LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
Data File : VX003059.D
Acq On : 30 Jun 2018 05:09
Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_X\METHOD\82X062518W.M
Title : SW846 8260

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.075	76	80	90	rBV	723784	1007825	36.05%	2.559%
2	1.300	109	117	133	rBV	512036	2063162	73.80%	5.239%
3	1.581	160	163	168	rBV	167212	177138	6.34%	0.450%
4	1.788	193	197	214	rVB	131594	207977	7.44%	0.528%
5	2.002	227	232	245	rVB	115487	171775	6.14%	0.436%
6	2.398	291	297	301	rBV	26859	51499	1.84%	0.131%
7	2.483	308	311	322	rVB	42475	71161	2.55%	0.181%
8	2.636	328	336	337	rBV	32288	66873	2.39%	0.170%
9	2.843	365	370	373	rBV	42476	76349	2.73%	0.194%
10	2.892	373	378	382	rVV	118456	209317	7.49%	0.532%
11	3.172	416	424	435	rVB	148889	348440	12.46%	0.885%
12	3.520	473	481	492	rVB	93164	210597	7.53%	0.535%
13	4.306	598	610	616	rBV2	15361	48175	1.72%	0.122%
14	4.397	616	625	642	rVB	188053	557409	19.94%	1.415%
15	5.239	748	763	781	rBV5	13580	59358	2.12%	0.151%
16	5.507	794	807	813	rBV	191314	565988	20.24%	1.437%
17	5.580	813	819	826	rVV2	179735	588807	21.06%	1.495%
18	5.665	826	833	862	rVV	304394	1042047	37.27%	2.646%
19	5.934	864	877	890	rVV5	82403	277802	9.94%	0.705%
20	6.074	890	900	908	rVV	202531	529692	18.95%	1.345%
21	6.147	908	912	921	rVV	27219	68615	2.45%	0.174%
22	6.263	921	931	938	rVV3	46710	164723	5.89%	0.418%
23	6.354	938	946	954	rVV2	86818	267298	9.56%	0.679%
24	6.452	954	962	974	rVB2	72835	204342	7.31%	0.519%
25	6.866	1019	1030	1056	rVB	421004	988088	35.34%	2.509%
26	7.464	1115	1128	1139	rBV	470718	1087909	38.91%	2.763%
27	7.732	1167	1172	1181	rVB	47876	94852	3.39%	0.241%
28	7.848	1184	1191	1200	rVB2	29595	62284	2.23%	0.158%
29	8.055	1213	1225	1235	rVB3	47916	149530	5.35%	0.380%
30	8.177	1235	1245	1254	rBV	78368	171797	6.14%	0.436%
31	8.391	1275	1280	1286	rVB2	26629	49199	1.76%	0.125%
32	8.671	1319	1326	1329	rBV3	108088	210792	7.54%	0.535%
33	8.720	1329	1334	1340	rVV	1010070	1619726	57.94%	4.113%
34	8.787	1340	1345	1350	rVV	119633	194683	6.96%	0.494%

LSC Area Percent Report

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Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_X\METHOD\82X062518W.M
Title : SW846 8260

35	8.842	1350	1354	1358	rVV	57996	96356	3.45%	0.245%
36	8.915	1362	1366	1372	rVB2	34409	56073	2.01%	0.142%
37	9.043	1381	1387	1394	rVB	110342	178542	6.39%	0.453%
38	9.165	1399	1407	1413	rBV	58832	98392	3.52%	0.250%
39	9.573	1468	1474	1478	rBV4	45829	77458	2.77%	0.197%
40	9.628	1478	1483	1487	rVB	95927	136122	4.87%	0.346%
41	9.683	1487	1492	1496	rBV	75211	115563	4.13%	0.293%
42	9.896	1519	1527	1534	rBV3	21286	48057	1.72%	0.122%
43	10.116	1557	1563	1570	rBV	885462	1158272	41.43%	2.941%
44	10.189	1570	1575	1580	rVV	50961	79401	2.84%	0.202%
45	10.256	1580	1586	1591	rVV	937872	1230900	44.03%	3.126%
46	10.360	1595	1603	1610	rVV	1758090	2436667	87.16%	6.188%
47	10.646	1642	1650	1654	rBV2	37135	87369	3.13%	0.222%
48	10.701	1654	1659	1671	rVB	2226413	2795724	100.00%	7.099%
49	10.841	1673	1682	1687	rVB2	57635	95026	3.40%	0.241%
50	11.018	1706	1711	1715	rBV	107988	142048	5.08%	0.361%
51	11.140	1725	1731	1736	rBV	937604	1154915	41.31%	2.933%
52	11.366	1763	1768	1775	rVV	125883	170990	6.12%	0.434%
53	11.439	1775	1780	1787	rVV	432197	834684	29.86%	2.120%
54	11.506	1787	1791	1800	rVB	276814	377009	13.49%	0.957%
55	11.670	1809	1818	1827	rBV	1144107	1395967	49.93%	3.545%
56	11.811	1836	1841	1847	rVB	1246653	1495238	53.48%	3.797%
57	11.951	1861	1864	1869	rVB	51190	64197	2.30%	0.163%
58	12.030	1869	1877	1880	rBV	163891	212368	7.60%	0.539%
59	12.079	1880	1885	1891	rVV	1114246	1427874	51.07%	3.626%
60	12.146	1891	1896	1906	rVB	1218261	1459395	52.20%	3.706%
61	12.237	1906	1911	1916	rVB	50146	68149	2.44%	0.173%
62	12.305	1916	1922	1924	rBV2	378059	508083	18.17%	1.290%
63	12.323	1924	1925	1929	rVV	208609	204247	7.31%	0.519%
64	12.372	1929	1933	1942	rVB2	203974	316882	11.33%	0.805%
65	12.463	1943	1948	1953	rBV2	128758	170273	6.09%	0.432%
66	12.524	1953	1958	1963	rVB	328710	407972	14.59%	1.036%
67	12.591	1963	1969	1971	rBV	176604	242455	8.67%	0.616%
68	12.615	1971	1973	1976	rVV	164766	162682	5.82%	0.413%
69	12.670	1978	1982	1985	rVV	245503	277470	9.92%	0.705%
70	12.707	1985	1988	1992	rVB	65563	80893	2.89%	0.205%
71	12.762	1992	1997	2005	rBV4	235667	475605	17.01%	1.208%

