LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : EXET5DL

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\SFAMULM042522WMA.M
Title : VOC Analysis

Signal : TIC: VU048344.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.356	3	5	25	rVB	4215689	3952902	33.40%	10.840%
2	1.433	25	29	35	rVB2	8203	7858	0.07%	0.022%
3	1.472	35	41	52	rBV3	45665	61860	0.52%	0.170%
4	1.600	73	81	100	rBV	166274	225597	1.91%	0.619%
5	1.893	164	172	190	rVB	123651	188197	1.59%	0.516%
6	2.510	348	364	370	rBV4	17164	31271	0.26%	0.086%
7	2.565	370	381	393	rVV	311245	510900	4.32%	1.401%
8	2.629	394	401	408	rVV	12696	22806	0.19%	0.063%
9	2.671	410	414	427	rVB3	10893	15464	0.13%	0.042%
10	2.729	427	432	436	rBV3	552	613	0.01%	0.002%
11	2.787	444	450	454	rBV2	1122	1558	0.01%	0.004%
12	3.047	515	531	551	rBV5	8548	20914	0.18%	0.057%
13	3.131	553	557	558	rBV3	603	434	0.00%	0.001%
14	3.186	564	574	582	rBV2	6824	13734	0.12%	0.038%
15	3.443	645	654	664	rBV3	1886	3738	0.03%	0.010%
16	3.671	721	725	732	rVB2	276	401	0.00%	0.001%
17	3.867	773	786	801	rVV3	3255	7342	0.06%	0.020%
18	4.620	1006	1020	1044	rBV	179563	440249	3.72%	1.207%
19	5.063	1138	1158	1184	rBV	290328	633470	5.35%	1.737%
20	5.288	1225	1228	1234	rVB2	450	473	0.00%	0.001%
21	5.353	1235	1248	1249	rBV4	1352	1806	0.02%	0.005%
22	5.726	1342	1364	1371	rBV2	595962	1586849	13.41%	4.351%
23	5.774	1372	1379	1405	rVB	838278	1639299	13.85%	4.495%
24	5.964	1435	1438	1440	rBV4	1148	873	0.01%	0.002%
25	6.153	1494	1497	1503	rVB5	579	509	0.00%	0.001%
26	6.250	1511	1527	1548	rBV	361811	685008	5.79%	1.878%
27	6.513	1589	1609	1626	rBV2	52420	112700	0.95%	0.309%
28	6.584	1626	1631	1633	rBV2	541	459	0.00%	0.001%
29	6.597	1633	1635	1648	rVB4	819	843	0.01%	0.002%
30	6.690	1650	1664	1678	rBV	368281	717430	6.06%	1.967%
31	6.774	1679	1690	1709	rVB3	57116	124968	1.06%	0.343%
32	6.854	1709	1715	1721	rVB4	676	741	0.01%	0.002%
33	6.996	1743	1759	1784	rBV	255834	487938	4.12%	1.338%
34	7.179	1802	1816	1822	rBV5	3788	8411	0.07%	0.023%
35	7.298	1844	1853	1863	rBV6	3223	5899	0.05%	0.016%
36	7.343	1863	1867	1875	rVB5	1617	2079	0.02%	0.006%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

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\SFAMULM042522WMA.M
Title : VOC Analysis

37	7.488	1898	1912	1925	rBV	612686	1106645	9.35%	3.035%
38	7.565	1926	1936	1954	rVB	223954	387665	3.28%	1.063%
39	7.796	1998	2008	2016	rBV3	3117	5304	0.04%	0.015%
40	7.896	2025	2039	2053	rBV	755307	1316470	11.12%	3.610%
41	7.980	2053	2065	2083	rVB	794054	1392105	11.76%	3.817%
42	8.179	2115	2127	2144	rBV	150204	245024	2.07%	0.672%
43	8.356	2171	2182	2204	rVB2	63960	117721	0.99%	0.323%
44	8.513	2224	2231	2232	rBV3	2366	1830	0.02%	0.005%
45	8.578	2235	2251	2262	rVV	7082397	11836464	100.00%	32.458%
46	8.636	2262	2269	2297	rVB	630723	1147160	9.69%	3.146%
47	8.918	2351	2357	2358	rBV3	1060	869	0.01%	0.002%
48	9.018	2377	2388	2397	rBV4	8508	14296	0.12%	0.039%
49	9.172	2425	2436	2448	rBV2	19371	35742	0.30%	0.098%
50	9.275	2465	2468	2474	rVB3	393	402	0.00%	0.001%
51	9.317	2474	2481	2485	rBV2	680	1038	0.01%	0.003%
52	9.362	2486	2495	2501	rBV3	23685	36863	0.31%	0.101%
53	9.417	2501	2512	2518	rBV	539253	930412	7.86%	2.551%
54	9.578	2549	2562	2571	rVB6	10610	20572	0.17%	0.056%
55	9.629	2571	2578	2593	rVV4	9576	15779	0.13%	0.043%
56	9.693	2593	2598	2606	rVB3	1638	2270	0.02%	0.006%
57	9.844	2633	2645	2649	rBV6	2999	5923	0.05%	0.016%
58	9.938	2662	2674	2690	rBV	67607	111093	0.94%	0.305%
59	10.115	2719	2729	2737	rVB8	1610	2893	0.02%	0.008%
60	10.253	2764	2772	2778	rBV3	2534	3472	0.03%	0.010%
61	10.488	2838	2845	2849	rVB2	552	599	0.01%	0.002%
62	10.648	2885	2895	2910	rBV3	29305	51042	0.43%	0.140%
63	10.758	2916	2929	2959	rVB2	655895	1309649	11.06%	3.591%
64	10.925	2977	2981	2986	rBV6	1518	2041	0.02%	0.006%
65	10.970	2987	2995	3009	rVB2	33406	54165	0.46%	0.149%
66	11.121	3037	3042	3045	rBV3	749	648	0.01%	0.002%
67	11.195	3057	3065	3071	rBV4	1509	2442	0.02%	0.007%
68	11.250	3071	3082	3096	rVV2	30015	49042	0.41%	0.134%
69	11.378	3112	3122	3132	rVV7	5100	8061	0.07%	0.022%
70	11.462	3138	3148	3155	rBV7	3643	5802	0.05%	0.016%
71	11.510	3157	3163	3178	rVB3	8797	13150	0.11%	0.036%
72	11.587	3178	3187	3195	rBV10	3136	4721	0.04%	0.013%
73	11.696	3214	3221	3226	rBV5	1306	2071	0.02%	0.006%
74	11.748	3226	3237	3246	rVV2	57717	102220	0.86%	0.280%
75	11.812	3246	3257	3270	rVV	638895	997180	8.42%	2.734%
76	11.880	3270	3278	3292	rVV3	37316	65772	0.56%	0.180%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

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\SFAMULM042522WMA.M
Title : VOC Analysis

77	11.951	3293	3300	3314	rVV9	7076	13240	0.11%	0.036%
78	12.018	3315	3321	3332	rVB4	4326	6193	0.05%	0.017%
79	12.086	3338	3342	3343	rBV3	596	421	0.00%	0.001%
80	12.195	3359	3376	3395	rBV	833893	1501297	12.68%	4.117%
81	12.330	3414	3418	3424	rVB2	1441	1219	0.01%	0.003%
82	12.471	3453	3462	3478	rVB3	24964	38544	0.33%	0.106%
83	12.706	3525	3535	3546	rBV2	32099	48912	0.41%	0.134%
84	12.770	3549	3555	3568	rVB3	3144	5443	0.05%	0.015%
85	12.877	3583	3588	3591	rBV4	1627	1815	0.02%	0.005%
86	12.909	3591	3598	3606	rVV2	11173	16634	0.14%	0.046%
87	12.970	3606	3617	3629	rVB	150059	241864	2.04%	0.663%
88	13.217	3686	3694	3702	rVB6	2607	3363	0.03%	0.009%
89	13.330	3718	3729	3734	rBV2	25713	40322	0.34%	0.111%
90	13.375	3734	3743	3760	rVB	344635	515212	4.35%	1.413%
91	13.709	3843	3847	3848	rBV3	1074	689	0.01%	0.002%
92	13.777	3859	3868	3874	rBV7	5031	8393	0.07%	0.023%
93	13.841	3885	3888	3892	rBV4	676	613	0.01%	0.002%
94	14.208	4000	4002	4012	rVB6	624	878	0.01%	0.002%
95	14.359	4045	4049	4057	rVB4	2760	3333	0.03%	0.009%
96	14.430	4061	4071	4080	rBV2	60830	93968	0.79%	0.258%
97	14.494	4080	4091	4111	rBV	263432	442522	3.74%	1.213%
98	14.954	4226	4234	4247	rBV8	8174	16820	0.14%	0.046%
99	15.545	4406	4418	4431	rBV	332255	518227	4.38%	1.421%
100	16.388	4674	4680	4689	rBV4	17923	25055	0.21%	0.069%

