LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.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	0.619	6	9	16	rVB4	704	677	0.00%	0.000%
2	0.667	20	24	28	rVV5	655	641	0.00%	0.000%
3	0.735	42	45	50	rVB3	690	730	0.00%	0.000%
4	0.857	77	83	86	rBV4	673	703	0.00%	0.000%
5	0.998	120	127	130	rBV4	871	1030	0.00%	0.001%
6	1.082	136	153	168	rBV	2290499	2516553	2.58%	1.691%
7	1.156	169	176	187	rBV	67010	99829	0.10%	0.067%
8	1.400	245	252	268	rBV2	365450	415205	0.43%	0.279%
9	1.474	269	275	284	rVB	43045	50751	0.05%	0.034%
10	1.558	294	301	308	rBV	312905	302717	0.31%	0.203%
11	1.593	308	312	327	rVV2	28070	78130	0.08%	0.052%
12	1.677	331	338	354	rVB	93606	144696	0.15%	0.097%
13	2.008	434	441	452	rBV	40694	59235	0.06%	0.040%
14	2.185	486	496	510	rBV	176150	274104	0.28%	0.184%
15	2.275	514	524	531	rVV3	217304	391883	0.40%	0.263%
16	2.320	531	538	550	rVV	460562	738189	0.76%	0.496%
17	2.375	550	555	566	rVB	40472	64373	0.07%	0.043%
18	2.442	566	576	586	rBV	103141	176163	0.18%	0.118%
19	2.616	618	630	669	rVB	1808297	3156232	3.24%	2.121%
20	2.995	734	748	804	rVB	718217	2541299	2.61%	1.708%
21	3.538	910	917	919	rBV4	961	912	0.00%	0.001%
22	3.603	922	937	961	rBV2	60502	158239	0.16%	0.106%
23	3.805	988	1000	1006	rBV10	3671	6873	0.01%	0.005%
24	3.876	1018	1022	1026	rVB4	785	754	0.00%	0.001%
25	3.944	1039	1043	1045	rBV4	690	515	0.00%	0.000%
26	3.992	1045	1058	1074	rVB7	10533	26128	0.03%	0.018%
27	4.056	1075	1078	1080	rVB3	791	477	0.00%	0.000%
28	4.127	1087	1100	1104	rBV5	7307	14431	0.01%	0.010%
29	4.236	1108	1134	1215	rVV2	35452653	97435387	100.00%	65.470%
30	4.564	1224	1236	1249	rBV2	67912	163983	0.17%	0.110%
31	4.651	1251	1263	1282	rVB	155995	369839	0.38%	0.249%
32	4.796	1291	1308	1333	rBV	1231484	2672799	2.74%	1.796%
33	5.046	1383	1386	1391	rVB5	721	495	0.00%	0.000%
34	5.136	1412	1414	1418	rBV4	669	534	0.00%	0.000%

LSC Area Percent Report

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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Title : VOC Analysis

35	5.210	1434	1437	1441	rVB5	765	680	0.00%	0.000%
36	5.342	1451	1478	1511	rBV2	370379	1126916	1.16%	0.757%
37	5.538	1537	1539	1542	rVB2	929	539	0.00%	0.000%
38	5.616	1560	1563	1566	rBV4	543	496	0.00%	0.000%
39	5.648	1571	1573	1578	rVB4	1148	764	0.00%	0.001%
40	5.680	1581	1583	1588	rVB5	656	488	0.00%	0.000%
41	5.706	1588	1591	1595	rBV5	645	529	0.00%	0.000%
42	5.815	1605	1625	1628	rBV3	45301	148954	0.15%	0.100%
43	5.889	1636	1648	1665	rVB	383038	745650	0.77%	0.501%
44	6.188	1727	1741	1773	rBV	1327486	2545804	2.61%	1.711%
45	6.333	1774	1786	1801	rVV	248572	502832	0.52%	0.338%
46	6.419	1801	1813	1839	rVB	107537	213040	0.22%	0.143%
47	6.532	1841	1848	1852	rVV5	3875	6092	0.01%	0.004%
48	6.577	1852	1862	1887	rVB	85210	159311	0.16%	0.107%
49	6.712	1895	1904	1912	rBV2	5960	9362	0.01%	0.006%
50	6.783	1912	1926	1935	rBV5	15433	41505	0.04%	0.028%
51	6.850	1936	1947	1976	rVB	396628	711547	0.73%	0.478%
52	7.072	2013	2016	2021	rBV7	747	590	0.00%	0.000%
53	7.140	2032	2037	2040	rBV6	728	708	0.00%	0.000%
54	7.169	2042	2046	2051	rVV5	835	881	0.00%	0.001%
55	7.230	2053	2065	2082	rVV	125617	220866	0.23%	0.148%
56	7.342	2096	2100	2110	rVB8	1946	2755	0.00%	0.002%
57	7.410	2117	2121	2123	rBV4	528	449	0.00%	0.000%
58	7.423	2123	2125	2129	rVB4	1072	648	0.00%	0.000%
59	7.468	2130	2139	2148	rVB7	4236	7506	0.01%	0.005%
60	7.567	2156	2170	2185	rBV	509727	1097827	1.13%	0.738%
61	7.770	2226	2233	2246	rVB	40443	71498	0.07%	0.048%
62	7.857	2247	2260	2278	rVB3	123326	257475	0.26%	0.173%
63	8.168	2344	2357	2362	rBV4	13772	28746	0.03%	0.019%
64	8.233	2362	2377	2393	rBV	10010968	16953966	17.40%	11.392%
65	8.313	2394	2402	2413	rVB	382717	637807	0.65%	0.429%
66	8.519	2458	2466	2482	rBV4	49167	144363	0.15%	0.097%
67	8.673	2503	2514	2538	rVB	418932	668593	0.69%	0.449%
68	8.805	2552	2555	2560	rBV7	939	786	0.00%	0.001%
69	8.924	2588	2592	2593	rBV3	1199	909	0.00%	0.001%
70	8.992	2593	2613	2632	rVV	270055	809963	0.83%	0.544%
71	9.091	2634	2644	2667	rVB	564366	957744	0.98%	0.644%

LSC Area Percent Report

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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Title : VOC Analysis

72	9.217	2673	2683	2687	rBV9	13109	26039	0.03%	0.017%
73	9.348	2715	2724	2746	rVB	69328	131818	0.14%	0.089%
74	9.696	2824	2832	2841	rBV4	11838	22656	0.02%	0.015%
75	9.754	2841	2850	2866	rVV3	47344	128815	0.13%	0.087%
76	9.857	2867	2882	2896	rVV	587625	1253521	1.29%	0.842%
77	9.918	2897	2901	2915	rVB2	60926	98951	0.10%	0.066%
78	10.072	2945	2949	2960	rVB4	9125	15476	0.02%	0.010%
79	10.152	2964	2974	2999	rVB	173100	285021	0.29%	0.192%
80	10.307	3007	3022	3049	rBV	492690	1016934	1.04%	0.683%
81	10.435	3051	3062	3079	rVB	383485	623203	0.64%	0.419%
82	10.680	3133	3138	3149	rVB3	11933	18723	0.02%	0.013%
83	10.995	3217	3236	3271	rBV	1009750	2236462	2.30%	1.503%
84	11.255	3312	3317	3326	rVB3	9793	13232	0.01%	0.009%
85	11.406	3359	3364	3368	rBV5	4849	5860	0.01%	0.004%
86	11.487	3369	3389	3406	rVV	642858	1114198	1.14%	0.749%
87	11.863	3494	3506	3526	rVB	561978	895180	0.92%	0.602%
88	11.982	3532	3543	3558	rBV	440016	736312	0.76%	0.495%
89	12.065	3562	3569	3593	rVB	82309	164404	0.17%	0.110%
90	12.454	3684	3690	3699	rBV3	11471	15315	0.02%	0.010%
91	12.570	3718	3726	3729	rBV4	18017	24204	0.02%	0.016%
92	12.596	3730	3734	3747	rVB3	25582	38286	0.04%	0.026%
93	13.191	3917	3919	3924	rBV5	894	674	0.00%	0.000%
94	13.323	3956	3960	3961	rBV3	1444	956	0.00%	0.001%
95	13.660	4057	4065	4073	rVB8	3486	5379	0.01%	0.004%
96	13.744	4089	4091	4096	rVB4	1649	1402	0.00%	0.001%
97	14.146	4211	4216	4220	rBV7	1619	2014	0.00%	0.001%
98	14.207	4230	4235	4239	rBV7	1624	1786	0.00%	0.001%
99	14.236	4239	4244	4250	rVV9	1692	2427	0.00%	0.002%
100	14.326	4268	4272	4275	rBV5	1254	1284	0.00%	0.001%

Sum of corrected areas: 148823627

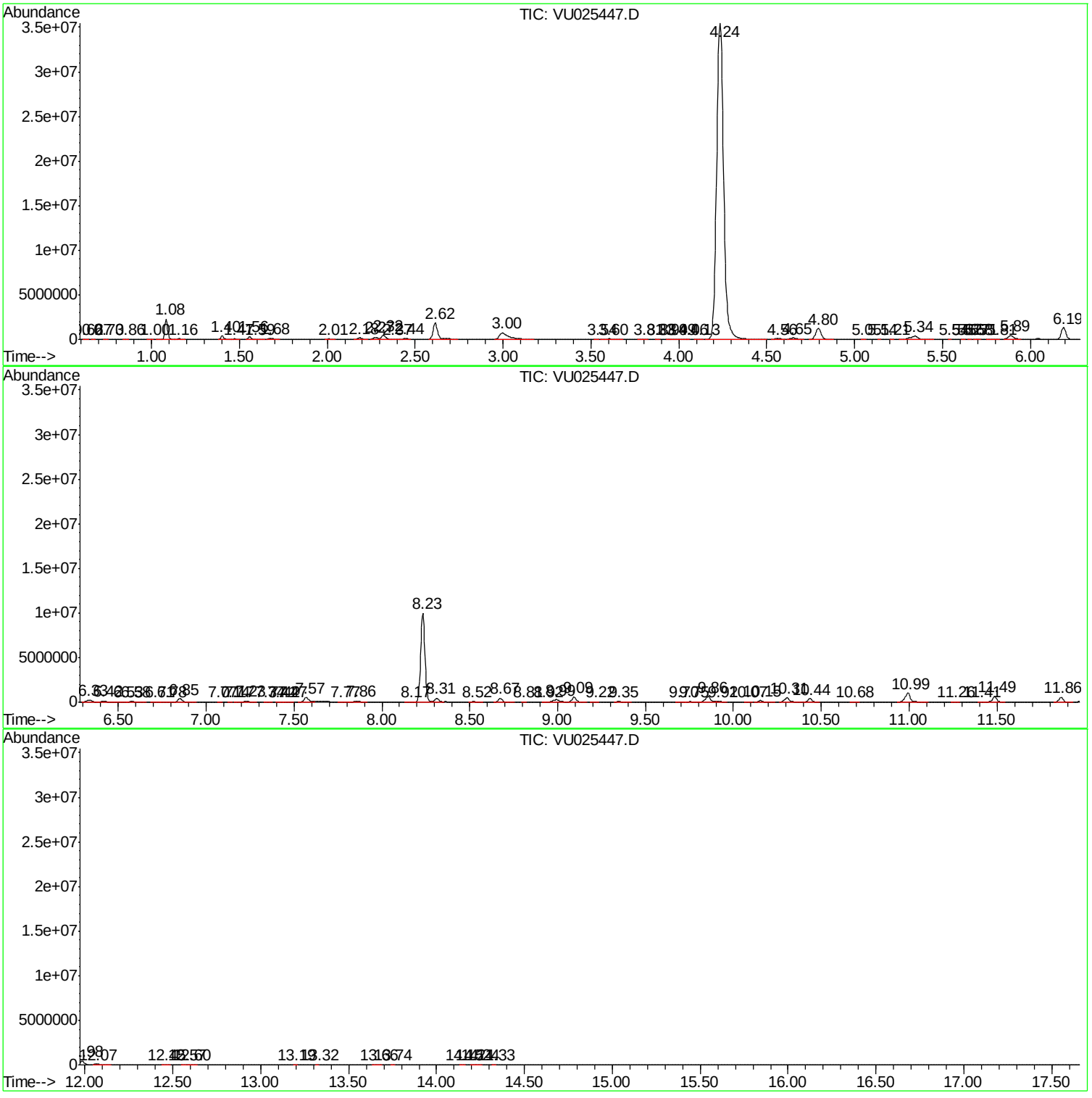
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
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Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

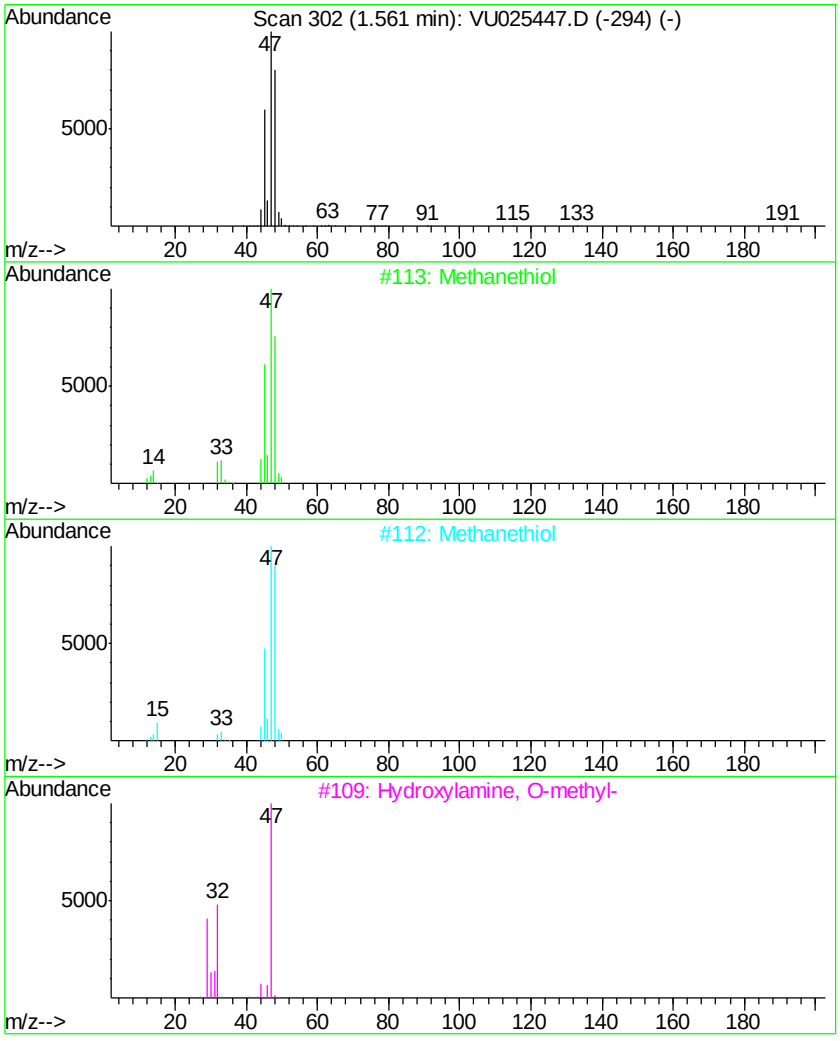
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

