

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011623\  
 Data File : VU052710.D  
 Acq On : 16 Jan 2023 18:54  
 Operator : JC/MD  
 Sample : 01138-09  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BH1X2

Quant Time: Jan 17 05:35:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR011023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jan 11 00:53:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.246  | 114   | 29810    | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 29658    | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 12809    | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 8450     | 3.226    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 64.600%   |
| 7) Chloroethane-d5            | 1.915  | 69    | 8956     | 4.198    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 84.000%   |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65    | 4904     | 4.252    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 85.000%   |
| 20) 2-Butanone-d5             | 4.632  | 46    | 80809    | 115.401  | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 230.800%# |
| 24) Chloroform-d              | 5.060  | 84    | 23766    | 4.865    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 97.200%   |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 16316    | 6.504    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 130.000%  |
| 32) Benzene-d6                | 5.726  | 84    | 44028    | 4.580    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.600%   |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 16029    | 5.004    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 100.000%  |
| 41) Toluene-d8                | 7.896  | 98    | 33291    | 3.928    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 78.600%   |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 5783     | 4.854    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 97.000%   |
| 46) 2-Hexanone-d5             | 8.629  | 63    | 46099    | 93.158   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 186.320%# |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 21659    | 8.831    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 176.600%# |
| 66) 1,2-Dichlorobenzene-d4    | 12.188 | 152   | 13195    | 5.659    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 113.200%  |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 3) Chloromethane              | 1.517  | 50    | 3198     | 0.822    | ug/L # | 69        |
| 5) Vinyl chloride             | 1.604  | 62    | 3936     | 1.058    | ug/L # | 1         |
| 8) Chloroethane               | 2.022  | 64    | 1596     | 0.705    | ug/L # | 52        |
| 12) 1,1-Dichloroethene        | 2.581  | 96    | 45795    | 17.719   | ug/L # | 75        |
| 13) Acetone                   | 2.655  | 43    | 2776     | 5.528    | ug/L   | 80        |
| 14) Carbon disulfide          | 2.793  | 76    | 3328     | 0.373    | ug/L # | 93        |
| 16) Methylene chloride        | 3.047  | 84    | 3996     | 1.162    | ug/L   | 88        |
| 17) Methyl tert-butyl Ether   | 3.362  | 73    | 2331     | 0.408    | ug/L   | 97        |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 64991    | 11.874   | ug/L   | 98        |
| 22) cis-1,2-Dichloroethene    | 4.661  | 96    | 1755     | 0.620    | ug/L   | 92        |
| 25) Chloroform                | 5.083  | 83    | 3907     | 0.726    | ug/L   | 92        |
| 27) 1,2-Dichloroethane        | 5.796  | 62    | 1349     | 0.414    | ug/L # | 74        |
| 29) 1,1,1-Trichloroethane     | 5.311  | 97    | 5715     | 1.228    | ug/L   | 97        |
| 31) Carbon tetrachloride      | 5.311  | 117   | 666      | 0.183    | ug/L   | 90        |
| 33) Benzene                   | 5.771  | 78    | 2029     | 0.173    | ug/L   | 100       |
| 34) Trichloroethene           | 6.539  | 95    | 49270    | 17.744   | ug/L   | 97        |
| 35) Methylcyclohexane         | 6.687  | 83    | 3846     | 0.839    | ug/L # | 15        |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97    | 537      | 0.271    | ug/L   | 91        |
| 47) Tetrachloroethene         | 8.549  | 164   | 816      | 0.399    | ug/L   | 82        |

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Sample : 01138-09  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

Quant Time: Jan 17 05:35:10 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR011023WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Jan 11 00:53:59 2023  
Response via : Initial Calibration

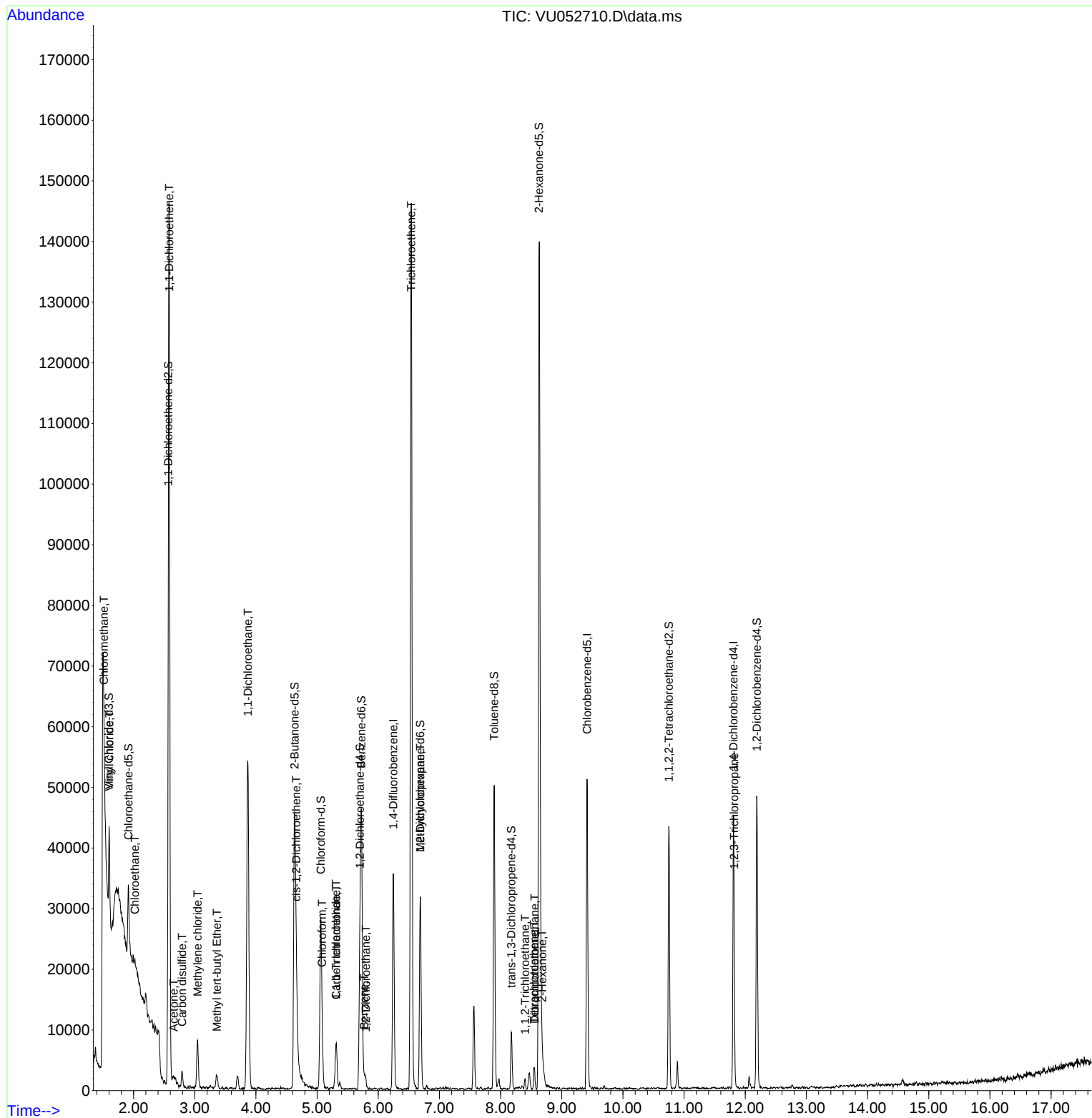
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 48) 2-Hexanone             | 8.684  | 43   | 2297     | 1.741 | ug/L # | 37       |
| 49) Dibromochloromethane   | 8.555  | 129  | 914      | 0.399 | ug/L # | 11       |
| 61) 1,2,3-Trichloropropane | 11.819 | 75   | 1512     | 1.016 | ug/L # | 67       |

