

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU042623\  
 Data File : VU053910.D  
 Acq On : 26 Apr 2023 13:43  
 Operator : JC/MD  
 Sample : 02433-04  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BHE40

Quant Time: Apr 27 05:55:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR042423WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Apr 27 05:52:18 2023  
 Response via : Initial Calibration

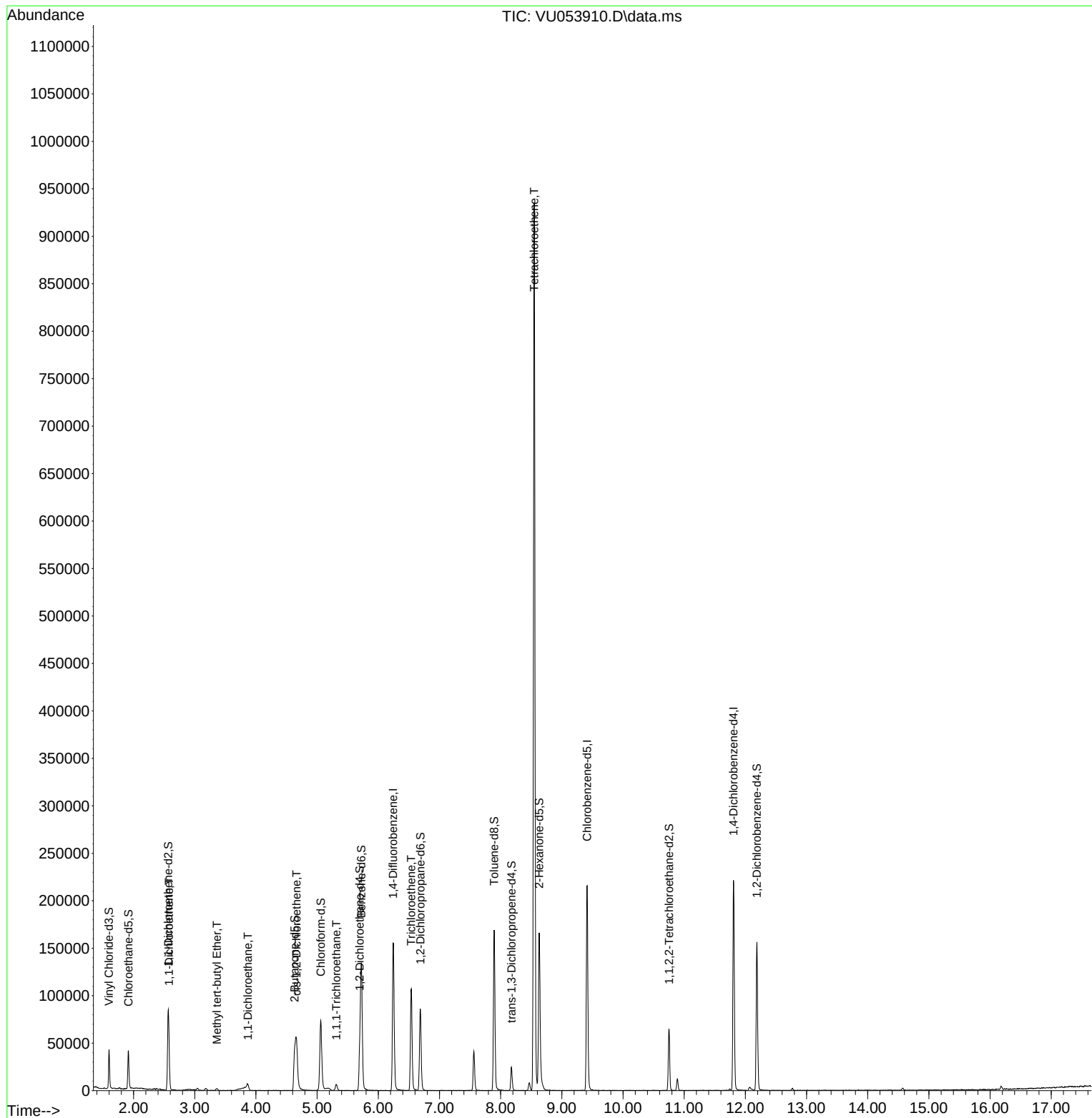
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.244  | 114   | 135676   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 132132   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806 | 152   | 63583    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 31257    | 3.782    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 75.600%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 29229    | 4.214    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 84.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 13237    | 3.892    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 77.800%  |
| 20) 2-Butanone-d5             | 4.633  | 46    | 73187    | 48.353   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 96.700%  |
| 24) Chloroform-d              | 5.060  | 84    | 68274    | 4.384    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 32441    | 4.508    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 90.200%  |
| 32) Benzene-d6                | 5.723  | 84    | 133718   | 4.296    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 42948    | 4.561    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 91.200%  |
| 41) Toluene-d8                | 7.893  | 98    | 121466   | 4.181    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 83.600%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 14965    | 4.041    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 80.800%  |
| 46) 2-Hexanone-d5             | 8.629  | 63    | 61751    | 47.115   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 94.220%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 31821    | 4.181    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 83.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 43545    | 4.270    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 85.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 8000     | 0.937    | ug/L # | 1        |
| 17) Methyl tert-butyl Ether   | 3.363  | 73    | 2197     | 0.119    | ug/L # | 72       |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 5032     | 0.322    | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96    | 20967    | 2.155    | ug/L   | 96       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97    | 5074     | 0.342    | ug/L # | 80       |
| 34) Trichloroethene           | 6.536  | 95    | 37120    | 3.657    | ug/L   | 96       |
| 47) Tetrachloroethene         | 8.549  | 164   | 208009   | 25.858   | ug/L   | 99       |
| -----                         |        |       |          |          |        |          |

