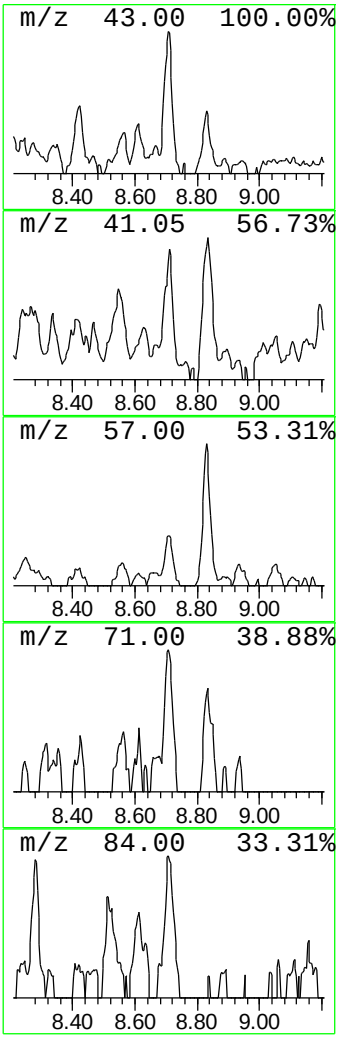
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.71	1.92 ug/L	20551	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	53
2	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	42
3	Oxalic acid, isobutyl nonyl ester	272	C15H28O4	1000309-37-4	42
4	Hydroxylamine, O-decyl-	173	C10H23NO	029812-79-1	38
5	Carbonic acid, isobutyl 2-ethylh...	230	C13H26O3	1000357-82-9	37





Library Search Compound Report

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Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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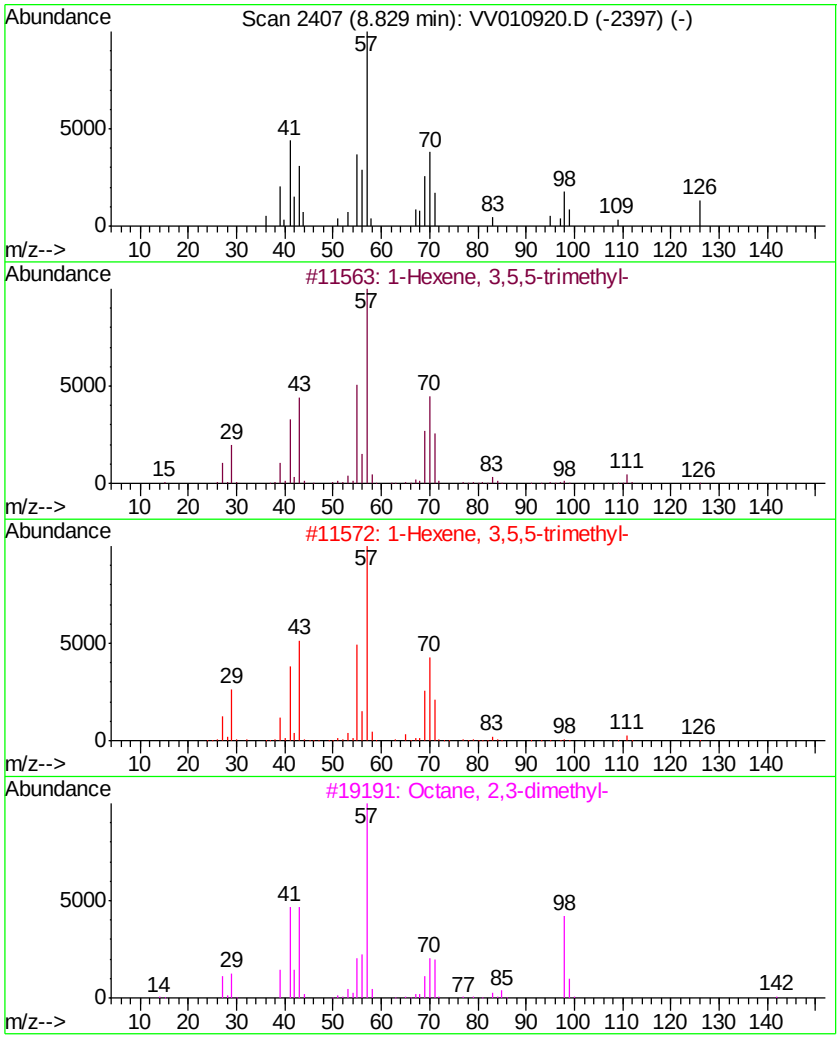
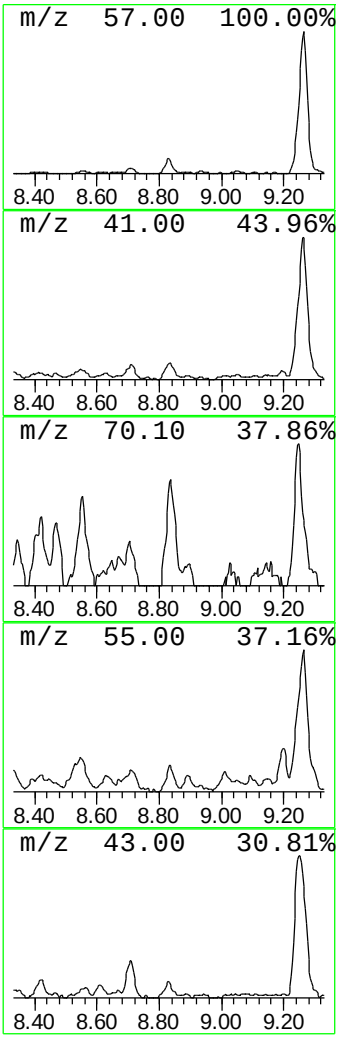
Peak Number 10 (DEL) Alkane: Cyclic8.83 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.83	2.37 ug/L	25341	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 3,5,5-trimethyl-	126	C9H18	004316-65-8	47
2	1-Hexene, 3,5,5-trimethyl-	126	C9H18	004316-65-8	47
3	Octane, 2,3-dimethyl-	142	C10H22	007146-60-3	47
4	Heptyl isobutyl carbonate	216	C12H24O3	959068-08-7	43
5	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	40





