

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092322\  
 Data File : VU050924.D  
 Acq On : 23 Sep 2022 16:54  
 Operator : JC/MD  
 Sample : N4650-13  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZ08

Quant Time: Sep 24 00:25:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 24 00:22:43 2022  
 Response via : Initial Calibration

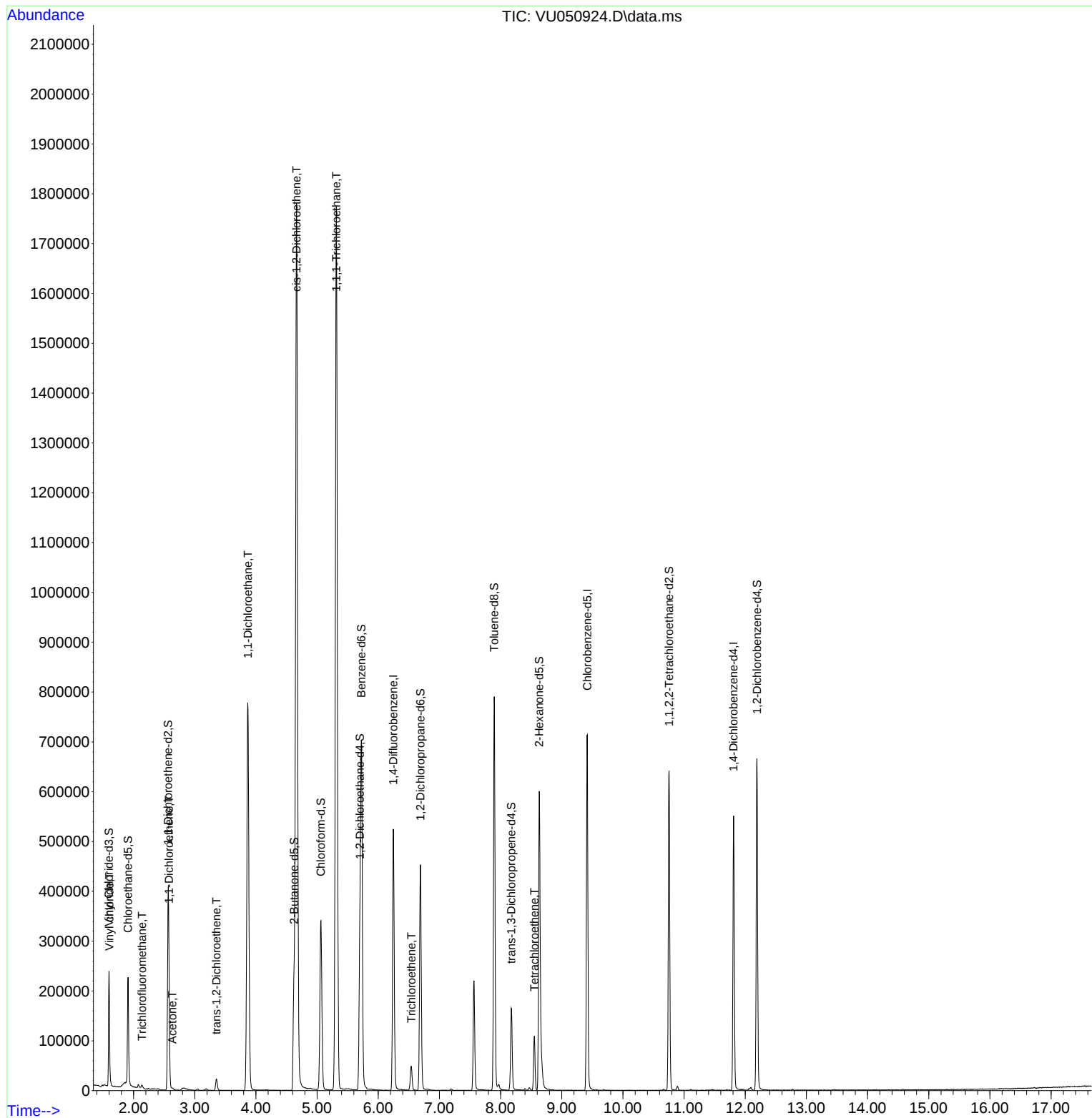
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247          | 114  | 411860     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417          | 117  | 393231     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809         | 152  | 141235     | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597          | 65   | 173989     | 40.774   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 81.540%  |        |          |
| 7) Chloroethane-d5            | 1.909          | 69   | 150157     | 49.410   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 98.820%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.565          | 63   | 236233     | 35.579   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 71.160%  |        |          |
| 21) 2-Butanone-d5             | 4.623          | 46   | 334077     | 121.268  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 121.270% |        |          |
| 24) Chloroform-d              | 5.060          | 84   | 324572     | 48.536   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 97.080%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.700          | 65   | 210622     | 51.108   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 102.220% |        |          |
| 32) Benzene-d6                | 5.726          | 84   | 646457     | 49.911   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 99.820%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.690          | 67   | 220738     | 50.490   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 100.980% |        |          |
| 41) Toluene-d8                | 7.896          | 98   | 519027     | 45.843   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 91.680%  |        |          |
| 43) trans-1,3-Dichloroprop... | 8.176          | 79   | 90085      | 47.365   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 94.740%  |        |          |
| 47) 2-Hexanone-d5             | 8.632          | 63   | 182423     | 101.251  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 101.250% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754         | 84   | 328363     | 49.263   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 98.520%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192         | 152  | 170559     | 57.678   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 115.360% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        |          |
| 5) Vinyl chloride             | 1.604          | 62   | 2922       | 0.602    | ug/L # | 24       |
| 9) Trichlorofluoromethane     | 2.137          | 101  | 2890       | 0.549    | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.578          | 96   | 24978      | 7.889    | ug/L # | 1        |
| 13) Acetone                   | 2.636          | 43   | 4981       | 2.135    | ug/L   | 93       |
| 17) trans-1,2-Dichloroethene  | 3.356          | 96   | 8938       | 2.754    | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.867          | 63   | 898716     | 137.053  | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.665          | 96   | 926029     | 257.350  | ug/L   | 100      |
| 30) 1,1,1-Trichloroethane     | 5.314          | 97   | 1277889    | 244.270  | ug/L   | 99       |
| 34) Trichloroethene           | 6.542          | 95   | 14699      | 4.373    | ug/L   | 97       |
| 46) Tetrachloroethene         | 8.552          | 164  | 24388      | 10.096   | ug/L   | 96       |
| -----                         |                |      |            |          |        |          |