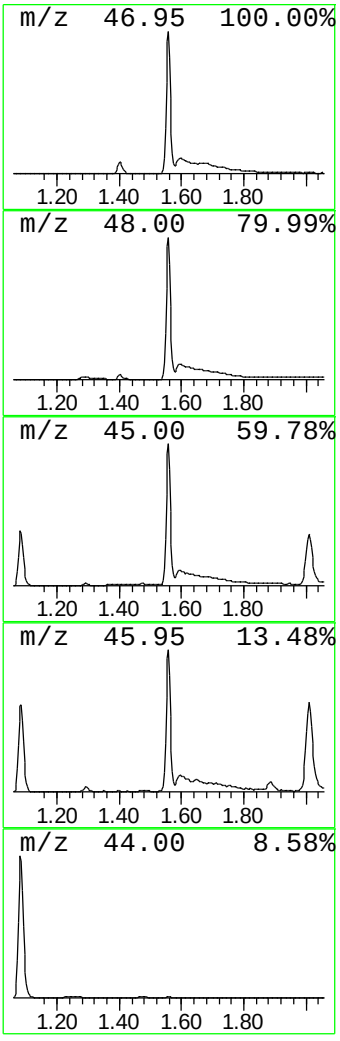
****

Peak Number 4 Methanethiol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	20.30 ug/L	302717	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanethiol	48	CH4S	000074-93-1	90
2	Methanethiol	48	CH4S	000074-93-1	90
3	Hydroxylamine, O-methyl-	47	CH5NO	000067-62-9	7
4	Hydroxylamine, O-methyl-	47	CH5NO	000067-62-9	7
5	Methane, nitroso-	45	CH3NO	000865-40-7	5





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

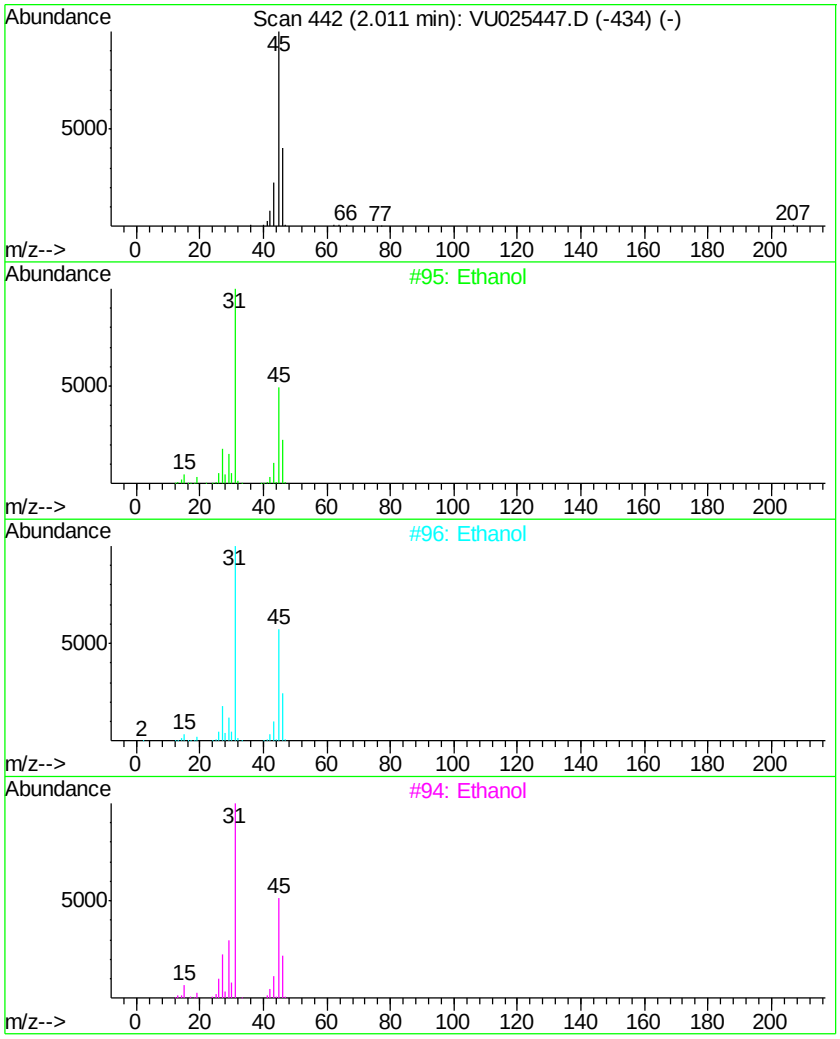
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

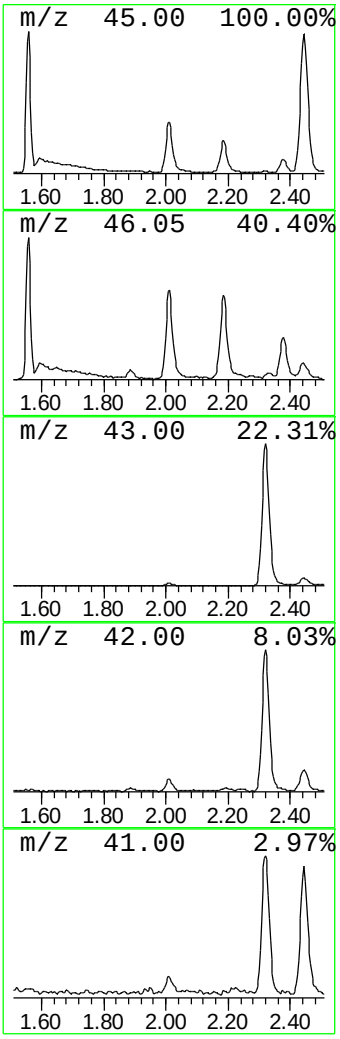
****

Peak Number 6 unknown-01 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.01	3.97 ug/L	59235	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol	46	C2H6O	000064-17-5	40
2	Ethanol	46	C2H6O	000064-17-5	9
3	Ethanol	46	C2H6O	000064-17-5	9
4	Dimethyl ether	46	C2H6O	000115-10-6	5
5	Formic acid	46	CH2O2	000064-18-6	4





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
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Acq On : 17 Jul 2018 00:37
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ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

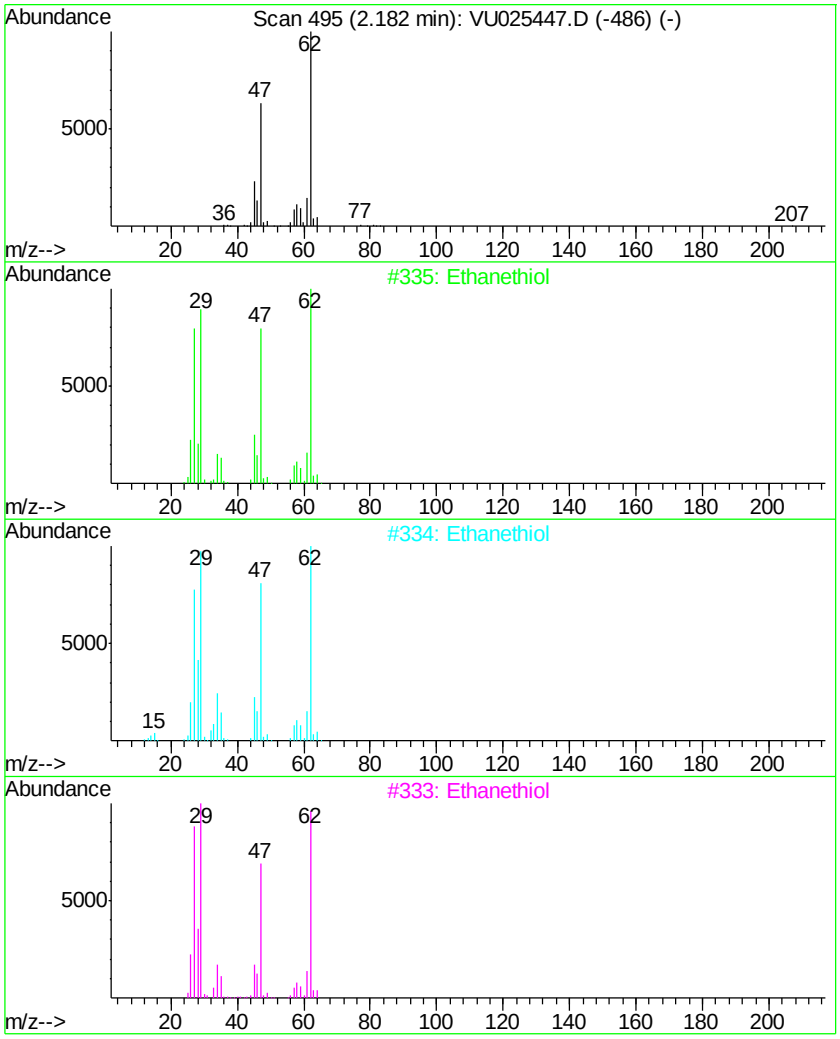
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

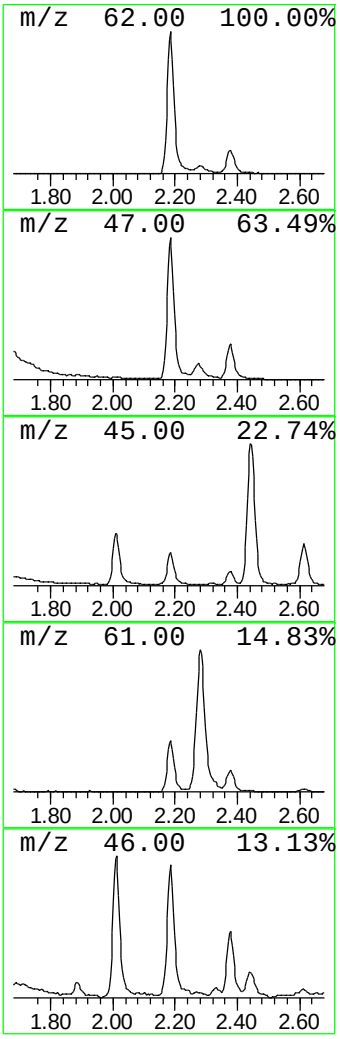
****

Peak Number 7 Ethanethiol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	18.38 ug/L	274104	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanethiol	62	C2H6S	000075-08-1	91
2	Ethanethiol	62	C2H6S	000075-08-1	91
3	Ethanethiol	62	C2H6S	000075-08-1	91
4	Ethanethiol	62	C2H6S	000075-08-1	91
5	Ethanethiol	62	C2H6S	000075-08-1	90





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

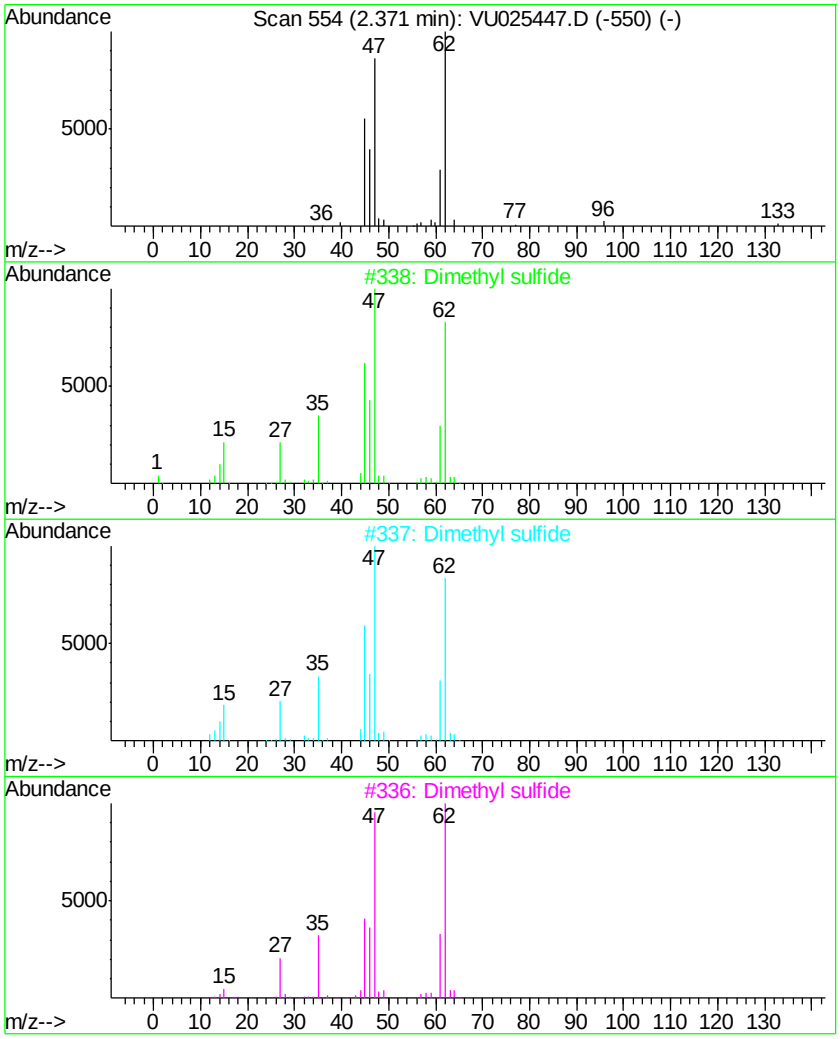
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

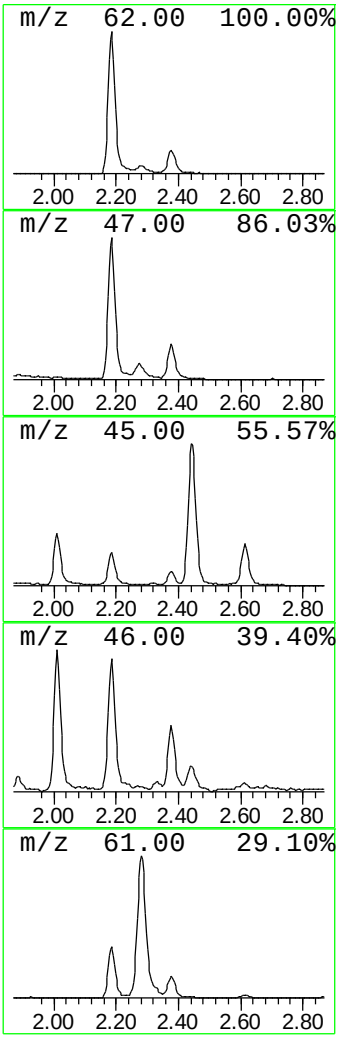
****

Peak Number 8 Dimethyl sulfide Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.37	4.32 ug/L	64373	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl sulfide	62	C2H6S	000075-18-3	91
2	Dimethyl sulfide	62	C2H6S	000075-18-3	91
3	Dimethyl sulfide	62	C2H6S	000075-18-3	90
4	Dimethyl sulfide	62	C2H6S	000075-18-3	87
5	Ethanethiol	62	C2H6S	000075-08-1	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