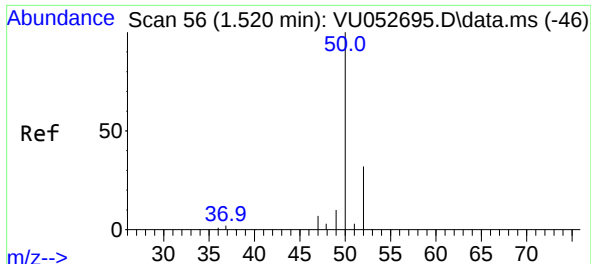
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011623\  
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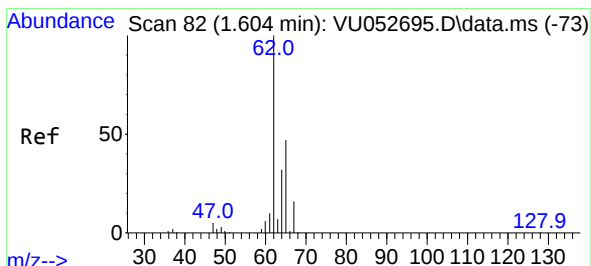
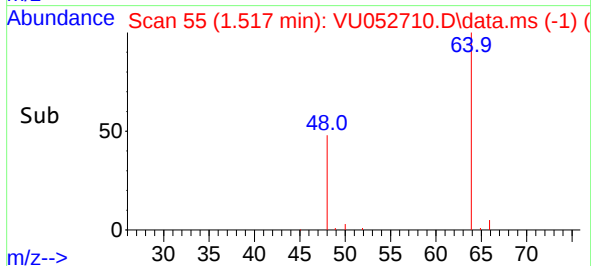
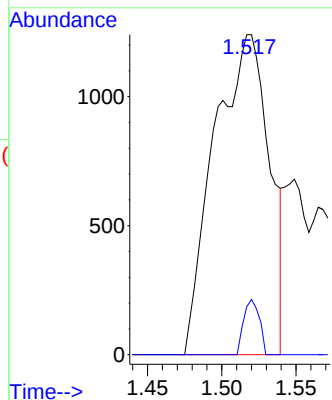
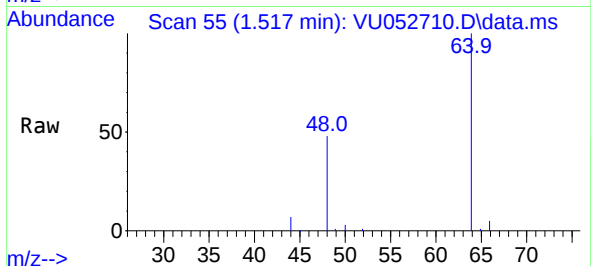




#3  
Chloromethane  
Concen: 0.822 ug/L  
RT: 1.517 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

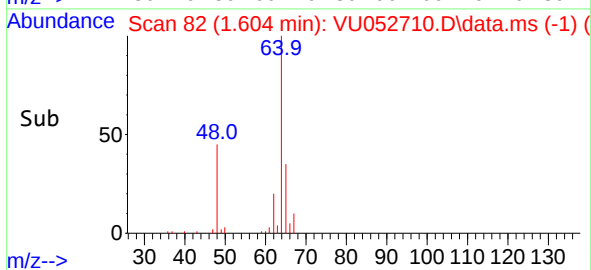
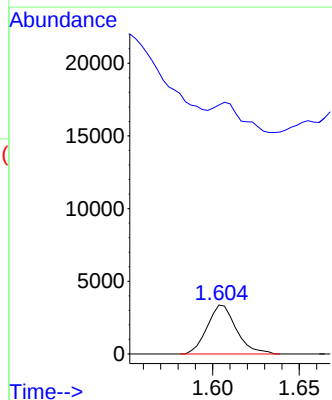
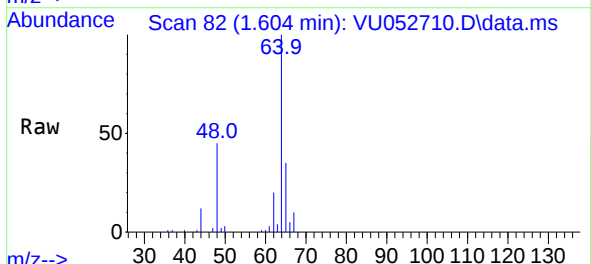
Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

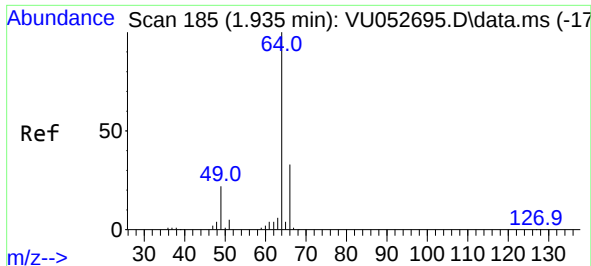
Tgt Ion: 50 Resp: 3198  
Ion Ratio Lower Upper  
50 100  
52 15.0 22.7 42.3#



#5  
Vinyl chloride  
Concen: 1.058 ug/L  
RT: 1.604 min Scan# 82  
Delta R.T. -0.000 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Tgt Ion: 62 Resp: 3936  
Ion Ratio Lower Upper  
62 100  
64 508.4 22.3 41.3#

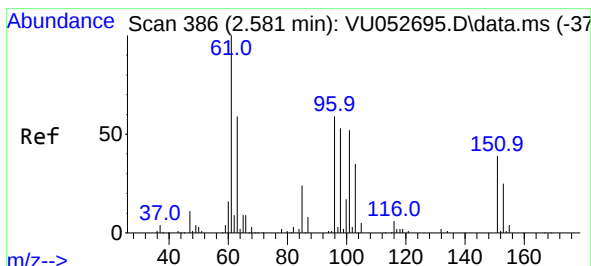
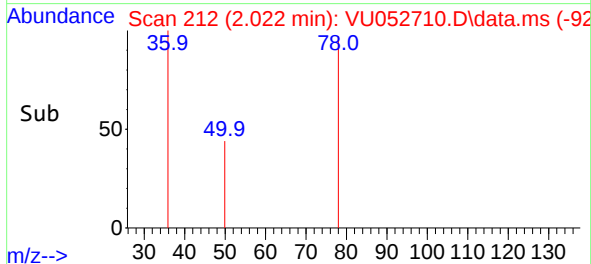
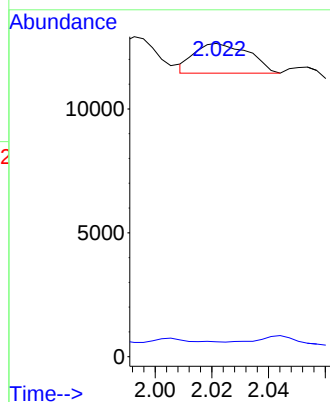
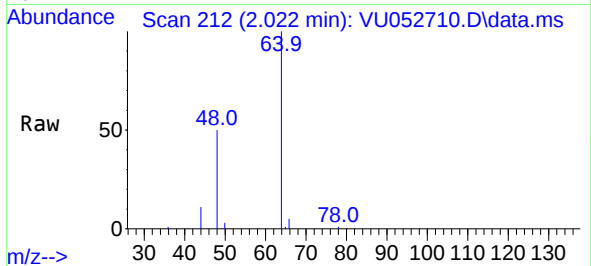