LSC Area Percent Report

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Sample : J3675-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Title : SW846 8260

72	12.853	2009	2012	2016	rBV2	50187	73728	2.64%	0.187%
73	12.908	2016	2021	2025	rVB2	260495	348157	12.45%	0.884%
74	12.981	2025	2033	2036	rBV	248423	348787	12.48%	0.886%
75	13.024	2036	2040	2046	rVB	306963	384717	13.76%	0.977%
76	13.085	2046	2050	2056	rBV2	72532	125810	4.50%	0.319%
77	13.201	2065	2069	2071	rBV2	96800	126695	4.53%	0.322%
78	13.225	2071	2073	2076	rVB2	59265	63909	2.29%	0.162%
79	13.268	2076	2080	2083	rVB2	43215	61442	2.20%	0.156%
80	13.310	2083	2087	2089	rBV2	78451	106901	3.82%	0.271%
81	13.347	2089	2093	2098	rVV2	728115	990039	35.41%	2.514%
82	13.481	2111	2115	2123	rVB	283120	382303	13.67%	0.971%
83	13.566	2124	2129	2132	rBV3	42923	72082	2.58%	0.183%
84	13.603	2132	2135	2137	rVV	54577	71004	2.54%	0.180%
85	13.640	2137	2141	2147	rVV4	159184	322015	11.52%	0.818%
86	13.701	2148	2151	2152	rVV3	71495	88235	3.16%	0.224%
87	13.725	2152	2155	2160	rVB2	116026	168409	6.02%	0.428%
88	13.835	2166	2173	2181	rVB3	191113	373647	13.36%	0.949%
89	13.914	2181	2186	2191	rVB3	79885	123017	4.40%	0.312%
90	13.987	2191	2198	2202	rBV2	116297	181902	6.51%	0.462%
91	14.036	2202	2206	2209	rBV2	39519	51485	1.84%	0.131%
92	14.133	2218	2222	2225	rBV3	42165	56597	2.02%	0.144%
93	14.274	2241	2245	2246	rBV	96406	106437	3.81%	0.270%
94	14.383	2259	2263	2267	rBV	44411	53019	1.90%	0.135%
95	14.432	2267	2271	2275	rVB	51604	61817	2.21%	0.157%
96	14.542	2284	2289	2298	rBV2	137383	203785	7.29%	0.517%
97	14.700	2308	2315	2318	rBV3	96122	154519	5.53%	0.392%
98	14.841	2334	2338	2343	rVV2	99476	150622	5.39%	0.382%
99	15.554	2450	2455	2459	rVB	33655	52093	1.86%	0.132%
100	15.694	2472	2478	2482	rBV	41361	72045	2.58%	0.183%

Sum of corrected areas: 39379765

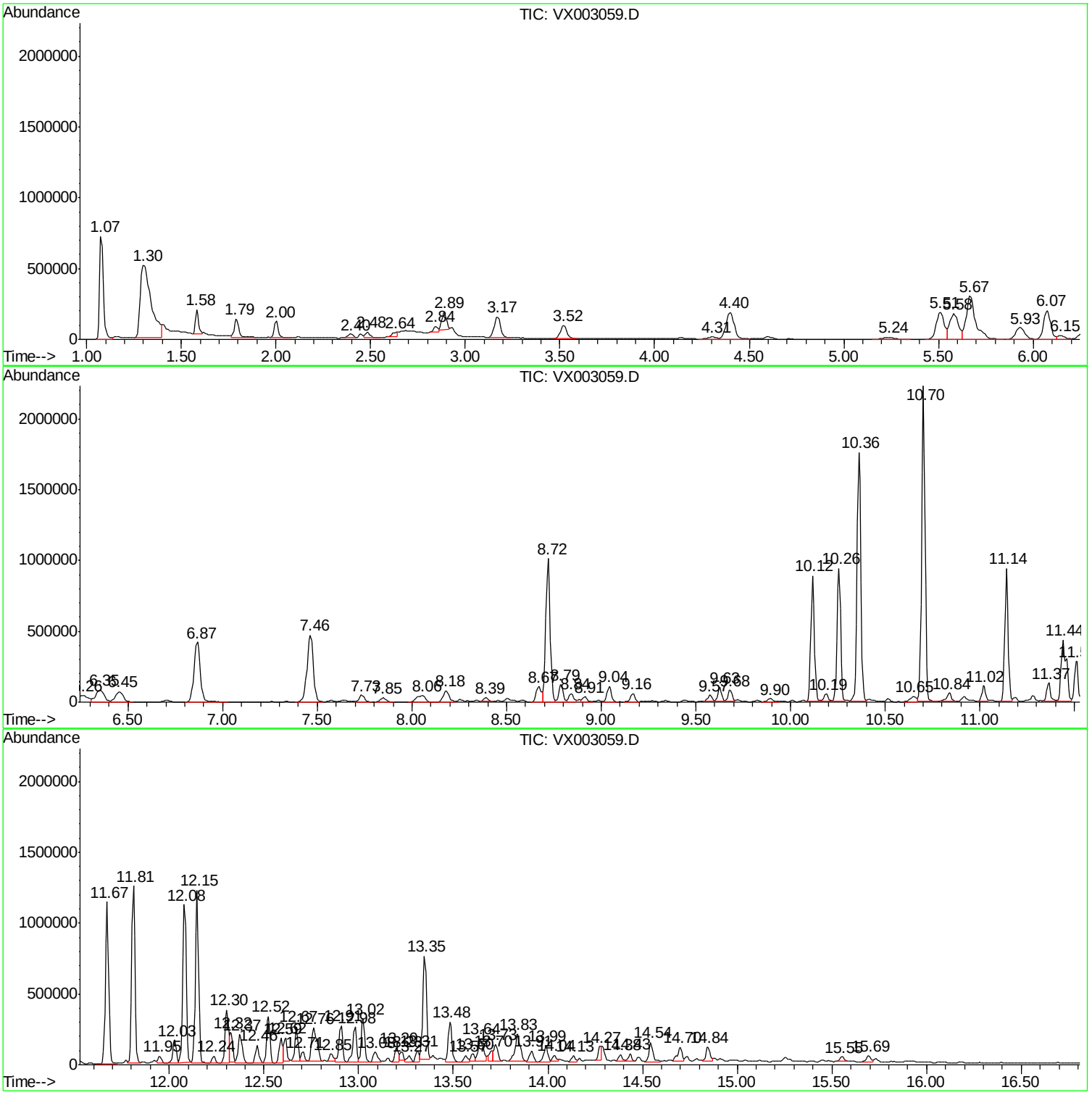
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
Data File : VX003059.D
Acq On : 30 Jun 2018 05:09
Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX062918\
Data File : VX003059.D
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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