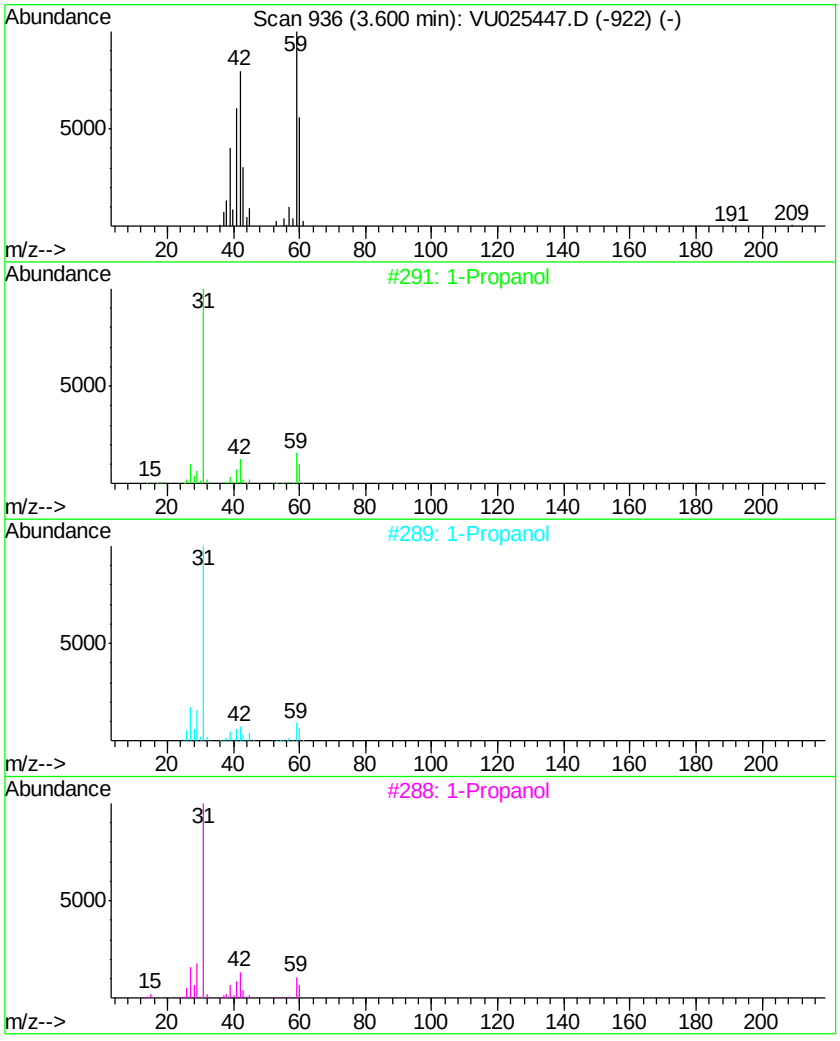
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

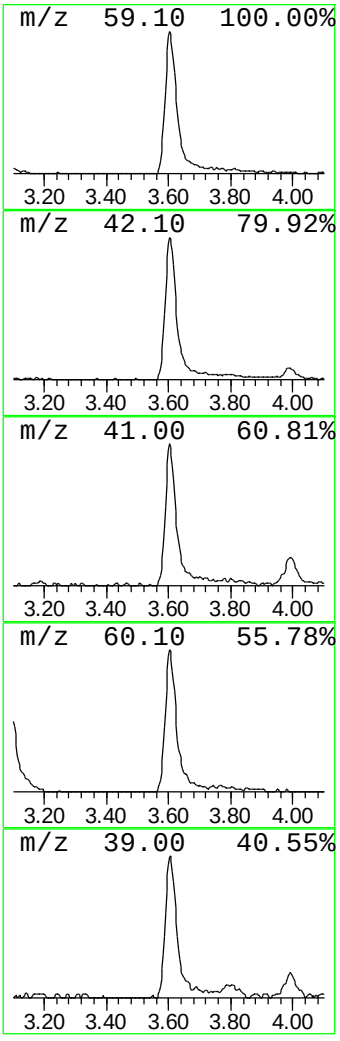
****

Peak Number 9 1-Propanol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.60	10.61 ug/L	158239	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol	60	C3H8O	000071-23-8	64
2	1-Propanol	60	C3H8O	000071-23-8	53
3	1-Propanol	60	C3H8O	000071-23-8	50
4	2-Fluoropropene	60	C3H5F	001184-60-7	46
5	1-Propanol	60	C3H8O	000071-23-8	40





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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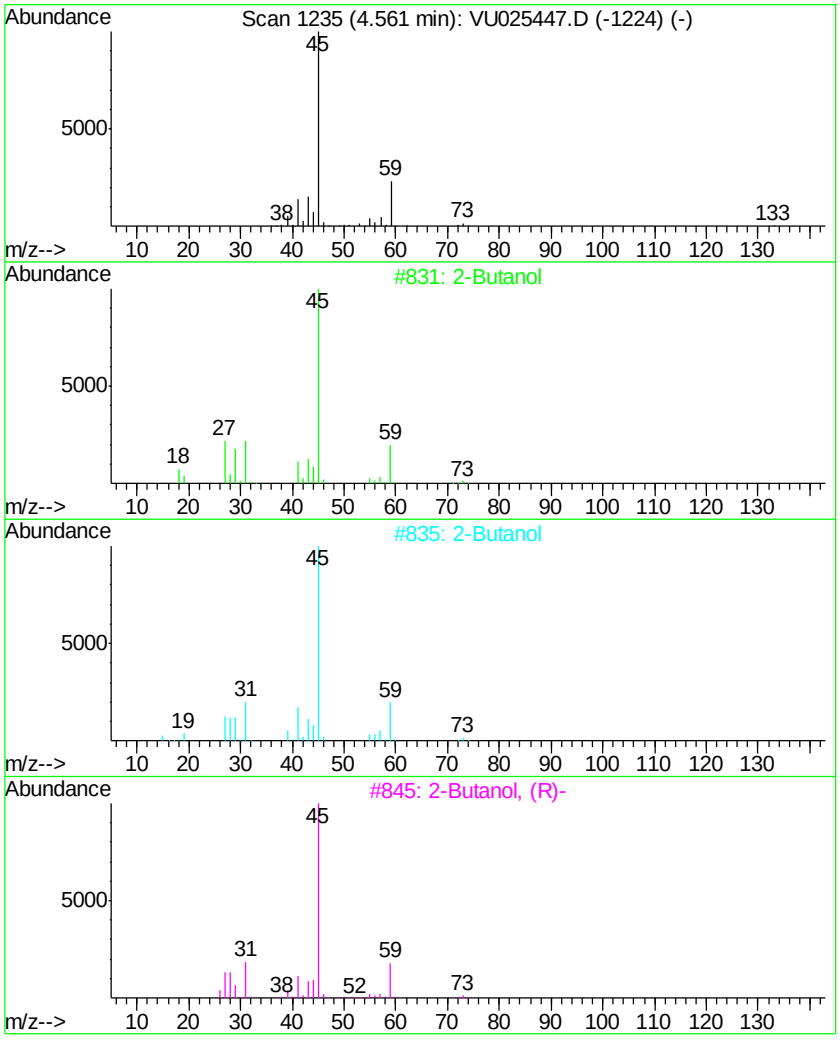
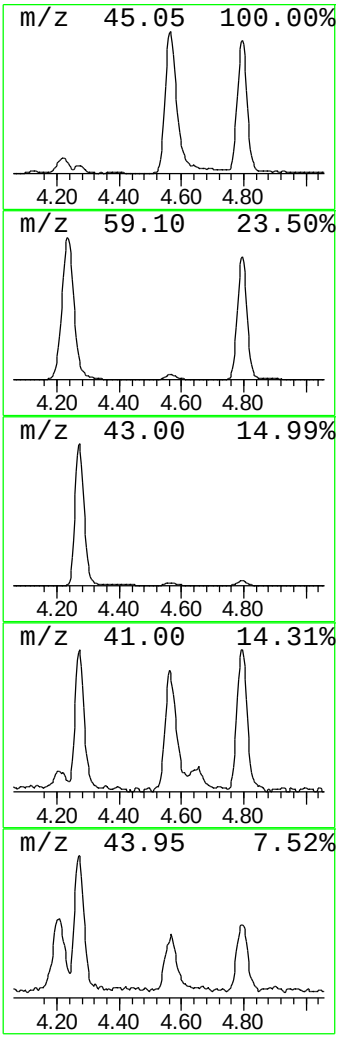
Peak Number 10 2-Butanol Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.56	11.00 ug/L	163983	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanol	74	C4H10O	000078-92-2	83
2	2-Butanol	74	C4H10O	000078-92-2	83
3	2-Butanol, (R)-	74	C4H10O	014898-79-4	78
4	2-Butanol	74	C4H10O	000078-92-2	72
5	2-Butanol, (R)-	74	C4H10O	014898-79-4	64





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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

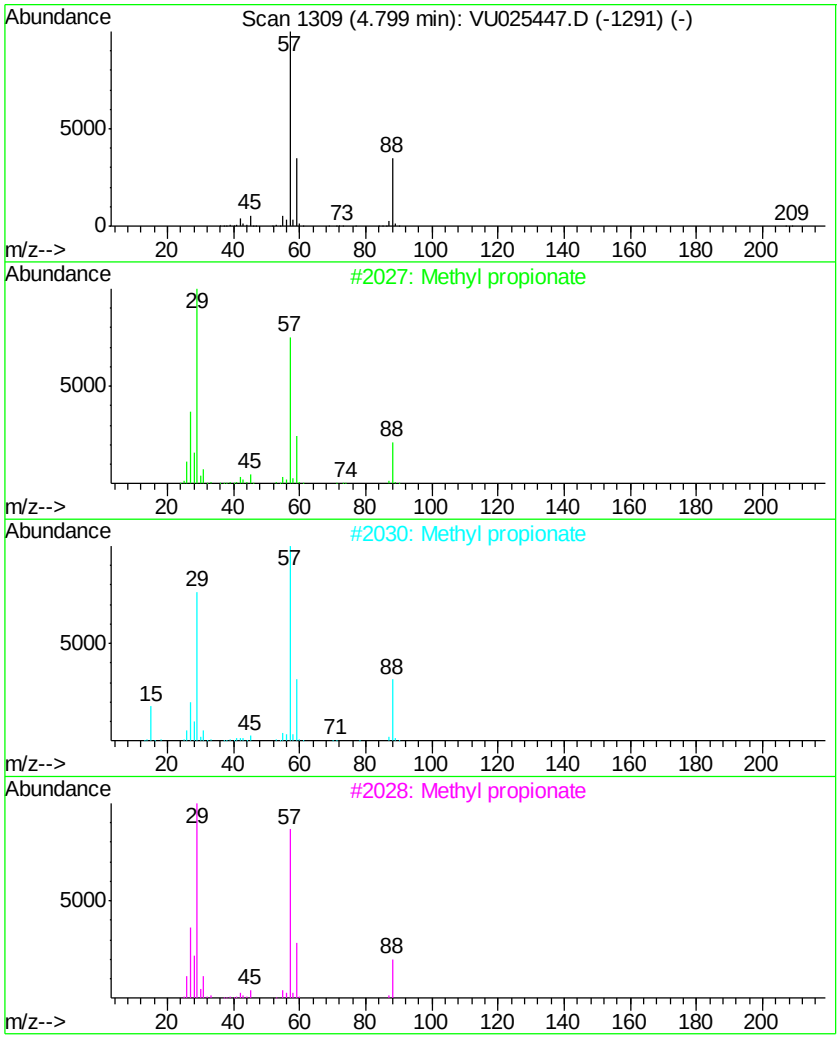
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

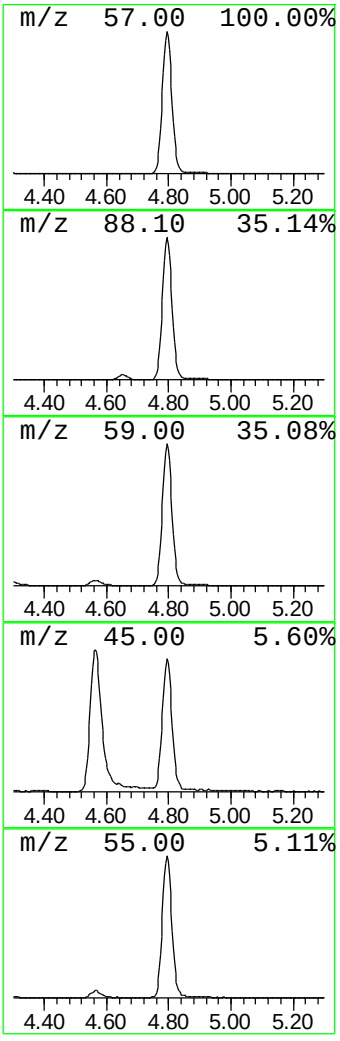
****

Peak Number 11 Methyl propionate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.80	179.23 ug/L	2672800	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methyl propionate	88	C4H8O2	000554-12-1	86
2	Methyl propionate	88	C4H8O2	000554-12-1	80
3	Methyl propionate	88	C4H8O2	000554-12-1	78
4	Methyl propionate	88	C4H8O2	000554-12-1	64
5	Hydrazine, 1,2-diethyl-	88	C4H12N2	001615-80-1	9





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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

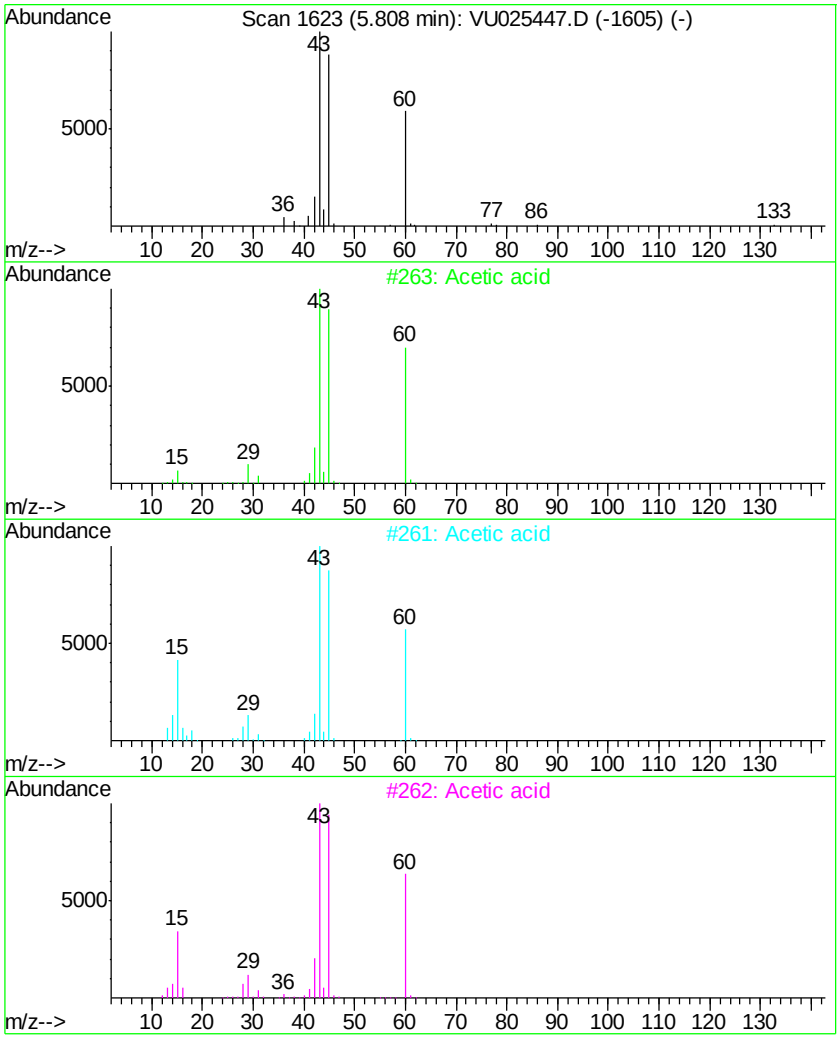
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

