

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW041023\  
 Data File : VW030474.D  
 Acq On : 10 Apr 2023 17:48  
 Operator : SY/MD  
 Sample : 02254-03  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AA2

Quant Time: Apr 11 06:31:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR032323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Apr 11 06:24:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)   |
|-------------------------------|--------|-------|----------|----------|--------|------------|
| -----                         |        |       |          |          |        |            |
| Internal Standards            |        |       |          |          |        |            |
| 1) 1,4-Difluorobenzene        | 5.545  | 114   | 118777   | 5.000    | ug/L   | 0.00       |
| 28) Chlorobenzene-d5          | 8.792  | 117   | 113731   | 5.000    | ug/L   | 0.00       |
| 58) 1,4-Dichlorobenzene-d4    | 11.194 | 152   | 56011    | 5.000    | ug/L   | 0.00       |
|                               |        |       |          |          |        |            |
| System Monitoring Compounds   |        |       |          |          |        |            |
| 4) Vinyl Chloride-d3          | 1.282  | 65    | 26446    | 3.362    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 67.200%    |
| 7) Chloroethane-d5            | 1.536  | 69    | 30648    | 4.015    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 80.200%    |
| 11) 1,1-Dichloroethene-d2     | 2.072  | 63    | 2049563  | 109.796  | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 2196.000%# |
| 20) 2-Butanone-d5             | 3.815  | 46    | 86778    | 42.679   | ug/L   | -0.01      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 85.360%    |
| 24) Chloroform-d              | 4.262  | 84    | 83176    | 4.369    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.400%    |
| 26) 1,2-Dichloroethane-d4     | 4.953  | 65    | 41796    | 4.653    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 93.000%    |
| 32) Benzene-d6                | 4.969  | 84    | 147400   | 4.599    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 92.000%    |
| 36) 1,2-Dichloropropane-d6    | 5.998  | 67    | 46241    | 4.609    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 92.200%    |
| 41) Toluene-d8                | 7.252  | 98    | 120108   | 4.081    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 81.600%    |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 15366    | 4.068    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 81.400%    |
| 46) 2-Hexanone-d5             | 8.034  | 63    | 63536    | 41.855   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 83.700%    |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162 | 84    | 33974    | 4.296    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 86.000%    |
| 66) 1,2-Dichlorobenzene-d4    | 11.570 | 152   | 50582    | 5.053    | ug/L   | 0.00       |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 101.000%   |
|                               |        |       |          |          |        |            |
| Target Compounds              |        |       |          |          |        | Qvalue     |
| 3) Chloromethane              | 1.217  | 50    | 2351     | 0.123    | ug/L   | 97         |
| 5) Vinyl chloride             | 1.285  | 62    | 5384     | 0.388    | ug/L   | 93         |
| 6) Bromomethane               | 1.500  | 94    | 443      | 0.112    | ug/L   | 82         |
| 8) Chloroethane               | 1.555  | 64    | 4439     | 0.558    | ug/L   | 99         |
| 9) Trichlorofluoromethane     | 1.719  | 101   | 4472     | 0.221    | ug/L   | 97         |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072  | 101   | 8437     | 0.755    | ug/L # | 32         |
| 12) 1,1-Dichloroethene        | 2.076  | 96    | 3426355  | 345.246  | ug/L # | 67         |
| 19) 1,1-Dichloroethane        | 3.121  | 63    | 1803000  | 88.954   | ug/L   | 98         |
| 27) 1,2-Dichloroethane        | 5.063  | 62    | 6718     | 0.542    | ug/L   | 95         |
| 29) 1,1,1-Trichloroethane     | 4.529  | 97    | 17530025 | 958.982  | ug/L   | 95         |
| 31) Carbon tetrachloride      | 4.529  | 117   | 2294601  | 138.343  | ug/L   | 99         |
| 34) Trichloroethene           | 5.841  | 95    | 67295    | 6.177    | ug/L   | 97         |
| 35) Methylcyclohexane         | 5.998  | 83    | 12256    | 0.717    | ug/L # | 17         |
| 37) 1,2-Dichloropropane       | 5.998  | 63    | 6116     | 0.590    | ug/L # | 85         |
| 45) 1,1,2-Trichloroethane     | 7.783  | 97    | 795      | 0.109    | ug/L # | 80         |
| 47) Tetrachloroethene         | 7.915  | 164   | 2474     | 0.257    | ug/L   | 88         |
| 49) Dibromochloromethane      | 7.915  | 129   | 2340     | 0.269    | ug/L # | 12         |
| 68) 1,2-Dibromo-3-chloropr... | 12.201 | 75    | 384      | 0.308    | ug/L # | 3          |
| -----                         |        |       |          |          |        |            |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV041023\  
Data File : VV030474.D  
Acq On : 10 Apr 2023 17:48  
Operator : SY/MD  
Sample : 02254-03  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 20 Sample Multiplier: 1