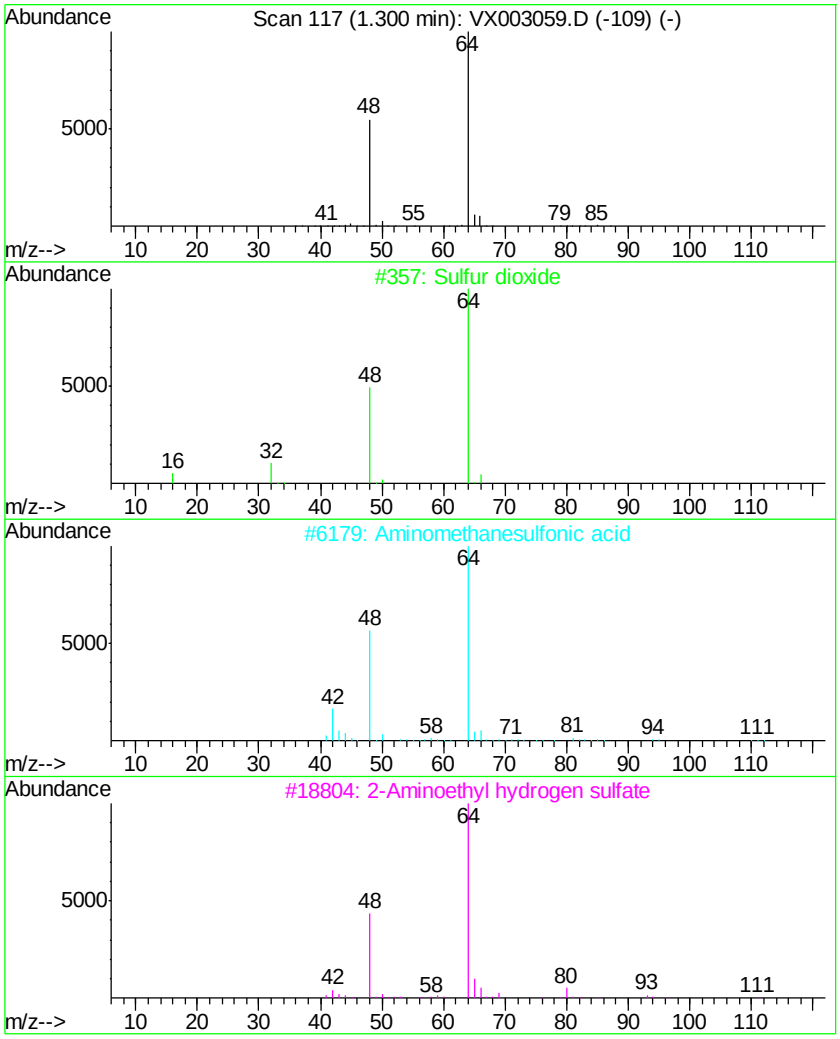
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