#8  
Chloroethane  
Concen: 0.705 ug/L  
RT: 2.022 min Scan# 212  
Delta R.T. 0.087 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

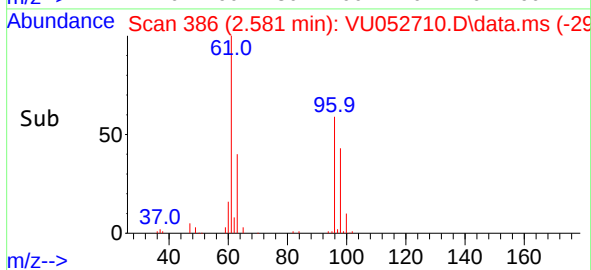
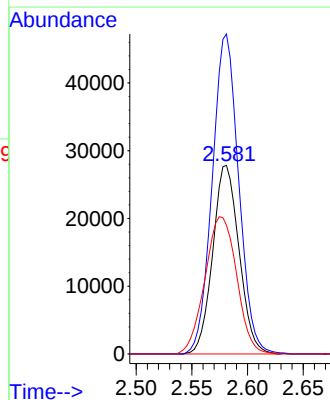
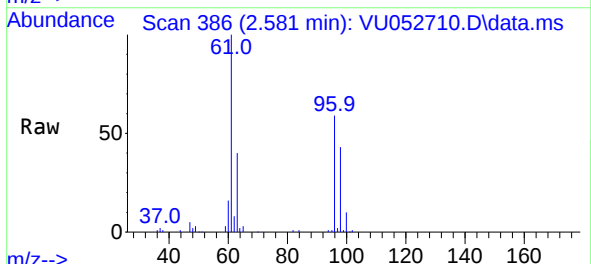
Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

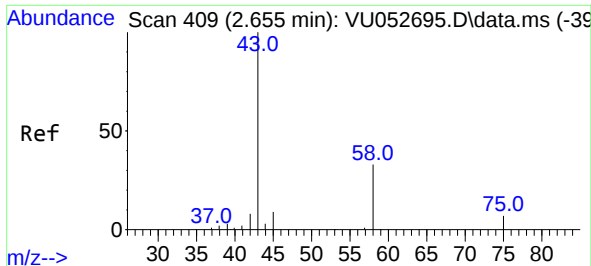
Tgt Ion: 64 Resp: 1596  
Ion Ratio Lower Upper  
64 100  
66 4.8 21.6 40.2#



#12  
1,1-Dichloroethene  
Concen: 17.719 ug/L  
RT: 2.581 min Scan# 386  
Delta R.T. -0.000 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Tgt Ion: 96 Resp: 45795  
Ion Ratio Lower Upper  
96 100  
61 169.7 129.6 240.8  
63 68.3 83.7 155.5#





#13

Acetone

Concen: 5.528 ug/L

RT: 2.655 min Scan# 409

Delta R.T. -0.007 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

Instrument :

MSVOA\_U

ClientSampleId :

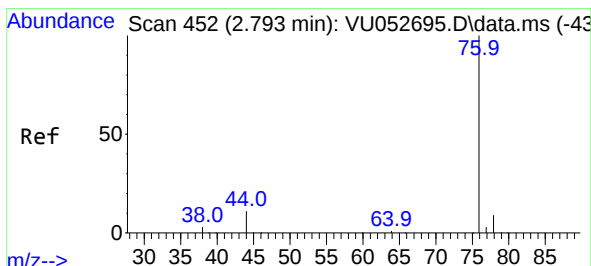
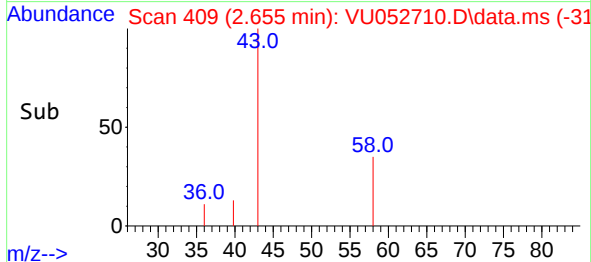
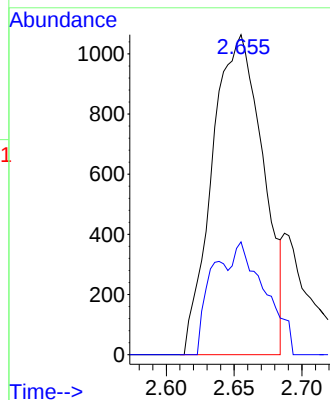
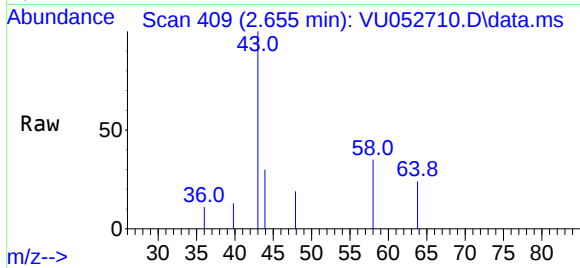
BH1X2

Tgt Ion: 43 Resp: 2776

Ion Ratio Lower Upper

43 100

58 22.8 0.0 68.8



#14

Carbon disulfide

Concen: 0.373 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.000 min

Lab File: VU052710.D

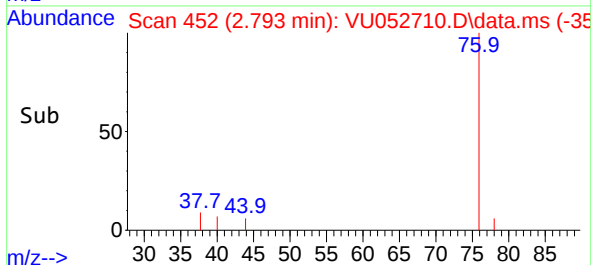
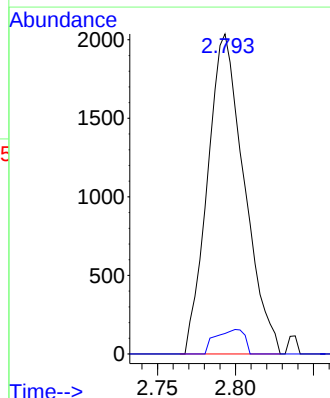
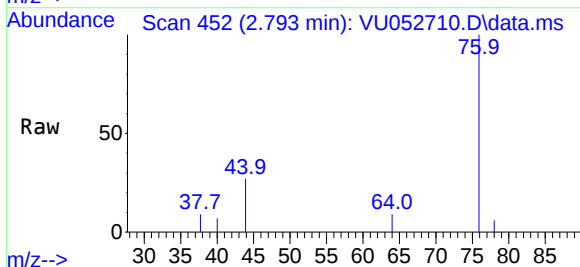
Acq: 16 Jan 2023 18:54