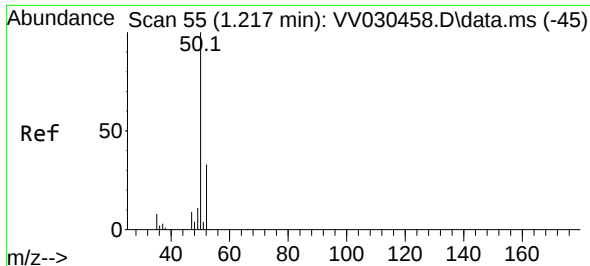
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA2

Quant Time: Apr 11 06:31:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR032323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Apr 11 06:24:59 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

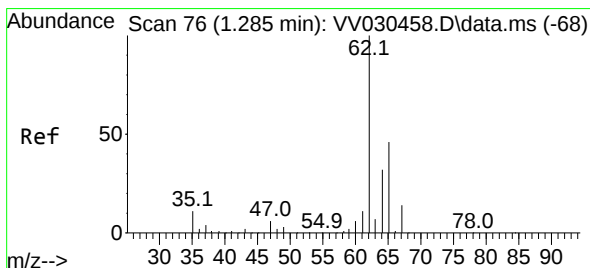
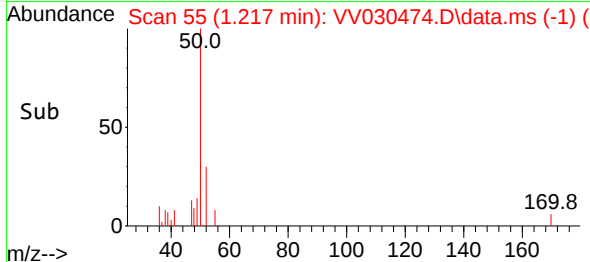
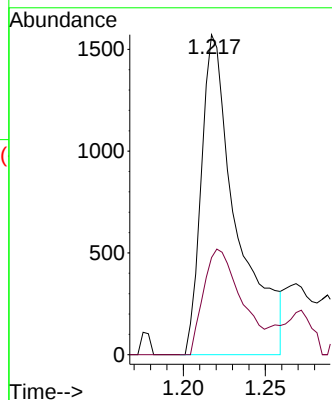
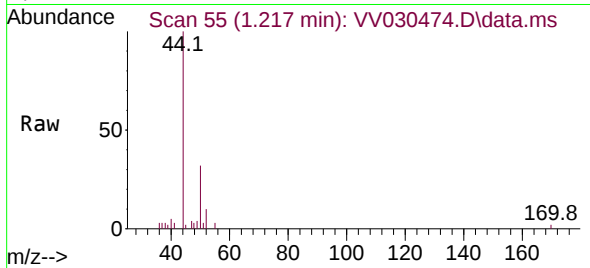




#3  
Chloromethane  
Concen: 0.123 ug/L  
RT: 1.217 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

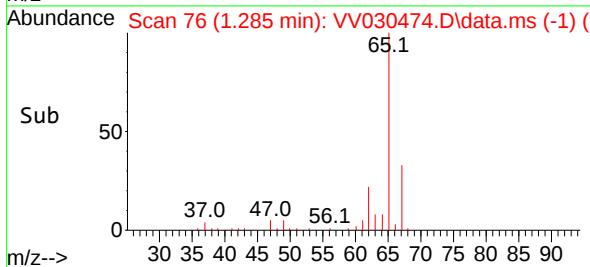
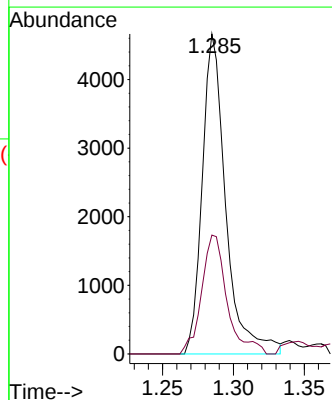
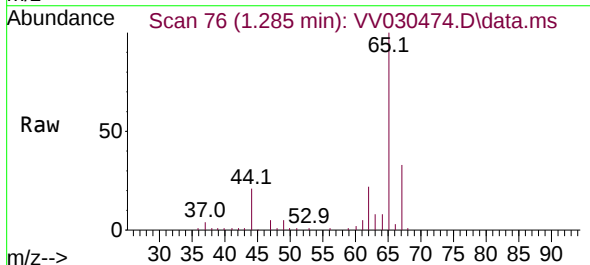
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA2