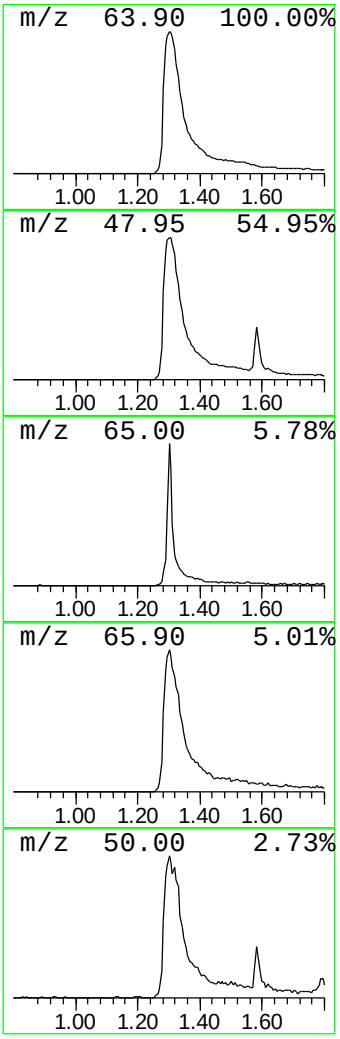
****

Peak Number 2 Sulfur dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.30	99.00 ug/l	2063160	Pentafluorobenzene	5.67

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	74
3	2-Aminoethyl hydrogen sulfate	141	C2H7NO4S	000926-39-6	64
4	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	4





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Data File : VX003059.D
Acq On : 30 Jun 2018 05:09
Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

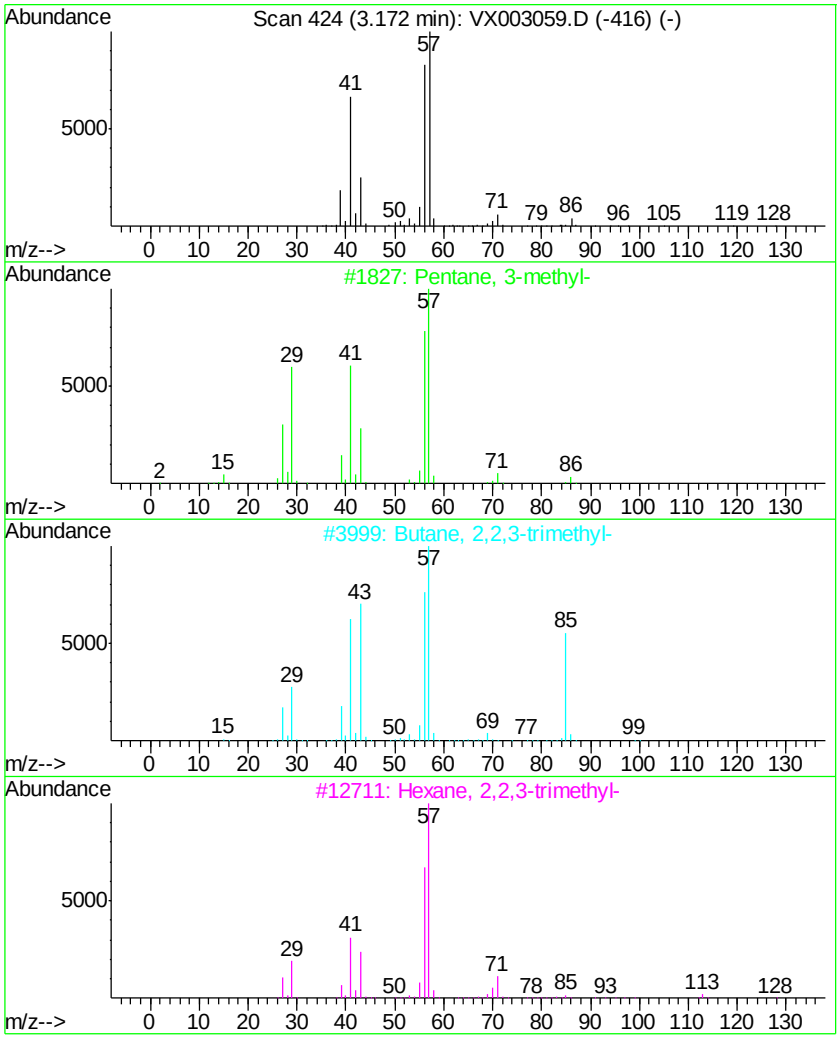
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

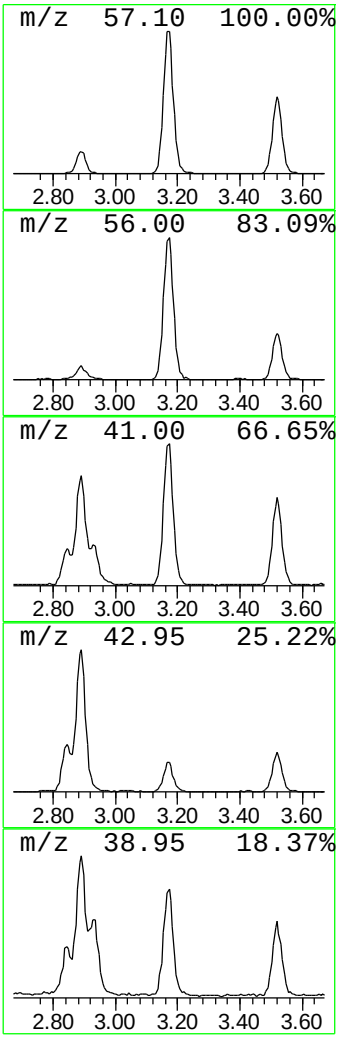
****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.17	16.72 ug/l	348440	Pentafluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	78
3	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	64
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	56
5	3,4-Dimethyldihydrofuran-2,5-dione	128	C6H8O3	007475-92-5	50





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Operator : JC/MD
Sample : J3675-02
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ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