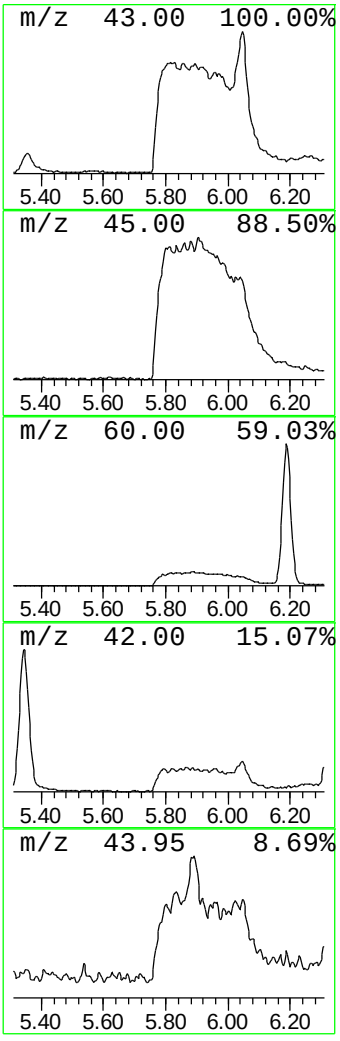
****

Peak Number 12 Acetic acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.81	9.99 ug/L	148954	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid	60	C2H4O2	000064-19-7	90
2	Acetic acid	60	C2H4O2	000064-19-7	90
3	Acetic acid	60	C2H4O2	000064-19-7	90
4	Acetic acid	60	C2H4O2	000064-19-7	83
5	Acetic acid	60	C2H4O2	000064-19-7	78





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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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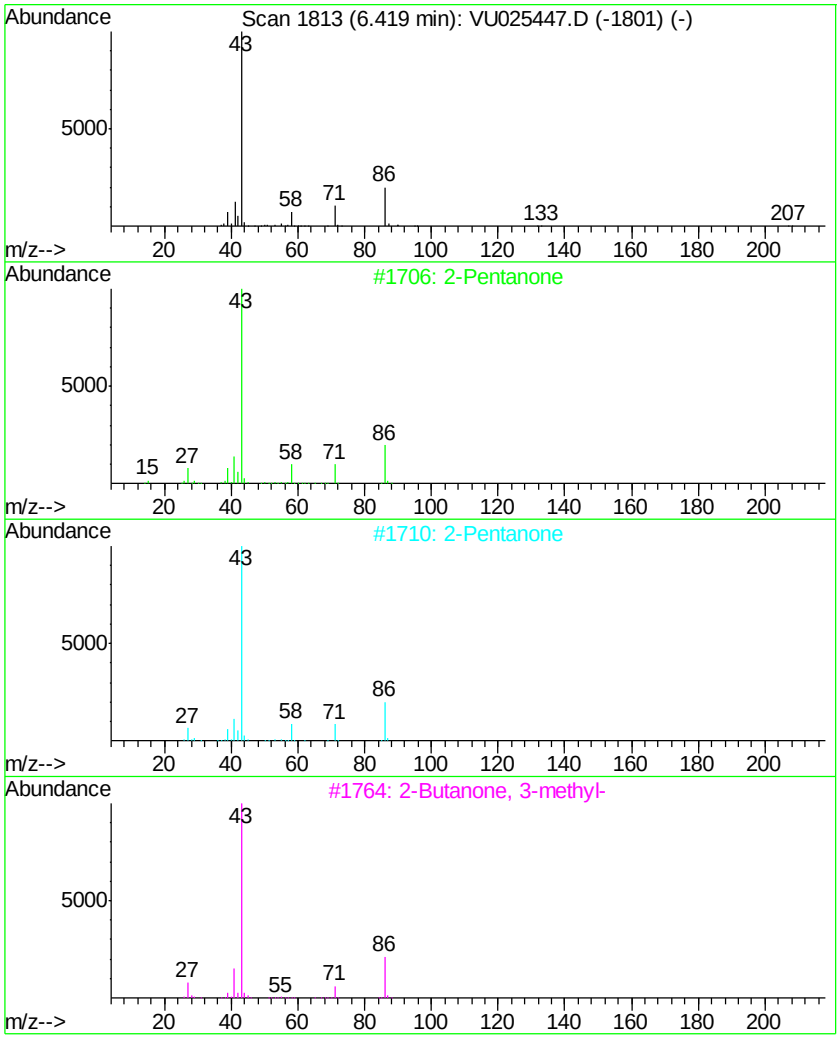
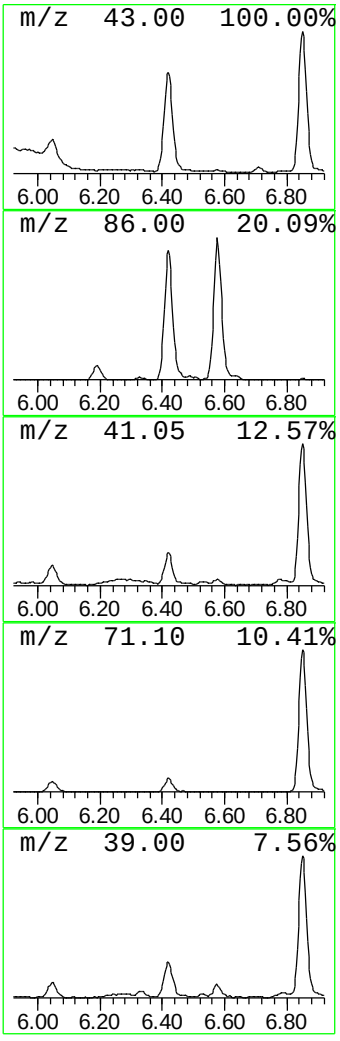
Peak Number 13 2-Pentanone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.42	14.29 ug/L	213040	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone	86	C5H10O	000107-87-9	87
2	2-Pentanone	86	C5H10O	000107-87-9	80
3	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	59
4	2-Pentanone	86	C5H10O	000107-87-9	40
5	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	9





Library Search Compound Report

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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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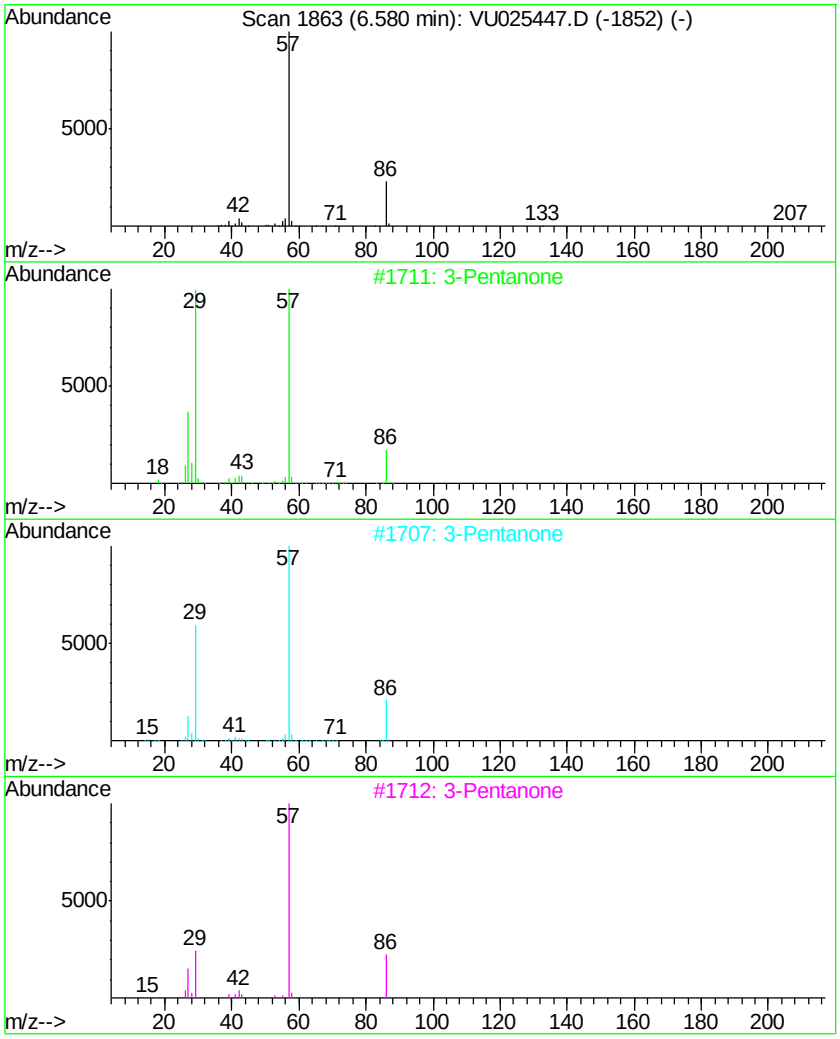
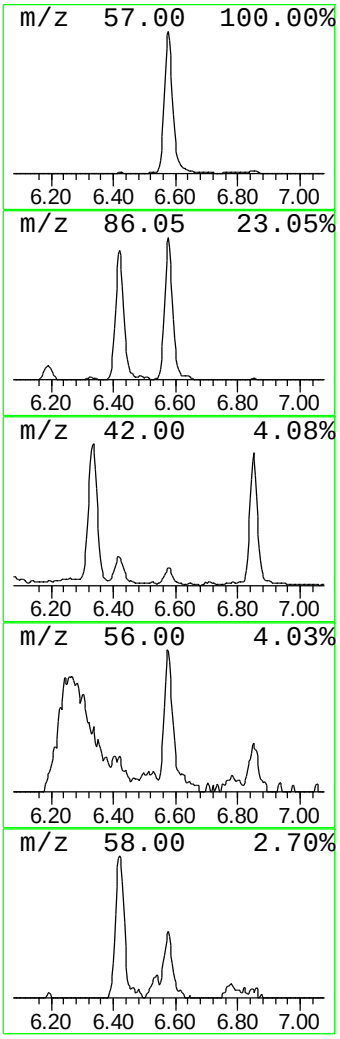
Peak Number 14 3-Pentanone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.58	10.68 ug/L	159311	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanone	86	C5H10O	000096-22-0	80
2	3-Pentanone	86	C5H10O	000096-22-0	72
3	3-Pentanone	86	C5H10O	000096-22-0	64
4	Acetic acid, [(1,1-dimethylethyl...	148	C6H12O2S	024310-22-3	9
5	Propanoic acid, 2,2-dimethyl-, s...	208	C5H9AgO2	007324-58-5	9





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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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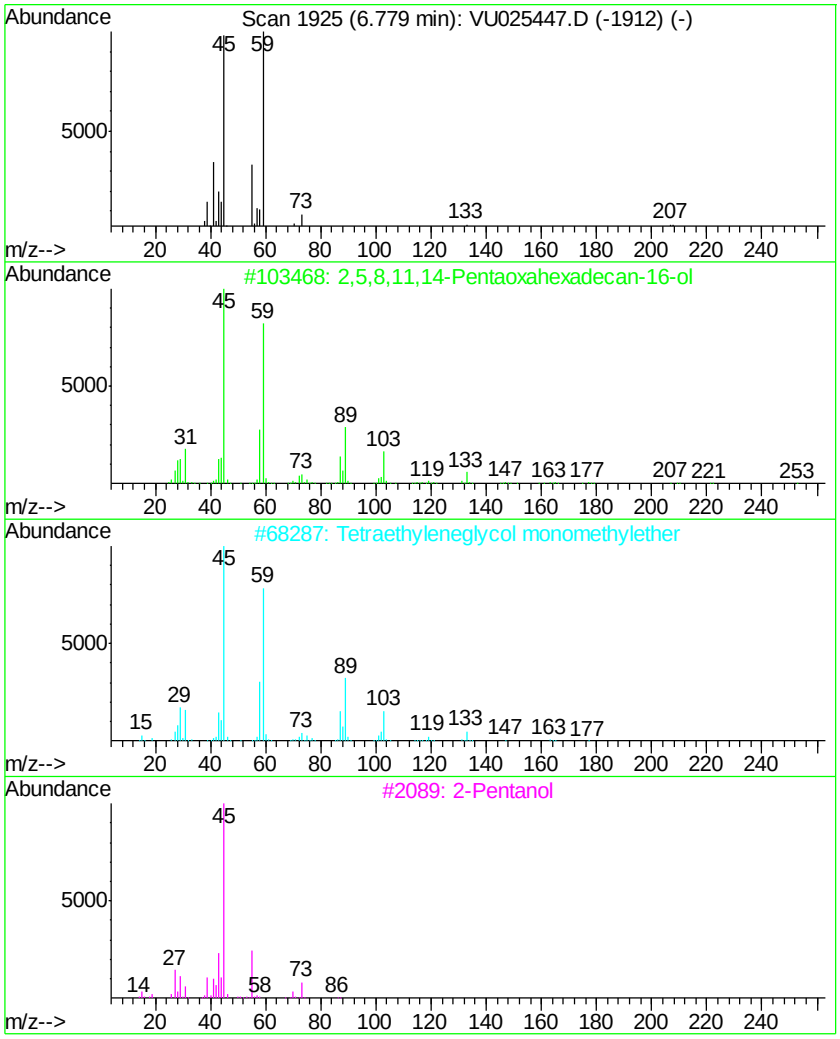
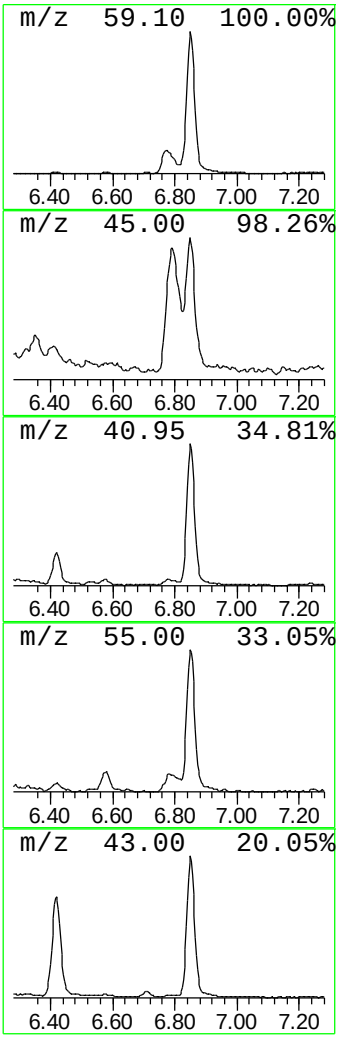
Peak Number 15 unknown-02 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.78	2.78 ug/L	41505	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6	023778-52-1	40
2	Tetraethyleneglycol monomethylether	208	C9H20O5	023783-42-8	40
3	2-Pentanol	88	C5H12O	006032-29-7	38
4	(R)-(-)-2-Pentanol	88	C5H12O	031087-44-2	32
5	2-Pentanol	88	C5H12O	006032-29-7	32