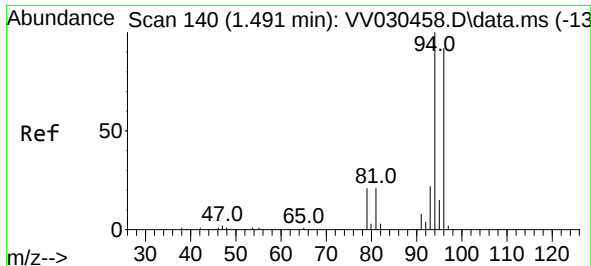
Tgt Ion: 50 Resp: 2351  
Ion Ratio Lower Upper  
50 100  
52 30.3 22.3 41.5



#5  
Vinyl chloride  
Concen: 0.388 ug/L  
RT: 1.285 min Scan# 76  
Delta R.T. 0.000 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

Tgt Ion: 62 Resp: 5384  
Ion Ratio Lower Upper  
62 100  
64 37.1 23.2 43.2

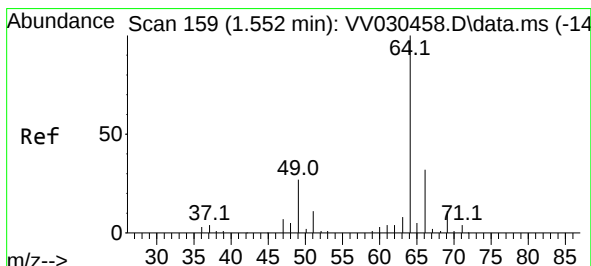
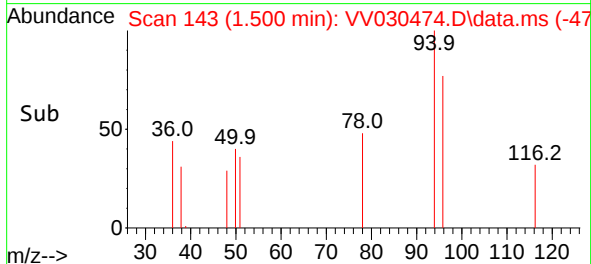
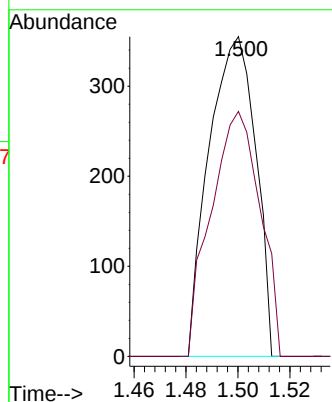
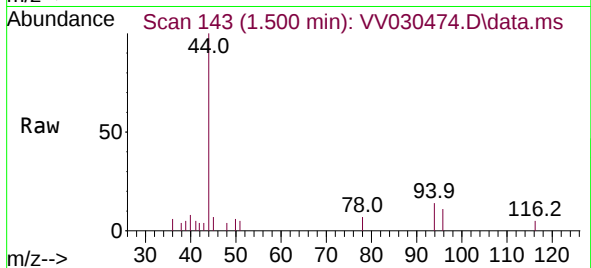




#6  
Bromomethane  
Concen: 0.112 ug/L  
RT: 1.500 min Scan# 14  
Delta R.T. 0.010 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