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

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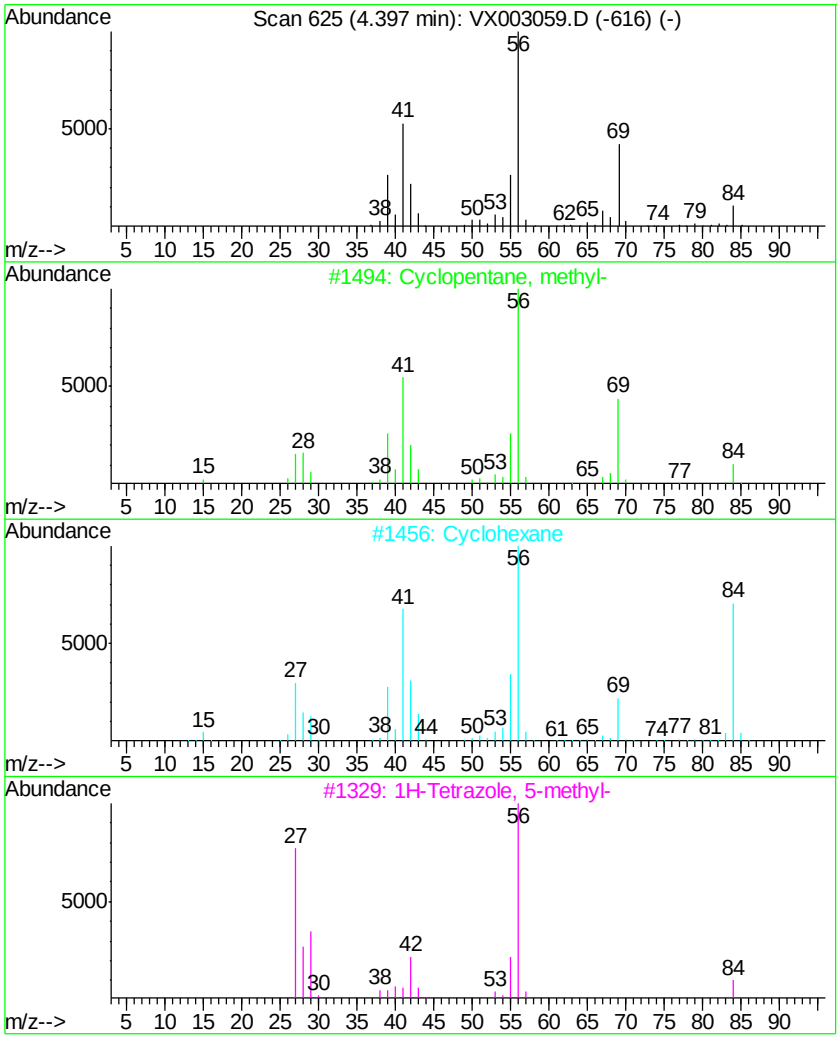
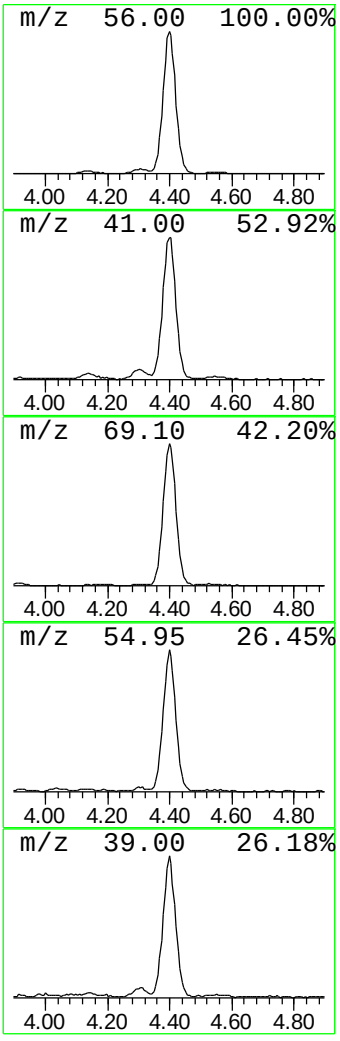
Peak Number 4 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.40	26.75 ug/l	557409	Pentafluorobenzene	5.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclohexane	84	C6H12	000110-82-7	86
3	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64
4	Cyclobutane	56	C4H8	000287-23-0	50
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	47





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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

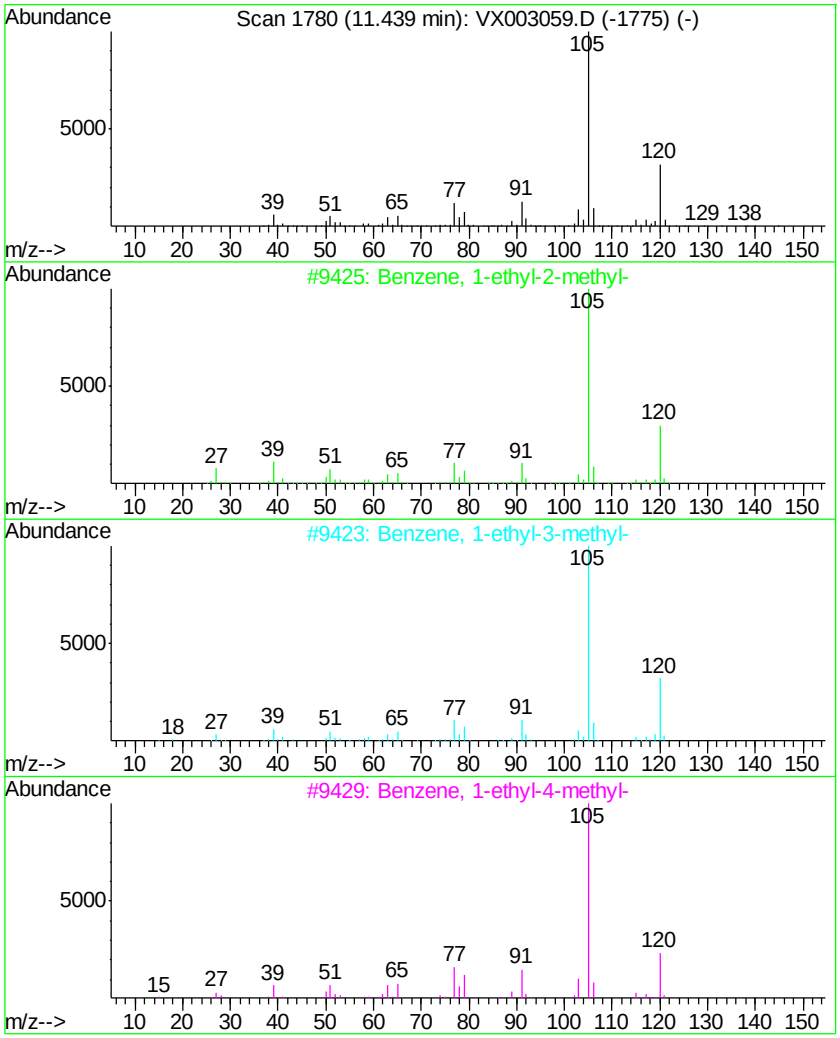
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