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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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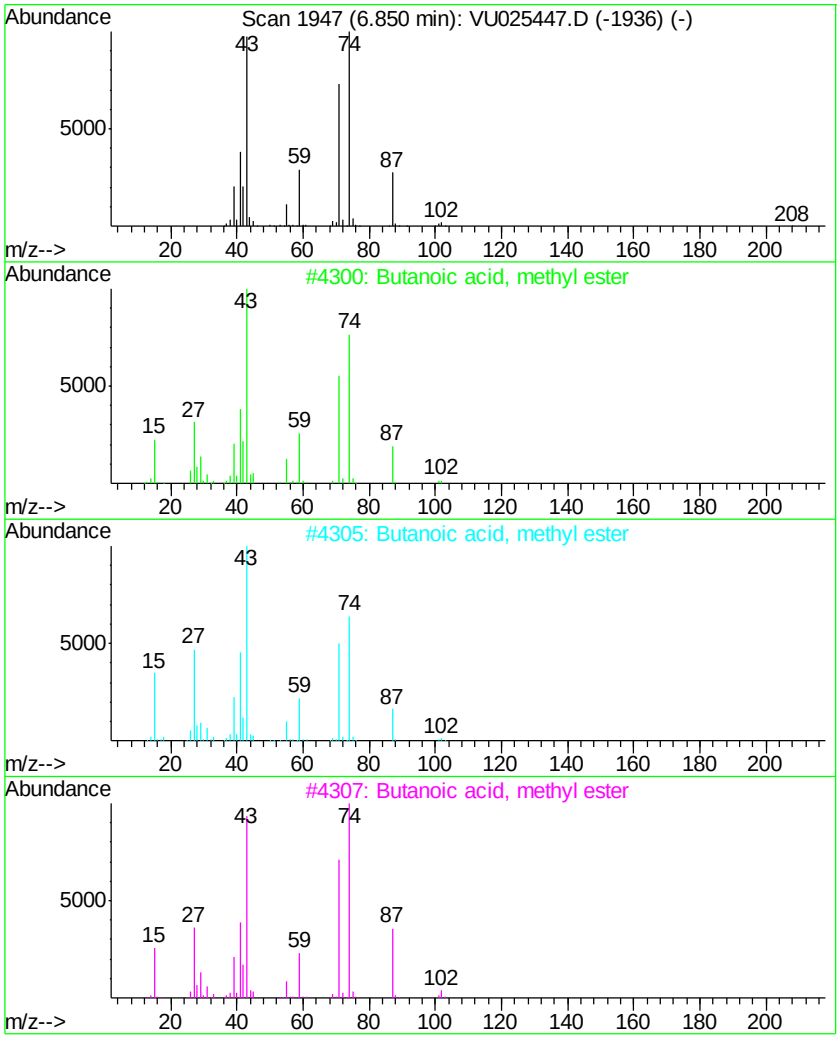
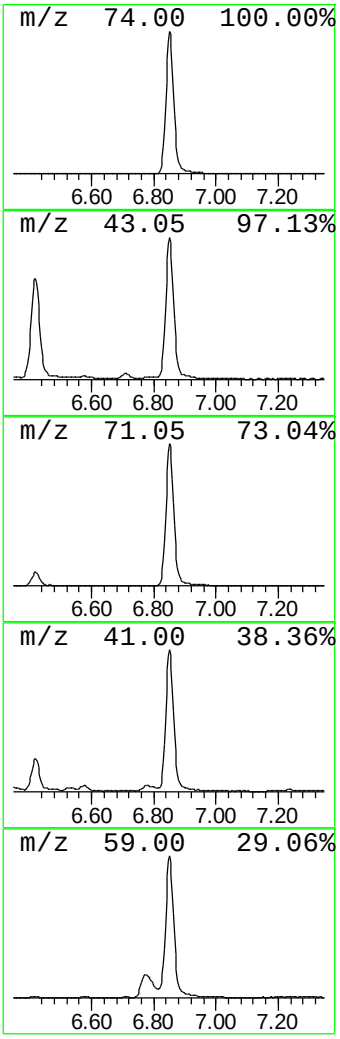
Peak Number 16 Butanoic acid, methyl ester Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.85	47.71 ug/L	711547	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, methyl ester	102	C5H10O2	000623-42-7	90
2	Butanoic acid, methyl ester	102	C5H10O2	000623-42-7	86
3	Butanoic acid, methyl ester	102	C5H10O2	000623-42-7	83
4	Propanoic acid, 2-methyl-, methy...	102	C5H10O2	000547-63-7	43
5	Propanoic acid, 2-methyl-, methy...	102	C5H10O2	000547-63-7	32





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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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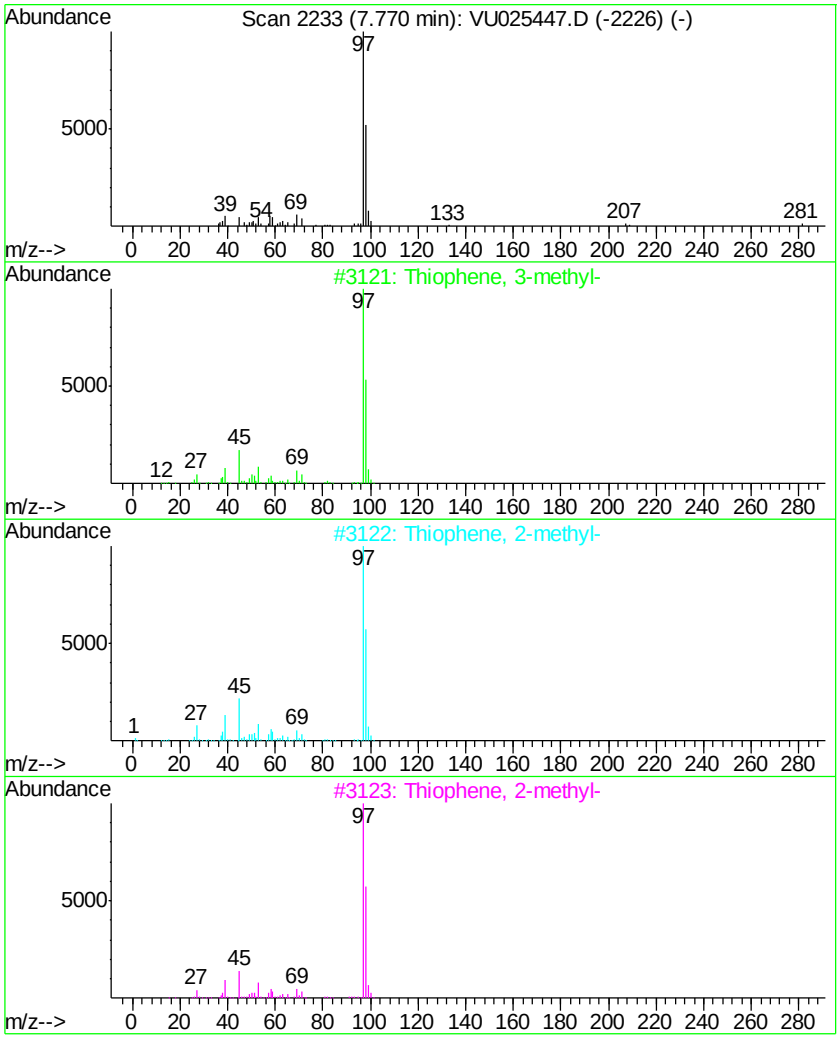
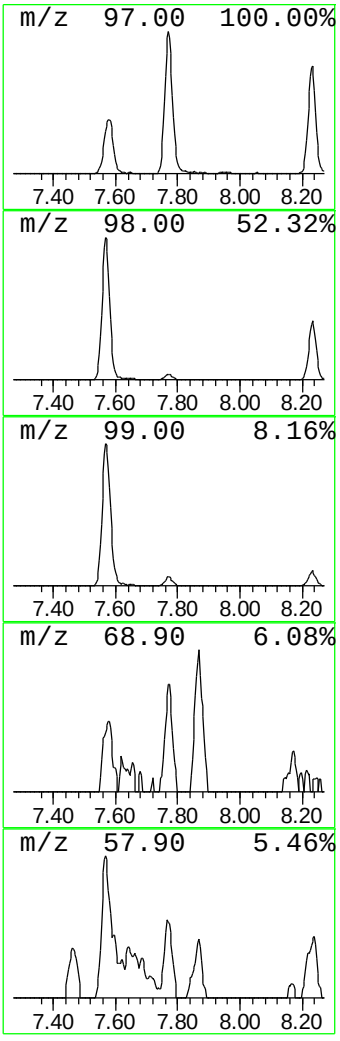
Peak Number 18 Thiophene, 3-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.77	3.73 ug/L	71498	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, 3-methyl-	98	C5H6S	000616-44-4	91
2	Thiophene, 2-methyl-	98	C5H6S	000554-14-3	91
3	Thiophene, 2-methyl-	98	C5H6S	000554-14-3	91
4	Thiophene, 3-methyl-	98	C5H6S	000616-44-4	91
5	Thiophene, 3-methyl-	98	C5H6S	000616-44-4	86





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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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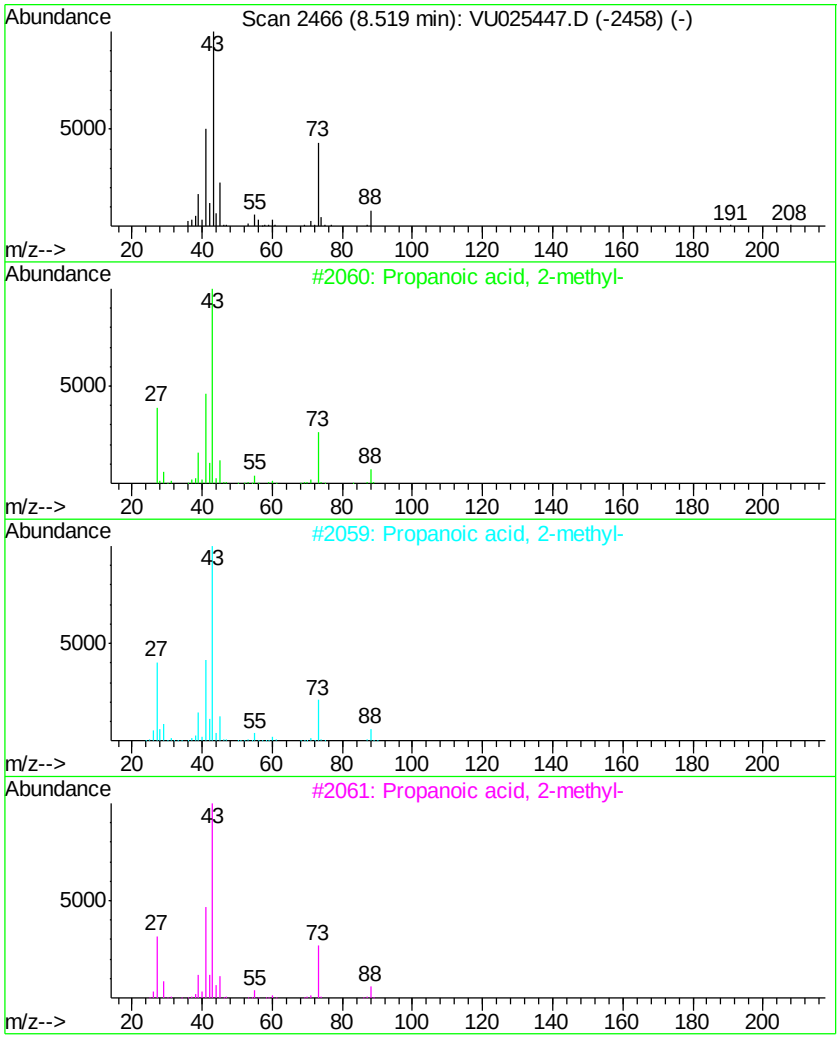
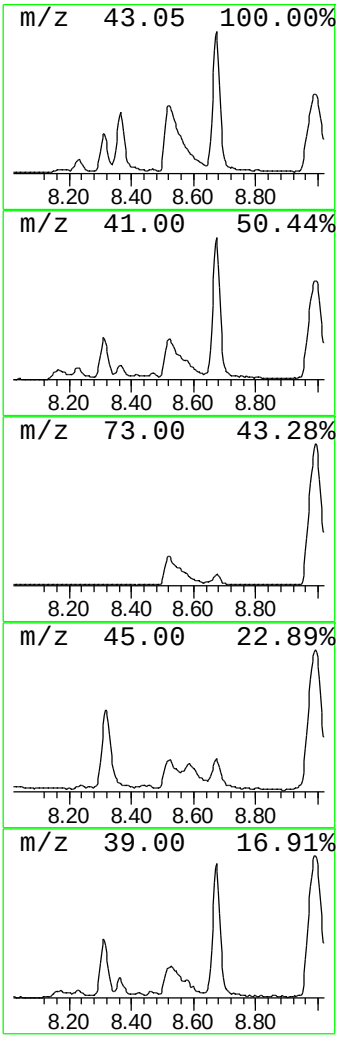
Peak Number 19 Propanoic acid, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.52	7.54 ug/L	144363	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-	88	C4H8O2	000079-31-2	86
2	Propanoic acid, 2-methyl-	88	C4H8O2	000079-31-2	86
3	Propanoic acid, 2-methyl-	88	C4H8O2	000079-31-2	64
4	Acetic acid, (acetyloxy)-	118	C4H6O4	013831-30-6	59
5	Propanoic acid, 2-methyl-	88	C4H8O2	000079-31-2	53