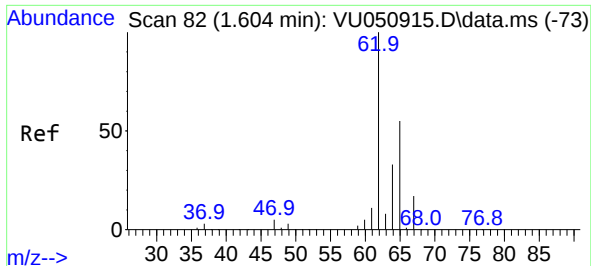
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N4650-13  
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ALS Vial : 12 Sample Multiplier: 1

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ClientSampleId :  
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Quant Title : VOC Analysis  
QLast Update : Sat Sep 24 00:22:43 2022  
Response via : Initial Calibration

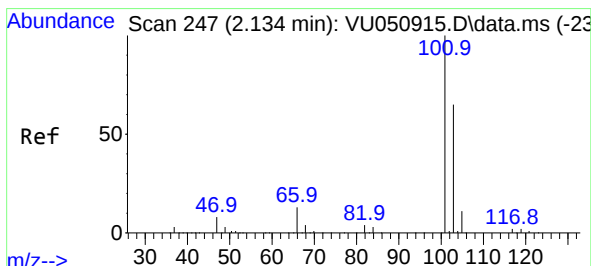
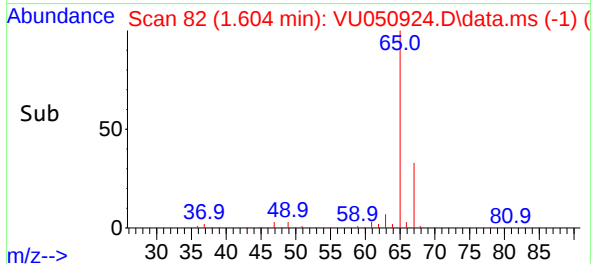
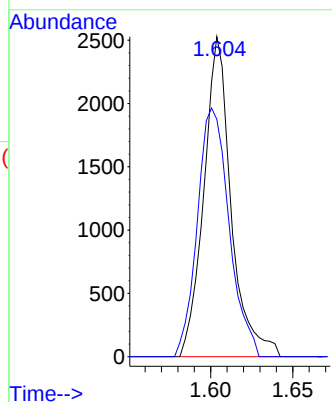
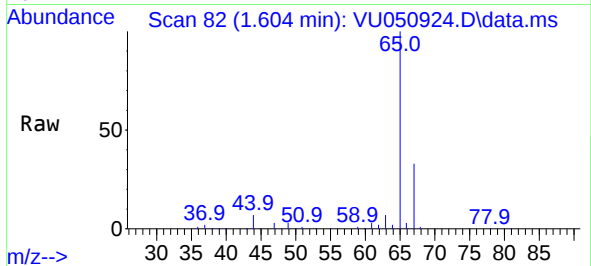