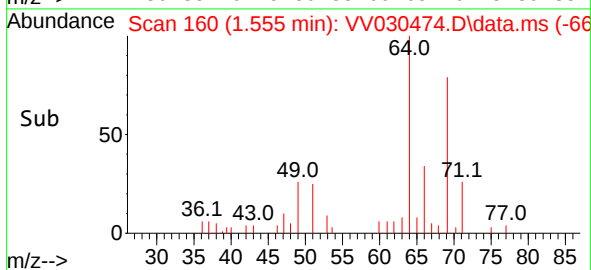
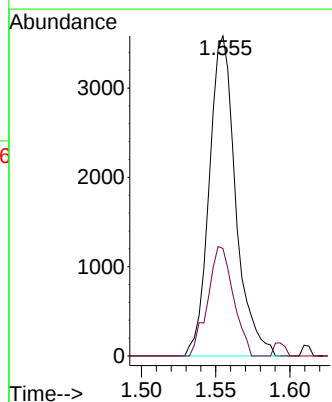
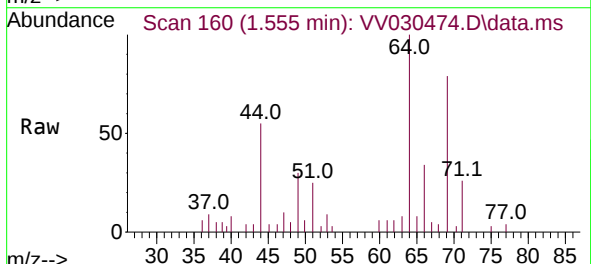
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA2

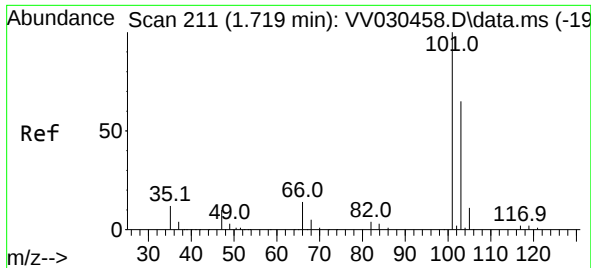
Tgt Ion: 94 Resp: 443  
Ion Ratio Lower Upper  
94 100  
96 76.6 66.1 122.7



#8  
Chloroethane  
Concen: 0.558 ug/L  
RT: 1.555 min Scan# 160  
Delta R.T. 0.003 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

Tgt Ion: 64 Resp: 4439  
Ion Ratio Lower Upper  
64 100  
66 33.6 23.0 42.8

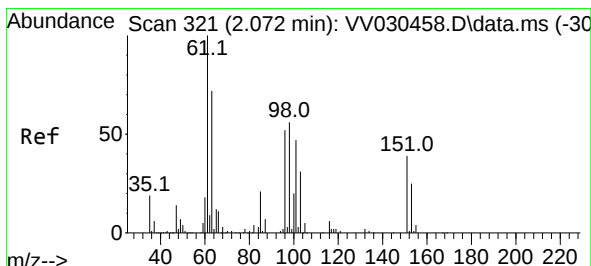
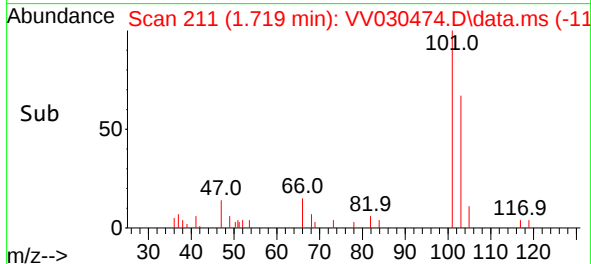
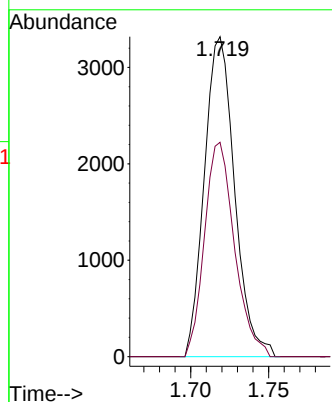
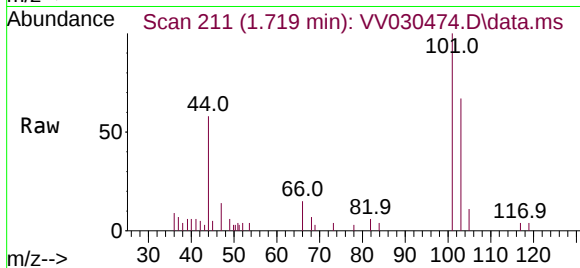




#9  
 Trichlorofluoromethane  
 Concen: 0.221 ug/L  
 RT: 1.719 min Scan# 211  
 Delta R.T. 0.000 min  
 Lab File: VV030474.D  
 Acq: 10 Apr 2023 17:48