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Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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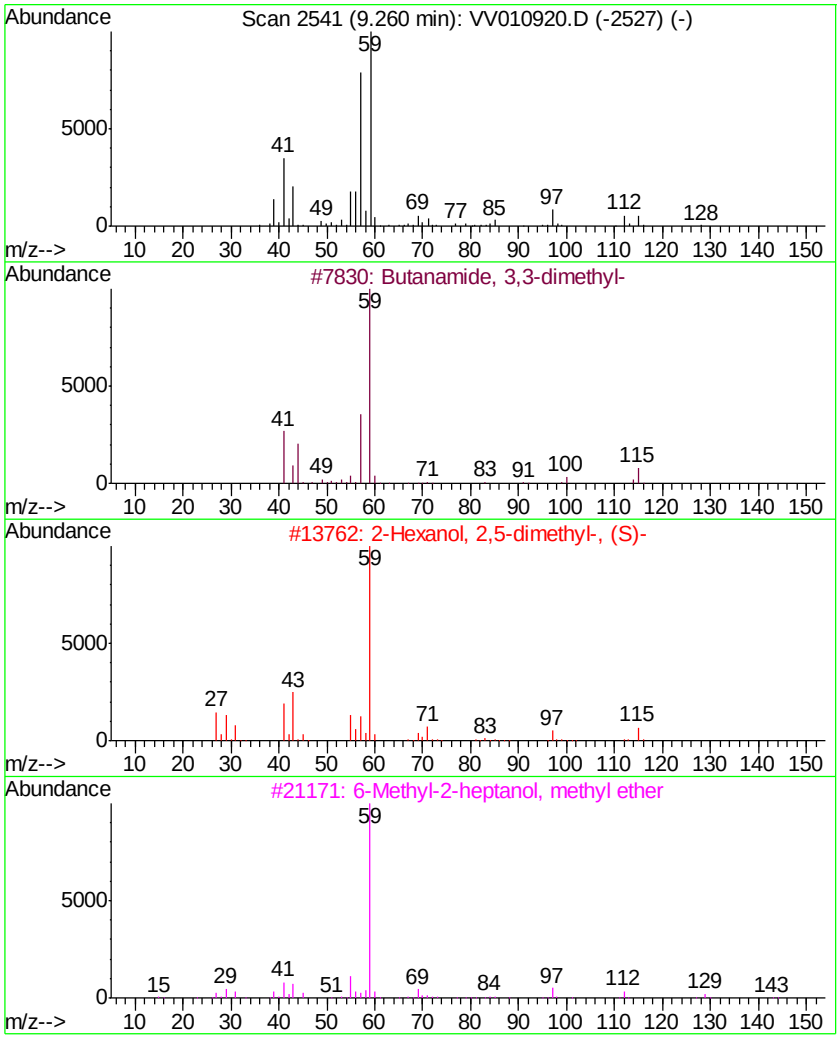
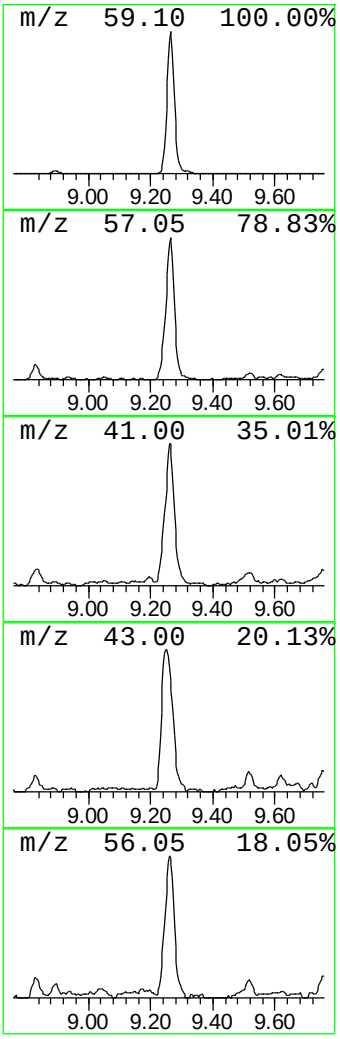
Peak Number 11 Butanamide, 3,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.26	24.04 ug/L	256981	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanamide, 3,3-dimethyl-	115	C6H13NO	000926-04-5	58
2	2-Hexanol, 2,5-dimethyl-, (S)-	130	C8H18O	003730-60-7	50
3	6-Methyl-2-heptanol, methyl ether	144	C9H20O	1000365-52-0	42
4	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	39
5	2-Hexanol, 2,5-dimethyl-, (S)-	130	C8H18O	003730-60-7	39





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Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

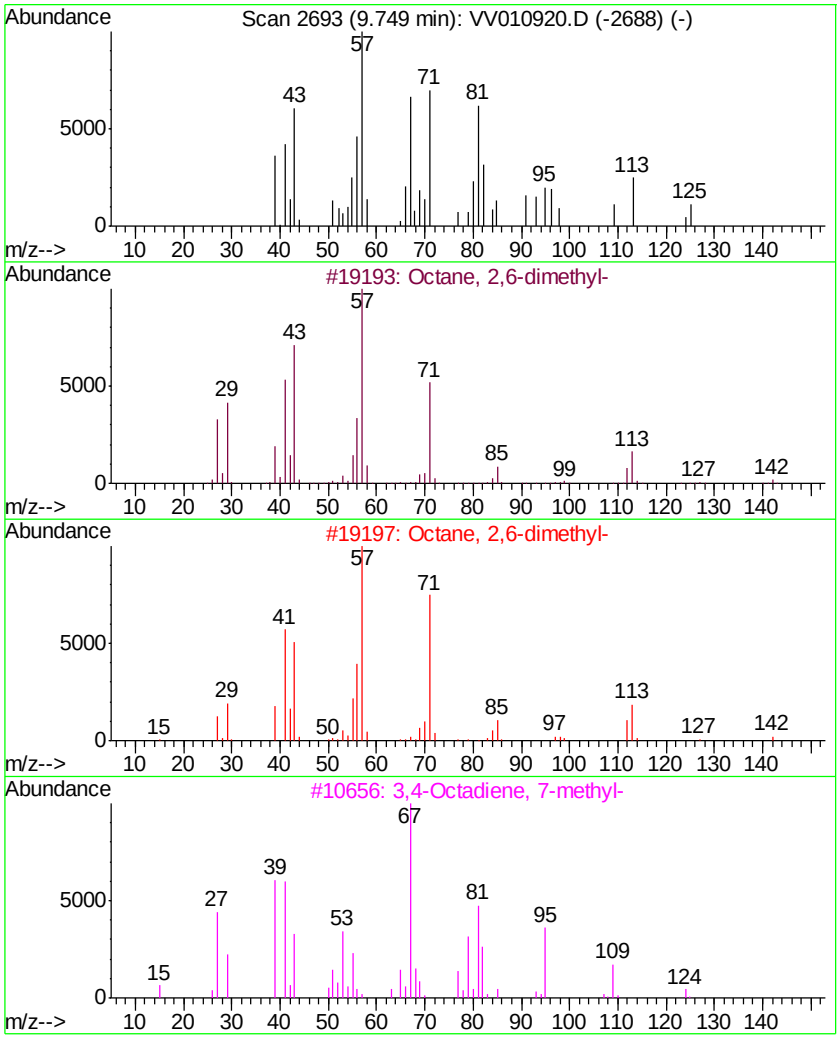
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

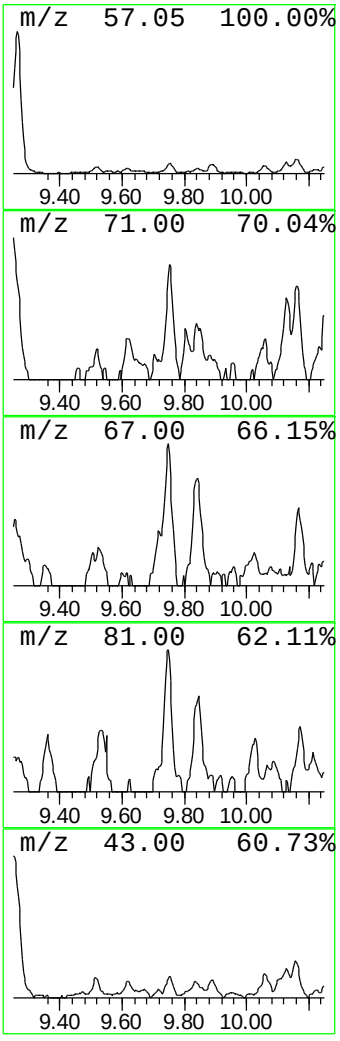
****

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	2.39 ug/L	25559	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	22
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	14
3	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	11
4	3-Octyne, 2-methyl-	124	C9H16	055402-15-8	11
5	1-Pentanol, 4-methyl-2-propyl-	144	C9H20O	054004-41-0	10





