

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092222\  
 Data File : VU050899.D  
 Acq On : 22 Sep 2022 15:40  
 Operator : JC/MD  
 Sample : N4650-05DL 10X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZ01DL

Quant Time: Sep 23 01:11:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 23 01:08:30 2022  
 Response via : Initial Calibration

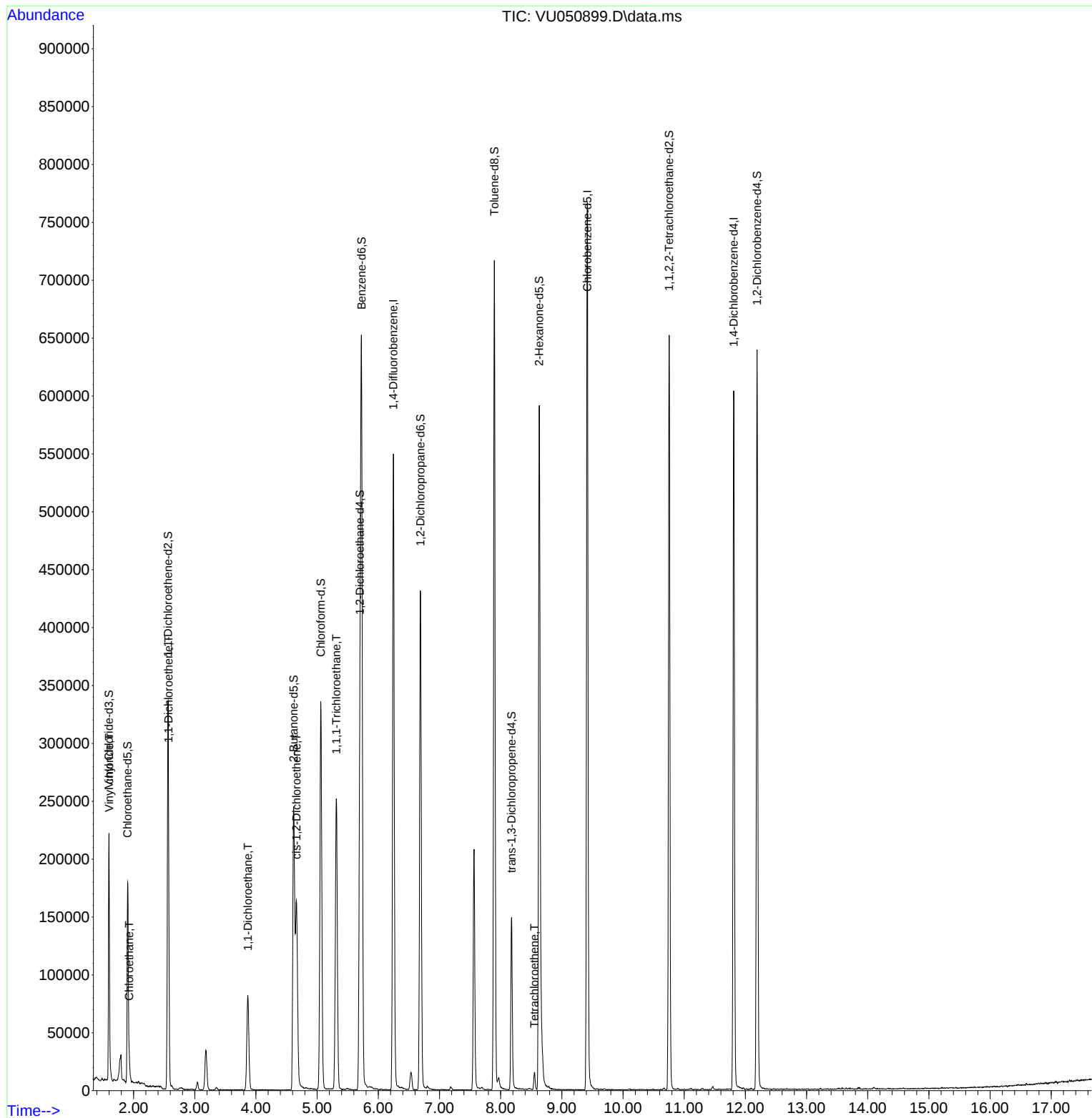
| Compound                      | R.T.    | QIon           | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|---------|----------------|----------|---------|----------|----------|
| -----                         |         |                |          |         |          |          |
| Internal Standards            |         |                |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114            | 430937   | 50.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117            | 421300   | 50.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152            | 157094   | 50.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |         |                |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65             | 149881   | 33.570  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 135 | Recovery | =       | 67.140%  |          |
| 7) Chloroethane-d5            | 1.903   | 69             | 133226   | 41.898  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 130 | Recovery | =       | 83.800%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63             | 194394   | 27.981  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 125 | Recovery | =       | 55.960%# |          |
| 21) 2-Butanone-d5             | 4.617   | 46             | 322499   | 111.883 | ug/L     | 0.00     |
| Spiked Amount                 | 100.000 | Range 40 - 130 | Recovery | =       | 111.880% |          |
| 24) Chloroform-d              | 5.060   | 84             | 311246   | 44.483  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 88.960%  |          |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65             | 202771   | 47.025  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 94.040%  |          |
| 32) Benzene-d6                | 5.726   | 84             | 594775   | 42.861  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 85.720%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67             | 212294   | 45.323  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 120 | Recovery | =       | 90.640%  |          |
| 41) Toluene-d8                | 7.896   | 98             | 474465   | 39.115  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 80 - 120 | Recovery | =       | 78.240%# |          |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79             | 84642    | 41.538  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 125 | Recovery | =       | 83.080%  |          |
| 47) 2-Hexanone-d5             | 8.629   | 63             | 187143   | 96.951  | ug/L     | 0.00     |
| Spiked Amount                 | 100.000 | Range 45 - 130 | Recovery | =       | 96.950%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84             | 333744   | 46.734  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 65 - 120 | Recovery | =       | 93.460%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152            | 167728   | 50.994  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 80 - 120 | Recovery | =       | 101.980% |          |
| Target Compounds              |         |                |          |         |          |          |
|                               |         |                |          |         | Qvalue   |          |
| 5) Vinyl chloride             | 1.601   | 62             | 11787    | 2.321   | ug/L #   | 72       |
| 8) Chloroethane               | 1.925   | 64             | 10491    | 3.731   | ug/L     | 99       |
| 12) 1,1-Dichloroethene        | 2.572   | 96             | 3187     | 0.962   | ug/L #   | 1        |
| 19) 1,1-Dichloroethane        | 3.867   | 63             | 95901    | 13.977  | ug/L     | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96             | 76415    | 20.296  | ug/L     | 97       |
| 30) 1,1,1-Trichloroethane     | 5.314   | 97             | 183375   | 32.717  | ug/L     | 98       |
| 46) Tetrachloroethene         | 8.552   | 164            | 3276     | 1.266   | ug/L     | 90       |
| -----                         |         |                |          |         |          |          |