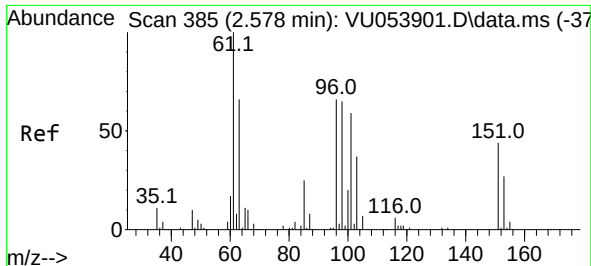
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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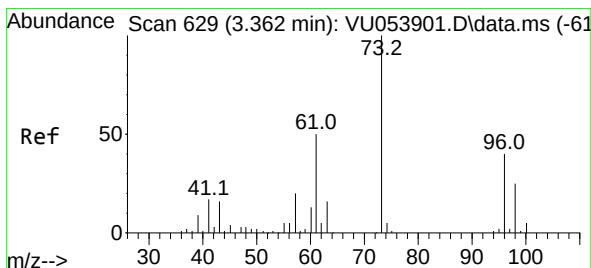
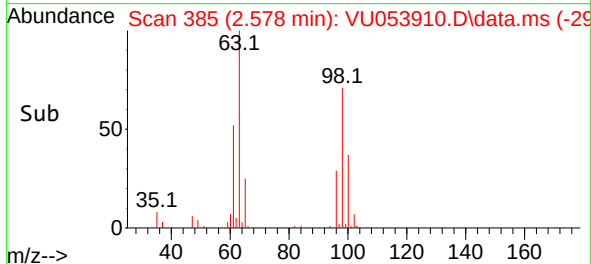
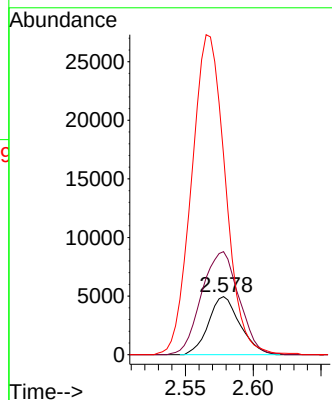
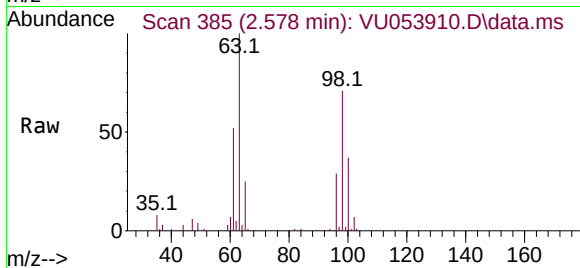




#12  
1,1-Dichloroethene  
Concen: 0.937 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. 0.000 min  
Lab File: VU053910.D  
Acq: 26 Apr 2023 13:43