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Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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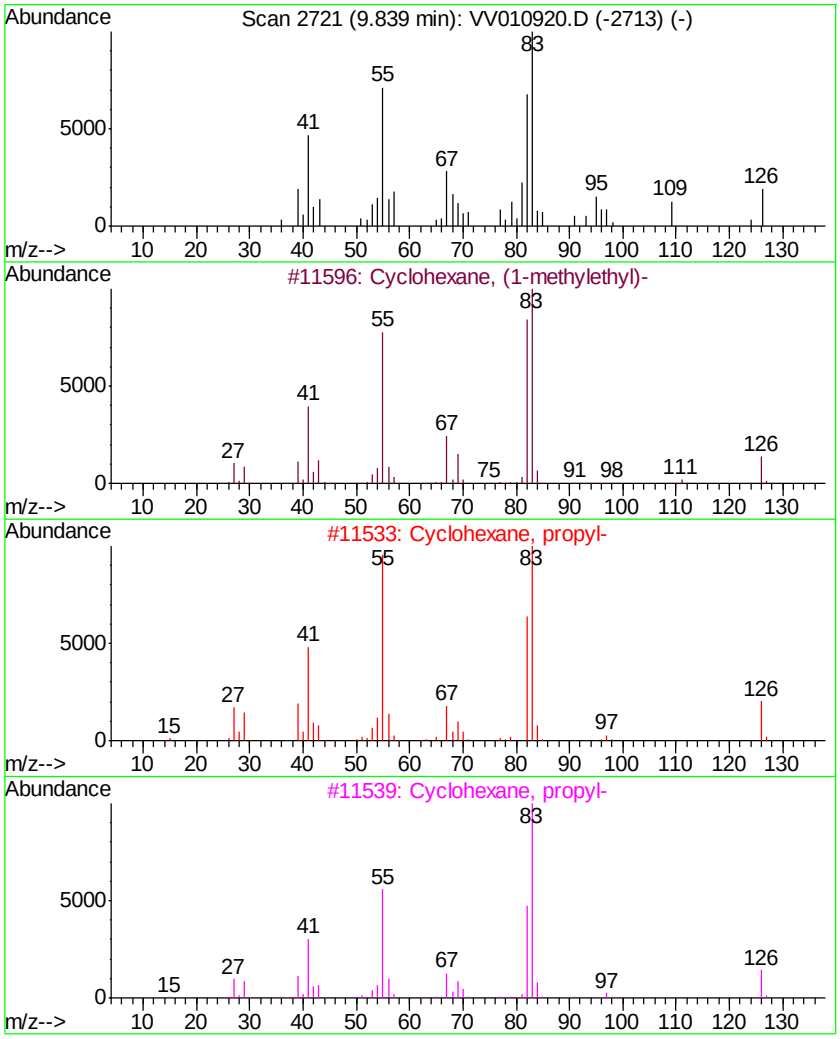
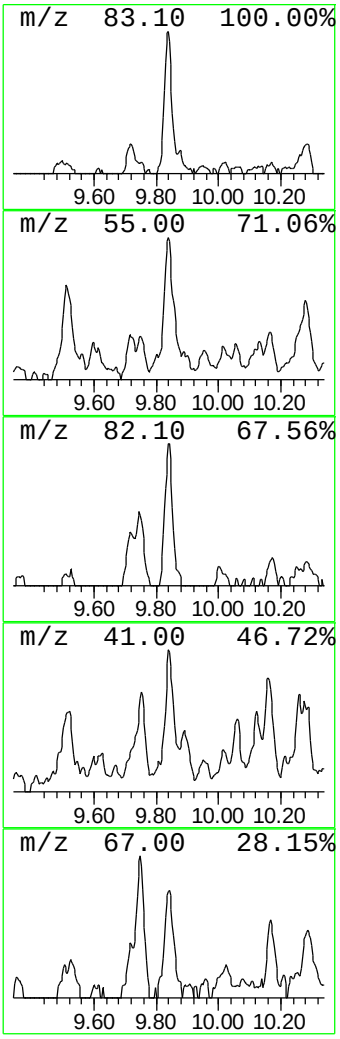
Peak Number 13 (DEL) Alkane: Cyclic9.84 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	3.34 ug/L	35705	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	81
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	76
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	76
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	68
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	64





Library Search Compound Report

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Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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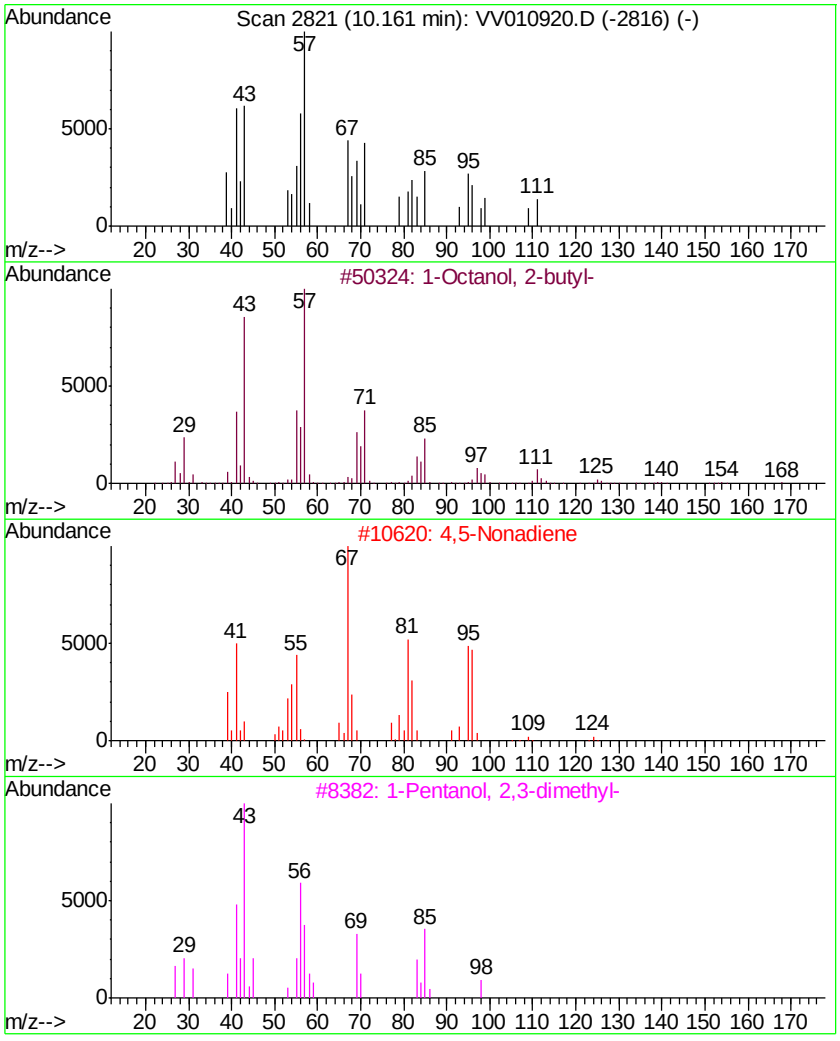
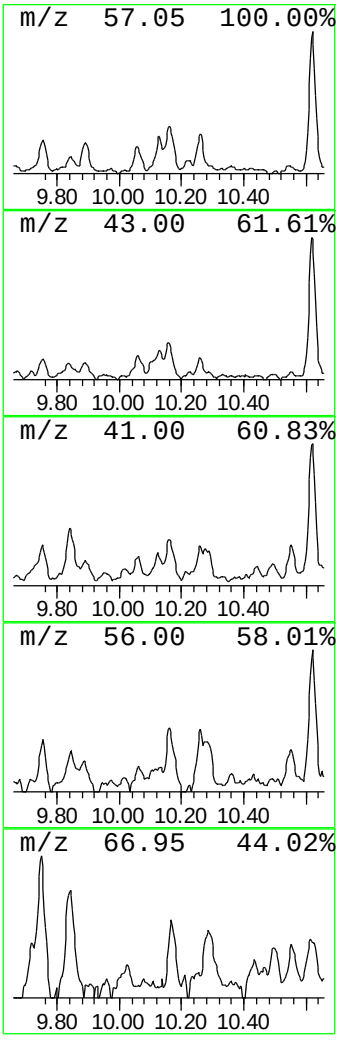
Peak Number 14 unknown-01 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.16	3.24 ug/L	25305	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octanol, 2-butyl-	186	C12H26O	003913-02-8	27
2	4,5-Nonadiene	124	C9H16	000821-74-9	22
3	1-Pentanol, 2,3-dimethyl-	116	C7H16O	010143-23-4	14
4	(Z)-2-Heptene	98	C7H14	006443-92-1	11
5	3-Heptene	98	C7H14	000592-78-9	11