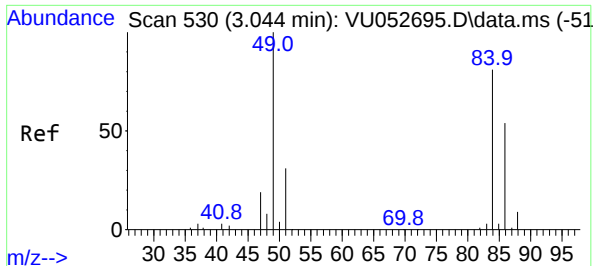
Tgt Ion: 76 Resp: 3328

Ion Ratio Lower Upper

76 100

78 6.4 7.0 10.6#

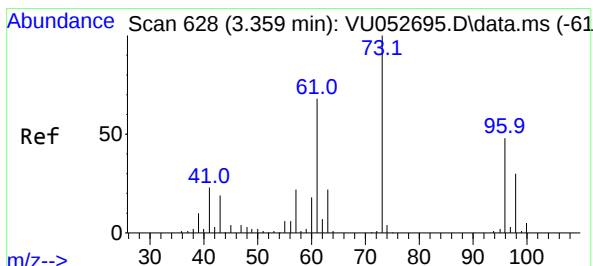
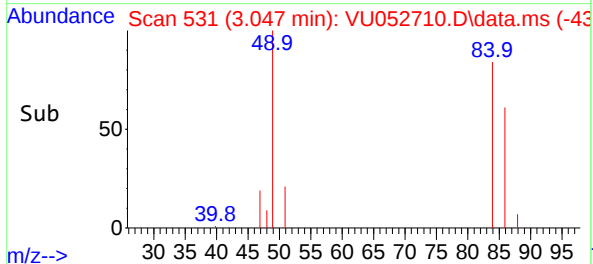
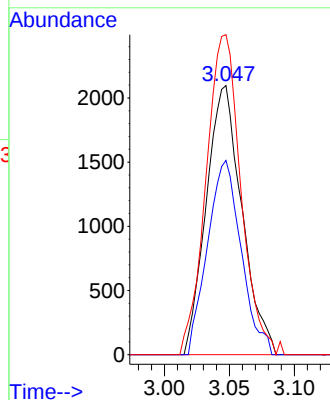
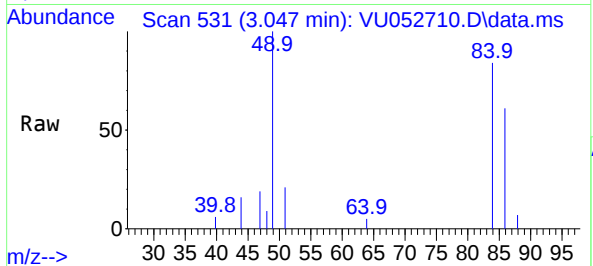




#16  
Methylene chloride  
Concen: 1.162 ug/L  
RT: 3.047 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

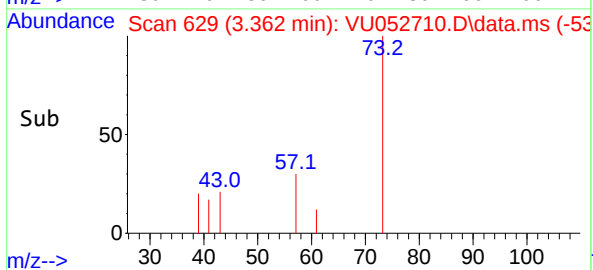
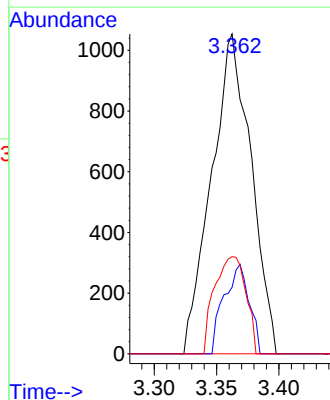
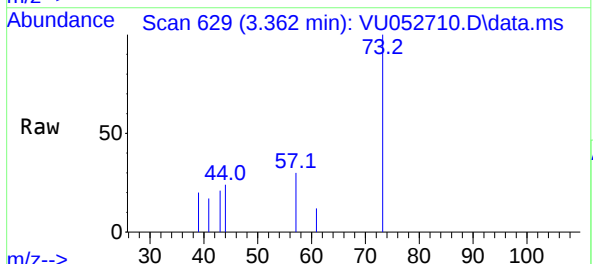
Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

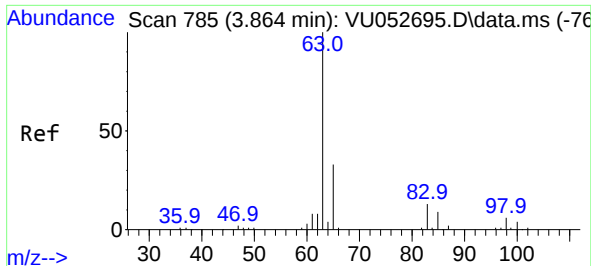
Tgt Ion: 84 Resp: 3996  
Ion Ratio Lower Upper  
84 100  
86 72.2 45.6 84.6  
49 118.9 94.8 176.0



#17  
Methyl tert-butyl Ether  
Concen: 0.408 ug/L  
RT: 3.362 min Scan# 629  
Delta R.T. 0.003 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Tgt Ion: 73 Resp: 2331  
Ion Ratio Lower Upper  
73 100  
43 17.8 15.8 23.8  
57 23.9 18.6 28.0





#19

1,1-Dichloroethane

Concen: 11.874 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

Instrument :

MSVOA\_U

ClientSampleId :

BH1X2

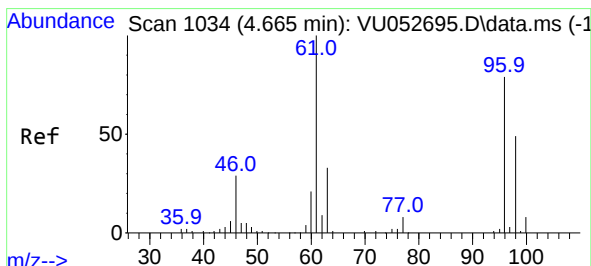
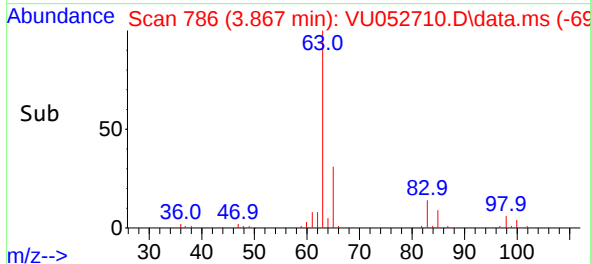
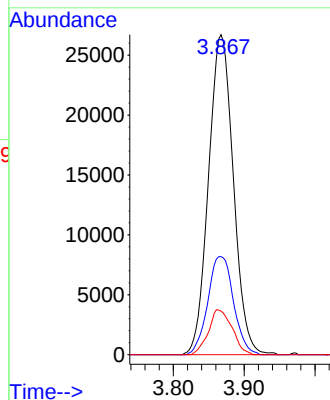
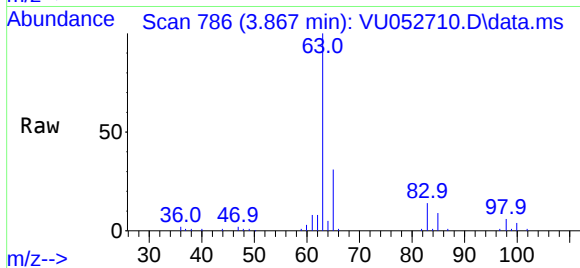
Tgt Ion: 63 Resp: 64991