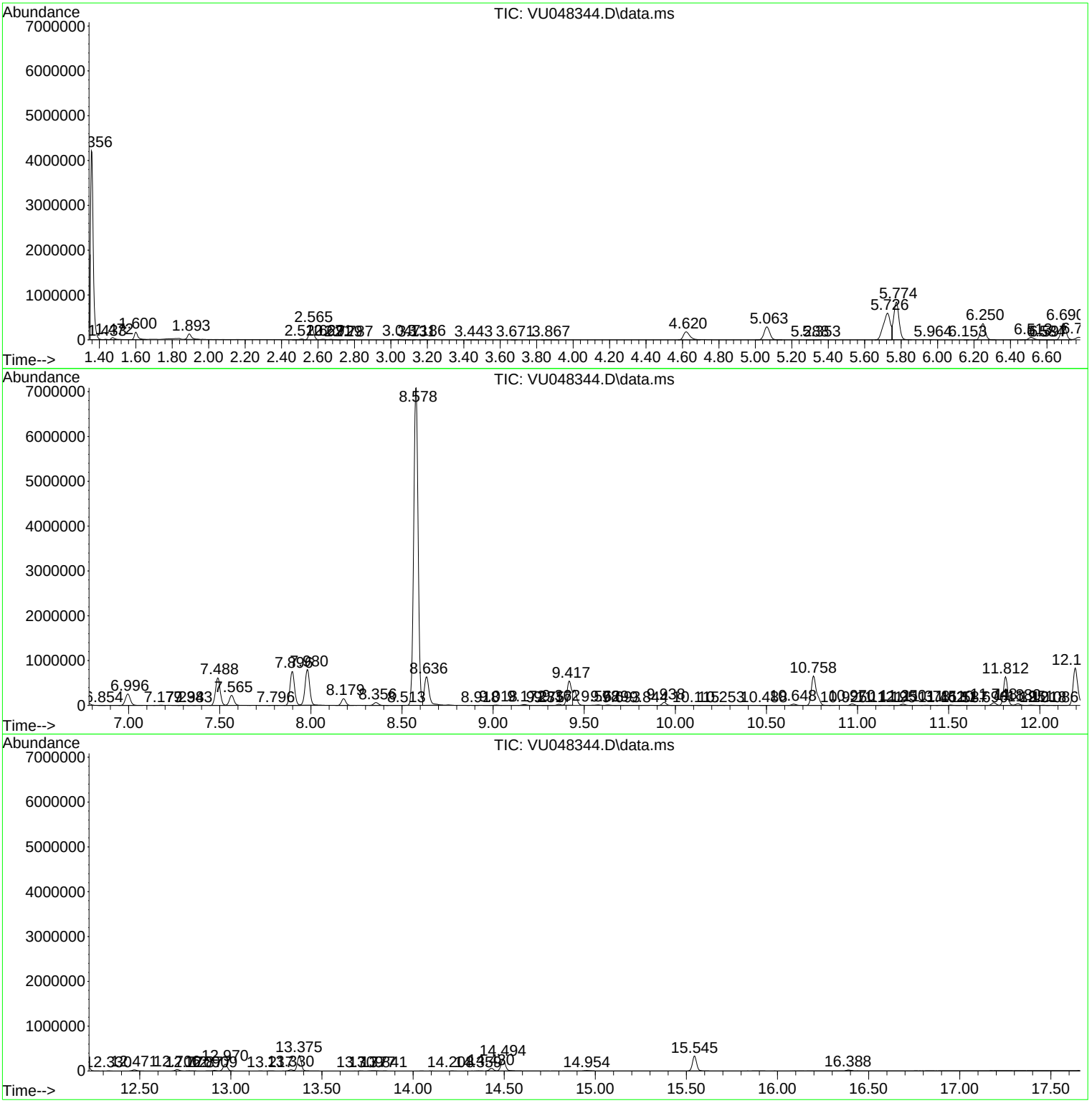
Sum of corrected areas: 36467187

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

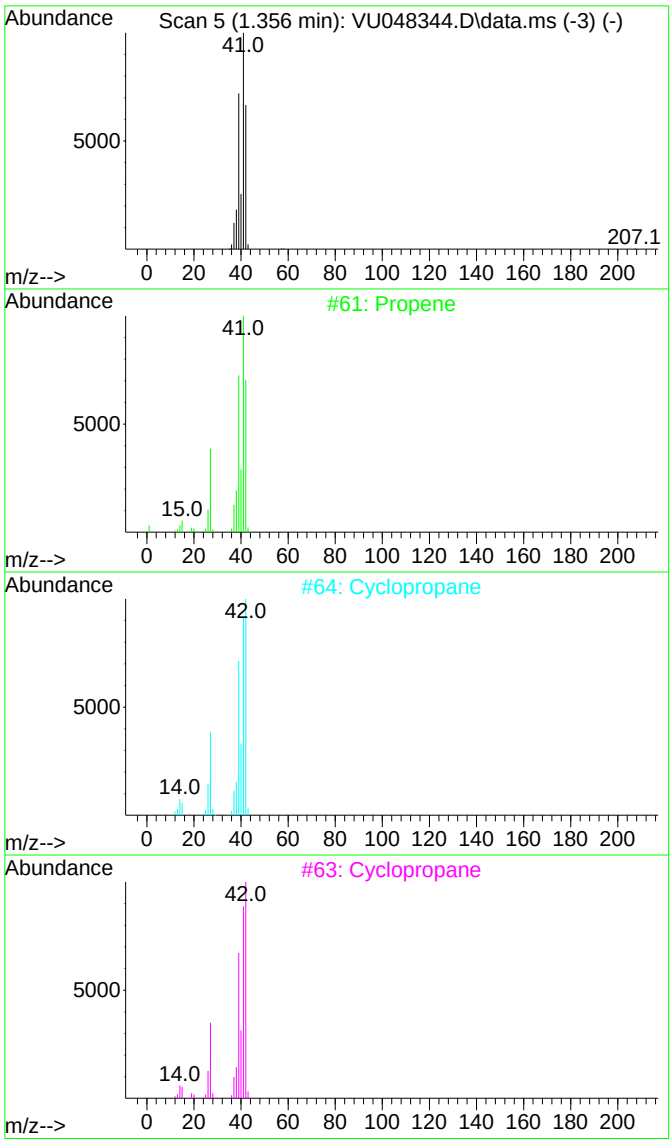
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

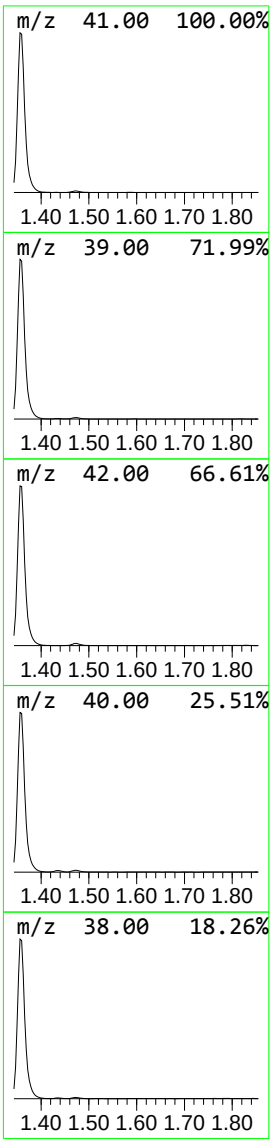
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.356	288.53 ug/L	3952900	1,4-Difluorobenzene	6.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Cyclopropane	42	C3H6	000075-19-4	86
3	Cyclopropane	42	C3H6	000075-19-4	78
4	Propene	42	C3H6	000115-07-1	47
5	Cyclopropene	40	C3H4	002781-85-3	16





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

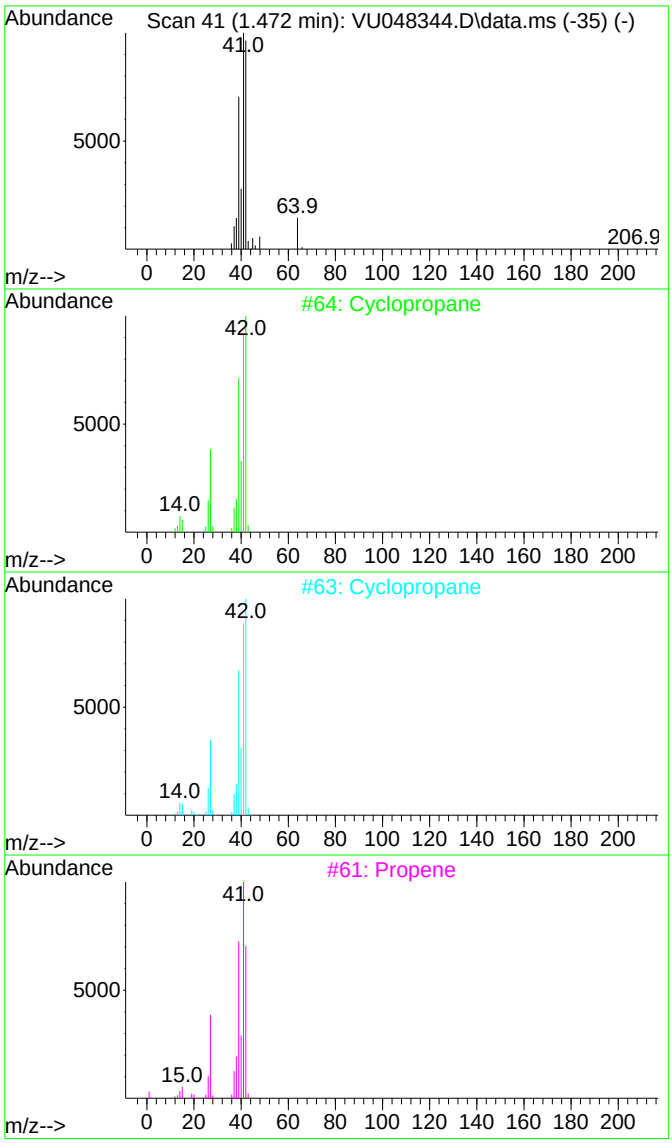
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

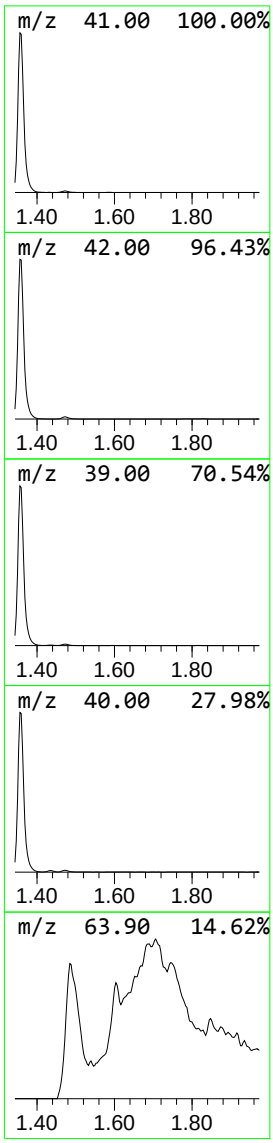
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Cyclic1.472 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.472	4.52 ug/L	61860	1,4-Difluorobenzene	6.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane	42	C3H6	000075-19-4	80
2	Cyclopropane	42	C3H6	000075-19-4	80
3	Propene	42	C3H6	000115-07-1	72
4	N-Acrylonitrylaziridine	94	C5H6N2	002407-61-6	59
5	Cyclopropanecarboxaldehyde	70	C4H6O	001489-69-6	56