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Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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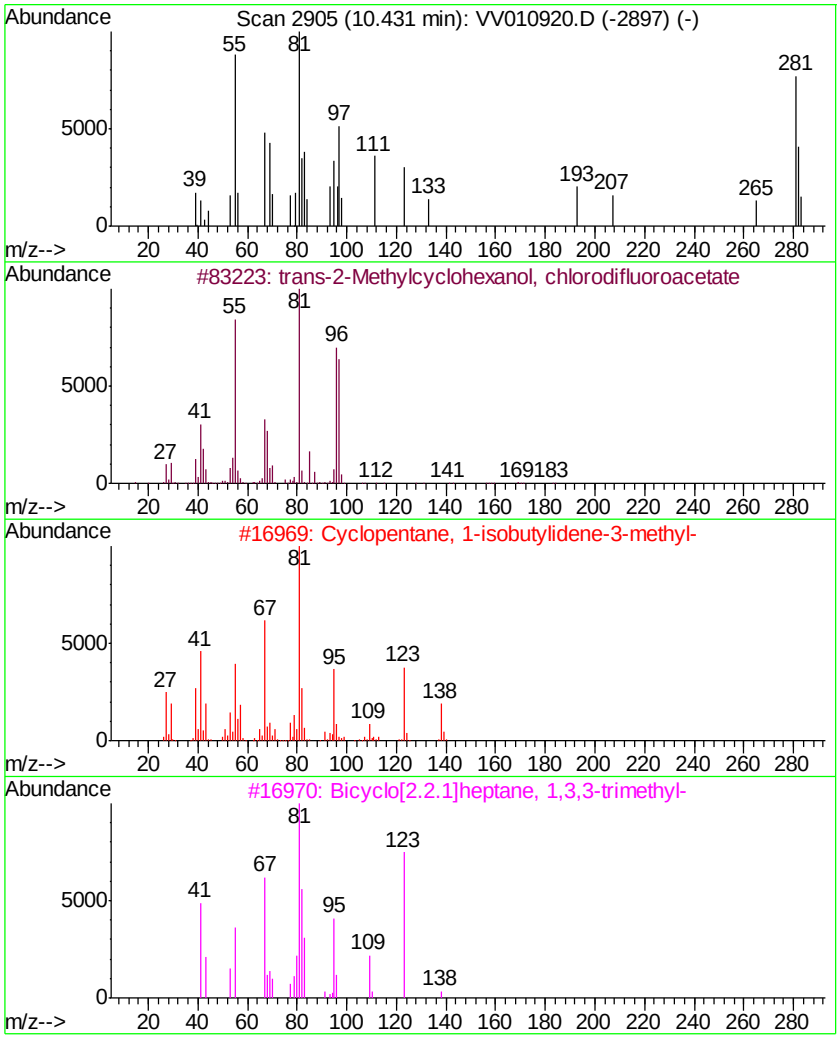
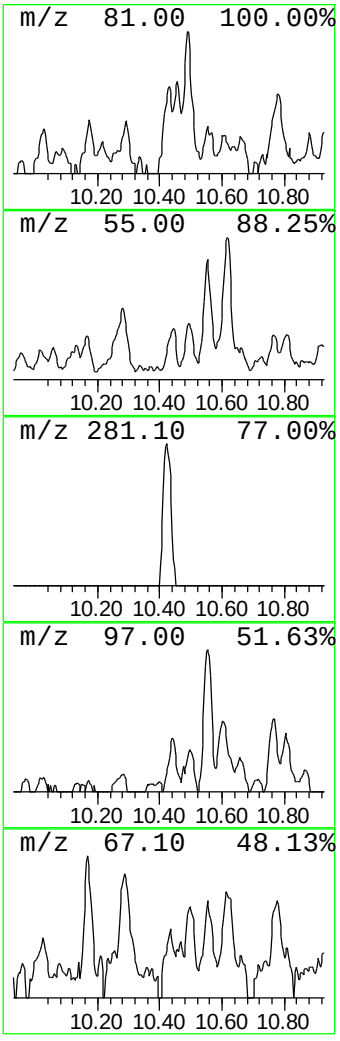
Peak Number 15 unknown-02 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.43	1.95 ug/L	15195	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-2-Methylcyclohexanol, chlo...	226	C9H13ClF2O2	1000376-26-0	25
2	Cyclopentane, 1-isobutylidene-3-...	138	C10H18	1000150-62-1	22
3	Bicyclo[2.2.1]heptane, 1,3,3-tri...	138	C10H18	006248-88-0	16
4	5-Eicosyne	278	C20H38	074685-31-7	16
5	Cyclopentane, 1,3-dimethyl-2-(1-...	138	C10H18	061142-30-1	16





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Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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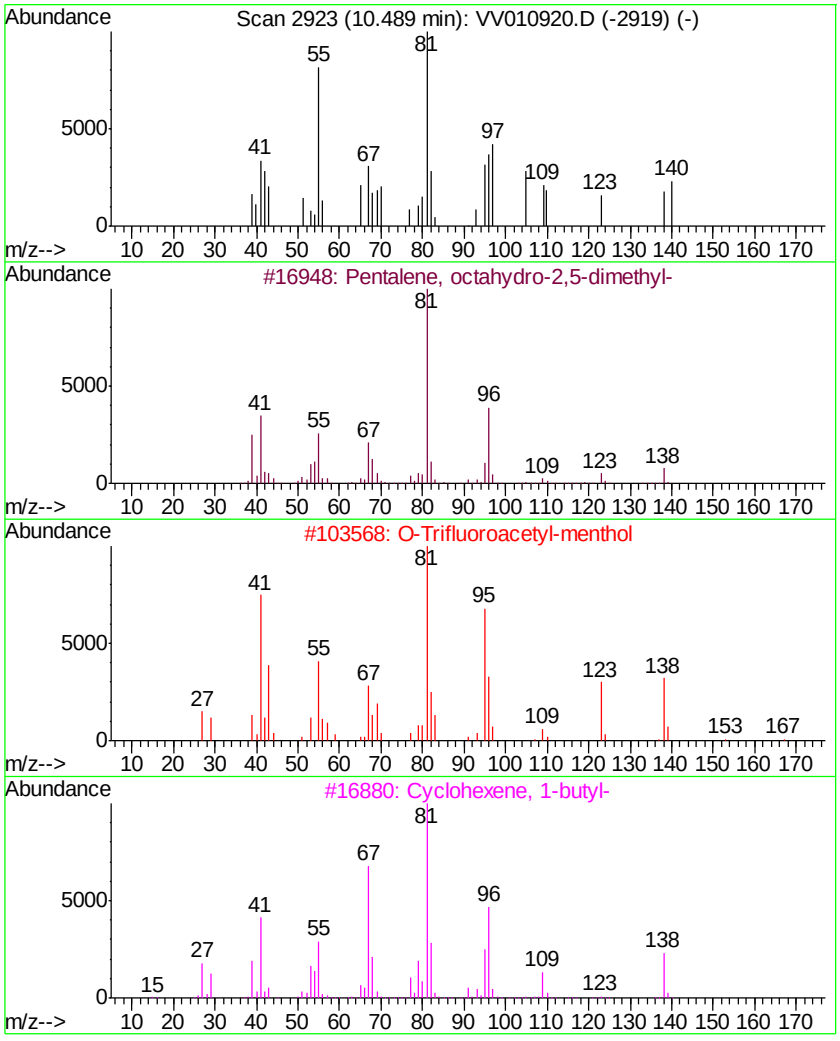
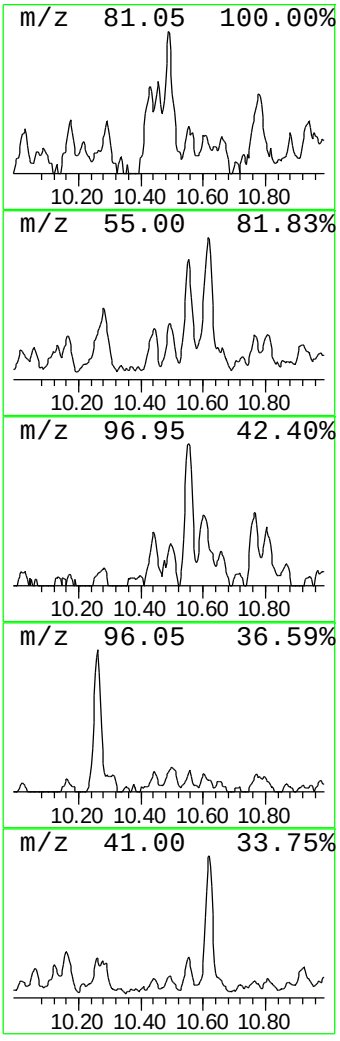
Peak Number 16 unknown-03 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	2.17 ug/L	16947	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-2,5-dimethyl-	138	C10H18	028588-55-8	47
2	O-Trifluoroacetyl-menthol	252	C12H19F3O2	028587-50-0	47
3	Cyclohexene, 1-butyl-	138	C10H18	003282-53-9	47
4	2,6-Dimethylbicyclo[3.2.1]octane	138	C10H18	1000215-28-2	43
5	Cyclohexene,3-butyl-	138	C10H18	003983-07-1	38