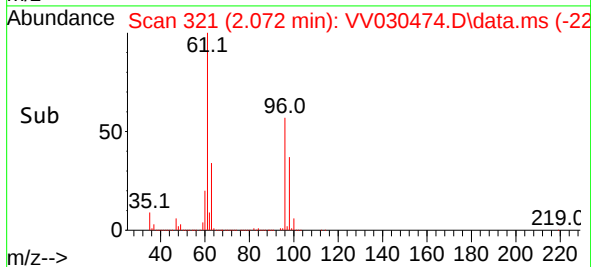
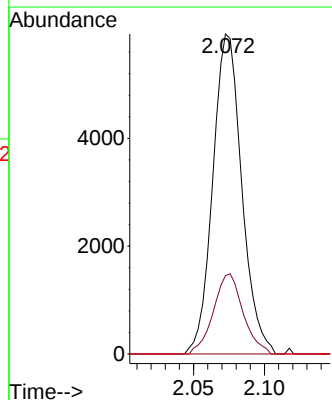
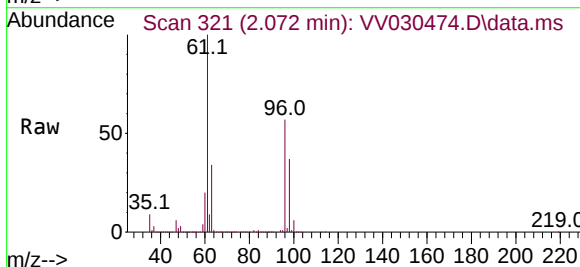
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AA2

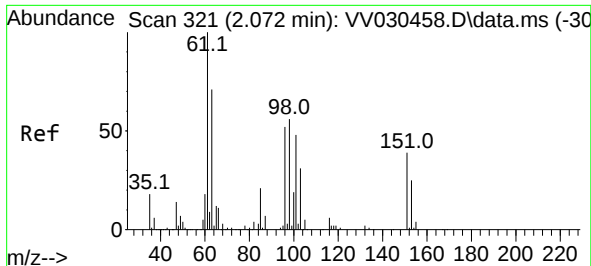
Tgt Ion:101 Resp: 4472  
 Ion Ratio Lower Upper  
 101 100  
 103 66.5 51.0 76.6



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.755 ug/L  
 RT: 2.072 min Scan# 321  
 Delta R.T. 0.000 min  
 Lab File: VV030474.D  
 Acq: 10 Apr 2023 17:48

Tgt Ion:101 Resp: 8437  
 Ion Ratio Lower Upper  
 101 100  
 85 25.7 38.1 57.1#  
 151 0.0 62.7 94.1#





#12

1,1-Dichloroethene

Concen: 345.246 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030474.D

Acq: 10 Apr 2023 17:48

Instrument :

MSVOA\_V

ClientSampleId :

C0AA2

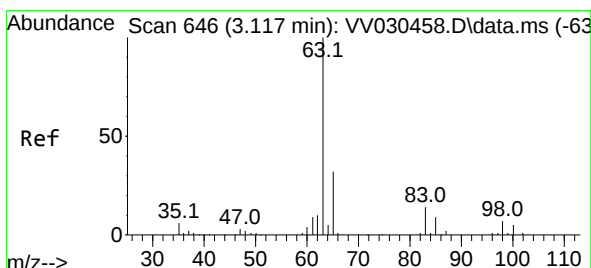
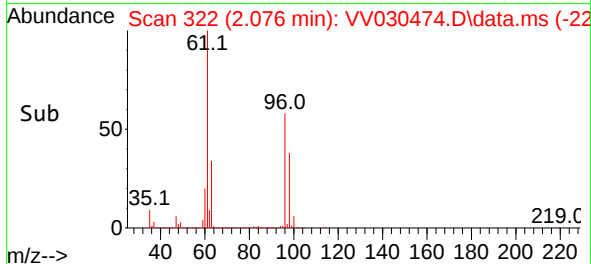
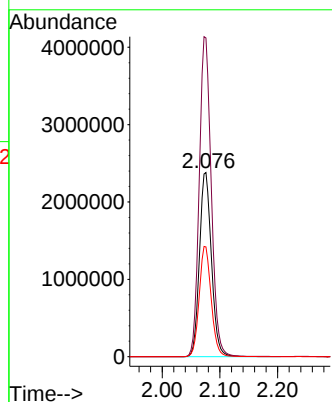
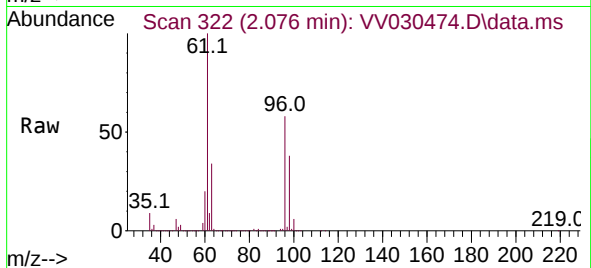
Tgt Ion: 96 Resp: 3426355