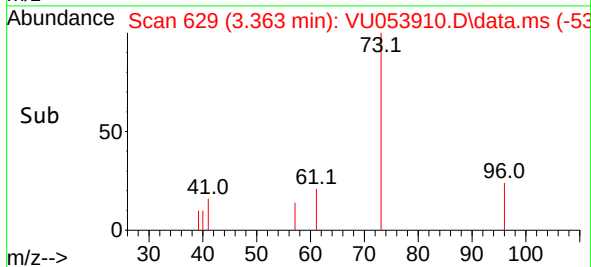
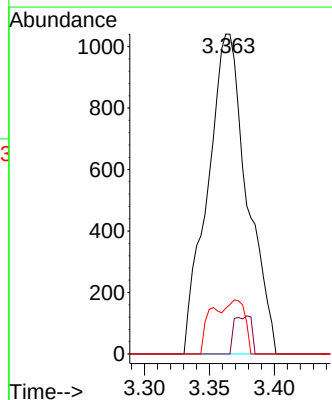
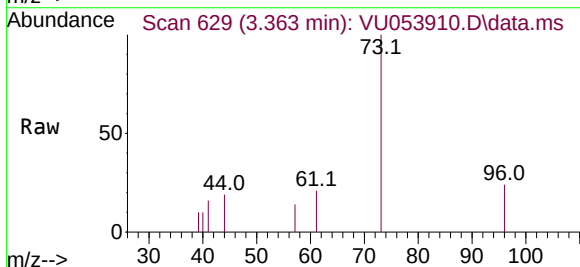
Instrument :  
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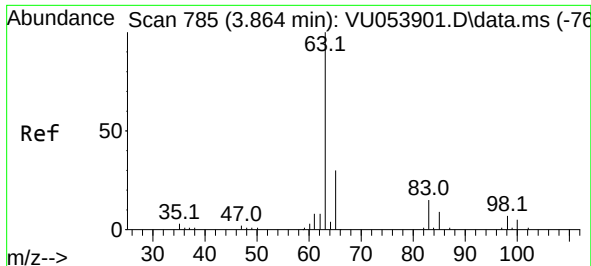
Tgt Ion: 96 Resp: 8000  
Ion Ratio Lower Upper  
96 100  
61 177.1 111.5 207.1  
63 343.4 68.7 127.7#



#17  
Methyl tert-butyl Ether  
Concen: 0.119 ug/L  
RT: 3.363 min Scan# 629  
Delta R.T. 0.000 min  
Lab File: VU053910.D  
Acq: 26 Apr 2023 13:43

Tgt Ion: 73 Resp: 2197  
Ion Ratio Lower Upper  
73 100  
43 5.2 13.4 20.2#  
57 8.1 17.2 25.8#





#19

1,1-Dichloroethane

Concen: 0.322 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU053910.D

Acq: 26 Apr 2023 13:43

Instrument :

MSVOA\_U

ClientSampleId :

BHE40

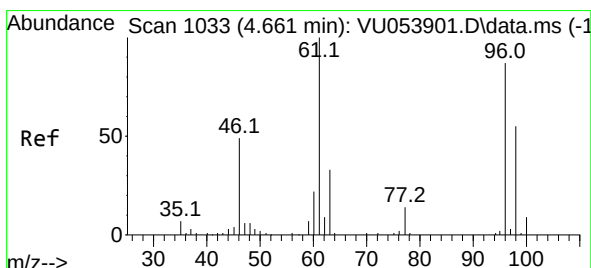
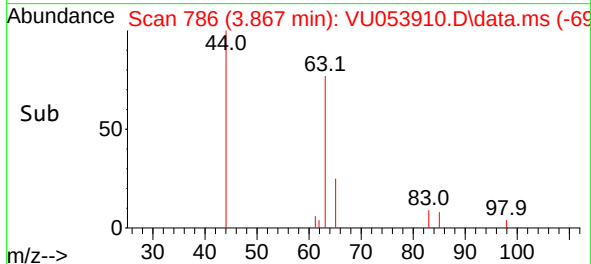
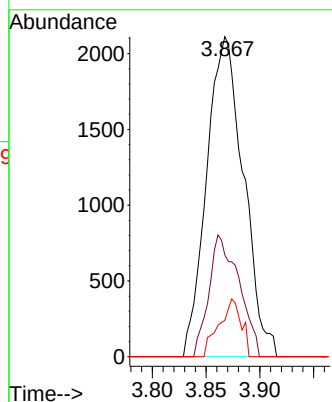
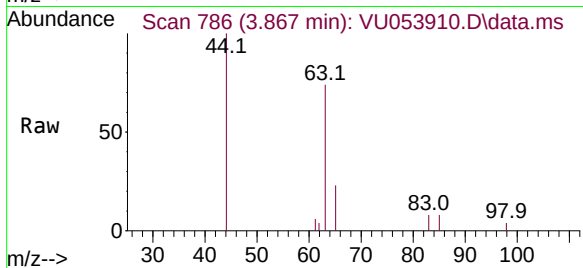
Tgt Ion: 63 Resp: 5032