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Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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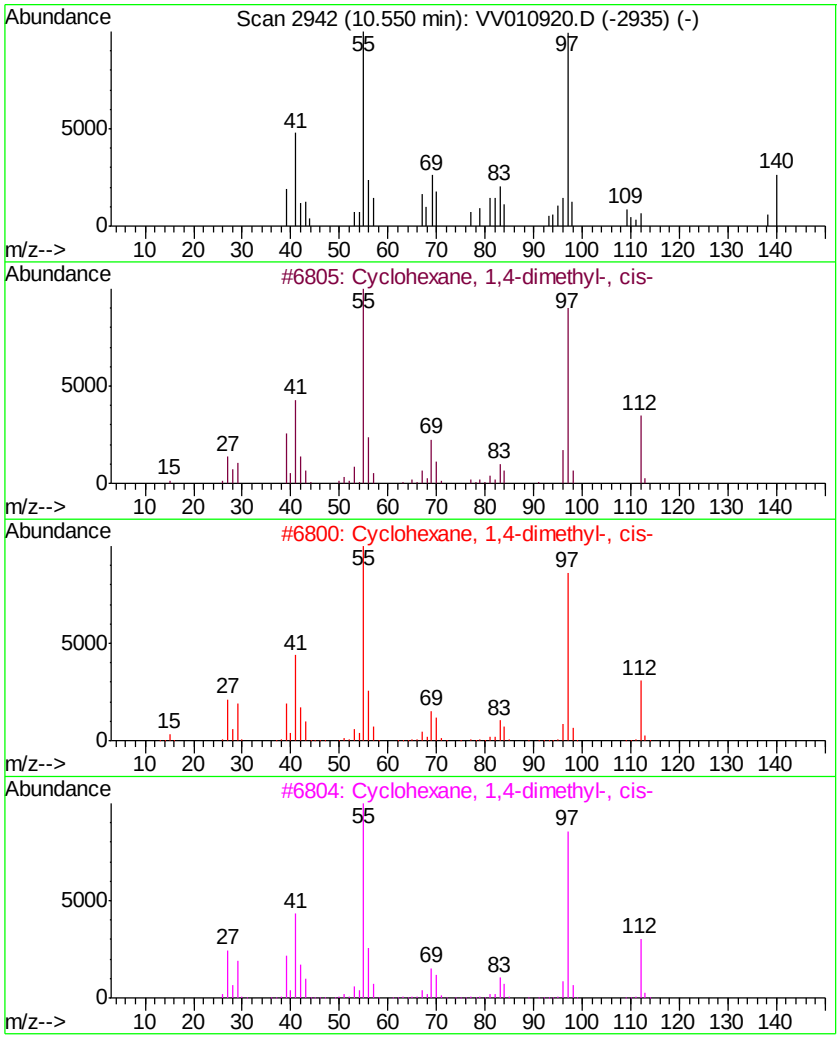
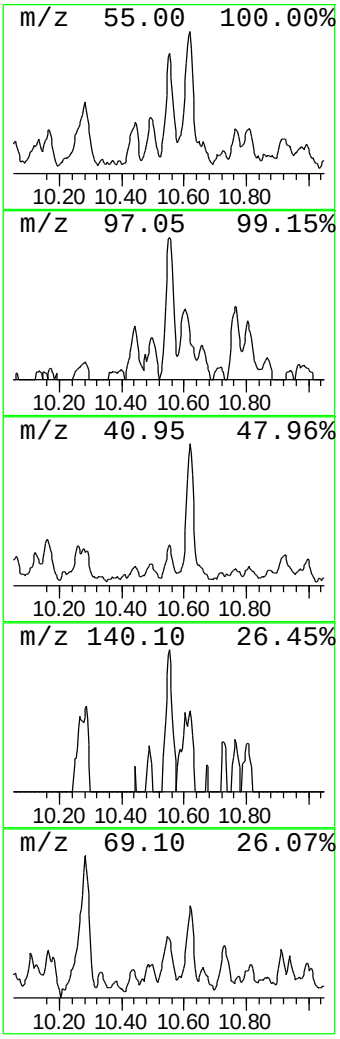
Peak Number 17 (DEL) Alkane: Cyclic10.55 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.55	3.38 ug/L	26376	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	64
2	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	53
3	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	53
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	53
5	m-Menthane, (1S,3R)-(+)-	140	C10H20	013837-66-6	52





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Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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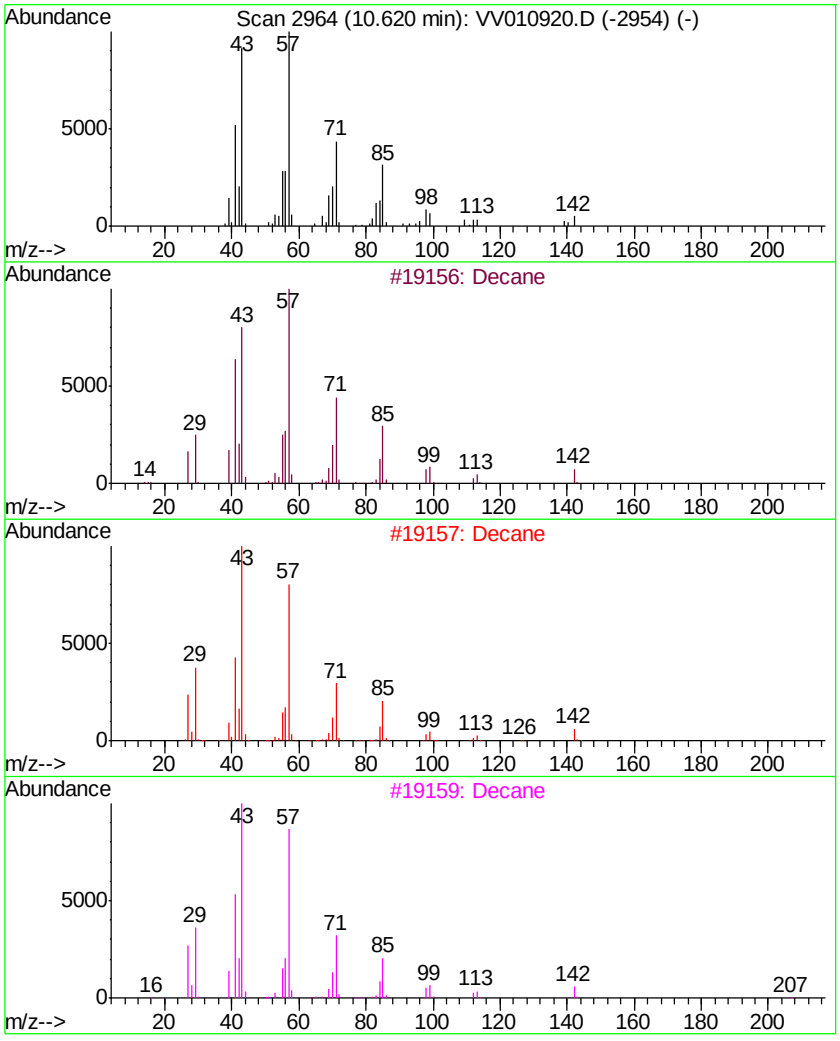
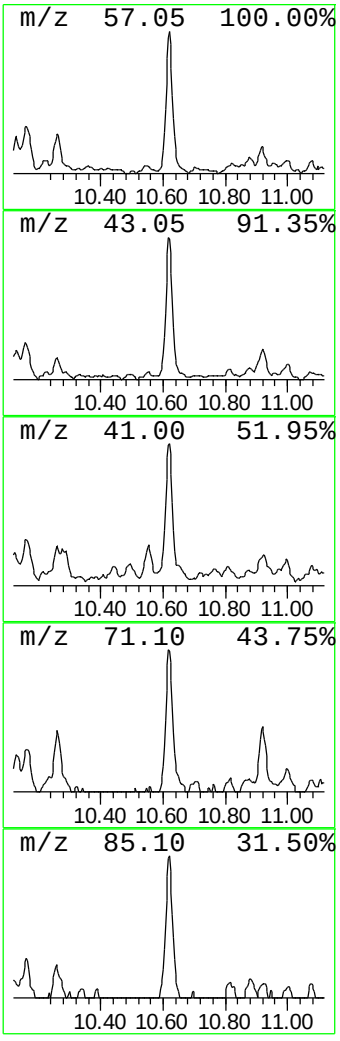
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.62	11.34 ug/L	88589	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	95
2	Decane	142	C10H22	000124-18-5	94
3	Decane	142	C10H22	000124-18-5	91
4	Decane	142	C10H22	000124-18-5	83
5	1-Octanol, 2-butyl-	186	C12H26O	003913-02-8	72