Ion Ratio Lower Upper

96 100

61 173.0 136.3 253.1

63 59.6 92.1 171.1#



#19

1,1-Dichloroethane

Concen: 88.954 ug/L

RT: 3.121 min Scan# 647

Delta R.T. 0.003 min

Lab File: VV030474.D

Acq: 10 Apr 2023 17:48

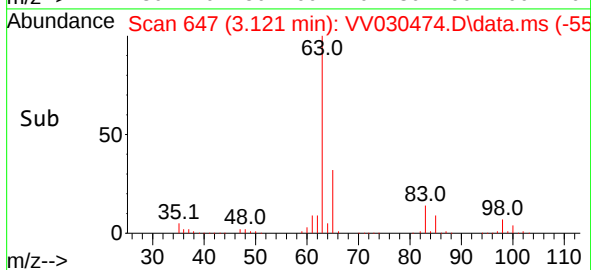
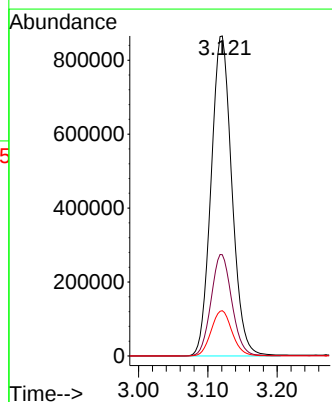
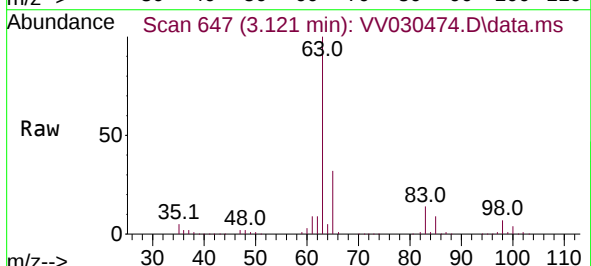
Tgt Ion: 63 Resp: 1803000

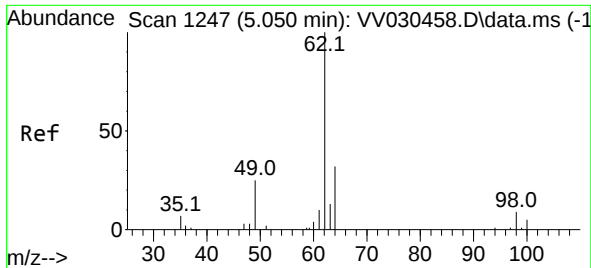
Ion Ratio Lower Upper

63 100

65 31.6 21.7 40.3

83 14.2 9.1 16.9





#27

1,2-Dichloroethane

Concen: 0.542 ug/L

RT: 5.063 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV030474.D

Acq: 10 Apr 2023 17:48

Instrument :

MSVOA\_V

ClientSampleId :