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

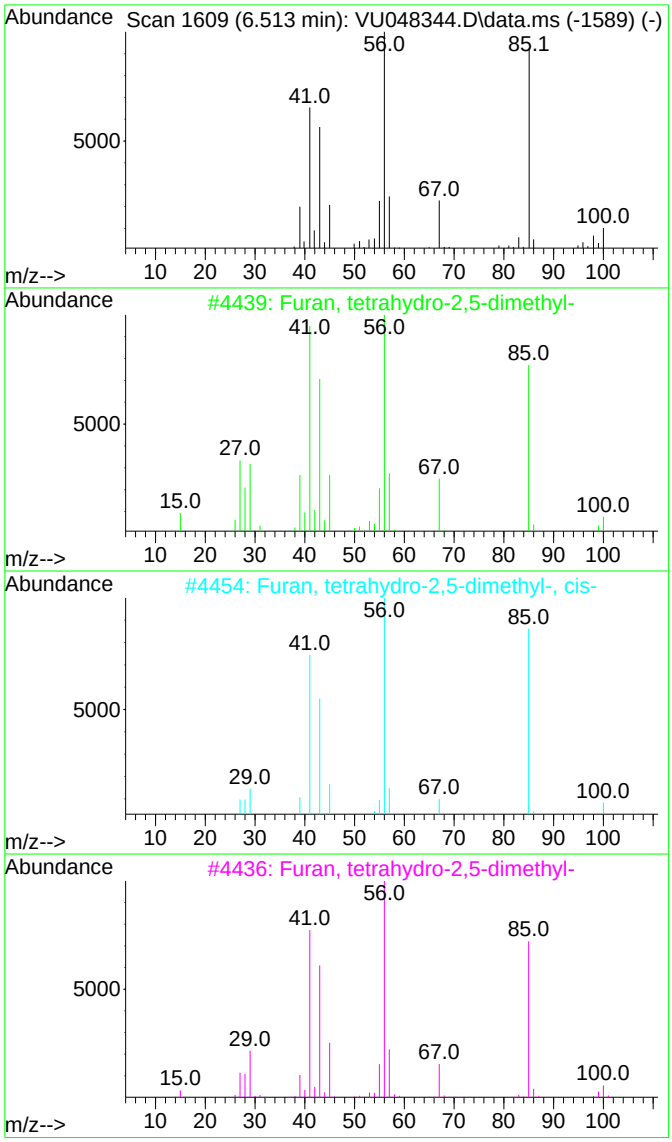
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

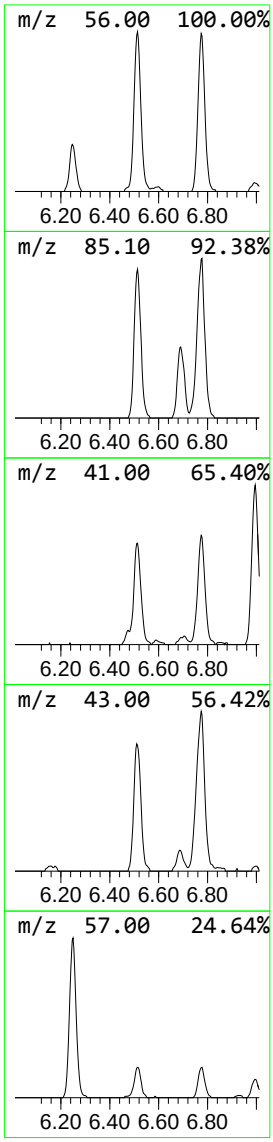
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Furan, tetrahydro-2,5-dimet... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.513	8.23 ug/L	112700	1,4-Difluorobenzene	6.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-2,5-dimethyl-	100	C6H12O	001003-38-9	91
2	Furan, tetrahydro-2,5-dimethyl-,...	100	C6H12O	002144-41-4	83
3	Furan, tetrahydro-2,5-dimethyl-	100	C6H12O	001003-38-9	72
4	2(3H)-Furanone, dihydro-5-methyl-	100	C5H8O2	000108-29-2	64
5	Furan, tetrahydro-2,5-dimethyl-,...	100	C6H12O	038484-59-2	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

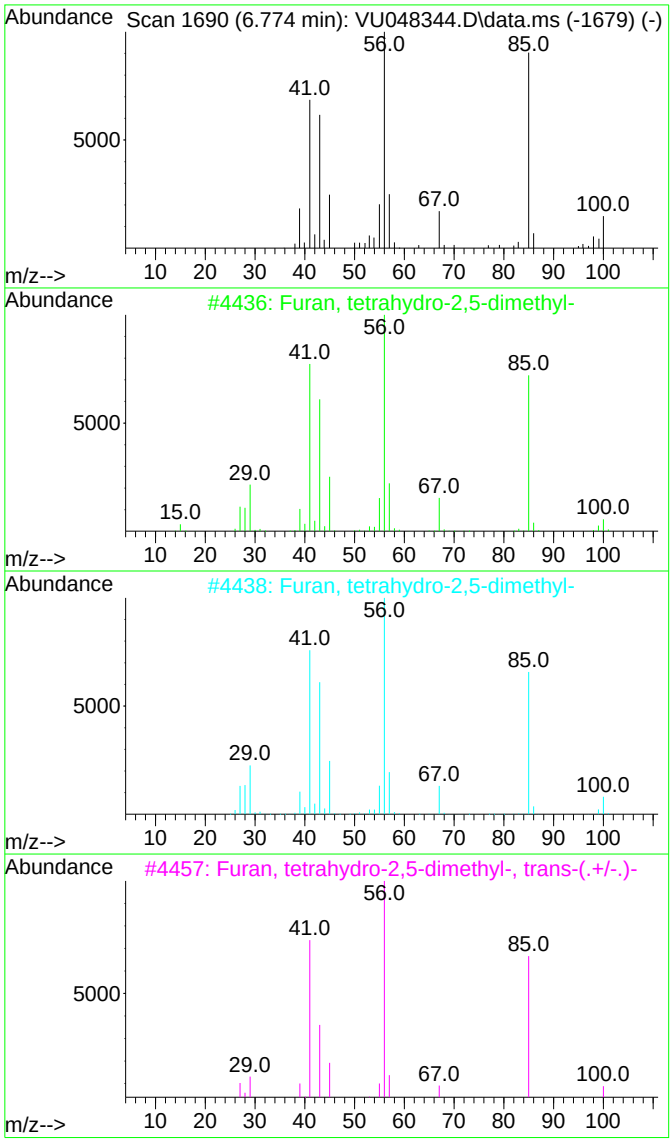
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

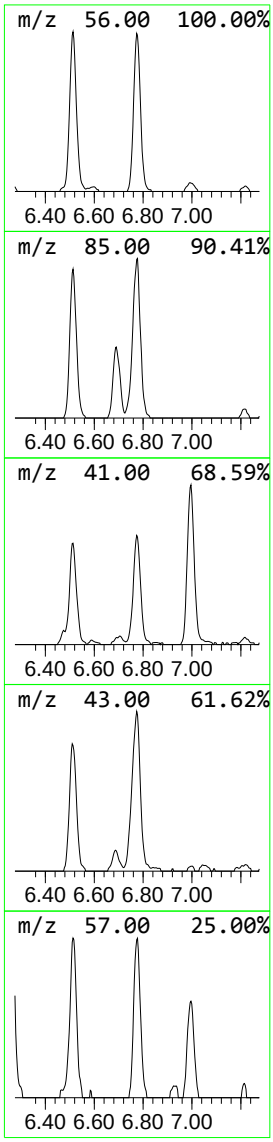
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Furan, tetrahydro-2,5-dimet... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.774	9.12 ug/L	124968	1,4-Difluorobenzene	6.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-2,5-dimethyl-	100	C6H12O	001003-38-9	91
2	Furan, tetrahydro-2,5-dimethyl-	100	C6H12O	001003-38-9	91
3	Furan, tetrahydro-2,5-dimethyl-,...	100	C6H12O	038484-59-2	86
4	Furan, tetrahydro-2,5-dimethyl-,...	100	C6H12O	002144-41-4	86
5	Furan, tetrahydro-2,5-dimethyl-	100	C6H12O	001003-38-9	86





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

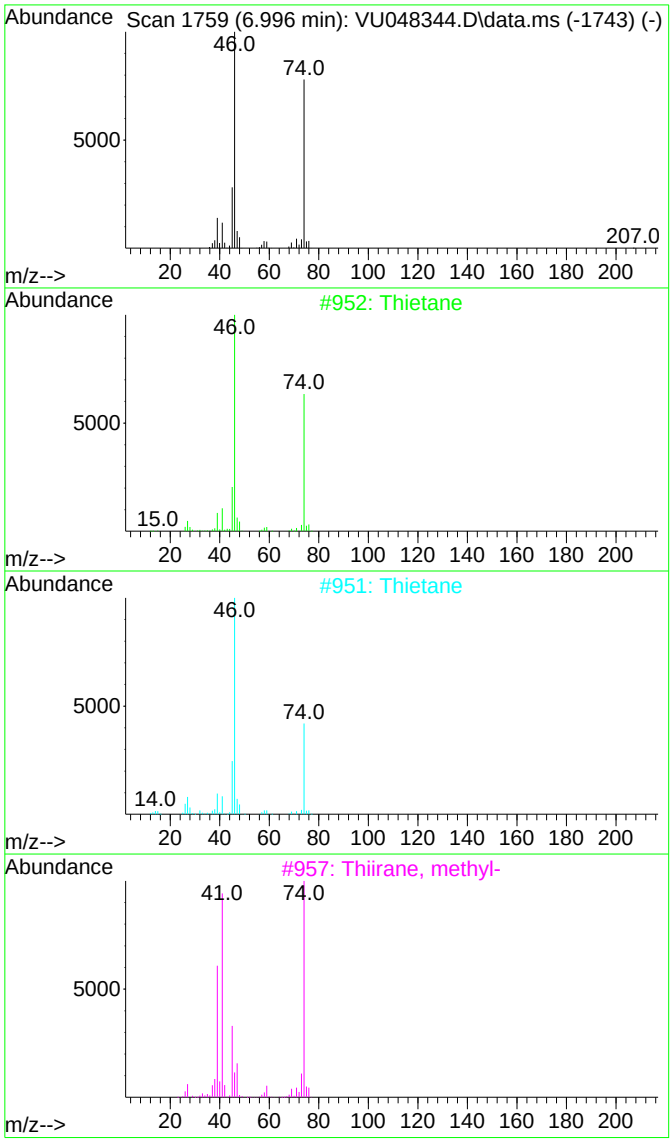
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

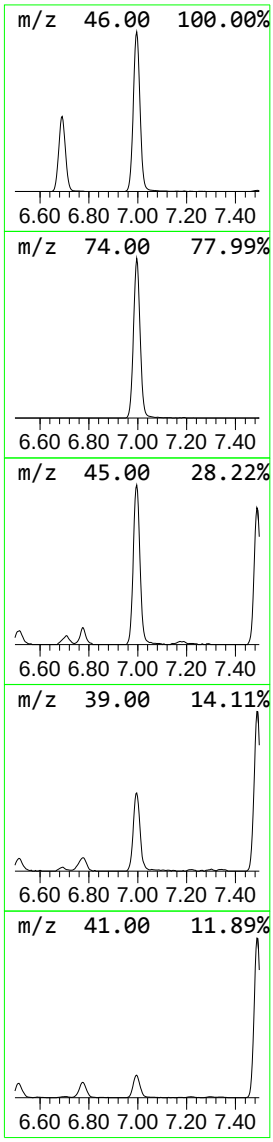
****

Peak Number 5 Thietane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.996	35.62 ug/L	487938	1,4-Difluorobenzene	6.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thietane	74	C3H6S	000287-27-4	91
2	Thietane	74	C3H6S	000287-27-4	90
3	Thiirane, methyl-	74	C3H6S	001072-43-1	25
4	Allyl mercaptan	74	C3H6S	000870-23-5	25
5	Thiirane, methyl-	74	C3H6S	001072-43-1	9