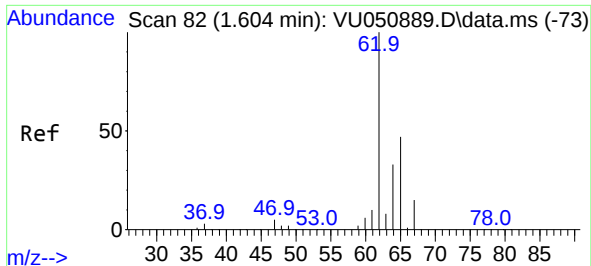
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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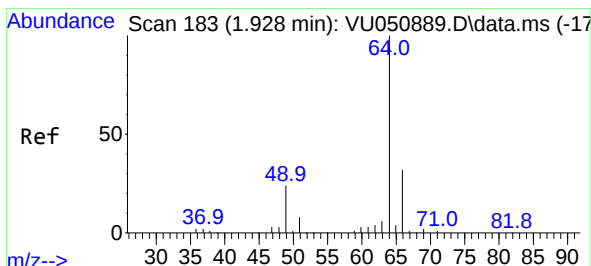
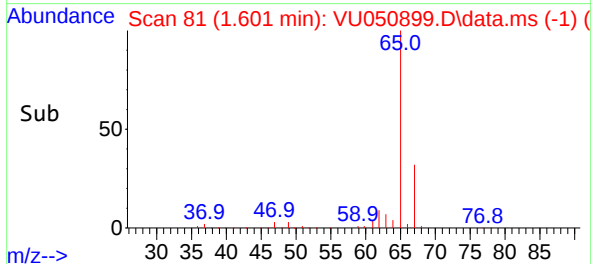
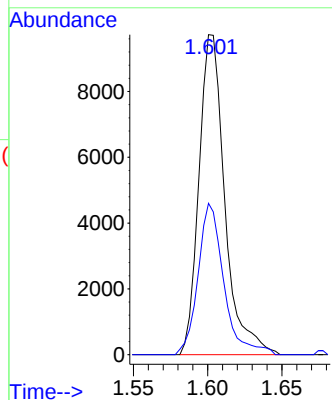
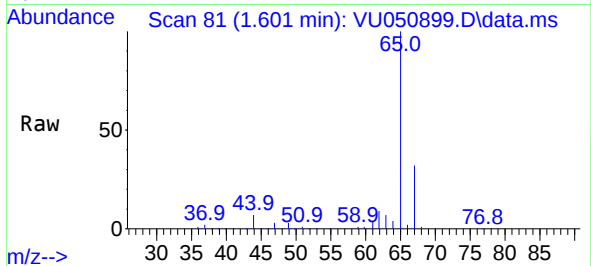