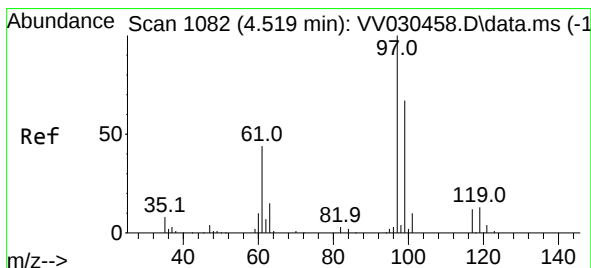
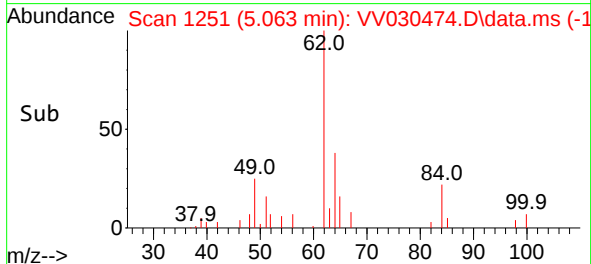
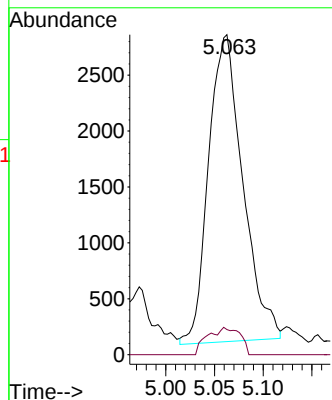
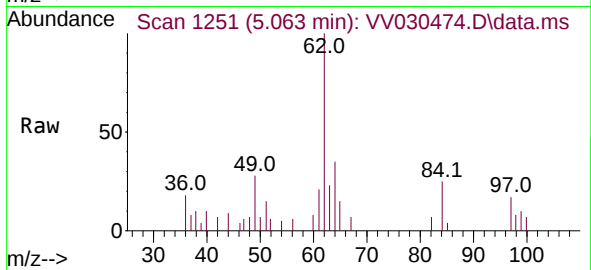
C0AA2

Tgt Ion: 62 Resp: 6718

Ion Ratio Lower Upper

62 100

98 7.9 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 958.982 ug/L

RT: 4.529 min Scan# 1085

Delta R.T. 0.010 min

Lab File: VV030474.D

Acq: 10 Apr 2023 17:48

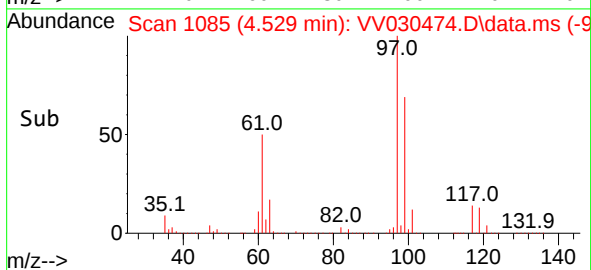
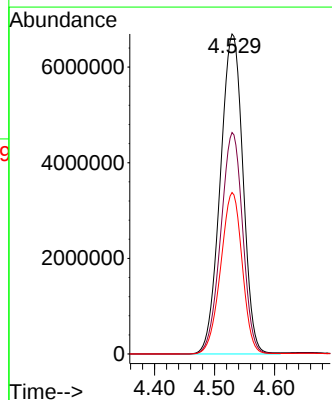
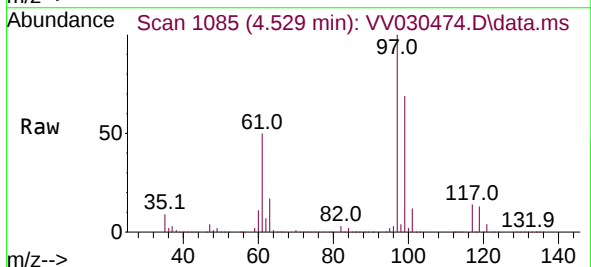
Tgt Ion: 97 Resp:17530025