Library Search Compound Report

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Data File : VV010920.D
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Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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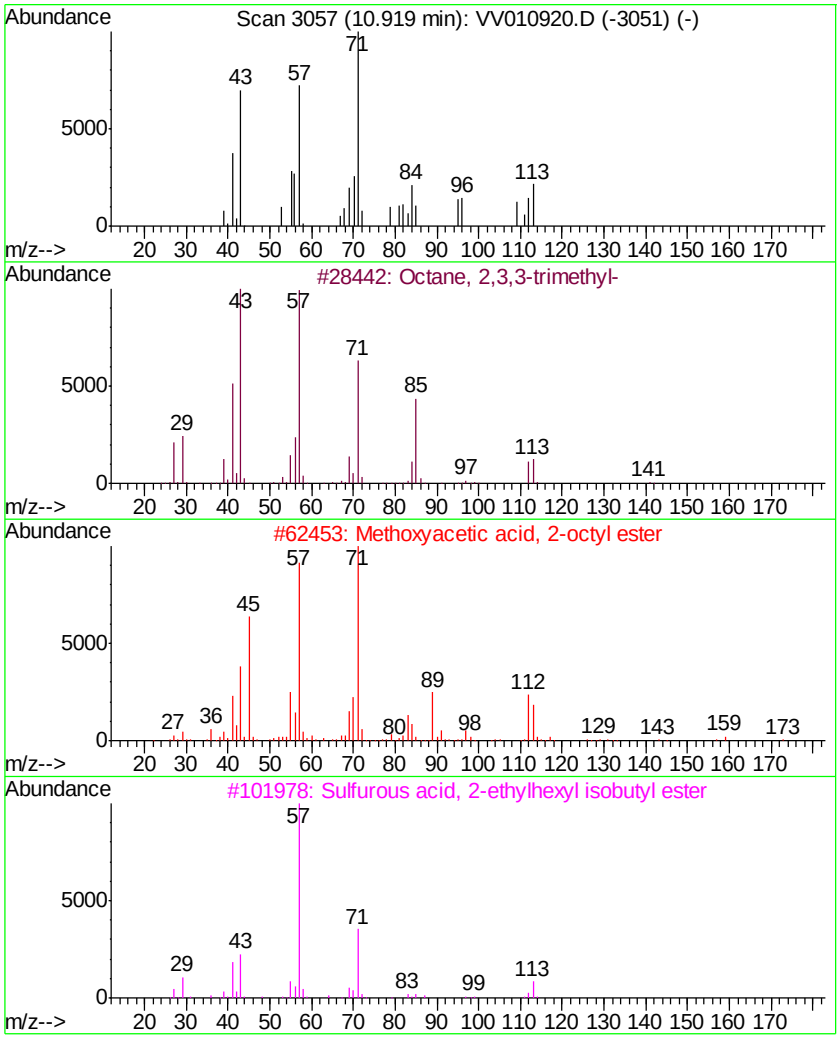
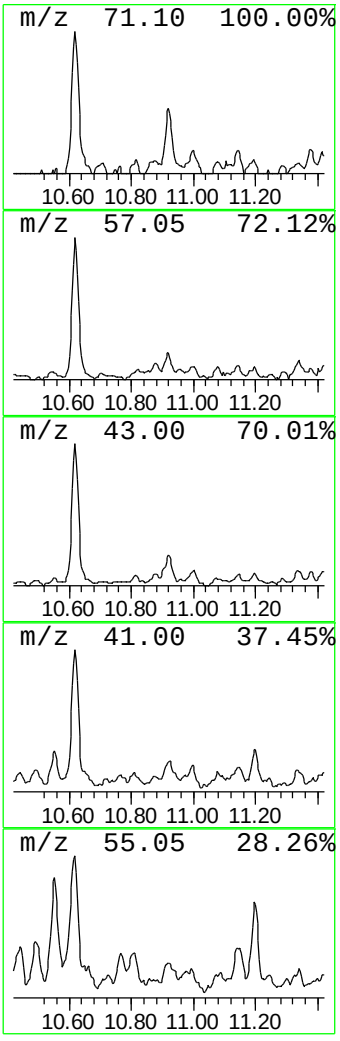
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	1.58 ug/L	12317	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,3,3-trimethyl-	156	C11H24	062016-30-2	53
2	Methoxyacetic acid, 2-octyl ester	202	C11H22O3	1000282-69-6	50
3	Sulfurous acid, 2-ethylhexyl iso...	250	C12H26O3S	1000309-18-7	50
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	50
5	Propanal, 2-propenylhydrazone	112	C6H12N2	019031-78-8	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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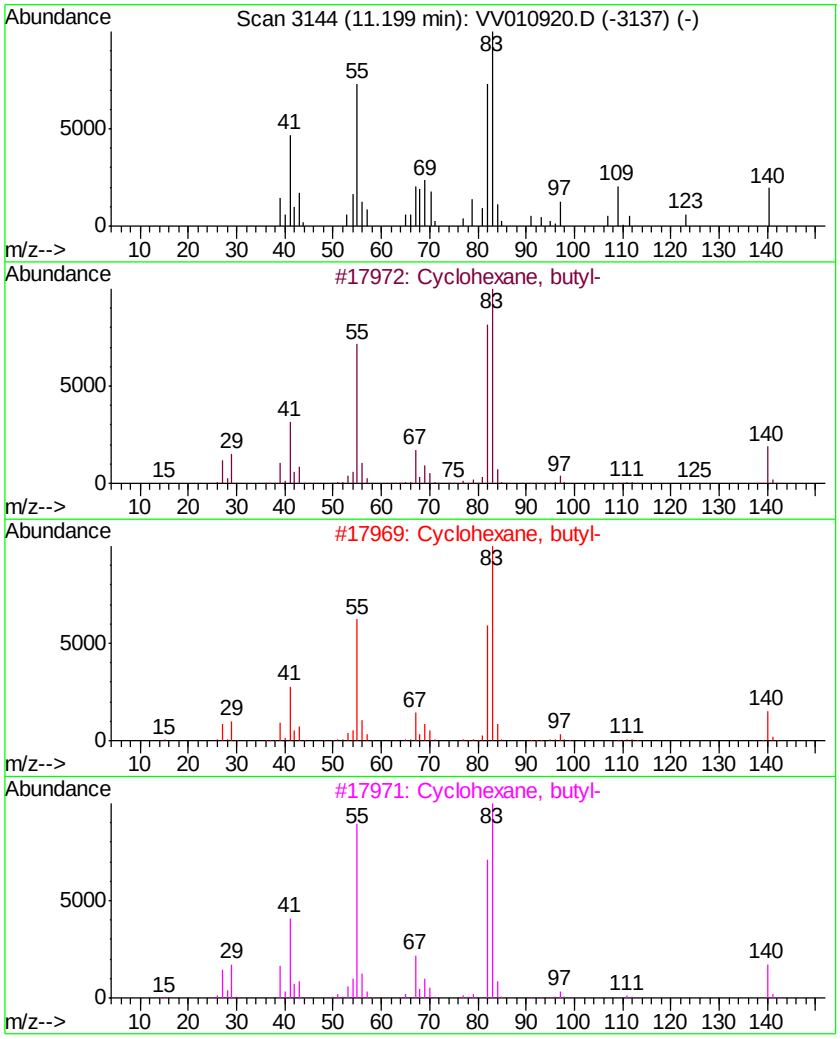
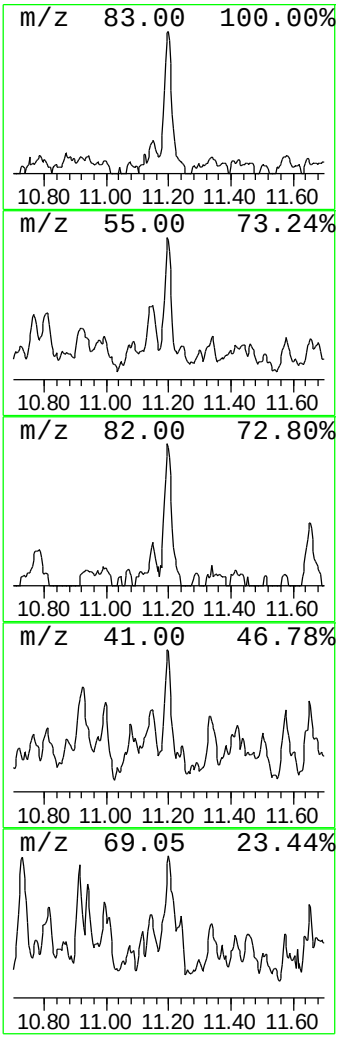
Peak Number 20 (DEL) Alkane: Cyclic11.20 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	2.68 ug/L	20921	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	72
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	72
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	72
4	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