Ion Ratio Lower Upper

63 100

65 30.6 22.0 41.0

83 13.6 8.9 16.5



#22

cis-1,2-Dichloroethene

Concen: 0.620 ug/L

RT: 4.661 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

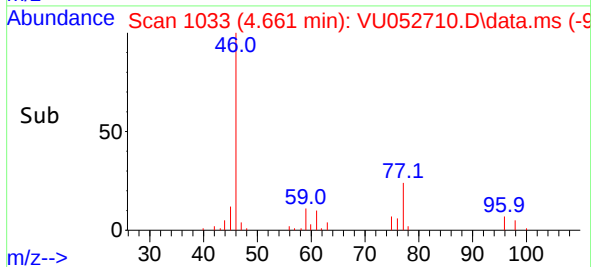
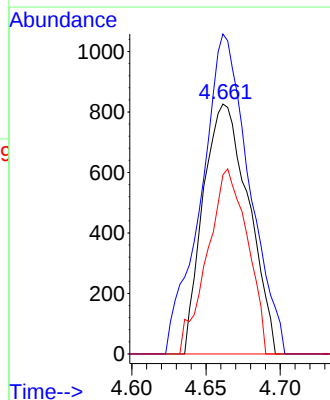
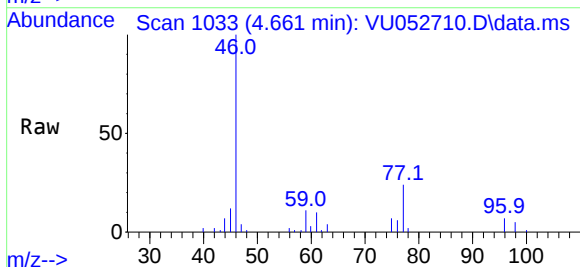
Tgt Ion: 96 Resp: 1755

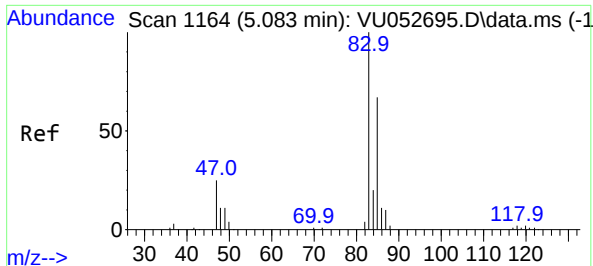
Ion Ratio Lower Upper

96 100

61 128.1 94.6 175.8

98 71.7 43.3 80.3

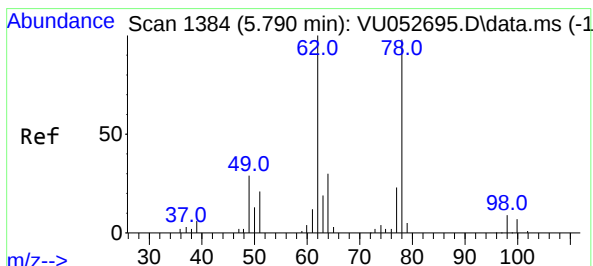
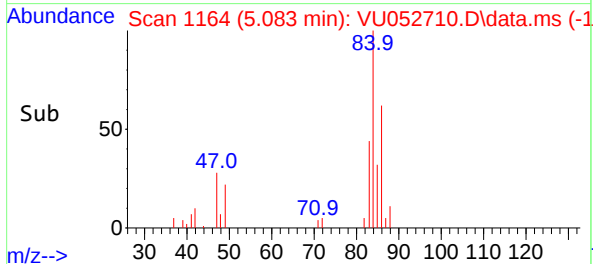
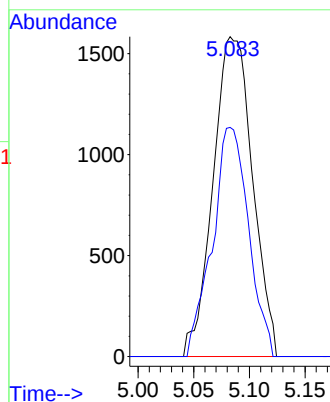
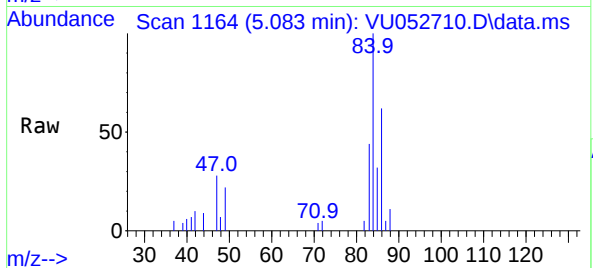




#25  
Chloroform  
Concen: 0.726 ug/L  
RT: 5.083 min Scan# 1164  
Delta R.T. -0.000 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

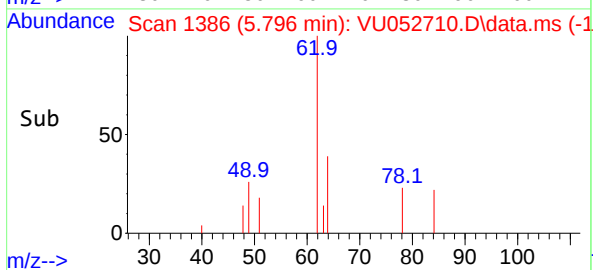
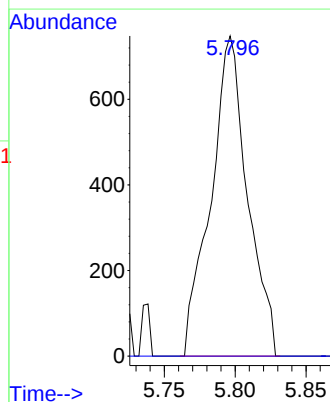
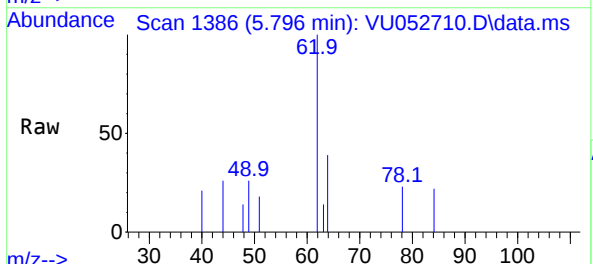
Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

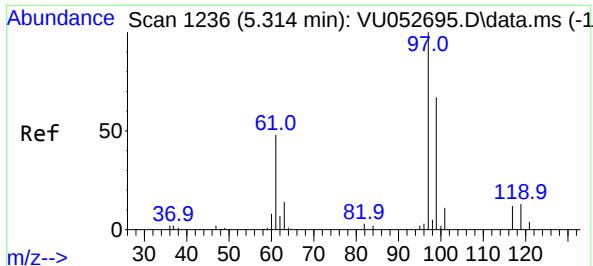
Tgt Ion: 83 Resp: 3907  
Ion Ratio Lower Upper  
83 100  
85 71.7 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 0.414 ug/L  
RT: 5.796 min Scan# 1386  
Delta R.T. 0.006 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Tgt Ion: 62 Resp: 1349  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.5 11.3#