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Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

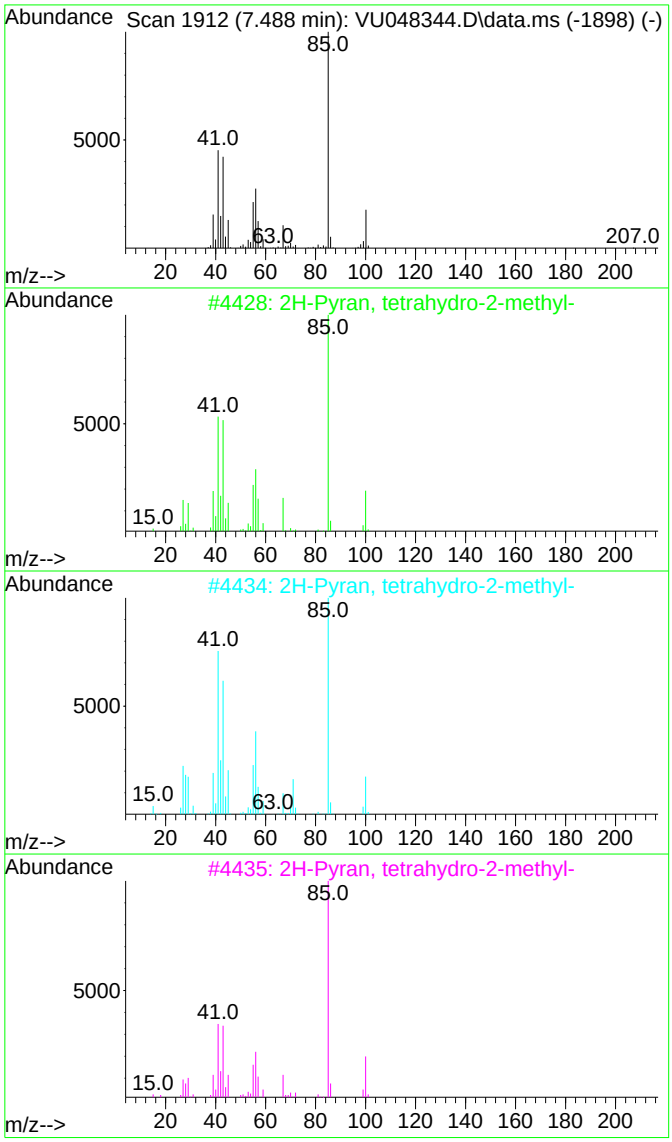
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

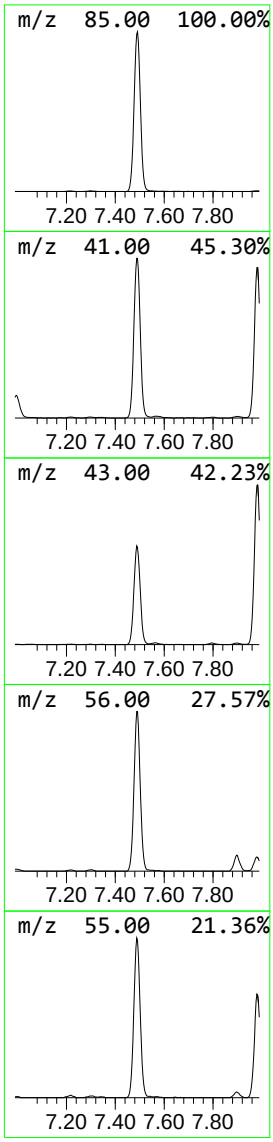
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 2H-Pyran, tetrahydro-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.488	80.78 ug/L	1106650	1,4-Difluorobenzene	6.250

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	93
2	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	91
3	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	90
4	Furan, tetrahydro-2,4-dimethyl-,...	100	C6H12O	039168-01-9	64
5	Oxetane, 2-ethyl-3-methyl-	100	C6H12O	053778-62-4	56





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Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

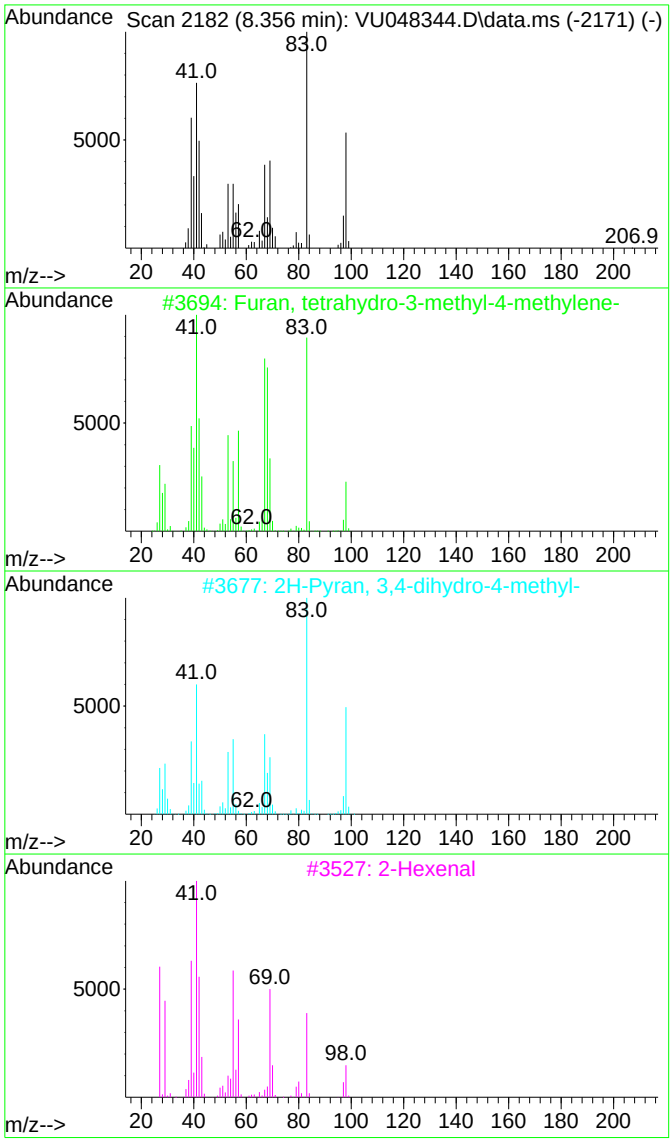
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

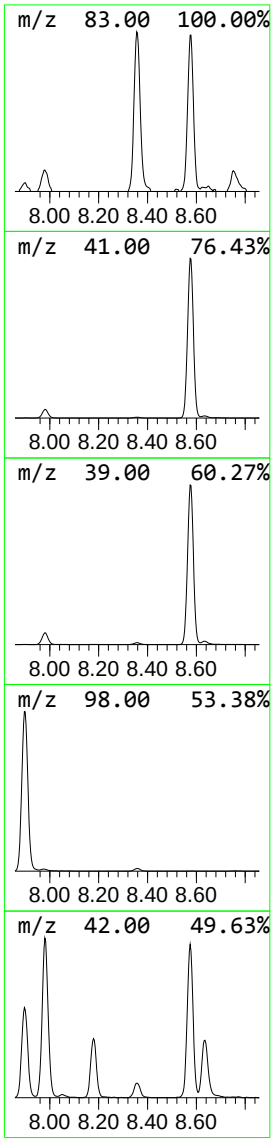
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Furan, tetrahydro-3-methyl-... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.356	6.33 ug/L	117721	Chlorobenzene-d5	9.417

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-3-methyl-4-met...	98	C6H10O	061142-01-6	90
2	2H-Pyran, 3,4-dihydro-4-methyl-	98	C6H10O	002270-61-3	64
3	2-Hexenal	98	C6H10O	000505-57-7	53
4	2-Hexenal, (E)-	98	C6H10O	006728-26-3	53
5	4,4-Dimethyl-2-imidazoline	98	C5H10N2	002305-59-1	52





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Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

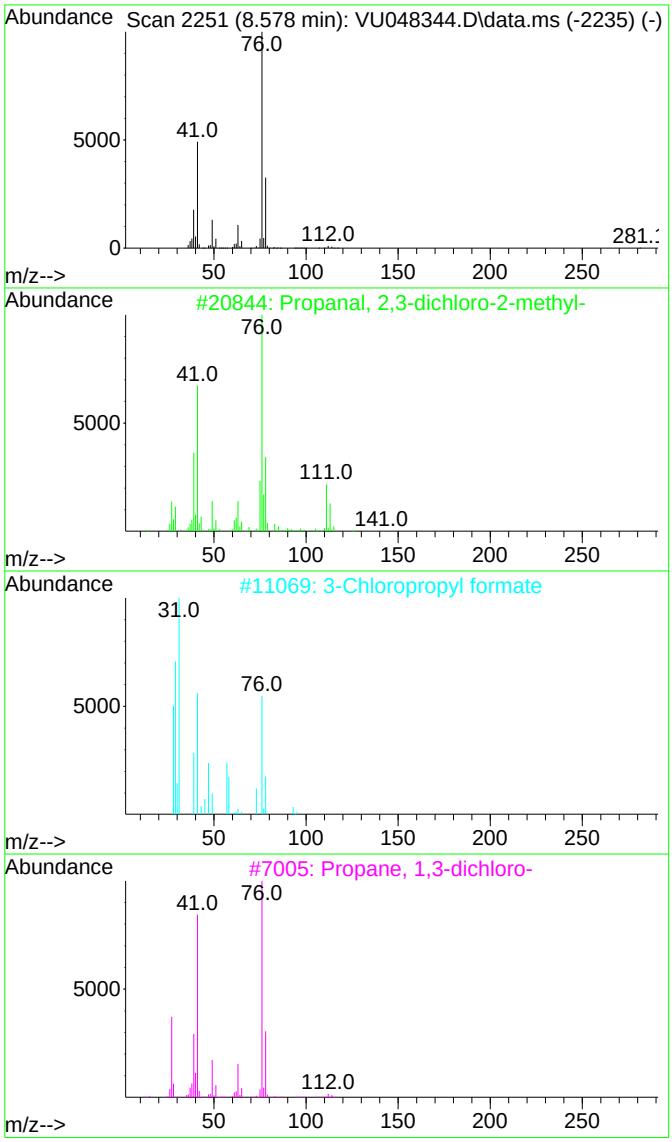
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