#5  
 Vinyl chloride  
 Concen: 0.602 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU050924.D  
 Acq: 23 Sep 2022 16:54

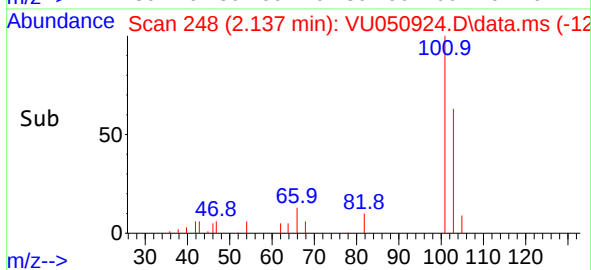
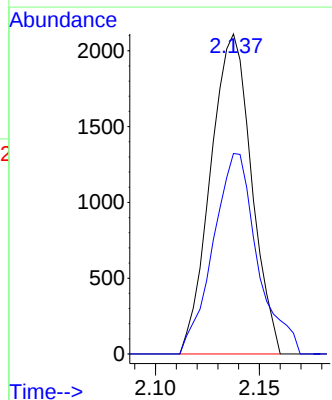
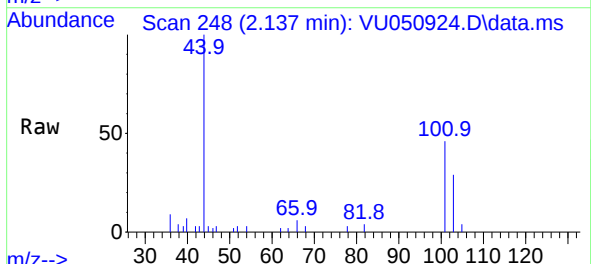
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZ08

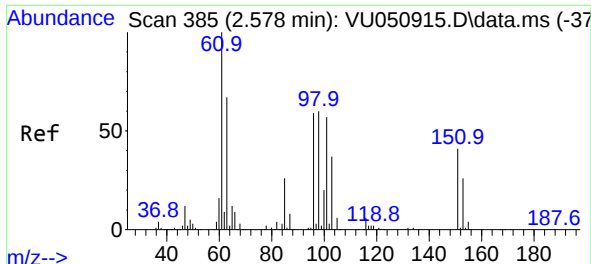
Tgt Ion: 62 Resp: 2922  
 Ion Ratio Lower Upper  
 62 100  
 64 74.1 22.2 41.2#



#9  
 Trichlorofluoromethane  
 Concen: 0.549 ug/L  
 RT: 2.137 min Scan# 248  
 Delta R.T. 0.003 min  
 Lab File: VU050924.D  
 Acq: 23 Sep 2022 16:54

Tgt Ion: 101 Resp: 2890  
 Ion Ratio Lower Upper  
 101 100  
 103 67.8 50.9 76.3