#29

1,1,1-Trichloroethane

Concen: 1.228 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.000 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

Instrument :

MSVOA\_U

ClientSampleId :

BH1X2

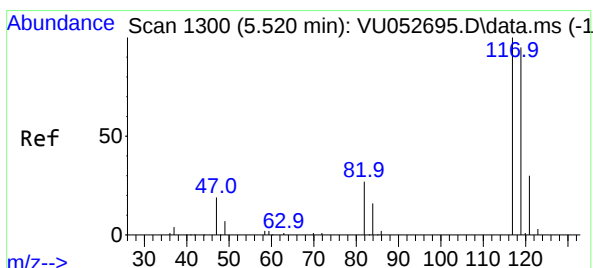
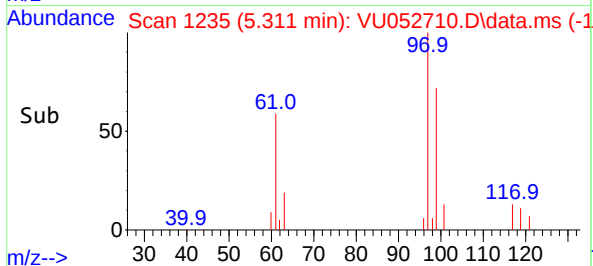
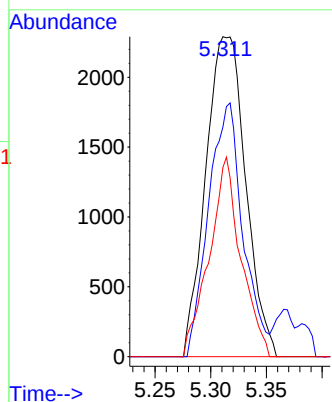
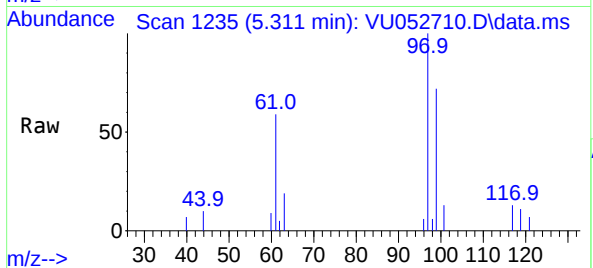
Tgt Ion: 97 Resp: 5715

Ion Ratio Lower Upper

97 100

99 68.5 52.4 78.6

61 49.4 38.5 57.7



#31

Carbon tetrachloride

Concen: 0.183 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.212 min

Lab File: VU052710.D

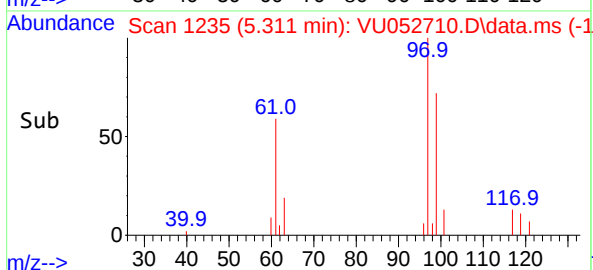
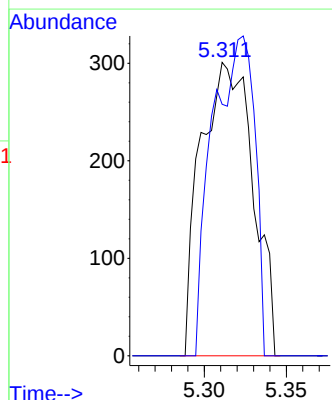
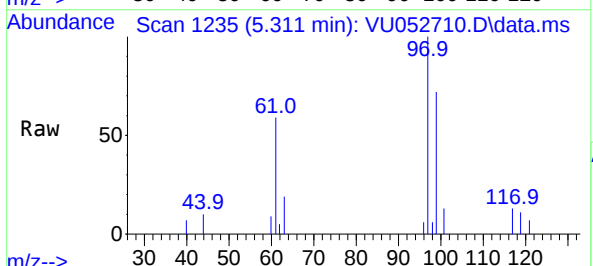
Acq: 16 Jan 2023 18:54

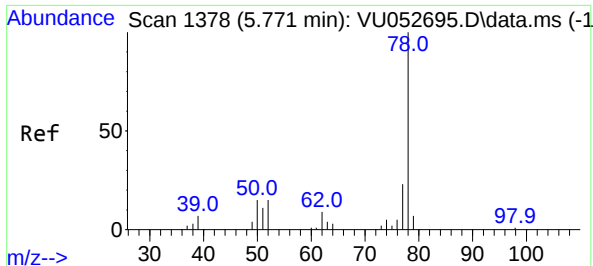
Tgt Ion: 117 Resp: 666

Ion Ratio Lower Upper

117 100

119 87.7 77.8 116.8





Benzene

Concen: 0.173 ug/L

RT: 5.771 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

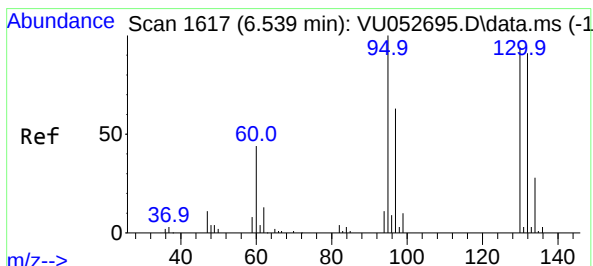
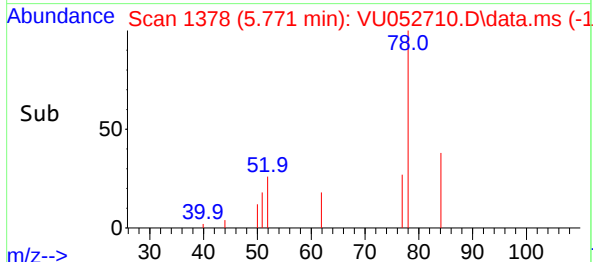
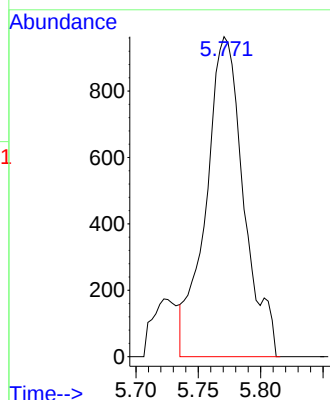
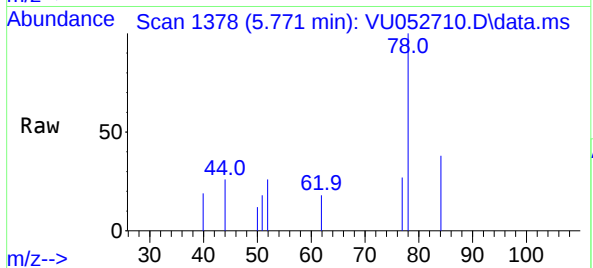
Instrument :

MSVOA\_U

ClientSampleId :