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Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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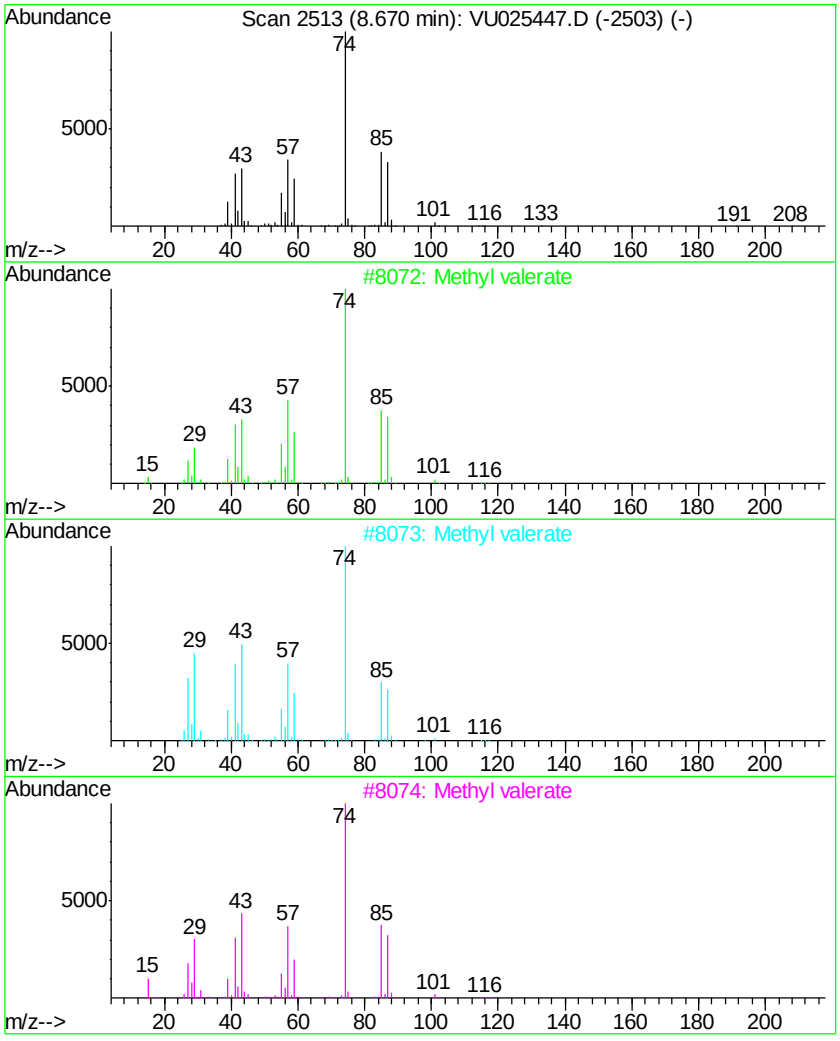
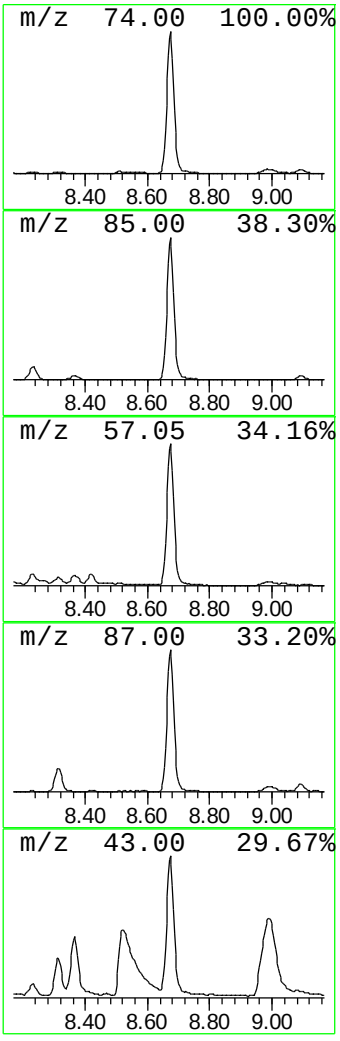
Peak Number 20 Methyl valerate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.67	34.90 ug/L	668593	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methyl valerate	116	C6H12O2	000624-24-8	94
2	Methyl valerate	116	C6H12O2	000624-24-8	91
3	Methyl valerate	116	C6H12O2	000624-24-8	91
4	Methyl valerate	116	C6H12O2	000624-24-8	83
5	Methyl isovalerate	116	C6H12O2	000556-24-1	72





Library Search Compound Report

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Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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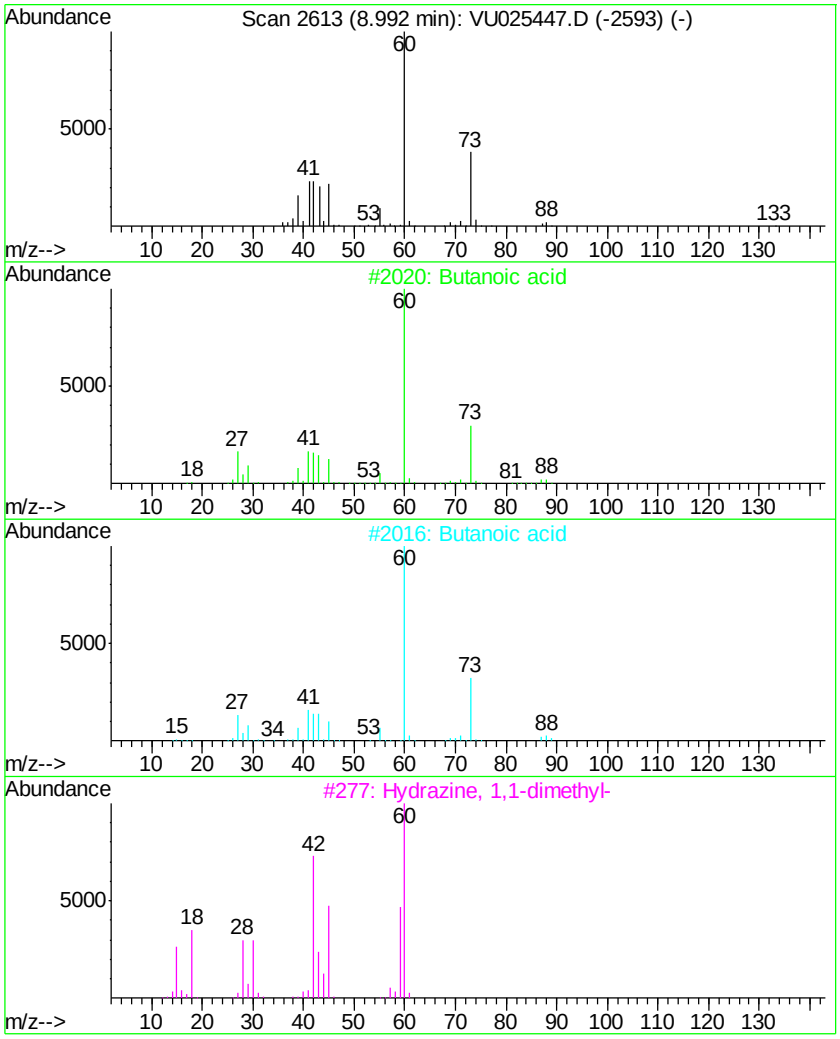
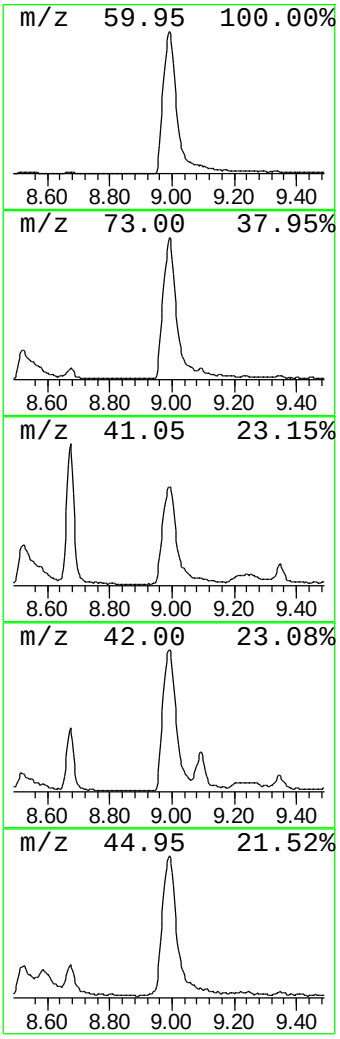
Peak Number 21 Butanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.99	42.28 ug/L	809963	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid	88	C4H8O2	000107-92-6	87
2	Butanoic acid	88	C4H8O2	000107-92-6	64
3	Hydrazine, 1,1-dimethyl-	60	C2H8N2	000057-14-7	9
4	Hydrazine, 1,1-dimethyl-	60	C2H8N2	000057-14-7	9
5	Hexanoic acid	116	C6H12O2	000142-62-1	9





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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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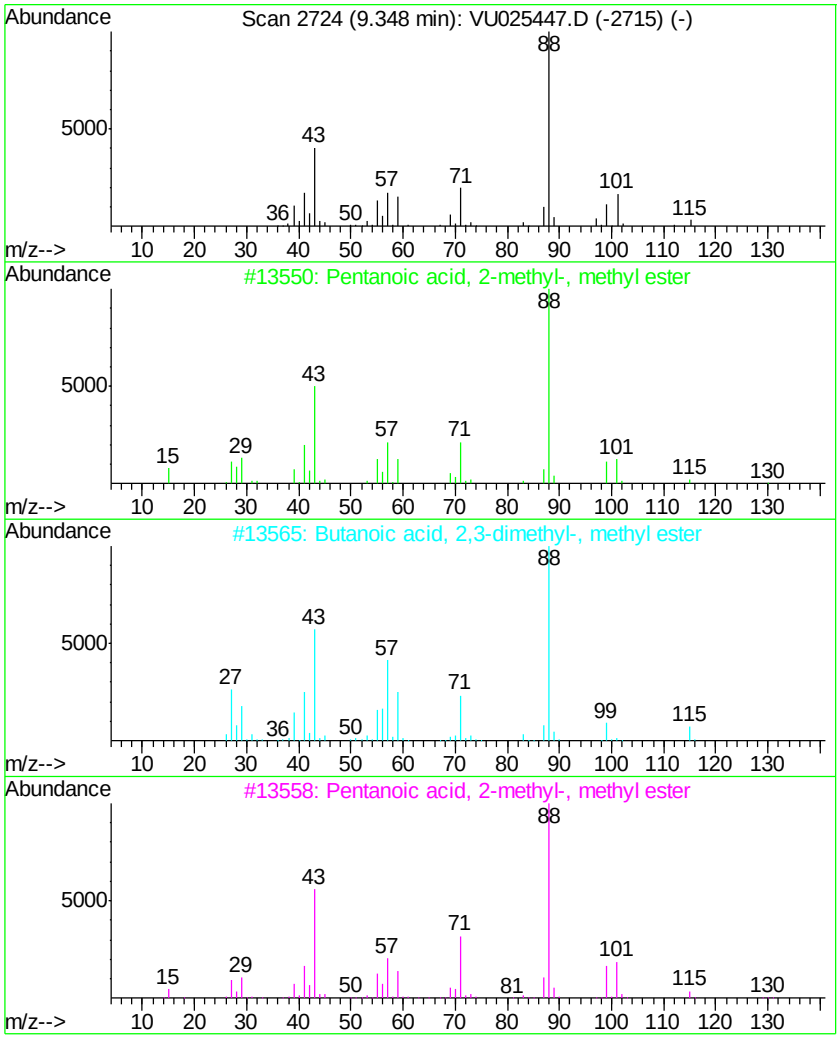
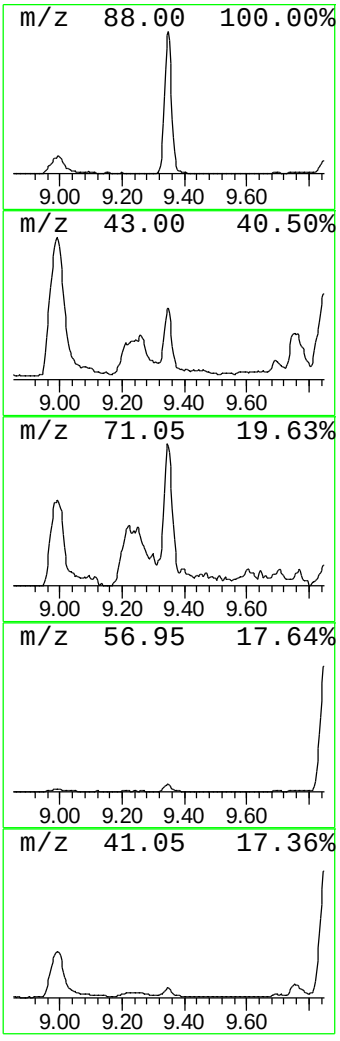
Peak Number 22 Pentanoic acid, 2-methyl-, ... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	6.88 ug/L	131818	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanoic acid, 2-methyl-, methy...	130	C7H14O2	002177-77-7	78
2	Butanoic acid, 2,3-dimethyl-, me...	130	C7H14O2	030540-29-5	64
3	Pentanoic acid, 2-methyl-, methy...	130	C7H14O2	002177-77-7	53
4	Methyl 2-methylhexanoate	144	C8H16O2	002177-81-3	53
5	Octanoic acid, 2-methyl-, methyl...	172	C10H20O2	002177-86-8	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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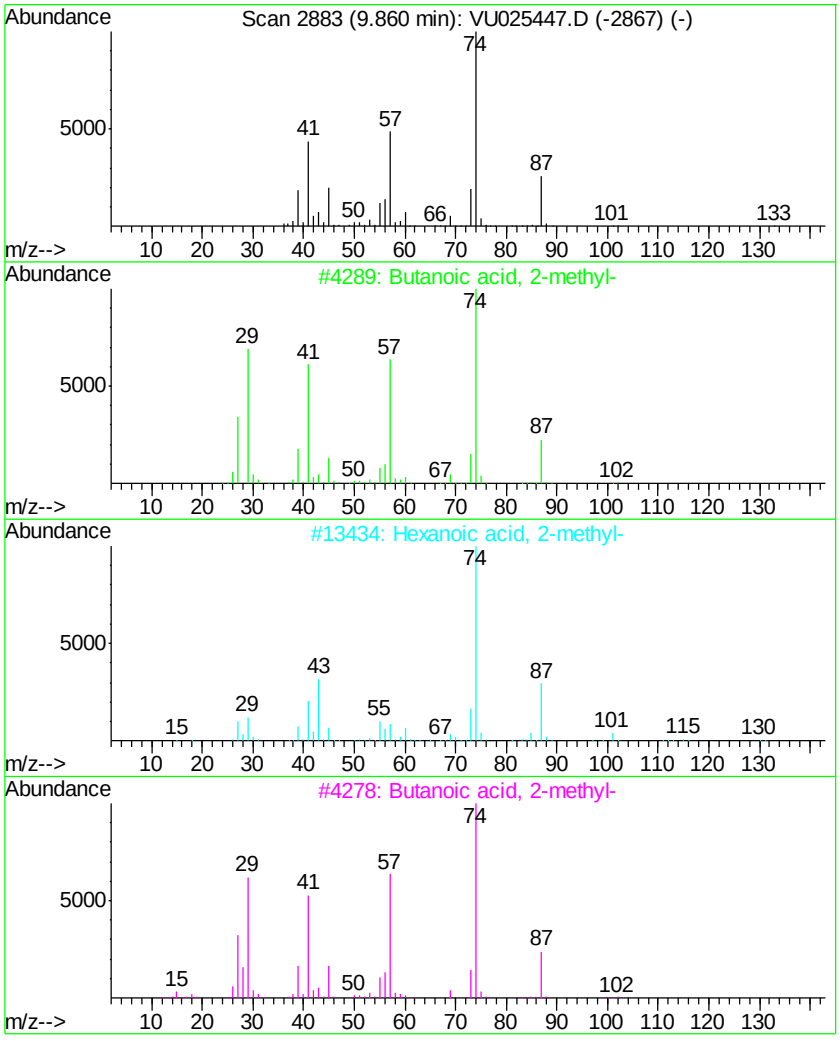
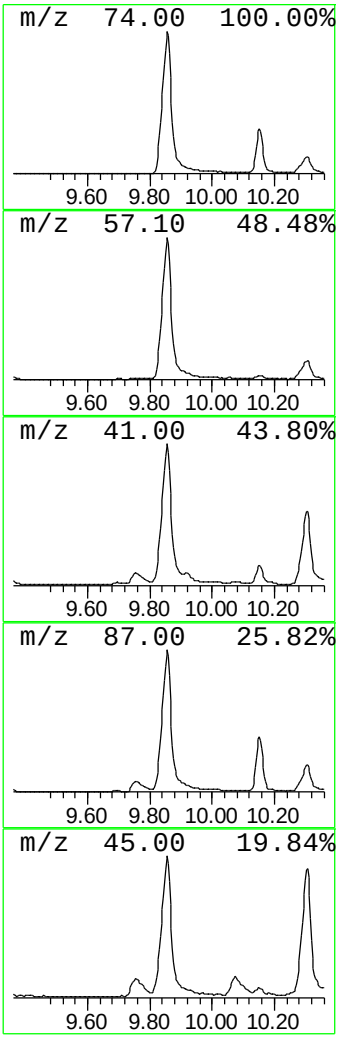
Peak Number 24 Butanoic acid, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.86	65.44 ug/L	1253520	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 2-methyl-	102	C5H10O2	000116-53-0	72
2	Hexanoic acid, 2-methyl-	130	C7H14O2	004536-23-6	72
3	Butanoic acid, 2-methyl-	102	C5H10O2	000116-53-0	72
4	Pentanoic acid, 2-methyl-	116	C6H12O2	000097-61-0	64
5	Pentanoic acid, 2-methyl-	116	C6H12O2	000097-61-0	45