Ion Ratio Lower Upper

63 100

65 31.8 22.0 40.8

83 11.4 10.3 19.1



#22

cis-1,2-Dichloroethene

Concen: 2.155 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.003 min

Lab File: VU053910.D

Acq: 26 Apr 2023 13:43

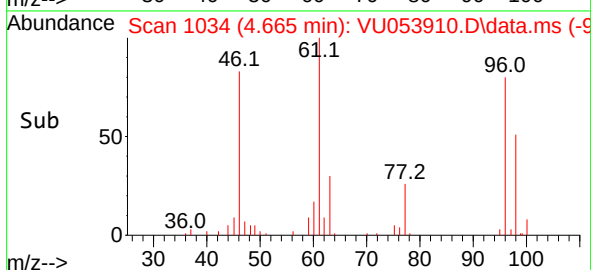
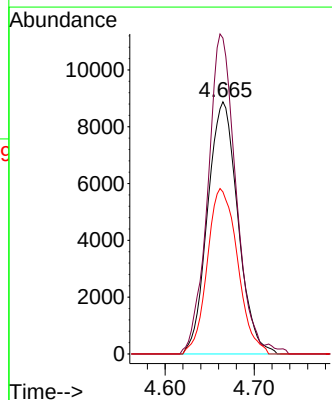
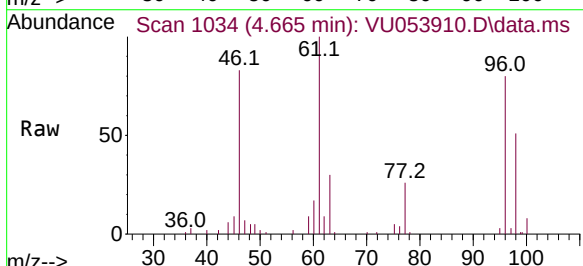
Tgt Ion: 96 Resp: 20967

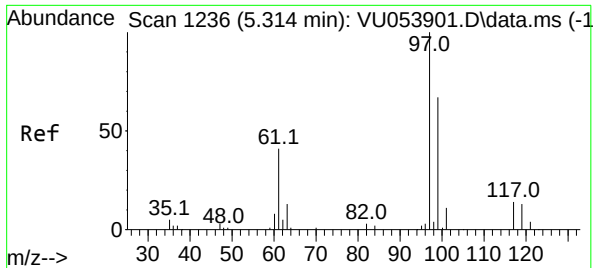
Ion Ratio Lower Upper

96 100

61 125.2 84.3 156.5

98 64.3 46.4 86.2

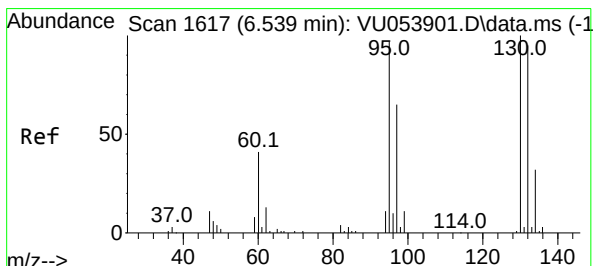
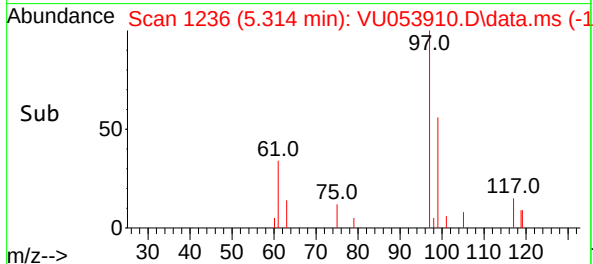
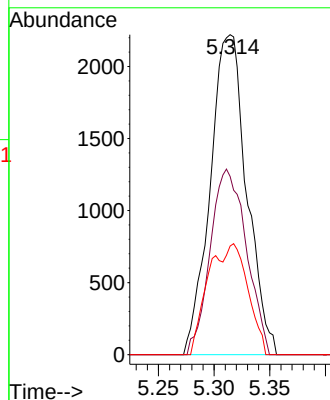
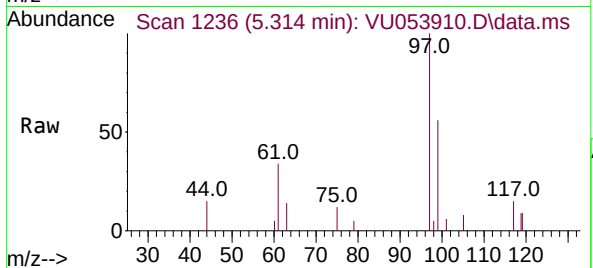