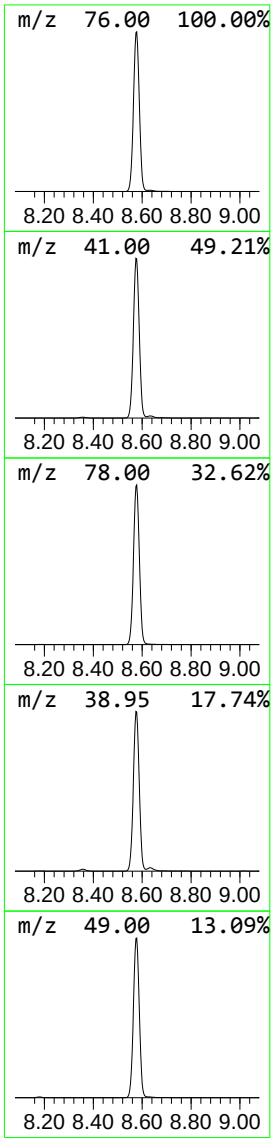
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Propanal, 2,3-dichloro-2-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.578	636.09 ug/L	11836500	Chlorobenzene-d5	9.417

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 2,3-dichloro-2-methyl-	140	C4H6Cl2O	010141-22-7	74
2	3-Chloropropyl formate	122	C4H7ClO2	001487-44-1	43
3	Propane, 1,3-dichloro-	112	C3H6Cl2	000142-28-9	25
4	Propane, 1,3-dichloro-	112	C3H6Cl2	000142-28-9	15
5	Propane, 1,3-dichloro-	112	C3H6Cl2	000142-28-9	10





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Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

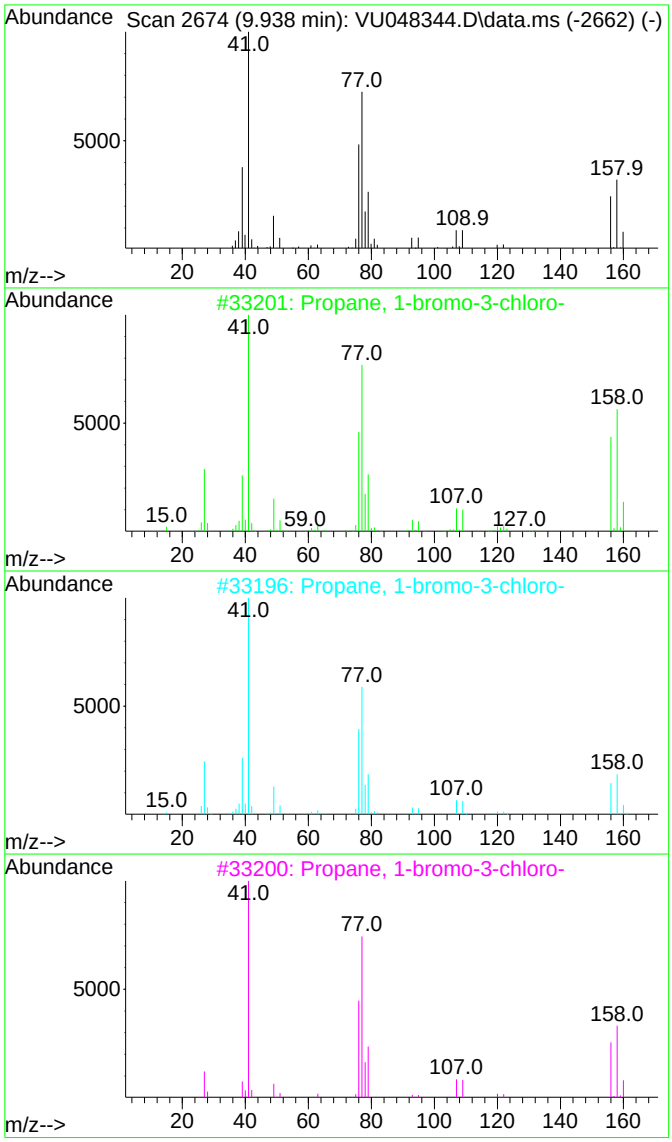
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

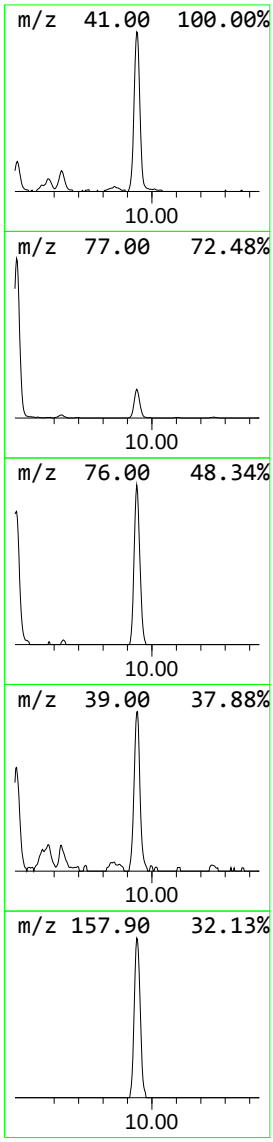
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Propane, 1-bromo-3-chloro- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.938	5.97 ug/L	111093	Chlorobenzene-d5	9.417

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1-bromo-3-chloro-	156	C3H6BrCl	000109-70-6	96
2	Propane, 1-bromo-3-chloro-	156	C3H6BrCl	000109-70-6	95
3	Propane, 1-bromo-3-chloro-	156	C3H6BrCl	000109-70-6	95
4	Propane, 1-bromo-3-chloro-	156	C3H6BrCl	000109-70-6	91
5	Propane, 2-bromo-1-chloro-	156	C3H6BrCl	003017-95-6	62





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

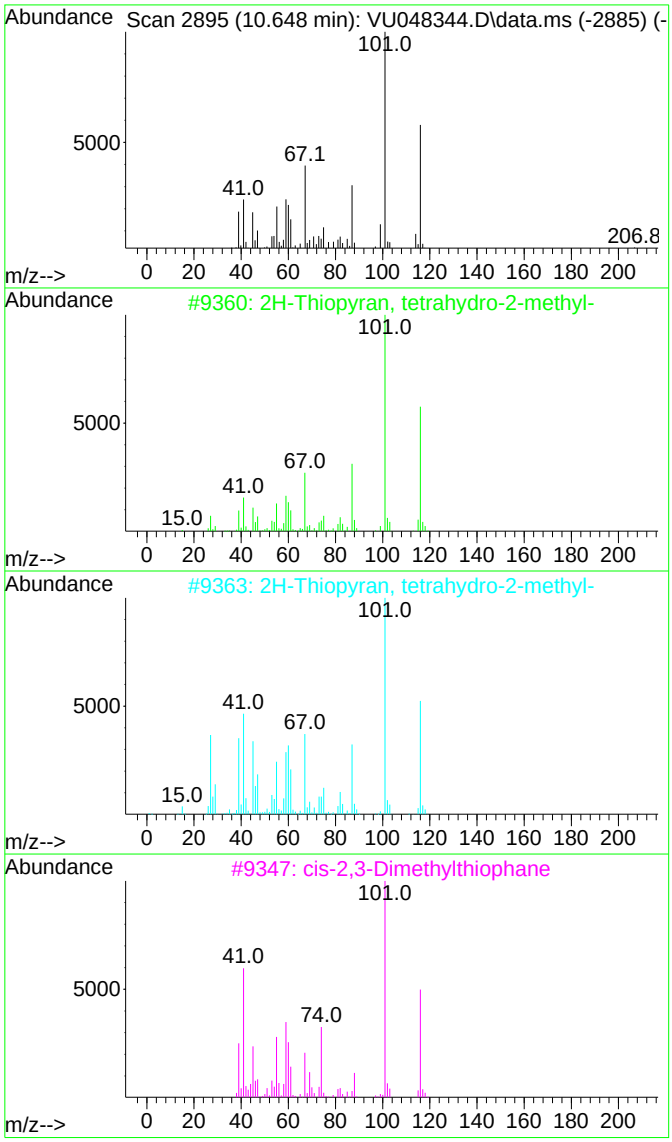
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

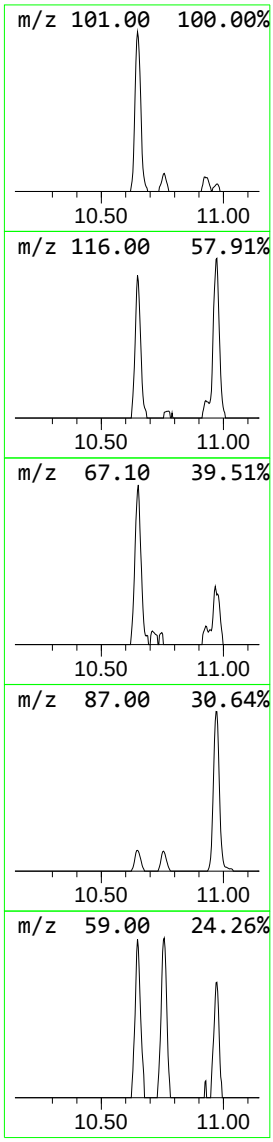
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 2H-Thiopyran, tetrahydro-2-... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.648	2.56 ug/L	51042	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Thiopyran, tetrahydro-2-methyl-	116	C6H12S	005161-16-0	96
2	2H-Thiopyran, tetrahydro-2-methyl-	116	C6H12S	005161-16-0	81
3	cis-2,3-Dimethylthiophane	116	C6H12S	005161-77-3	76
4	2H-Thiopyran, tetrahydro-3-methyl-	116	C6H12S	005258-50-4	72
5	cis-2,3-Dimethylthiophane	116	C6H12S	005161-77-3	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

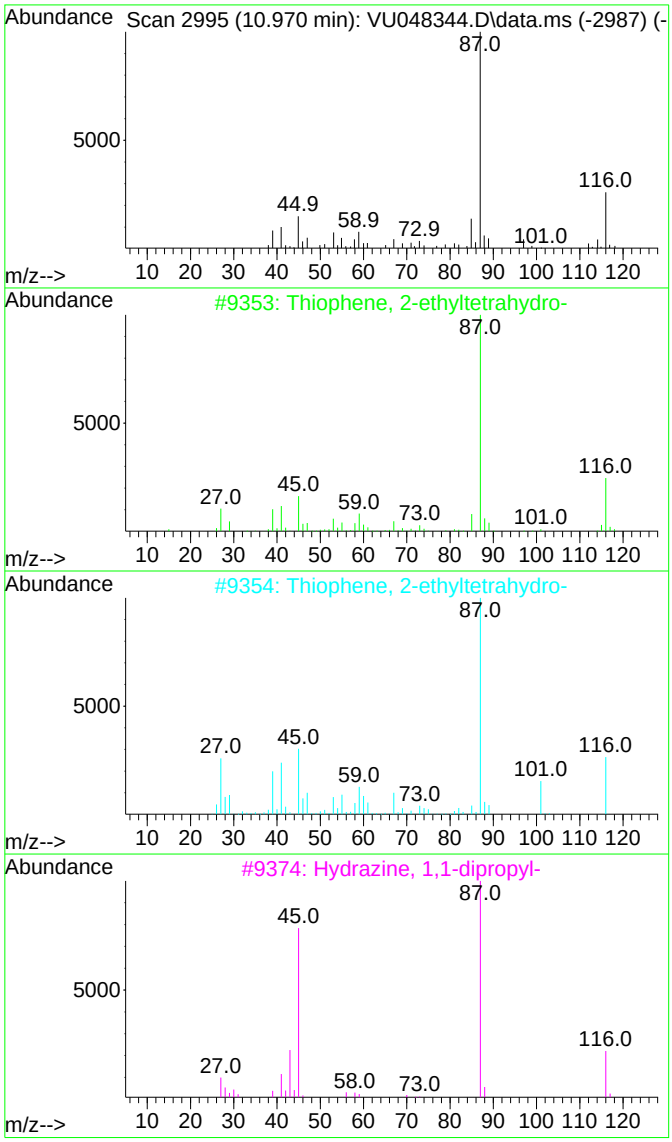
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