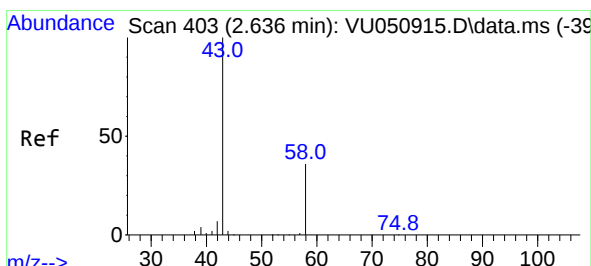
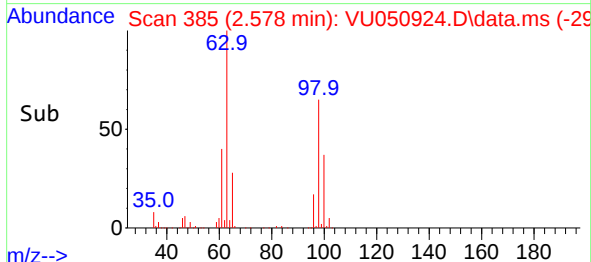
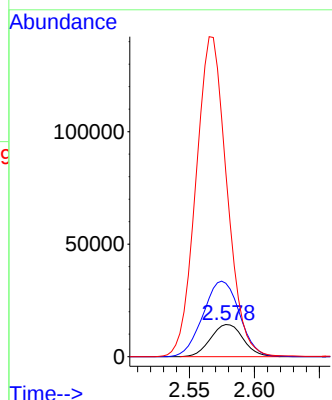
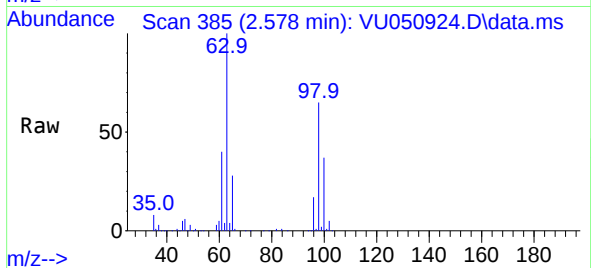




#12  
1,1-Dichloroethene  
Concen: 7.889 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. -0.000 min  
Lab File: VU050924.D  
Acq: 23 Sep 2022 16:54

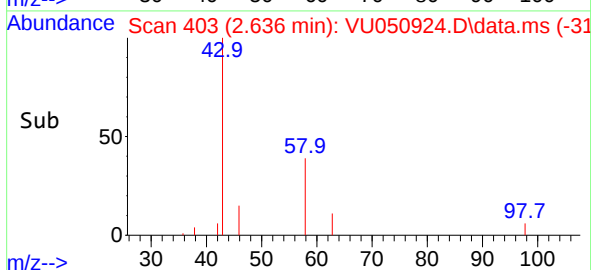
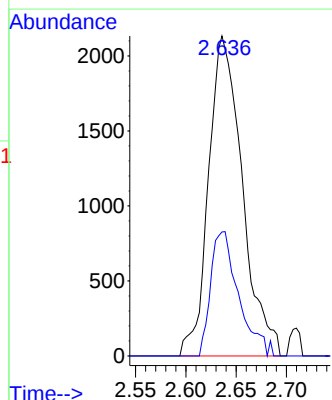
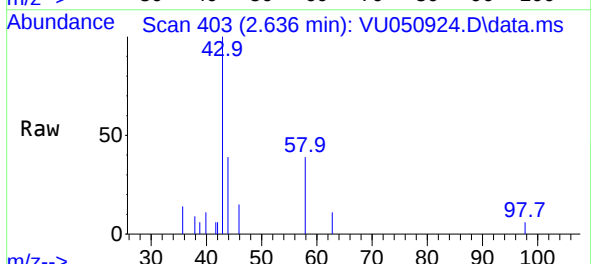
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXZ08

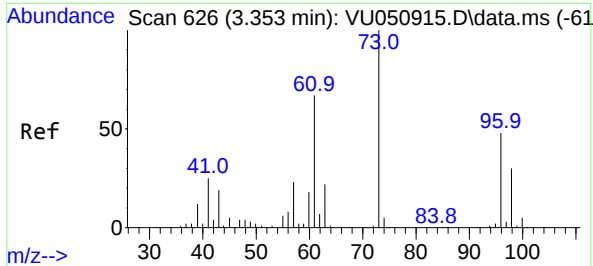
Tgt Ion: 96 Resp: 24978  
Ion Ratio Lower Upper  
96 100  
61 228.7 118.6 220.2#  
63 574.7 90.4 168.0#



#13  
Acetone  
Concen: 2.135 ug/L  
RT: 2.636 min Scan# 403  
Delta R.T. -0.000 min  
Lab File: VU050924.D  
Acq: 23 Sep 2022 16:54