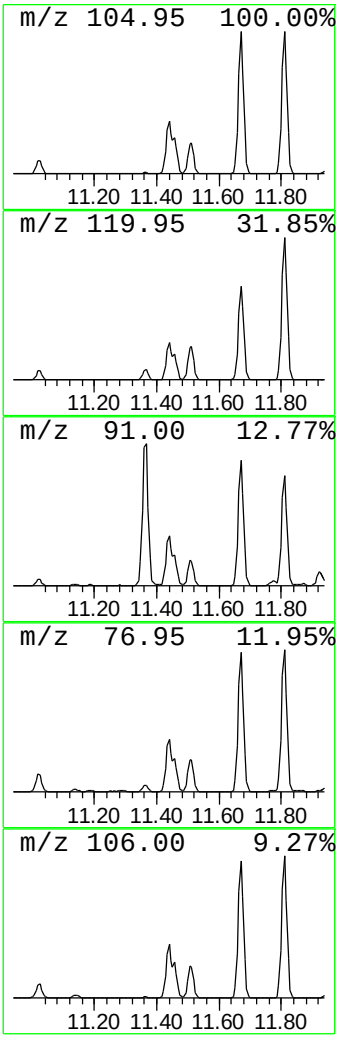
****

Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.44	29.23 ug/l	834684	1,4-Dichlorobenzene-d4	12.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Mesitylene	120	C9H12	000108-67-8	91





Library Search Compound Report

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Sample : J3675-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

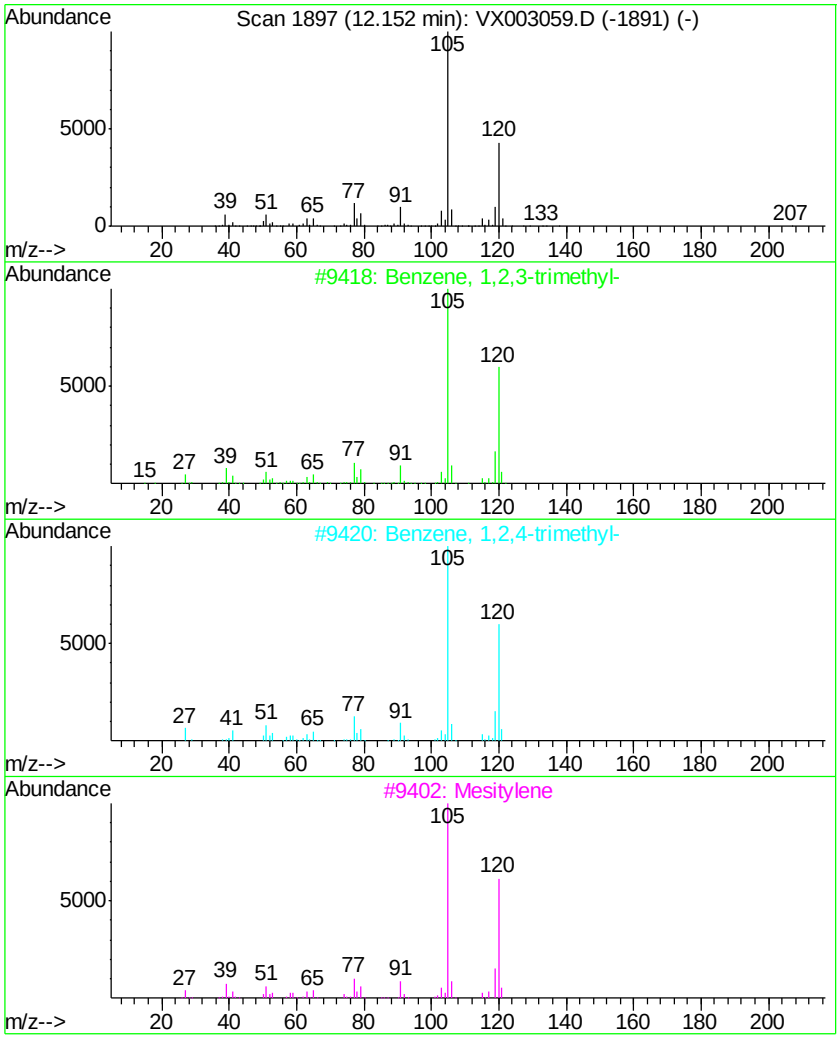
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