#5  
Vinyl chloride  
Concen: 2.321 ug/L  
RT: 1.601 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VU050889.D  
Acq: 22 Sep 2022 15:40

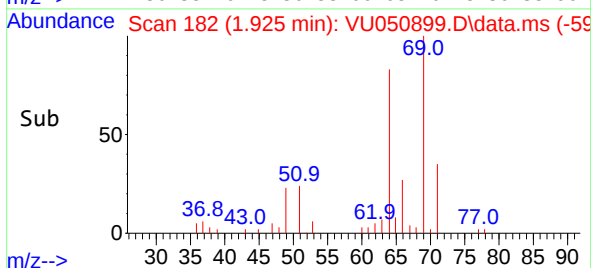
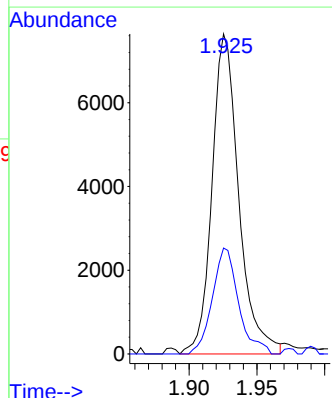
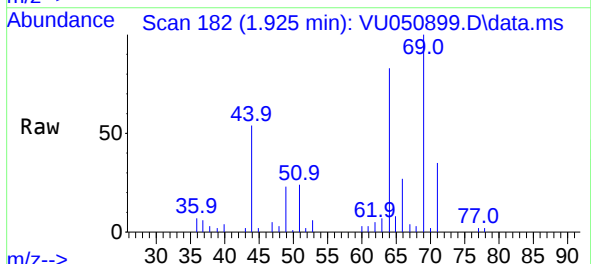
Instrument :  
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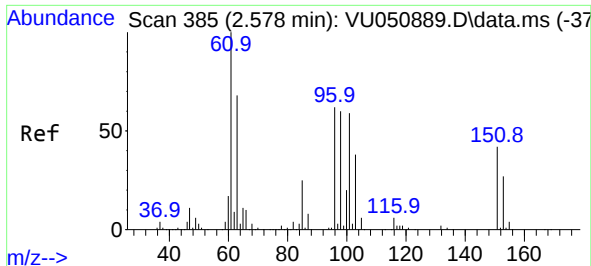
Tgt Ion: 62 Resp: 11787  
Ion Ratio Lower Upper  
62 100  
64 47.3 22.2 41.2#



#8  
Chloroethane  
Concen: 3.731 ug/L  
RT: 1.925 min Scan# 182  
Delta R.T. -0.003 min  
Lab File: VU050889.D  
Acq: 22 Sep 2022 15:40

Tgt Ion: 64 Resp: 10491  
Ion Ratio Lower Upper  
64 100  
66 33.1 22.9 42.5

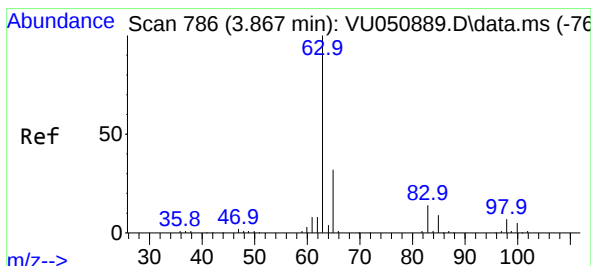
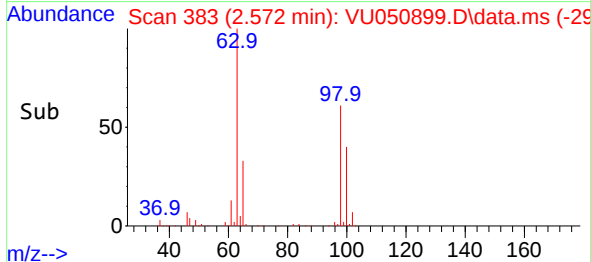
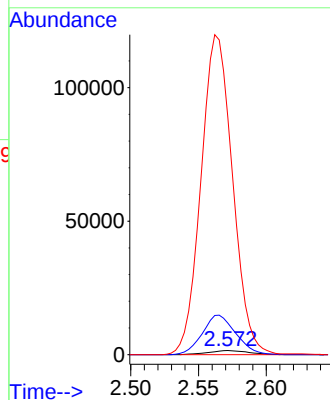
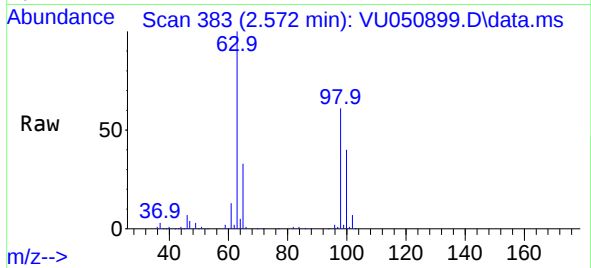