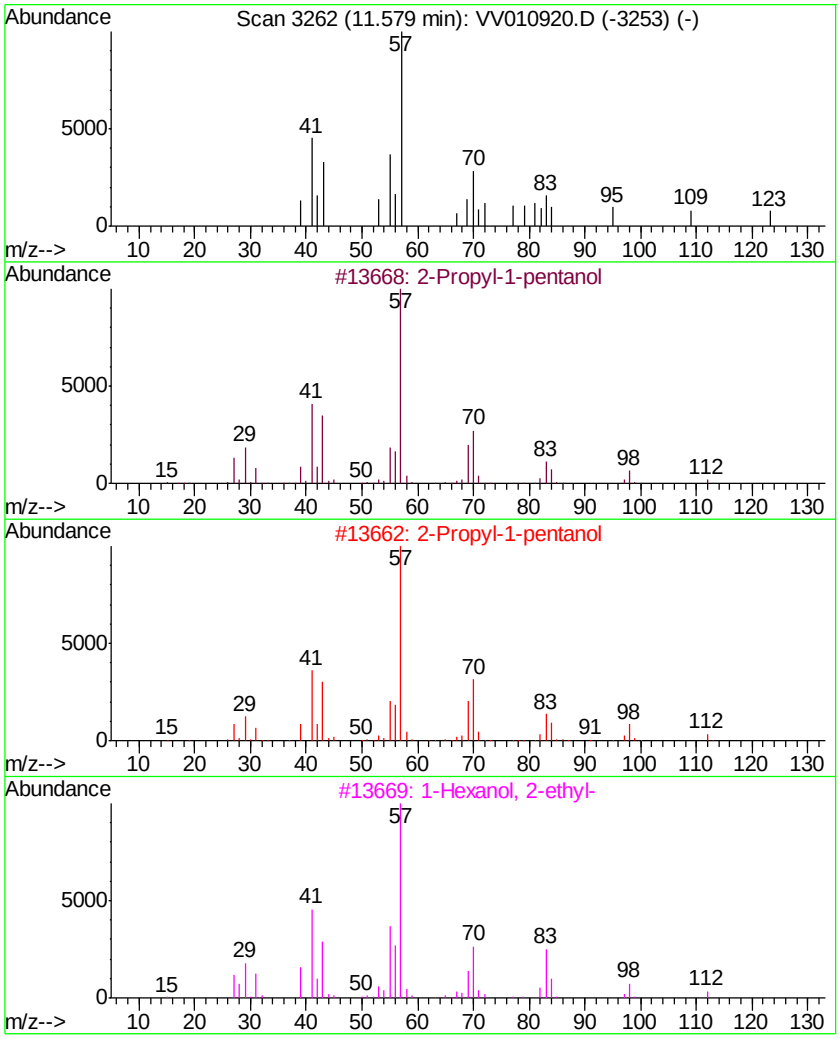
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

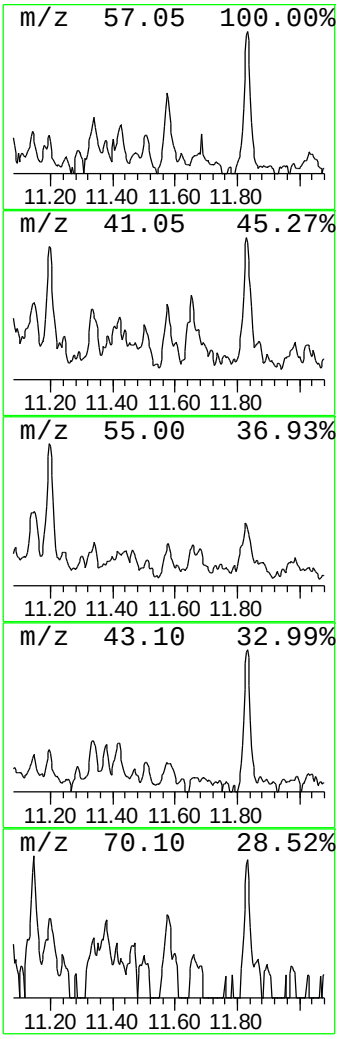
****

Peak Number 21 unknown-04 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	1.35 ug/L	10515	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	43
2	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	37
3	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	25
4	2-Nonen-1-ol	142	C9H18O	022104-79-6	23
5	trans-2-Undecen-1-ol	170	C11H22O	075039-84-8	12





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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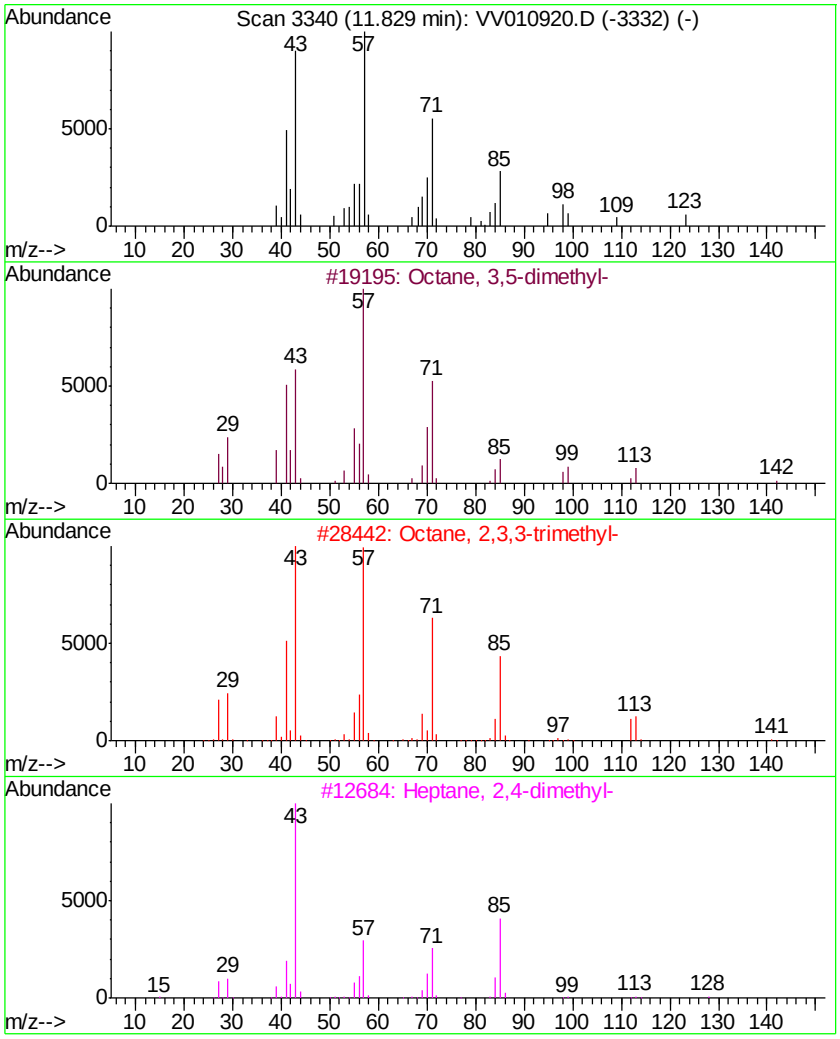
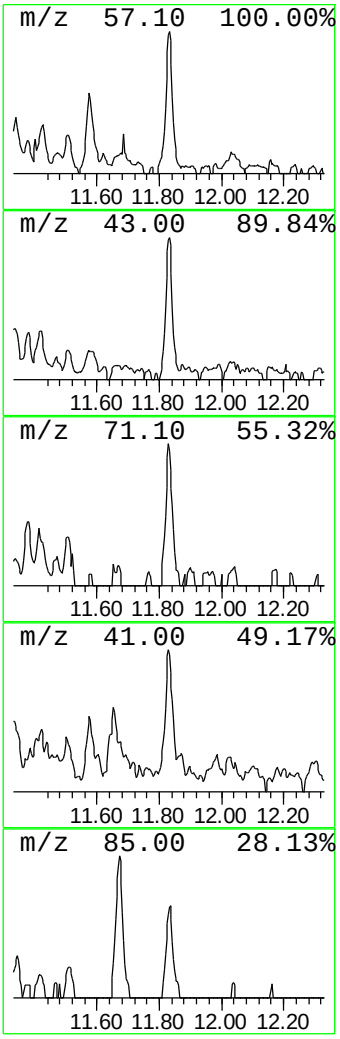
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	2.61 ug/L	20410	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	59
2	Octane, 2,3,3-trimethyl-	156	C11H24	062016-30-2	59
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59
4	Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	53
5	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