BH1X2

Tgt Ion: 78 Resp: 2029



Trichloroethene

Concen: 17.744 ug/L

RT: 6.539 min Scan# 1617

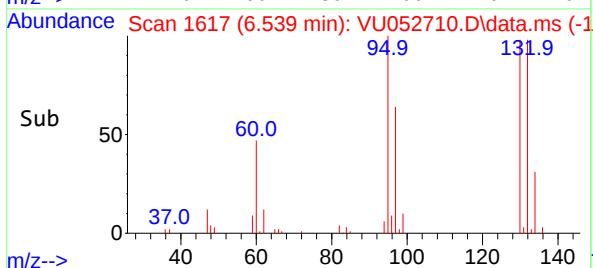
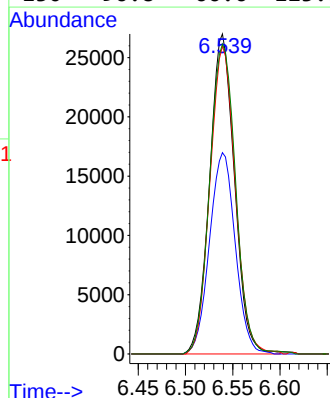
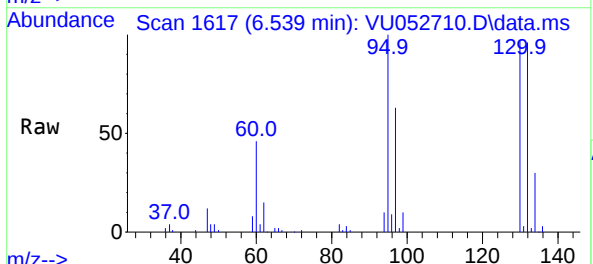
Delta R.T. -0.000 min

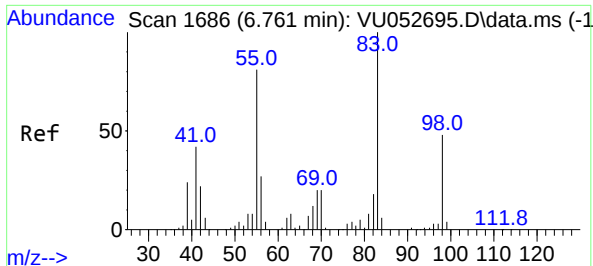
Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

Tgt Ion: 95 Resp: 49270

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.9  | 46.0  | 85.4  |
| 132 | 96.2  | 64.0  | 118.8 |
| 130 | 96.8  | 66.6  | 123.8 |





#35

Methylcyclohexane

Concen: 0.839 ug/L

RT: 6.687 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

Instrument :

MSVOA\_U

ClientSampleId :

BH1X2

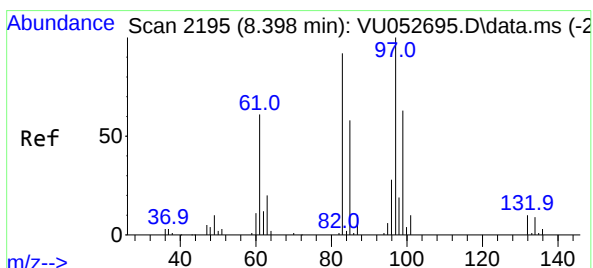
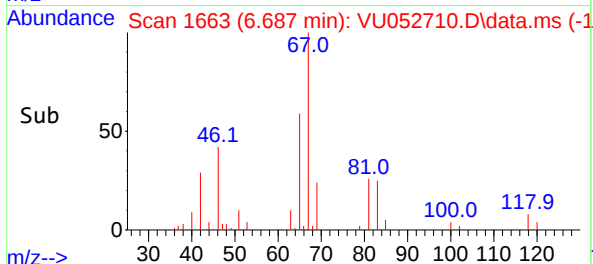
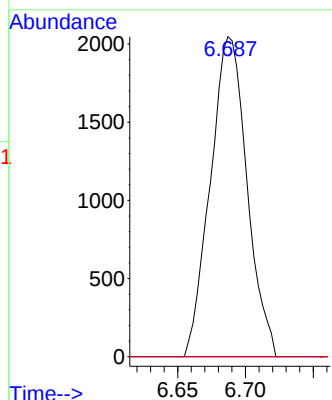
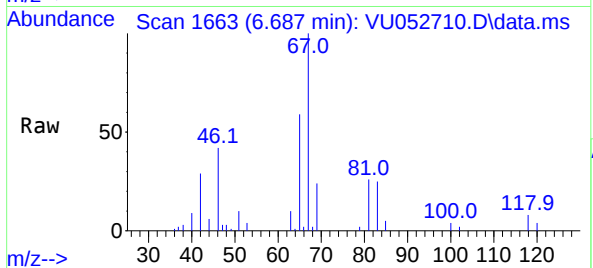
Tgt Ion: 83 Resp: 3846

Ion Ratio Lower Upper

83 100

55 0.0 67.6 101.4#

98 0.0 37.1 55.7#



#45

1,1,2-Trichloroethane

Concen: 0.271 ug/L

RT: 8.401 min Scan# 2196

Delta R.T. 0.006 min

Lab File: VU052710.D

Acq: 16 Jan 2023 18:54

Tgt Ion: 97 Resp: 537

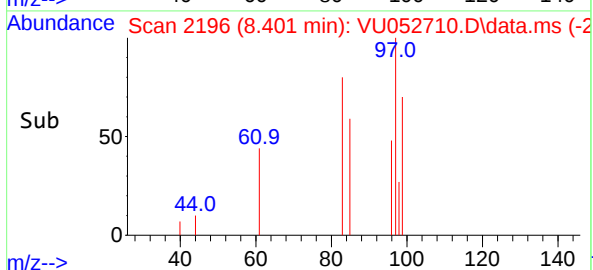
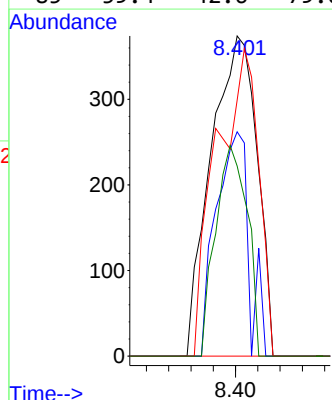
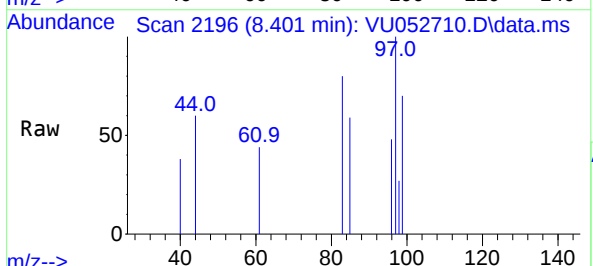
Ion Ratio Lower Upper