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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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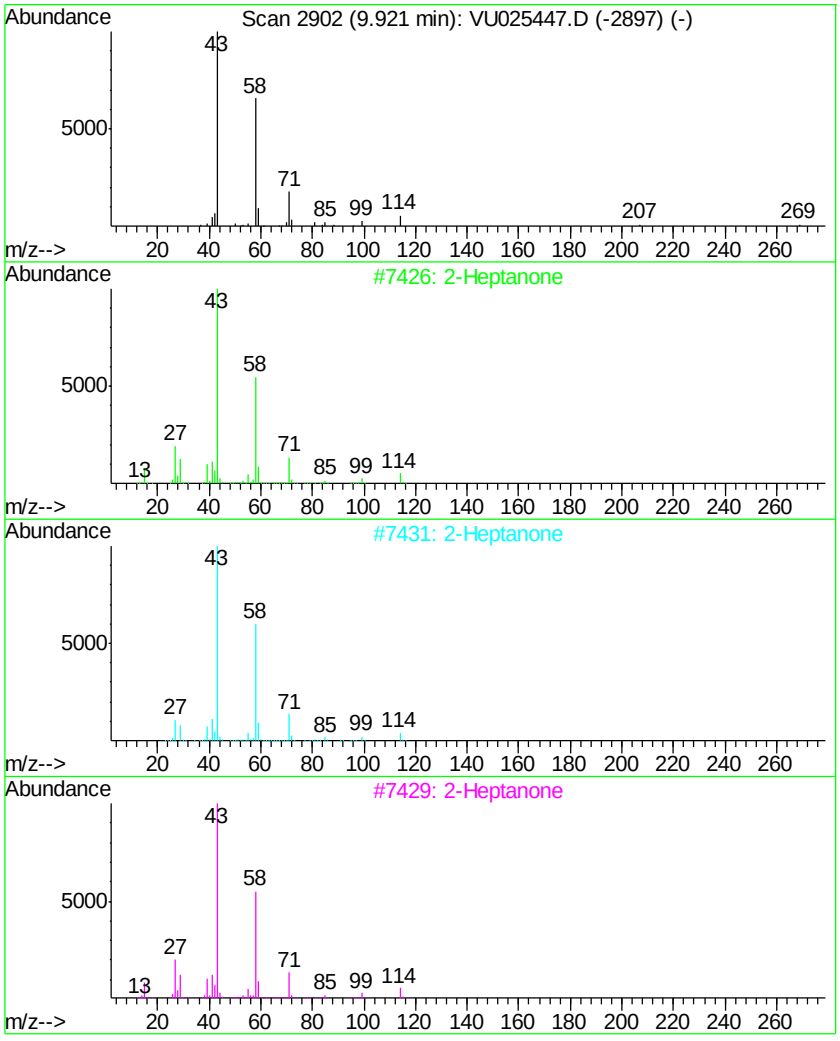
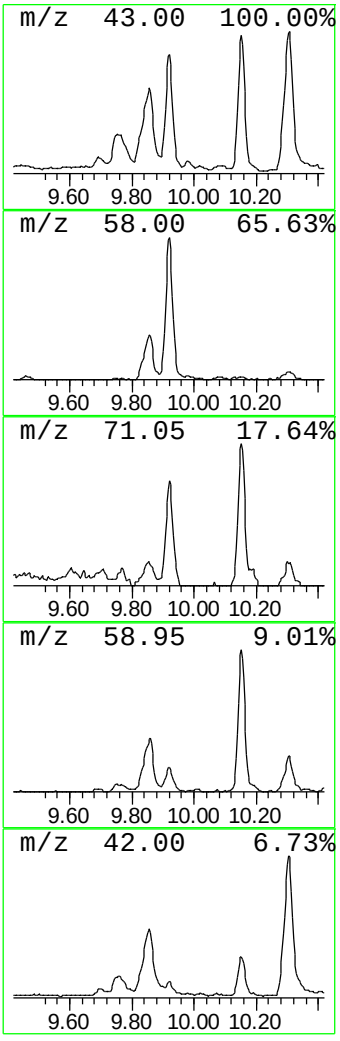
Peak Number 25 2-Heptanone Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.92	5.17 ug/L	98951	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone	114	C7H14O	000110-43-0	90
2	2-Heptanone	114	C7H14O	000110-43-0	90
3	2-Heptanone	114	C7H14O	000110-43-0	90
4	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	72
5	2-Hexanone, 4-methyl-	114	C7H14O	000105-42-0	72





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Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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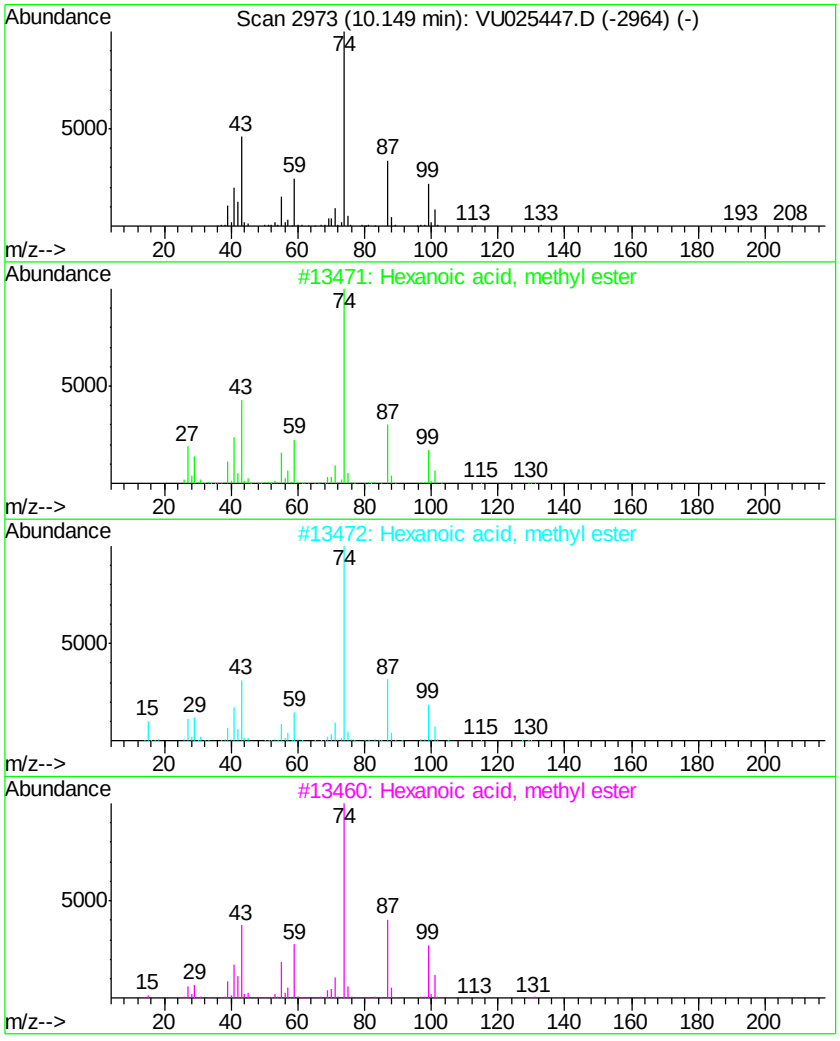
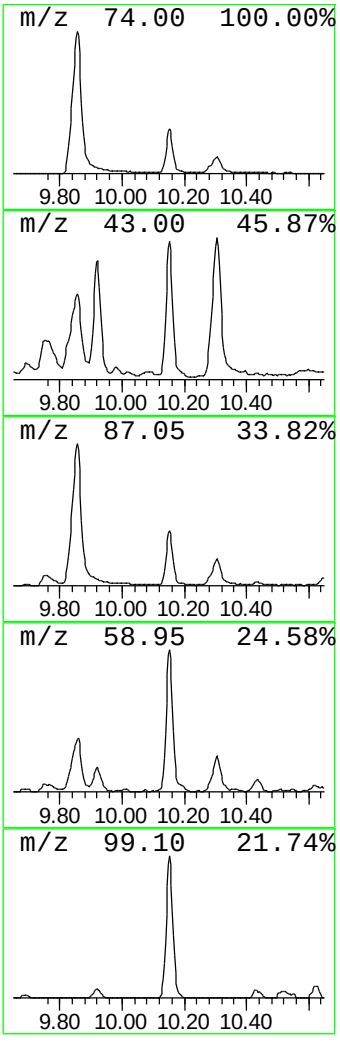
Peak Number 26 Hexanoic acid, methyl ester Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.15	14.88 ug/L	285021	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	78
2	Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	72
3	Hexanoic acid, methyl ester	130	C7H14O2	000106-70-7	64
4	Methyl valerate	116	C6H12O2	000624-24-8	59
5	Methyl valerate	116	C6H12O2	000624-24-8	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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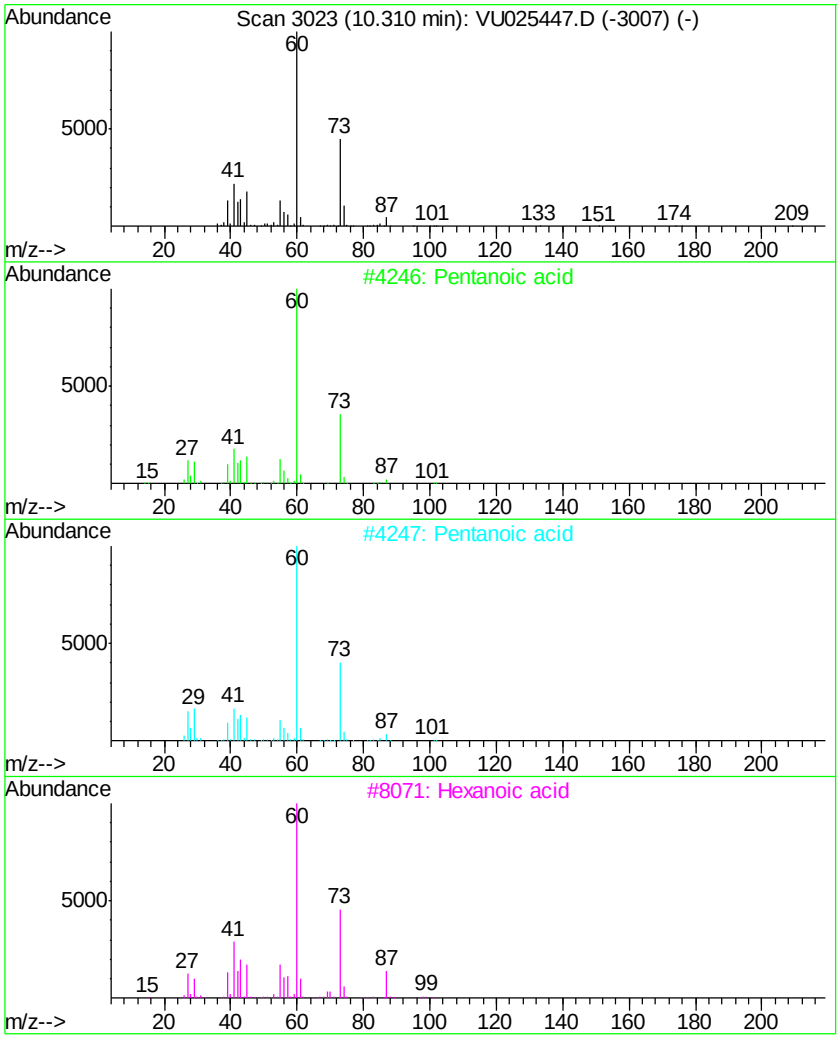
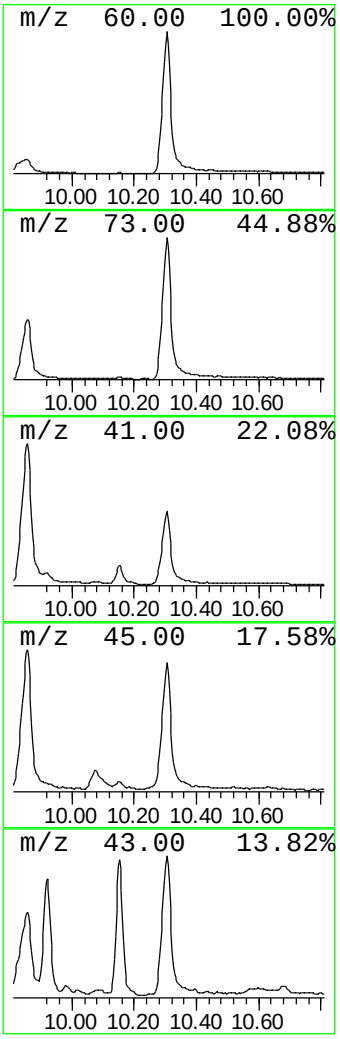
Peak Number 27 Pentanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.31	45.64 ug/L	1016930	1,4-Dichlorobenzene-d4	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanoic acid	102	C5H10O2	000109-52-4	86
2	Pentanoic acid	102	C5H10O2	000109-52-4	64
3	Hexanoic acid	116	C6H12O2	000142-62-1	56
4	Hexanoic acid	116	C6H12O2	000142-62-1	56
5	Hexanoic acid	116	C6H12O2	000142-62-1	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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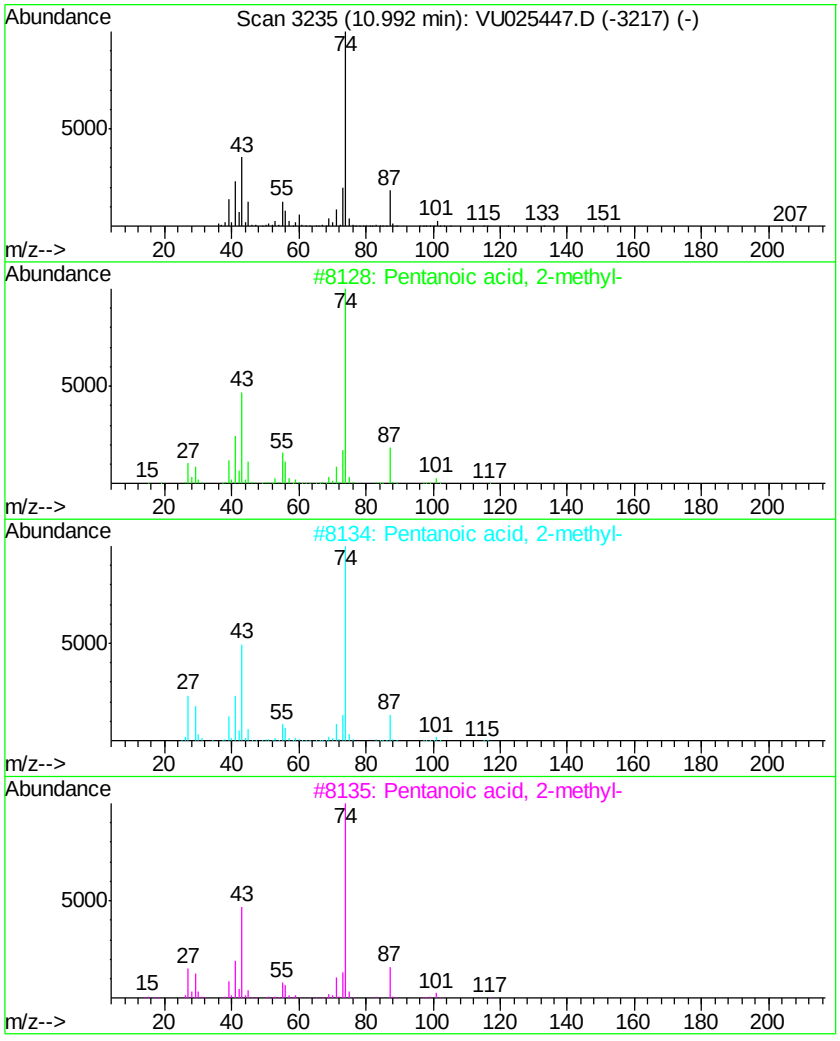
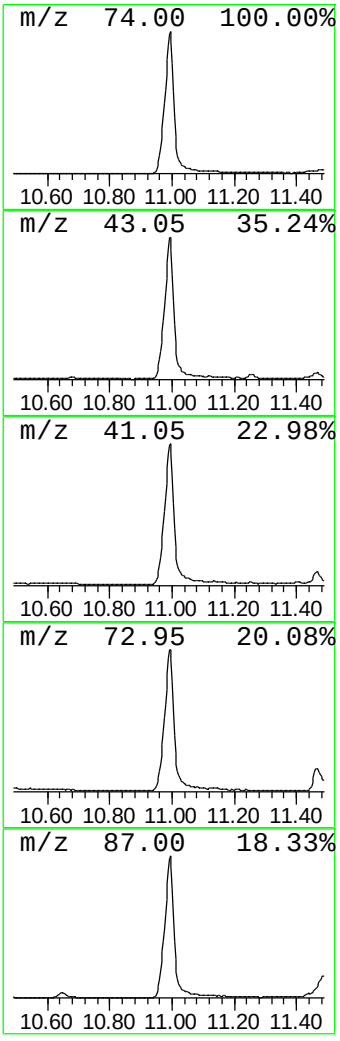
Peak Number 28 Pentanoic acid, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	100.36 ug/L	2236460	1,4-Dichlorobenzene-d4	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanoic acid, 2-methyl-	116	C6H12O2	000097-61-0	83
2	Pentanoic acid, 2-methyl-	116	C6H12O2	000097-61-0	72
3	Pentanoic acid, 2-methyl-	116	C6H12O2	000097-61-0	64
4	Hexanoic acid, 2-methyl-	130	C7H14O2	004536-23-6	39
5	Butanoic acid, 2-methyl-	102	C5H10O2	000116-53-0	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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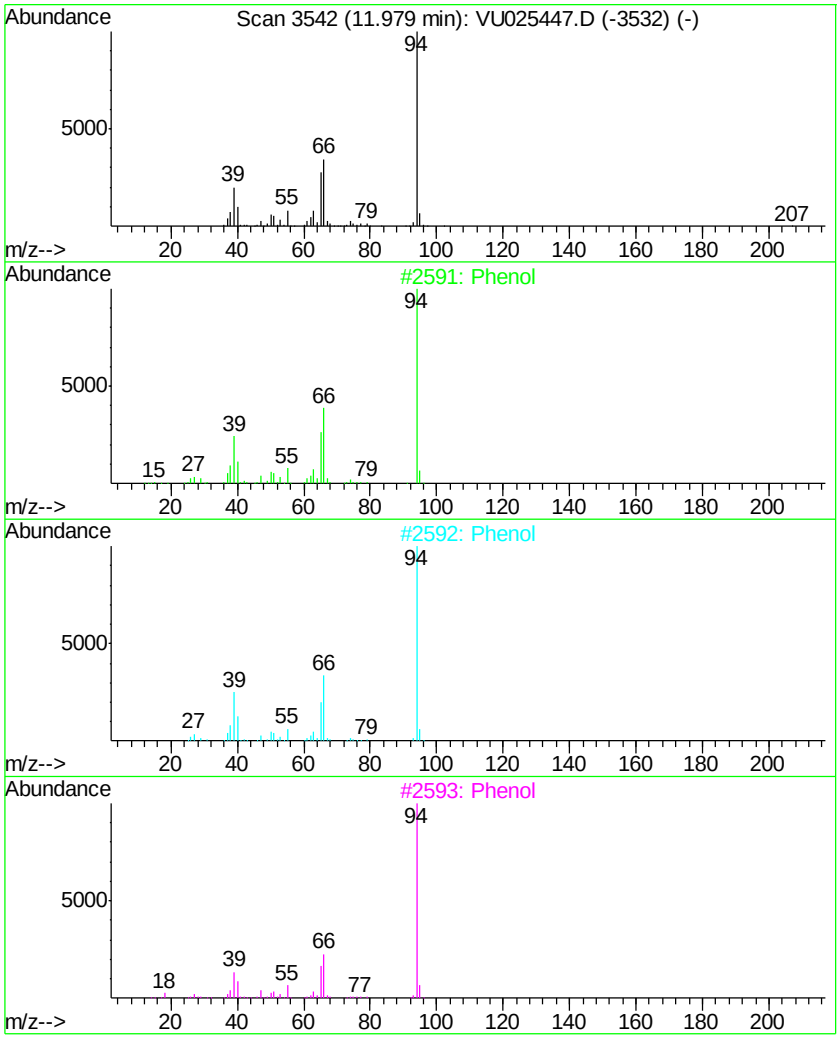
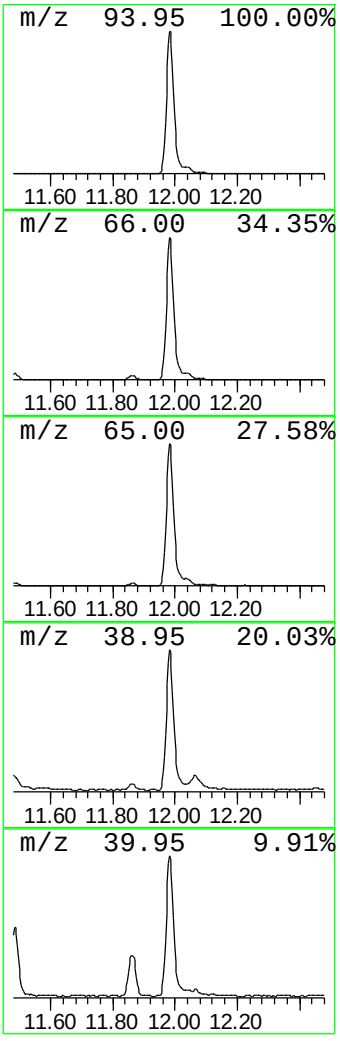
Peak Number 29 Phenol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	33.04 ug/L	736312	1,4-Dichlorobenzene-d4	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol	94	C6H6O	000108-95-2	96
2	Phenol	94	C6H6O	000108-95-2	95
3	Phenol	94	C6H6O	000108-95-2	91
4	Phosphonic acid, (p-hydroxyphenyl)-	174	C6H7O4P	033795-18-5	90
5	2-Vinylfuran	94	C6H6O	001487-18-9	86