Tgt Ion: 43 Resp: 4981  
Ion Ratio Lower Upper  
43 100  
58 31.8 0.0 71.4



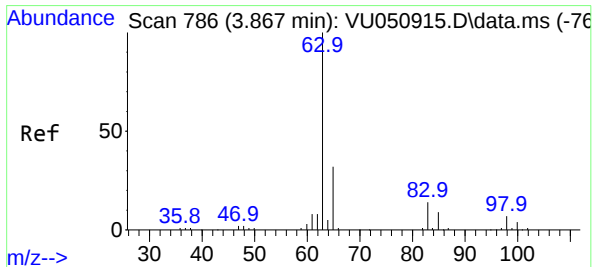
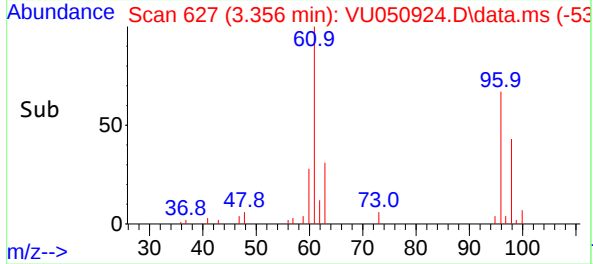
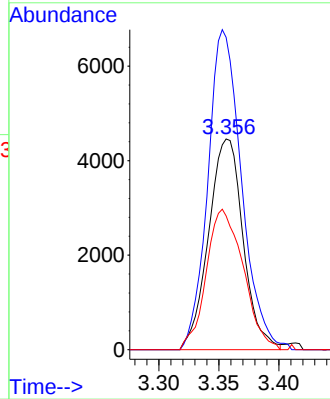
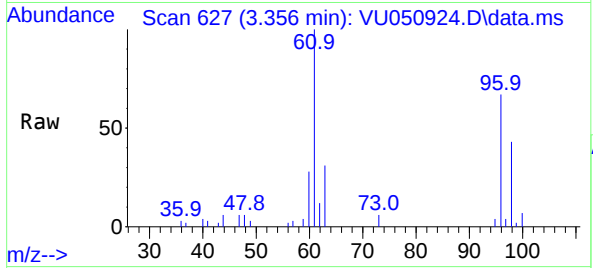


#17  
trans-1,2-Dichloroethene  
Concen: 2.754 ug/L  
RT: 3.356 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU050924.D  
Acq: 23 Sep 2022 16:54

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXZ08

Tgt Ion: 96 Resp: 8938

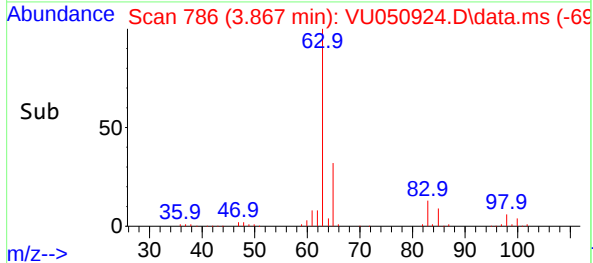
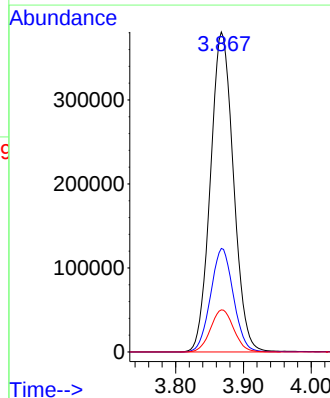
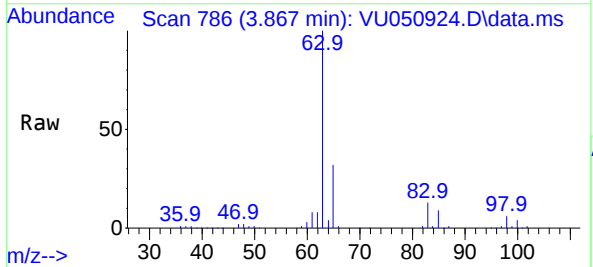
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 148.2 | 98.0  | 182.0 |
| 98  | 63.5  | 44.3  | 82.3  |