#12  
1,1-Dichloroethene  
Concen: 0.962 ug/L  
RT: 2.572 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VU050899.D  
Acq: 22 Sep 2022 15:40

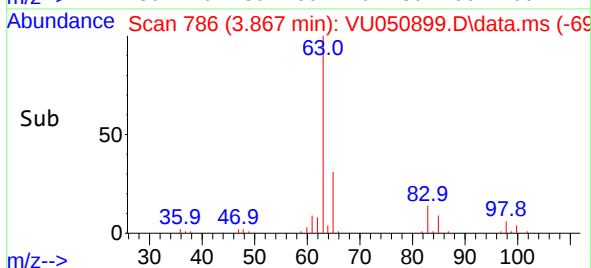
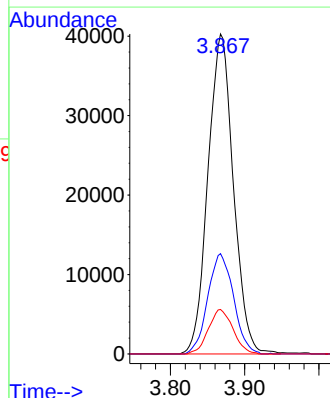
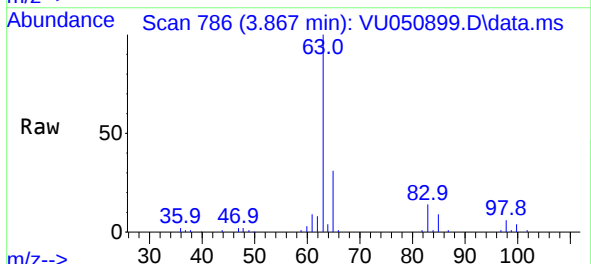
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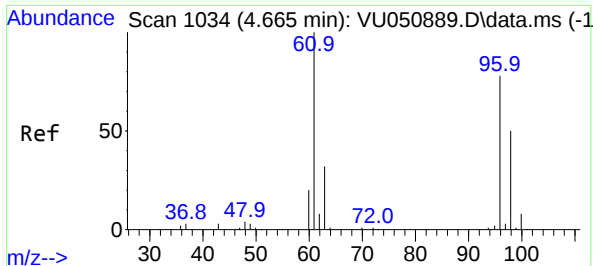
Tgt Ion: 96 Resp: 3187  
Ion Ratio Lower Upper  
96 100  
61 765.7 118.6 220.2#  
63 5748.3 90.4 168.0#



#19  
1,1-Dichloroethane  
Concen: 13.977 ug/L  
RT: 3.867 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: VU050899.D  
Acq: 22 Sep 2022 15:40

Tgt Ion: 63 Resp: 95901  
Ion Ratio Lower Upper  
63 100  
65 31.3 21.5 39.9  
83 13.9 9.3 17.3