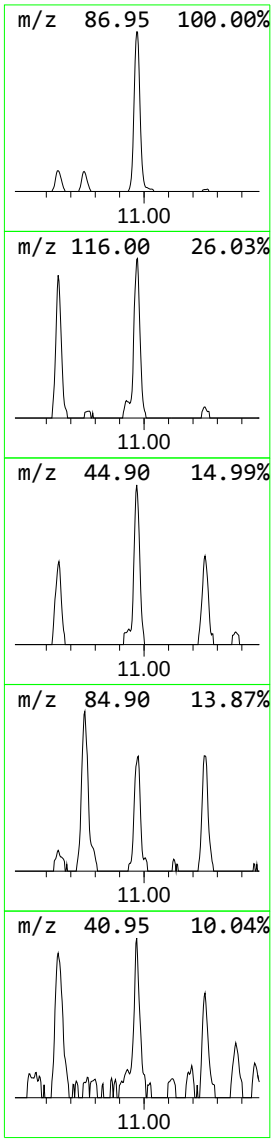
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Thiophene, 2-ethyltetrahydro- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.970	2.72 ug/L	54165	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, 2-ethyltetrahydro-	116	C6H12S	001551-32-2	94
2	Thiophene, 2-ethyltetrahydro-	116	C6H12S	001551-32-2	80
3	Hydrazine, 1,1-dipropyl-	116	C6H16N2	004986-50-9	59
4	Ethane, isothiocyanato-	87	C3H5NS	000542-85-8	52
5	Thiocyanic acid, ethyl ester	87	C3H5NS	000542-90-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

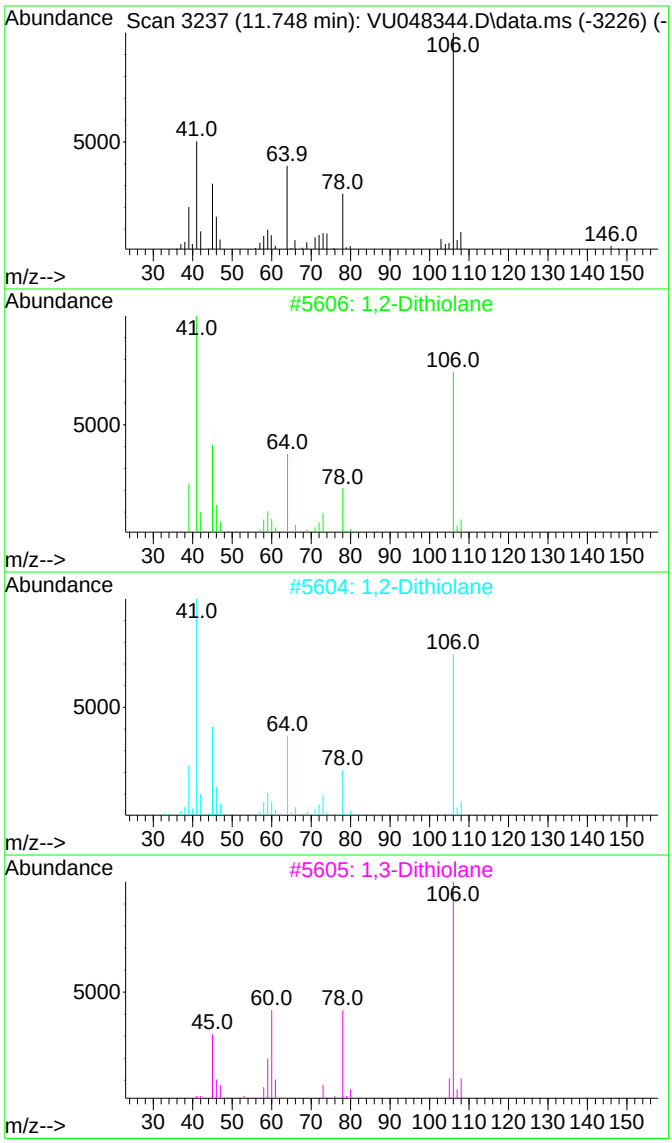
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

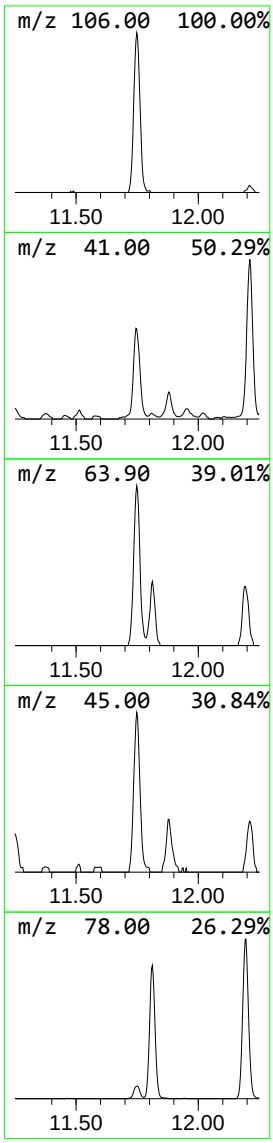
****

Peak Number 13 1,2-Dithiolane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.748	5.13 ug/L	102220	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Dithiolane	106	C3H6S2	000557-22-2	94
2	1,2-Dithiolane	106	C3H6S2	000557-22-2	94
3	1,3-Dithiolane	106	C3H6S2	004829-04-3	16
4	1,3-Dithiolane	106	C3H6S2	004829-04-3	16
5	[1,3]Dithian-2-one	134	C4H6OS2	035345-24-5	10





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

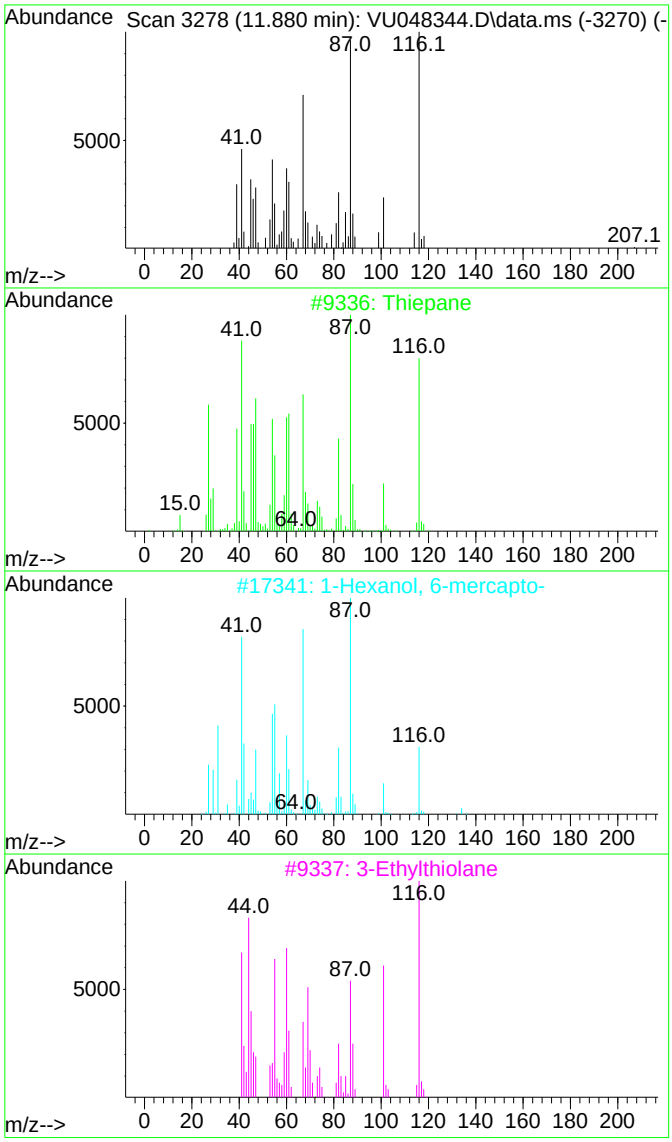
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

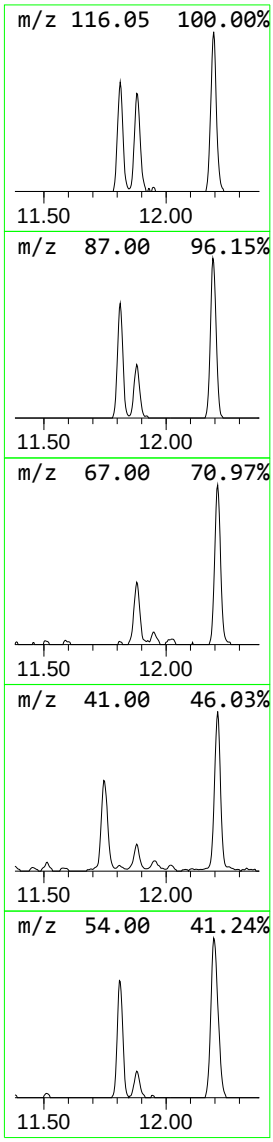
****

Peak Number 14 Thiepane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.880	3.30 ug/L	65772	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiepane	116	C6H12S	004753-80-4	72
2	1-Hexanol, 6-mercapto-	134	C6H14OS	001633-78-9	53
3	3-Ethylthiolane	116	C6H12S	062184-67-2	43
4	1-Propene, 1-(ethylthio)-2-methyl-	116	C6H12S	027482-14-0	38
5	Hydrazine, 1-ethyl-1-(1-methylpr...	116	C6H16N2	020325-97-7	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