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

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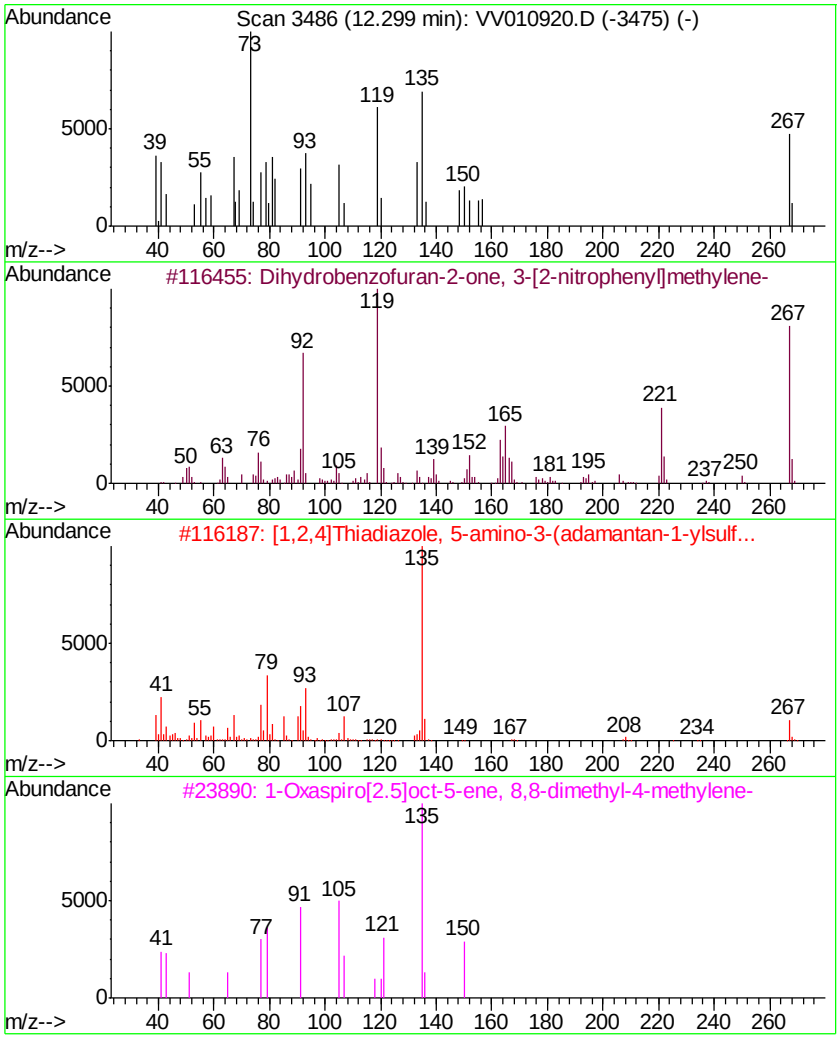
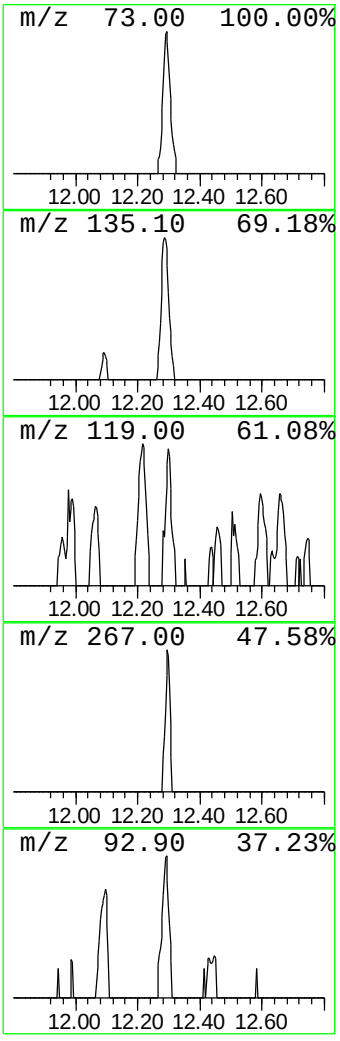
Peak Number 23 unknown-05 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	2.18 ug/L	17012	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dihydrobenzofuran-2-one, 3-[2-ni...	267	C15H9NO4	001032-73-1	30
2	[1,2,4]Thiadiazole, 5-amino-3-(a...	267	C12H17N3S2	1000316-42-5	12
3	1-Oxaspiro[2.5]oct-5-ene, 8,8-di...	150	C10H14O	054345-60-7	11
4	4-Acetylanisole	150	C9H10O2	000100-06-1	10
5	4-Acetylanisole	150	C9H10O2	000100-06-1	10





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010920.D
Acq On : 16 May 2019 03:21
Operator : SY/MD
Sample : K2853-02
Misc : 7.27G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51A5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.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
Sulfur dioxide	1.21	6.2	ug/L	55673	1	5.66	223992	25.0
(DEL) Alkane: Cyc...	6.23	19.7	ug/L	176249	1	5.66	223992	25.0
(DEL) Alkane: Cyc...	6.44	2.3	ug/L	20958	1	5.66	223992	25.0
(DEL) Alkane: Cyc...	6.88	1.4	ug/L	12480	1	5.66	223992	25.0
(DEL) Alkane: Cyc...	8.55	2.1	ug/L	22809	2	8.89	267192	25.0
(DEL) Alkane: Str...	8.71	1.9	ug/L	20551	2	8.89	267192	25.0
(DEL) Alkane: Cyc...	8.83	2.4	ug/L	25341	2	8.89	267192	25.0
Butanamide, 3,3-d...	9.26	24.0	ug/L	256981	2	8.89	267192	25.0
(DEL) Alkane: Str...	9.75	2.4	ug/L	25559	2	8.89	267192	25.0
(DEL) Alkane: Cyc...	9.84	3.3	ug/L	35705	2	8.89	267192	25.0
unknown-01	10.16	3.2	ug/L	25305	3	11.30	195257	25.0
unknown-02	10.43	2.0	ug/L	15195	3	11.30	195257	25.0
unknown-03	10.49	2.2	ug/L	16947	3	11.30	195257	25.0
(DEL) Alkane: Cyc...	10.55	3.4	ug/L	26376	3	11.30	195257	25.0
(DEL) Alkane: Str...	10.62	11.3	ug/L	88589	3	11.30	195257	25.0
(DEL) Alkane: Str...	10.92	1.6	ug/L	12317	3	11.30	195257	25.0
(DEL) Alkane: Cyc...	11.20	2.7	ug/L	20921	3	11.30	195257	25.0
unknown-04	11.58	1.4	ug/L	10515	3	11.30	195257	25.0
(DEL) Alkane: Str...	11.83	2.6	ug/L	20410	3	11.30	195257	25.0
unknown-05	12.30	2.2	ug/L	17012	3	11.30	195257	25.0