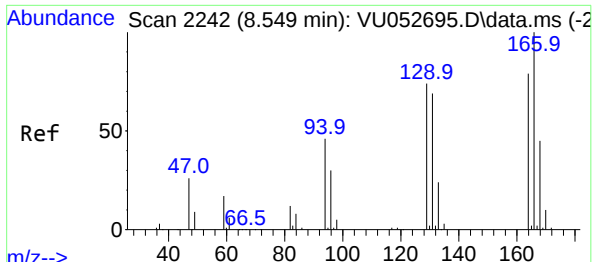
97 100

99 70.1 44.8 83.2

83 79.9 65.3 121.3

85 59.4 42.6 79.0



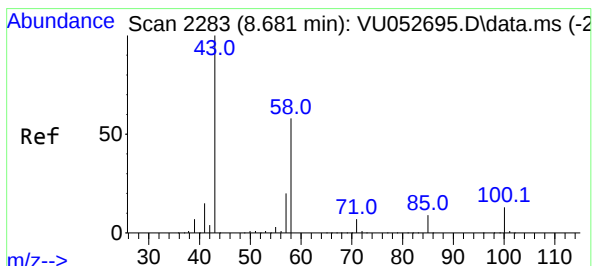
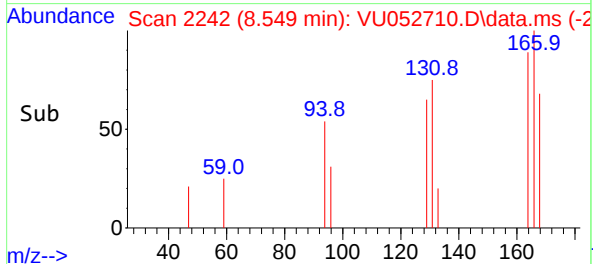
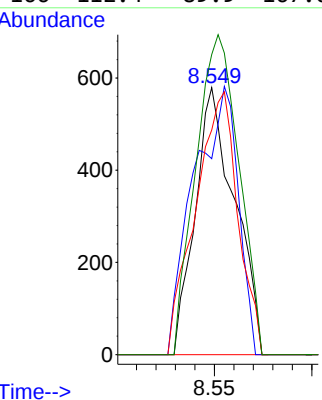
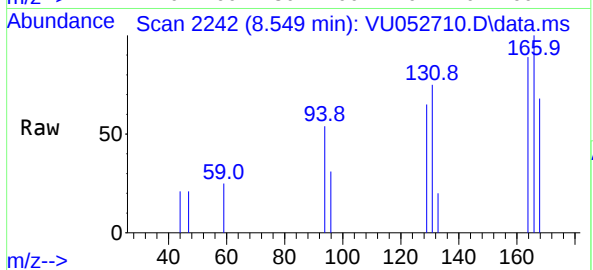


#47  
Tetrachloroethene  
Concen: 0.399 ug/L  
RT: 8.549 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

Tgt Ion:164 Resp: 816

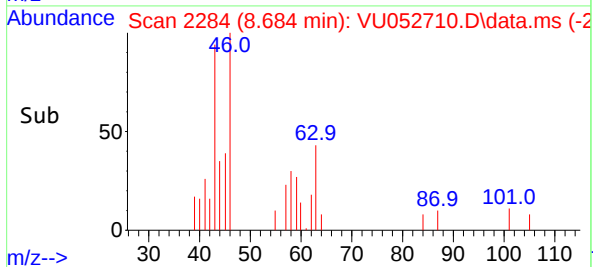
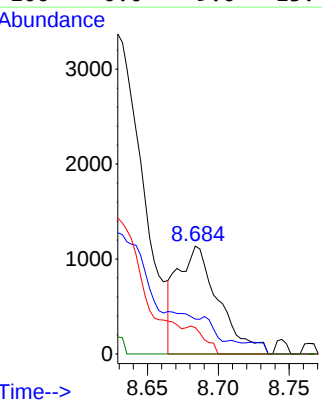
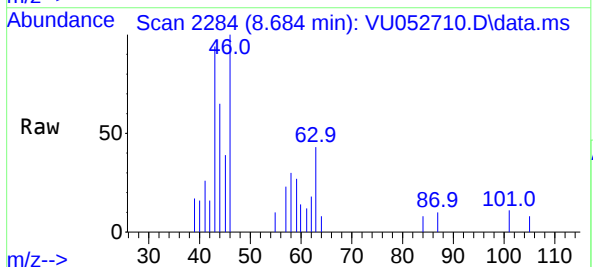
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 73.4  | 71.8  | 133.4 |
| 131 | 84.1  | 66.6  | 123.6 |
| 166 | 112.4 | 89.9  | 167.0 |

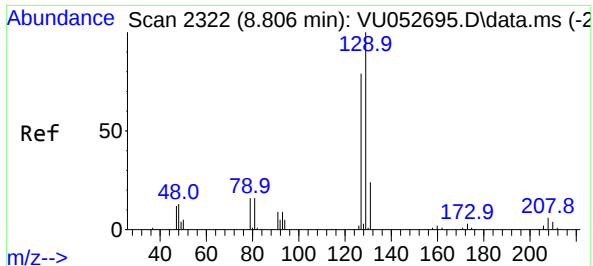


#48  
2-Hexanone  
Concen: 1.741 ug/L  
RT: 8.684 min Scan# 2284  
Delta R.T. 0.003 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Tgt Ion: 43 Resp: 2297

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 0.0   | 45.1  | 67.7# |
| 57  | 0.0   | 15.1  | 22.7# |
| 100 | 0.0   | 9.0   | 13.4# |

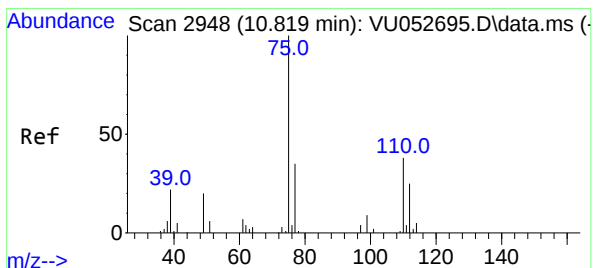
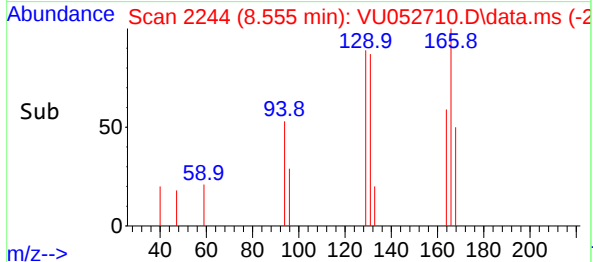
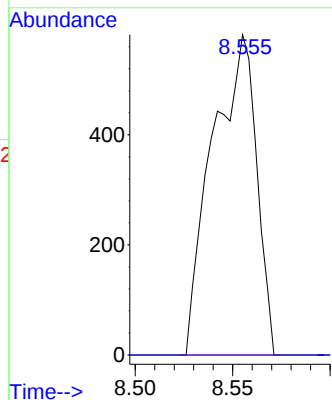
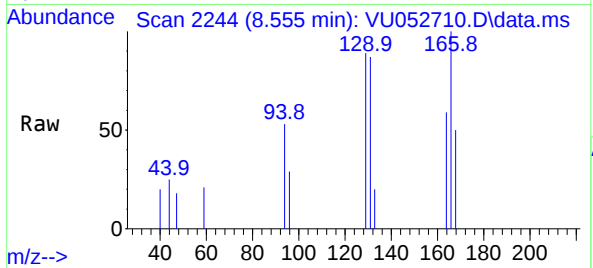




#49  
Dibromochloromethane  
Concen: 0.399 ug/L  
RT: 8.555 min Scan# 21  
Delta R.T. -0.251 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Instrument :  
MSVOA\_U  
ClientSampleId :  
BH1X2

Tgt Ion:129 Resp: 914  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.5 99.5#



#61  
1,2,3-Trichloropropane  
Concen: 1.016 ug/L  
RT: 11.819 min Scan# 3259  
Delta R.T. 1.000 min  
Lab File: VU052710.D  
Acq: 16 Jan 2023 18:54

Tgt Ion: 75 Resp: 1512  
Ion Ratio Lower Upper  
75 100  
110 0.0 27.2 40.8#  
77 31.9 24.0 36.0