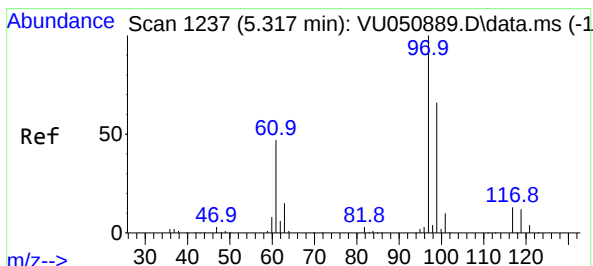
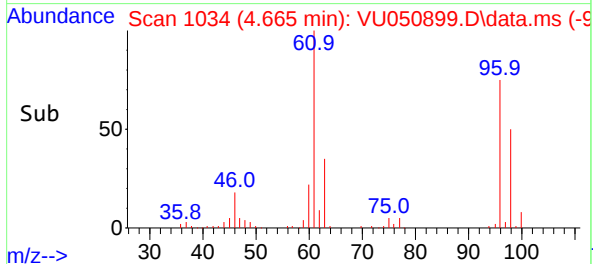
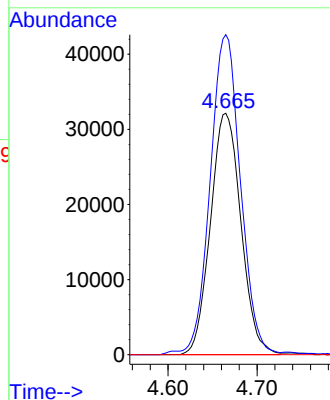
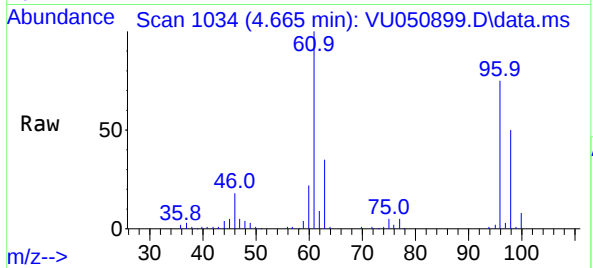




#20  
 cis-1,2-Dichloroethene  
 Concen: 20.296 ug/L  
 RT: 4.665 min Scan# 1034  
 Delta R.T. 0.000 min  
 Lab File: VU050889.D  
 Acq: 22 Sep 2022 15:40

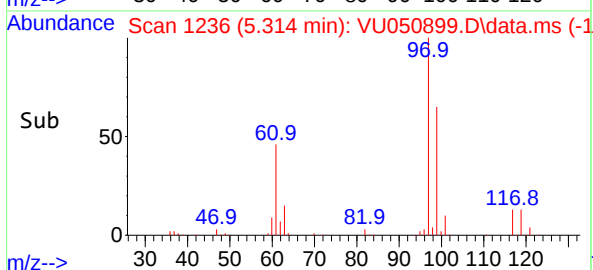
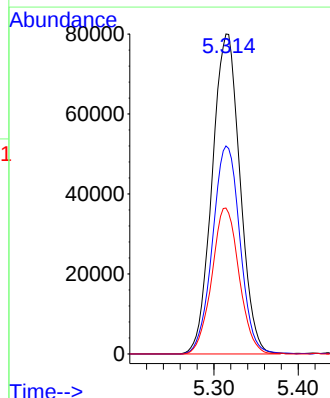
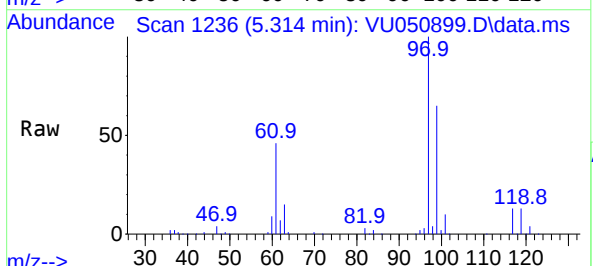
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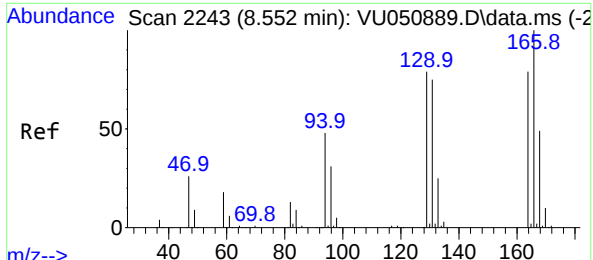
Tgt Ion: 96 Resp: 76415  
 Ion Ratio Lower Upper  
 96 100  
 61 132.6 90.1 167.3  
 68 0.0 0.0 0.0



#30  
 1,1,1-Trichloroethane  
 Concen: 32.717 ug/L  
 RT: 5.314 min Scan# 1236  
 Delta R.T. -0.003 min  
 Lab File: VU050889.D  
 Acq: 22 Sep 2022 15:40

Tgt Ion: 97 Resp: 183375  
 Ion Ratio Lower Upper  
 97 100  
 99 64.2 52.2 78.2  
 61 44.6 37.1 55.7





#46  
 Tetrachloroethene  
 Concen: 1.266 ug/L  
 RT: 8.552 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VU050889.D  
 Acq: 22 Sep 2022 15:40

Instrument :  
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 ClientSampleId :  
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Tgt Ion:164 Resp: 3276

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 108.5 | 68.5  | 127.3 |
| 131 | 96.1  | 66.1  | 122.7 |
| 166 | 109.1 | 88.8  | 164.8 |