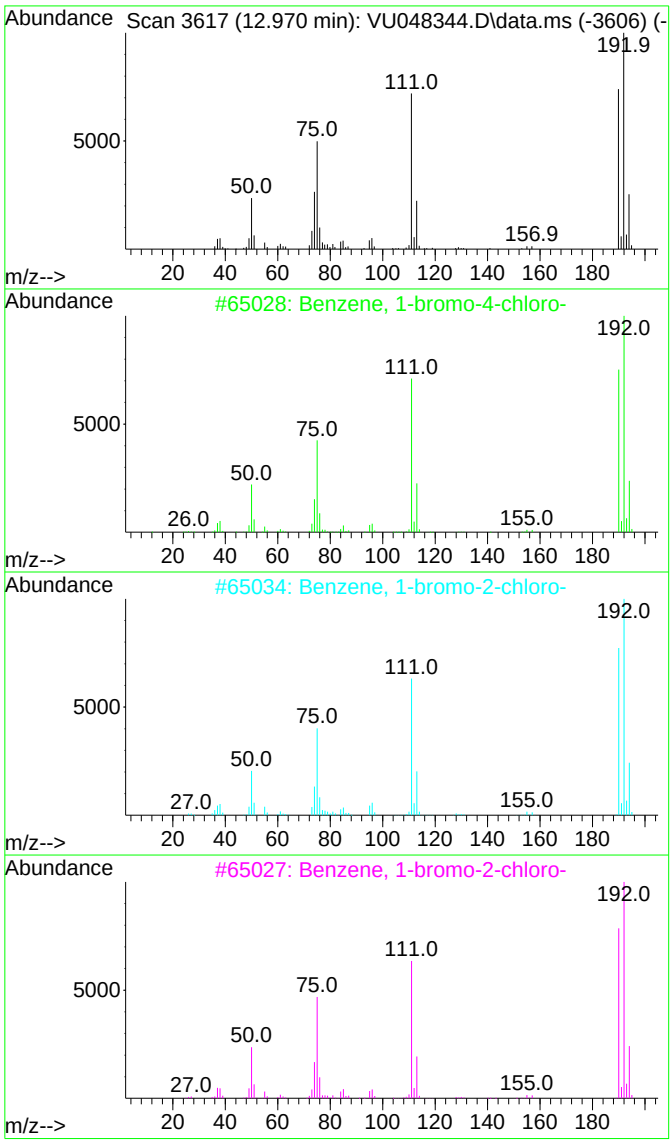
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

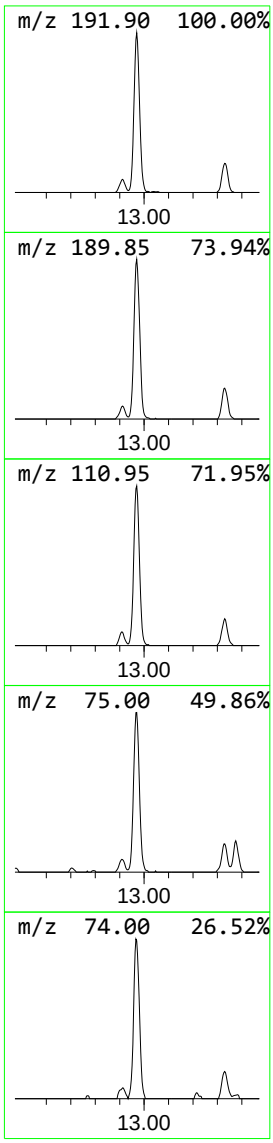
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Benzene, 1-bromo-4-chloro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.970	12.13 ug/L	241864	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-bromo-4-chloro-	190	C6H4BrCl	000106-39-8	98
2	Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	98
3	Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	98
4	Benzene, 1-bromo-3-chloro-	190	C6H4BrCl	000108-37-2	98
5	Benzene, 1-bromo-3-chloro-	190	C6H4BrCl	000108-37-2	98





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

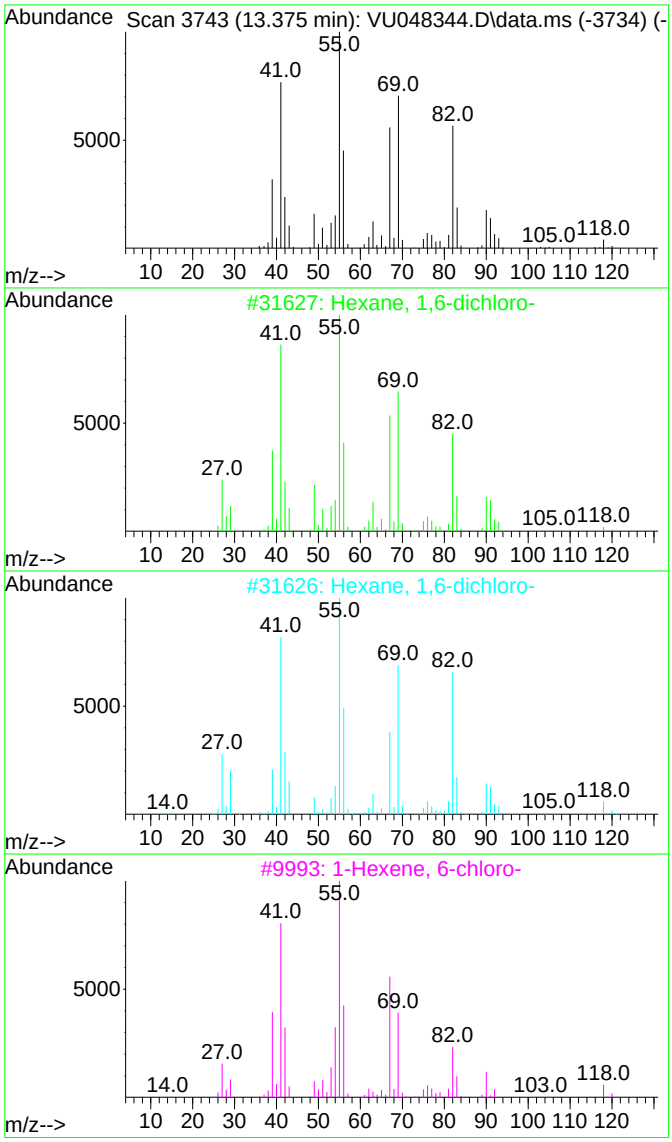
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

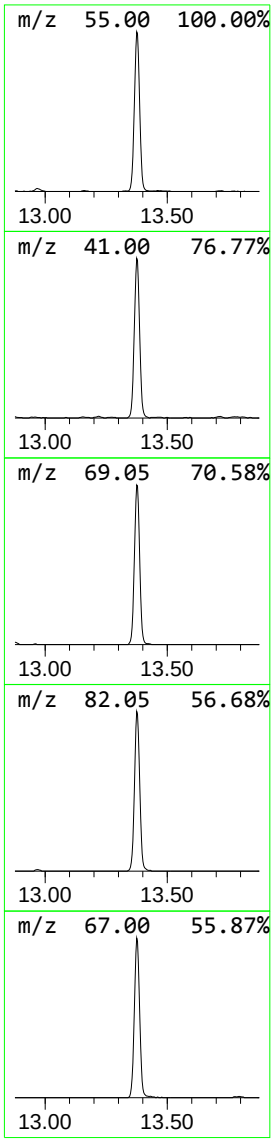
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Hexane, 1,6-dichloro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.375	25.83 ug/L	515212	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1,6-dichloro-	154	C6H12Cl2	002163-00-0	86
2	Hexane, 1,6-dichloro-	154	C6H12Cl2	002163-00-0	72
3	1-Hexene, 6-chloro-	118	C6H11Cl	000928-89-2	52
4	Cyclohexane, chloro-	118	C6H11Cl	000542-18-7	46
5	2-Propenoic acid, cyclohexyl ester	154	C9H14O2	003066-71-5	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

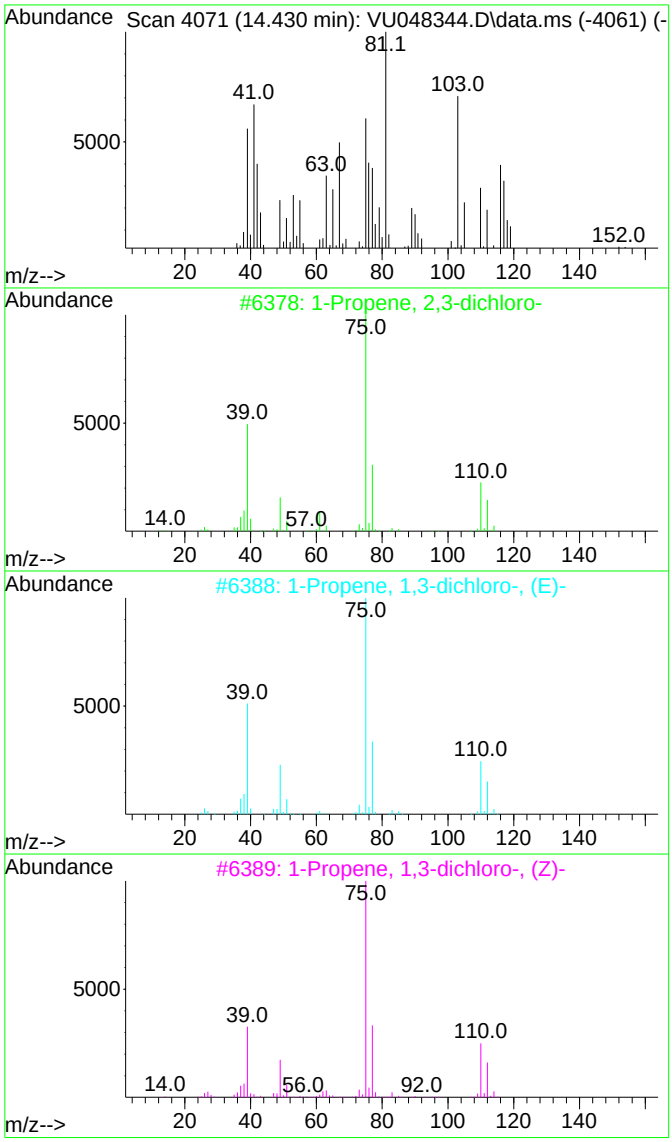
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

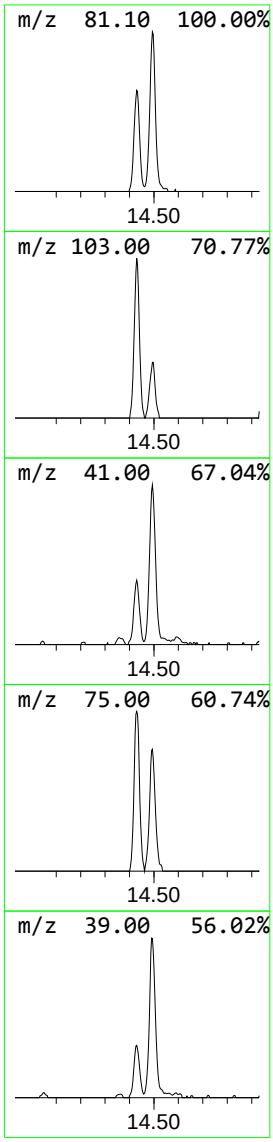
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 unknown-01 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.430	4.71 ug/L	93968	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2,3-dichloro-	110	C3H4Cl2	000078-88-6	30
2	1-Propene, 1,3-dichloro-, (E)-	110	C3H4Cl2	010061-02-6	30
3	1-Propene, 1,3-dichloro-, (Z)-	110	C3H4Cl2	010061-01-5	27
4	1-Propene, 1,3-dichloro-, (Z)-	110	C3H4Cl2	010061-01-5	27
5	1-Propene, 1,3-dichloro-, (E)-	110	C3H4Cl2	010061-02-6	22