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
Quant Title : VOC Analysis

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

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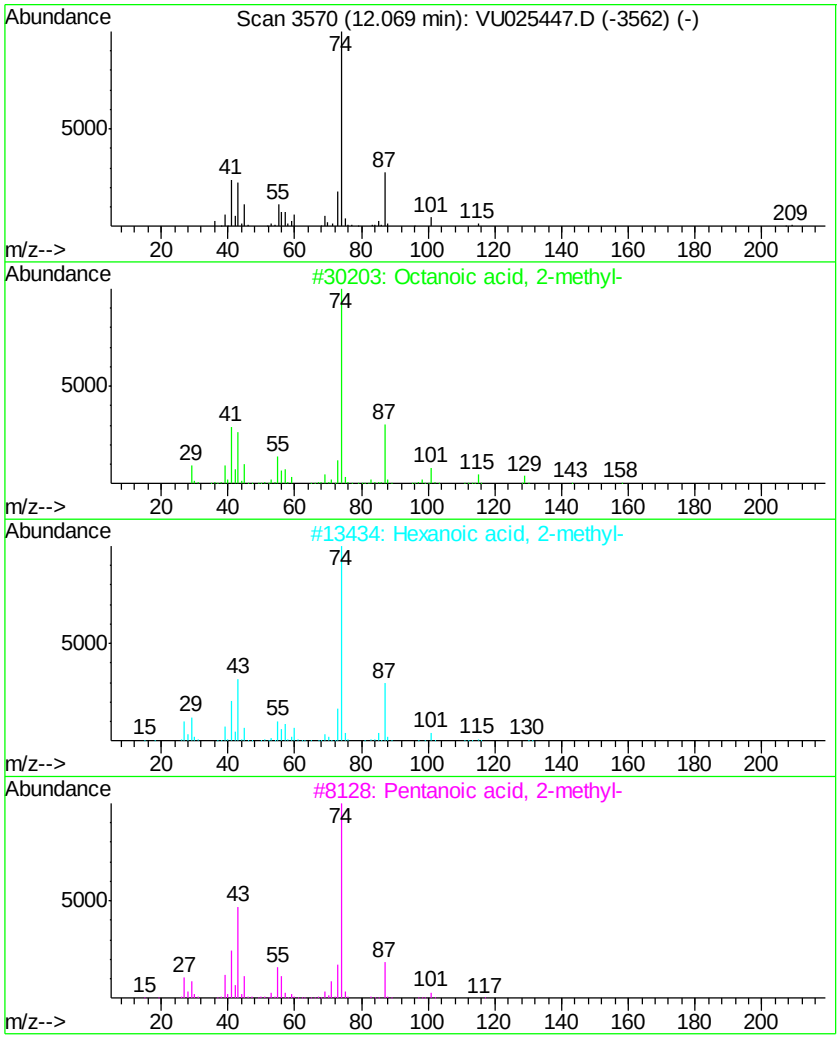
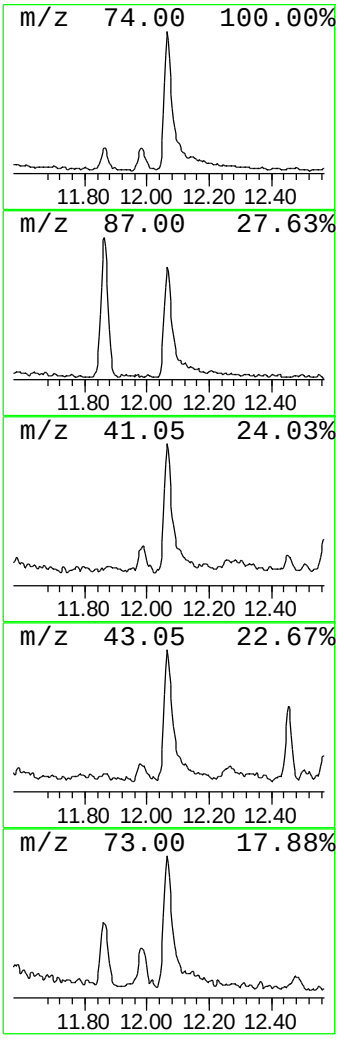
Peak Number 30 Octanoic acid, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	7.38 ug/L	164404	1,4-Dichlorobenzene-d4	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanoic acid, 2-methyl-	158	C9H18O2	003004-93-1	83
2	Hexanoic acid, 2-methyl-	130	C7H14O2	004536-23-6	78
3	Pentanoic acid, 2-methyl-	116	C6H12O2	000097-61-0	74
4	Hexanoic acid, 2-methyl-	130	C7H14O2	004536-23-6	64
5	Butanoic acid, 2-methyl-	102	C5H10O2	000116-53-0	56





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
Data File : VU025447.D
Acq On : 17 Jul 2018 00:37
Operator : MD/SY
Sample : J3984-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB189

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.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
Methanethiol	1.56	20.3	ug/L	302717	1	5.89	745650	50.0
unknown-01	2.01	4.0	ug/L	59235	1	5.89	745650	50.0
Ethanethiol	2.18	18.4	ug/L	274104	1	5.89	745650	50.0
Dimethyl sulfide	2.37	4.3	ug/L	64373	1	5.89	745650	50.0
1-Propanol	3.60	10.6	ug/L	158239	1	5.89	745650	50.0
2-Butanol	4.56	11.0	ug/L	163983	1	5.89	745650	50.0
Methyl propionate	4.80	179.2	ug/L	2672800	1	5.89	745650	50.0
Acetic acid	5.81	10.0	ug/L	148954	1	5.89	745650	50.0
2-Pentanone	6.42	14.3	ug/L	213040	1	5.89	745650	50.0
3-Pentanone	6.58	10.7	ug/L	159311	1	5.89	745650	50.0
unknown-02	6.78	2.8	ug/L	41505	1	5.89	745650	50.0
Butanoic acid, me...	6.85	47.7	ug/L	711547	1	5.89	745650	50.0
Thiophene, 3-methyl-	7.77	3.7	ug/L	71498	2	9.09	957744	50.0
Propanoic acid, 2...	8.52	7.5	ug/L	144363	2	9.09	957744	50.0
Methyl valerate	8.67	34.9	ug/L	668593	2	9.09	957744	50.0
Butanoic acid	8.99	42.3	ug/L	809963	2	9.09	957744	50.0
Pentanoic acid, 2...	9.35	6.9	ug/L	131818	2	9.09	957744	50.0
Butanoic acid, 2-...	9.86	65.4	ug/L	1253520	2	9.09	957744	50.0
2-Heptanone	9.92	5.2	ug/L	98951	2	9.09	957744	50.0
Hexanoic acid, me...	10.15	14.9	ug/L	285021	2	9.09	957744	50.0
Pentanoic acid	10.31	45.6	ug/L	1016930	3	11.49	1114200	50.0
Pentanoic acid, 2...	10.99	100.4	ug/L	2236460	3	11.49	1114200	50.0
Phenol	11.98	33.0	ug/L	736312	3	11.49	1114200	50.0
Octanoic acid, 2-...	12.07	7.4	ug/L	164404	3	11.49	1114200	50.0