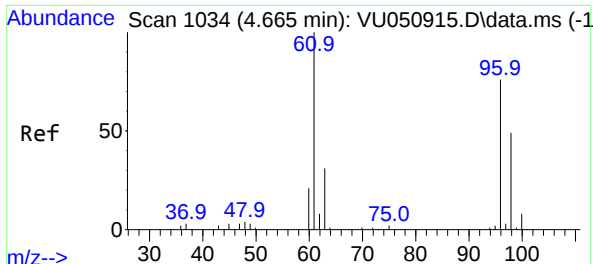


#19  
1,1-Dichloroethane  
Concen: 137.053 ug/L  
RT: 3.867 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: VU050924.D  
Acq: 23 Sep 2022 16:54

Tgt Ion: 63 Resp: 898716

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 32.4  | 21.5  | 39.9  |
| 83  | 13.2  | 9.3   | 17.3  |

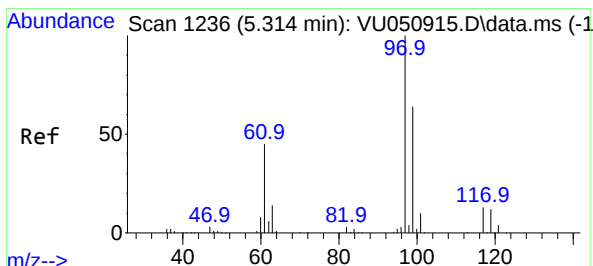
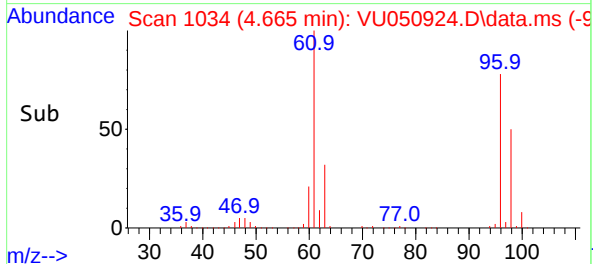
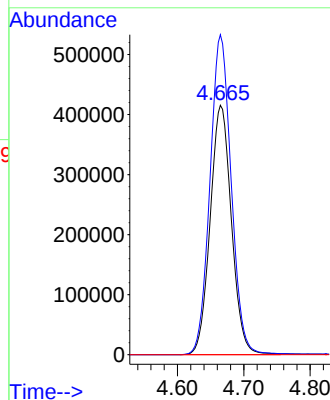
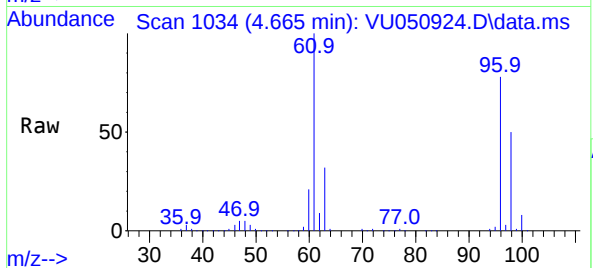




#20  
cis-1,2-Dichloroethene  
Concen: 257.350 ug/L  
RT: 4.665 min Scan# 1034  
Delta R.T. -0.000 min  
Lab File: VU050924.D  
Acq: 23 Sep 2022 16:54

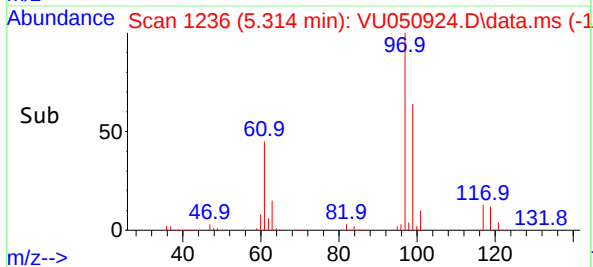
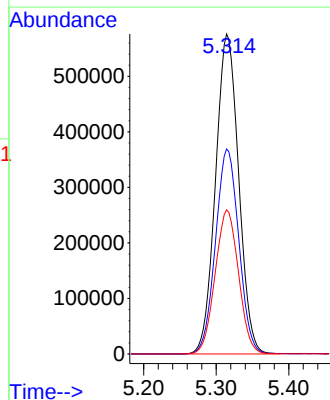
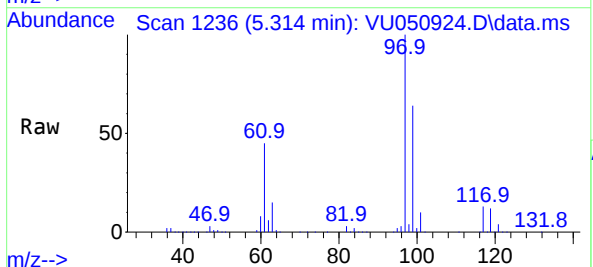
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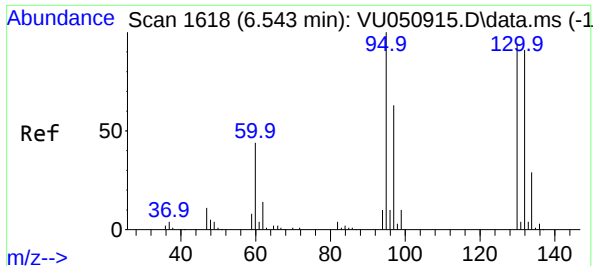
Tgt Ion: 96 Resp: 926029  
Ion Ratio Lower Upper  
96 100  
61 128.3 90.1 167.3  
68 0.0 0.0 0.0