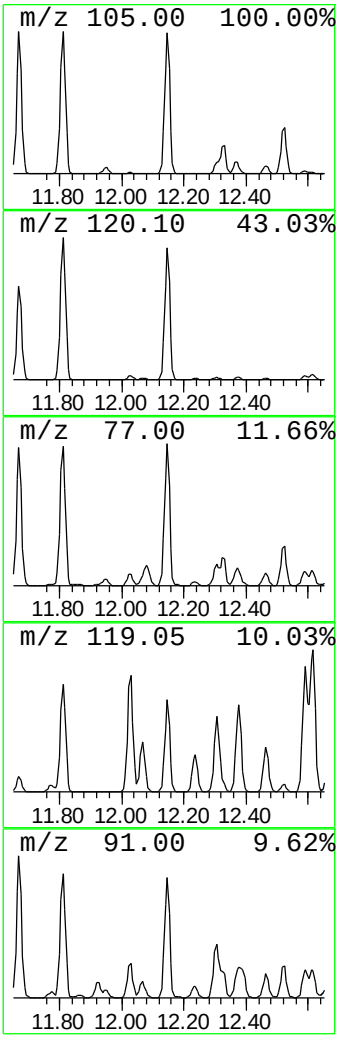
****

Peak Number 7 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	51.10 ug/l	1459400	1,4-Dichlorobenzene-d4	12.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Mesitylene	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX062918\
Data File : VX003059.D
Acq On : 30 Jun 2018 05:09
Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

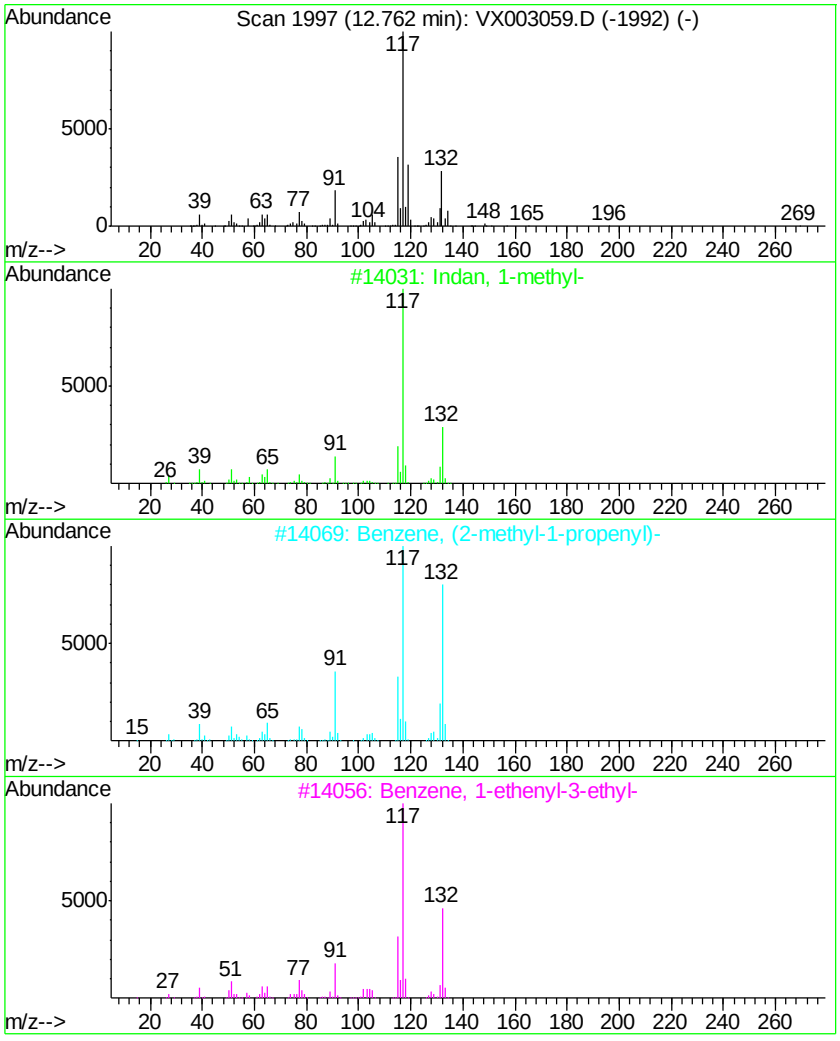
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

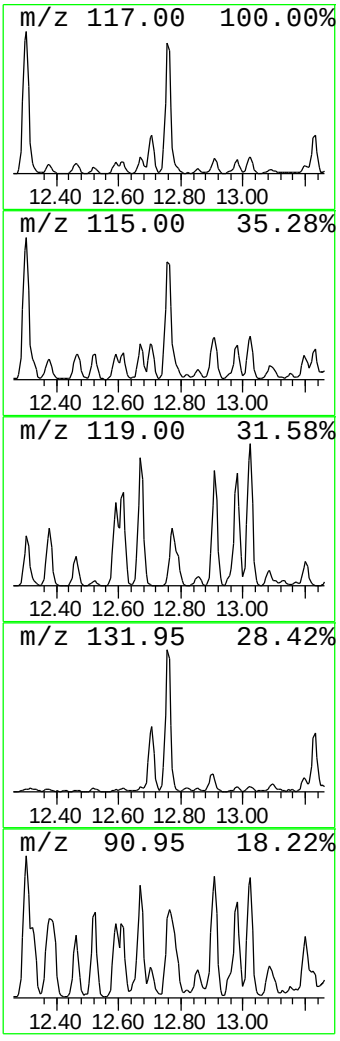
****

Peak Number 9 Indan, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.76	16.65 ug/l	475605	1,4-Dichlorobenzene-d4	12.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83
5	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	80