#29  
1,1,1-Trichloroethane  
Concen: 0.342 ug/L  
RT: 5.314 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU053910.D  
Acq: 26 Apr 2023 13:43

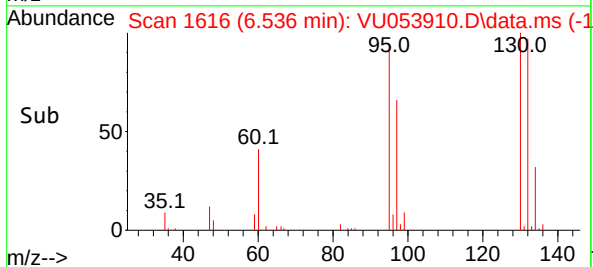
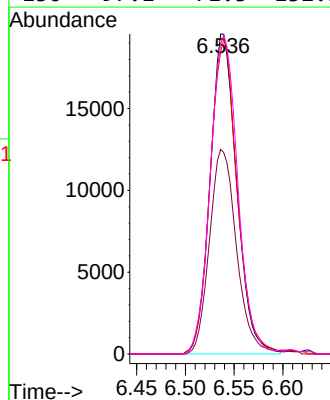
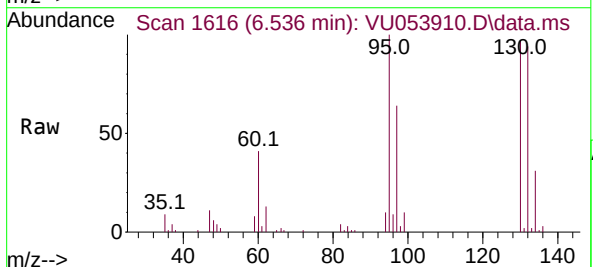
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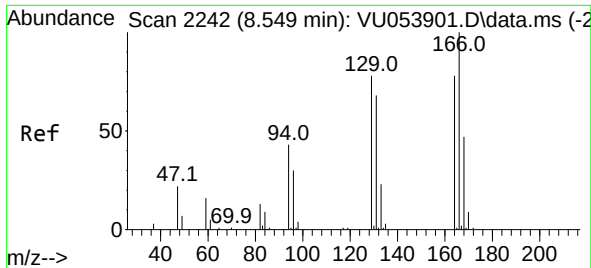
Tgt Ion: 97 Resp: 5074  
Ion Ratio Lower Upper  
97 100  
99 57.4 52.9 79.3  
61 21.1 33.8 50.8#



#34  
Trichloroethene  
Concen: 3.657 ug/L  
RT: 6.536 min Scan# 1616  
Delta R.T. -0.003 min  
Lab File: VU053910.D  
Acq: 26 Apr 2023 13:43

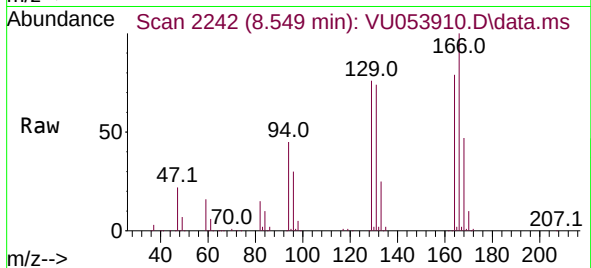
Tgt Ion: 95 Resp: 37120  
Ion Ratio Lower Upper  
95 100  
97 63.9 45.1 83.9  
132 94.4 69.9 129.9  
130 97.1 71.3 132.3





#47  
 Tetrachloroethene  
 Concen: 25.858 ug/L  
 RT: 8.549 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VU053910.D  
 Acq: 26 Apr 2023 13:43

Instrument :  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 208009 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 97.2  | 68.3  | 126.8  |
| 131      | 94.4  | 64.4  | 119.6  |
| 166      | 127.3 | 88.3  | 163.9  |