#30  
1,1,1-Trichloroethane  
Concen: 244.270 ug/L  
RT: 5.314 min Scan# 1236  
Delta R.T. -0.000 min  
Lab File: VU050924.D  
Acq: 23 Sep 2022 16:54

Tgt Ion: 97 Resp: 1277889  
Ion Ratio Lower Upper  
97 100  
99 64.6 52.2 78.2  
61 45.6 37.1 55.7





#34

Trichloroethene

Concen: 4.373 ug/L

RT: 6.542 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU050924.D

Acq: 23 Sep 2022 16:54

Instrument :

MSVOA\_U

ClientSampleId :

EXZ08

Tgt Ion: 95 Resp: 14699

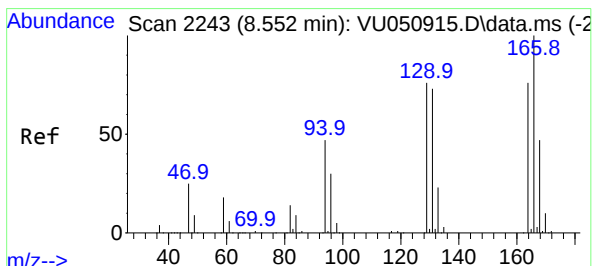
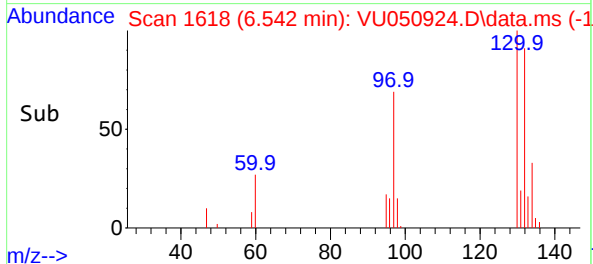
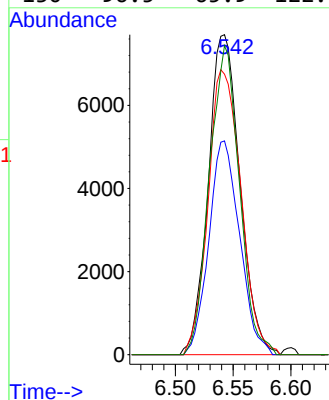
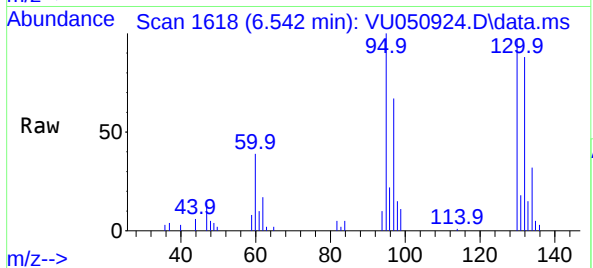
Ion Ratio Lower Upper

95 100

97 66.8 43.9 81.5

132 87.6 63.1 117.1

130 96.5 65.9 122.3



#46

Tetrachloroethene

Concen: 10.096 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. -0.000 min

Lab File: VU050924.D

Acq: 23 Sep 2022 16:54

Tgt Ion:164 Resp: 24388

Ion Ratio Lower Upper

164 100

129 99.8 68.5 127.3

131 90.9 66.1 122.7

166 119.1 88.8 164.8