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX062918\
Data File : VX003059.D
Acq On : 30 Jun 2018 05:09
Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

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

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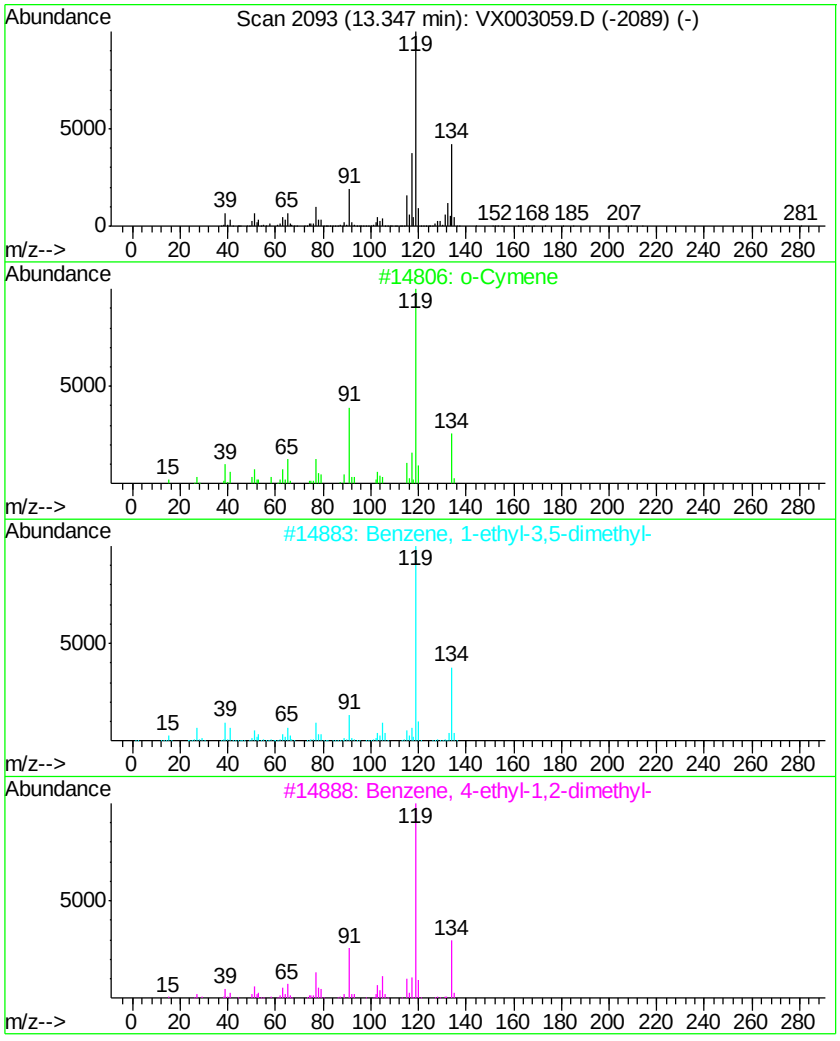
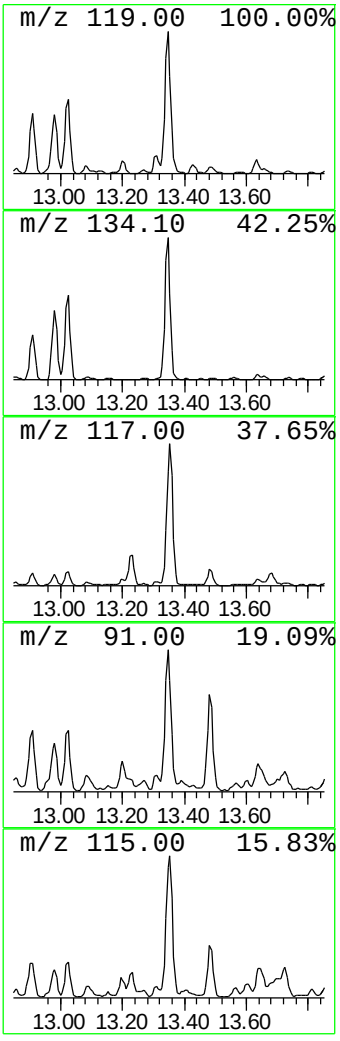
Peak Number 10 o-Cymene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	34.67 ug/l	990039	1,4-Dichlorobenzene-d4	12.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	81
2	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	81
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	76
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	76
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX062918\
Data File : VX003059.D
Acq On : 30 Jun 2018 05:09
Operator : JC/MD
Sample : J3675-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : S81-0098

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260

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	1.30	99.0	ug/l	2063160	1	5.67	1042050	50.0
Pentane, 3-methyl-	3.17	16.7	ug/l	348440	1	5.67	1042050	50.0
Cyclopentane, met...	4.40	26.8	ug/l	557409	1	5.67	1042050	50.0
Benzene, 1-ethyl-...	11.44	29.2	ug/l	834684	4	12.08	1427870	50.0
Benzene, 1,2,3-tr...	12.15	51.1	ug/l	1459400	4	12.08	1427870	50.0
Indan, 1-methyl-	12.76	16.6	ug/l	475605	4	12.08	1427870	50.0
o-Cymene	13.35	34.7	ug/l	990039	4	12.08	1427870	50.0