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

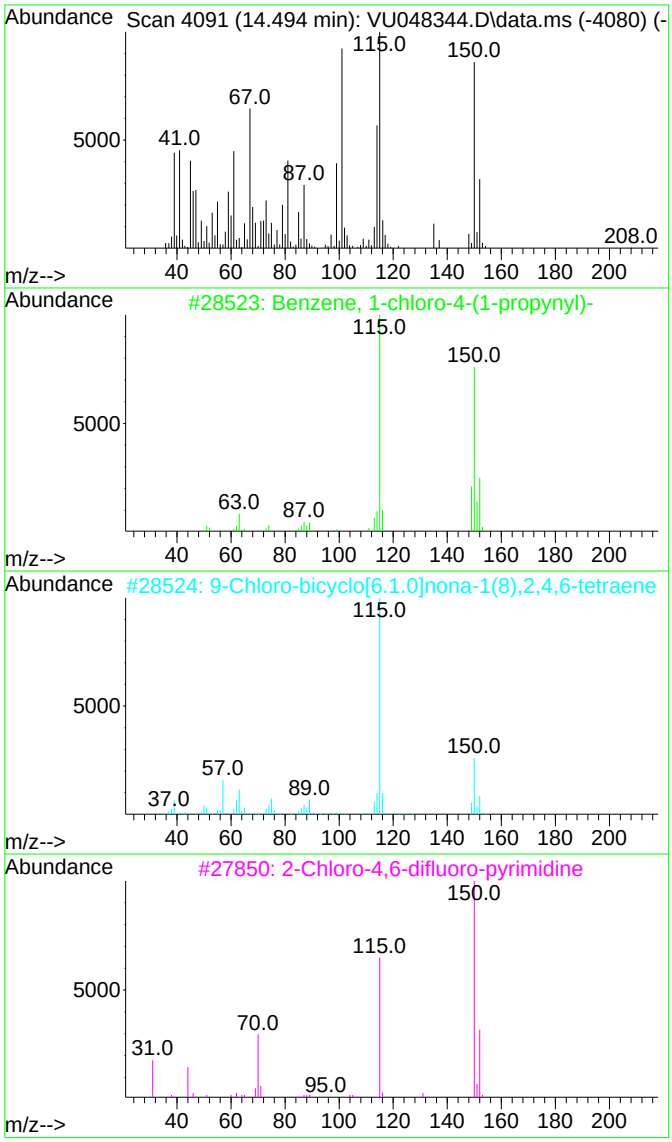
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

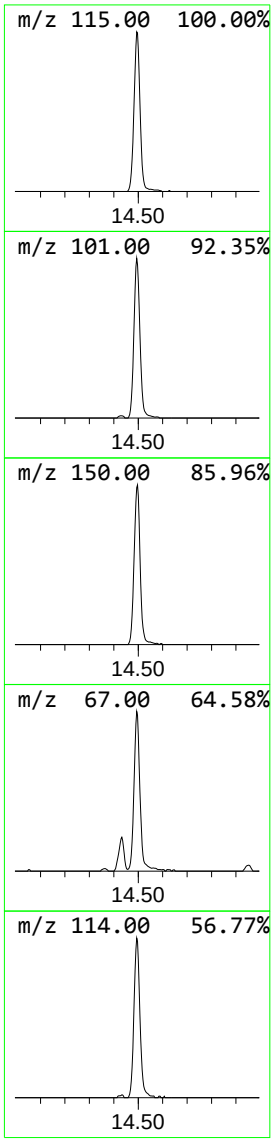
****

Peak Number 18 unknown-02 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.494	22.19 ug/L	442522	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-chloro-4-(1-propynyl)-	150	C9H7Cl	002809-65-6	43
2	9-Chloro-bicyclo[6.1.0]nona-1(8)...	150	C9H7Cl	1010295-96-4	27
3	2-Chloro-4,6-difluoro-pyrimidine	150	C4HClF2N2	038953-30-9	27
4	2-Pyrrolidinethione, 1-methyl-	115	C5H9NS	010441-57-3	11
5	2-Piperidinethione	115	C5H9NS	013070-01-4	11





Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

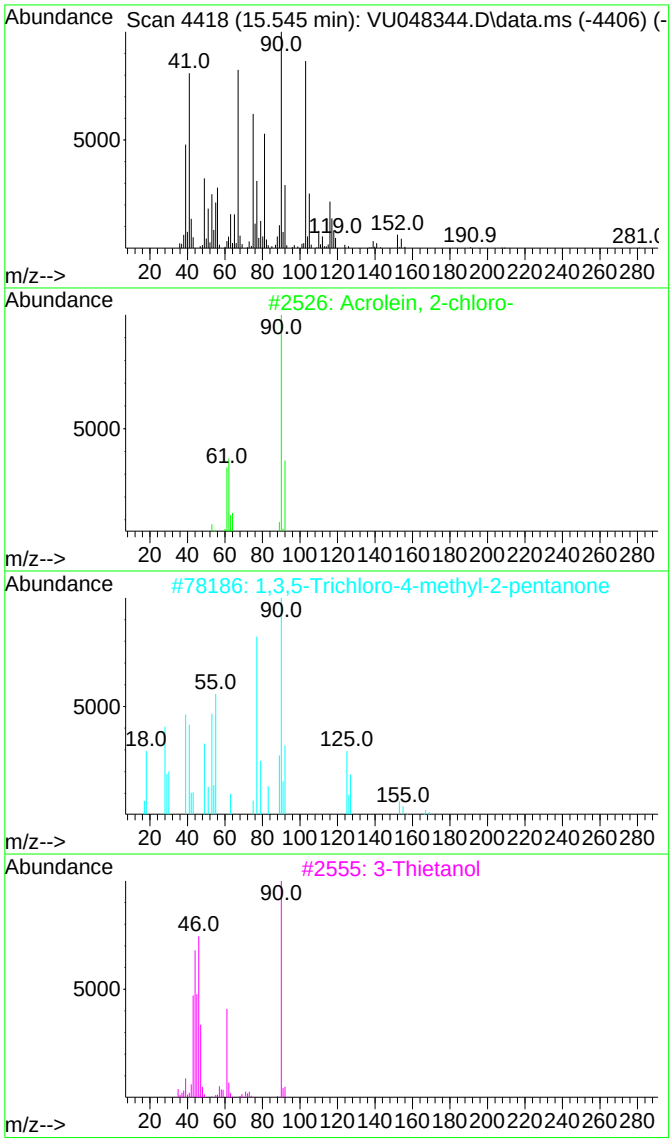
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

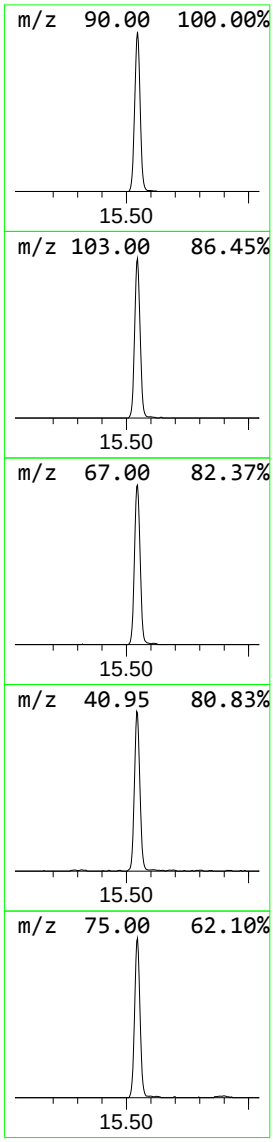
****

Peak Number 19 unknown-03 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.545	25.98 ug/L	518227	1,4-Dichlorobenzene-d4	11.812

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acrolein, 2-chloro-	90	C3H3ClO	000683-51-2	43
2	1,3,5-Trichloro-4-methyl-2-penta...	202	C6H9Cl3O	1000140-03-8	25
3	3-Thietanol	90	C3H6OS	010304-16-2	25
4	2,2-Bis(chloromethyl)-1-propanol	156	C5H10Cl2O	005355-54-4	23
5	Borane, chloro(dimethylamino)ethyl-	119	C4H11BClN	001739-26-0	23





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042822\
Data File : VU048344.D
Acq On : 28 Apr 2022 16:24
Operator : SY/MD
Sample : N2587-09DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
EXET5DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: S...	1.356	288.5	ug/L	3952900	1	6.250	685008	50.0
(DEL) Alkane: C...	1.472	4.5	ug/L	61860	1	6.250	685008	50.0
Furan, tetrahyd...	6.513	8.2	ug/L	112700	1	6.250	685008	50.0
Furan, tetrahyd...	6.774	9.1	ug/L	124968	1	6.250	685008	50.0
Thietane	6.996	35.6	ug/L	487938	1	6.250	685008	50.0
2H-Pyran, tetra...	7.488	80.8	ug/L	1106650	1	6.250	685008	50.0
Furan, tetrahyd...	8.356	6.3	ug/L	117721	2	9.417	930412	50.0
Propanal, 2,3-d...	8.578	636.1	ug/L	11836500	2	9.417	930412	50.0
Propane, 1-brom...	9.938	6.0	ug/L	111093	2	9.417	930412	50.0
2H-Thiopyran, t...	10.648	2.6	ug/L	51042	3	11.812	997180	50.0
Thiophene, 2-et...	10.970	2.7	ug/L	54165	3	11.812	997180	50.0
1,2-Dithiolane	11.748	5.1	ug/L	102220	3	11.812	997180	50.0
Thiepane	11.880	3.3	ug/L	65772	3	11.812	997180	50.0
Benzene, 1-brom...	12.970	12.1	ug/L	241864	3	11.812	997180	50.0
Hexane, 1,6-dic...	13.375	25.8	ug/L	515212	3	11.812	997180	50.0
unknown-01	14.430	4.7	ug/L	93968	3	11.812	997180	50.0
unknown-02	14.494	22.2	ug/L	442522	3	11.812	997180	50.0
unknown-03	15.545	26.0	ug/L	518227	3	11.812	997180	50.0