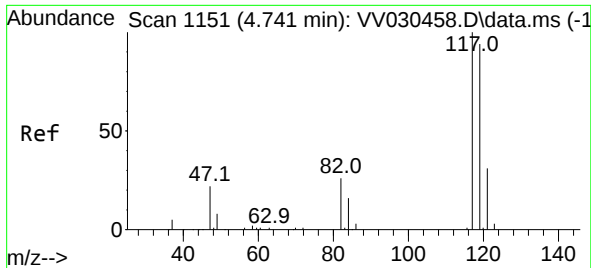
Ion Ratio Lower Upper

97 100

99 67.1 50.9 76.3

61 48.0 35.9 53.9

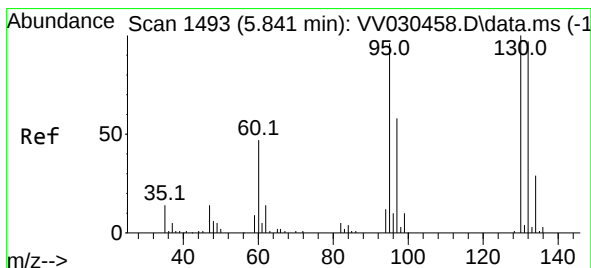
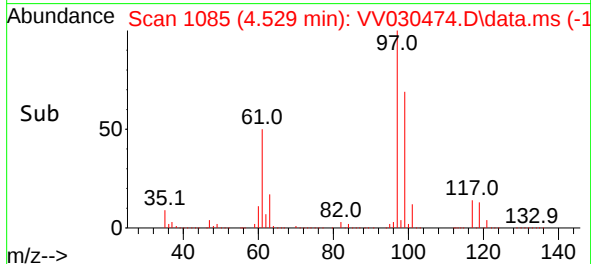
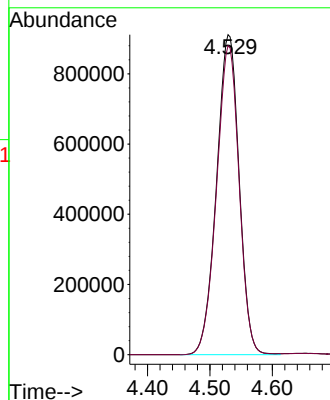
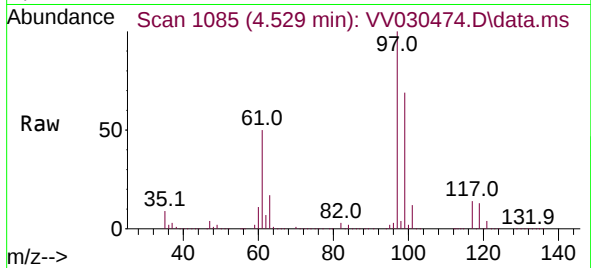




#31  
Carbon tetrachloride  
Concen: 138.343 ug/L  
RT: 4.529 min Scan# 1085  
Delta R.T. -0.212 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

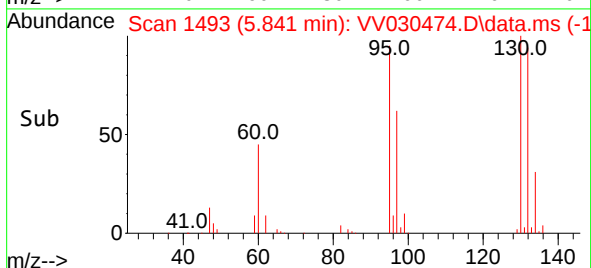
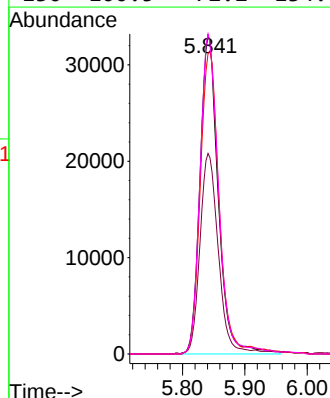
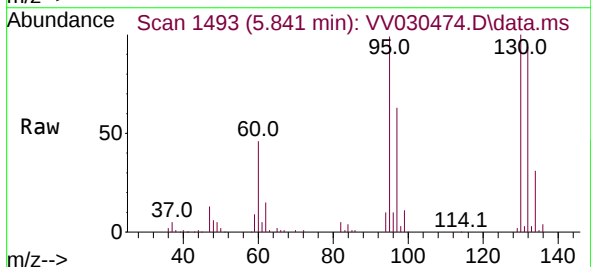
Instrument :  
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ClientSampleId :  
C0AA2

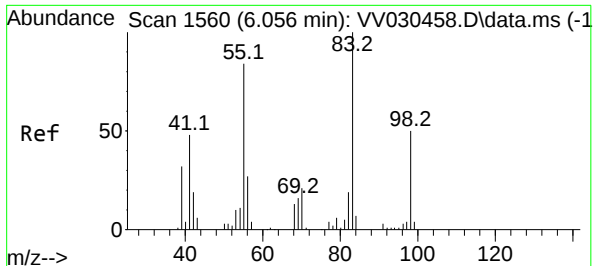
Tgt Ion:117 Resp: 2294601  
Ion Ratio Lower Upper  
117 100  
119 96.3 76.2 114.4



#34  
Trichloroethene  
Concen: 6.177 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

Tgt Ion: 95 Resp: 67295  
Ion Ratio Lower Upper  
95 100  
97 63.0 44.2 82.2  
132 94.3 69.5 129.1  
130 100.5 72.2 134.0

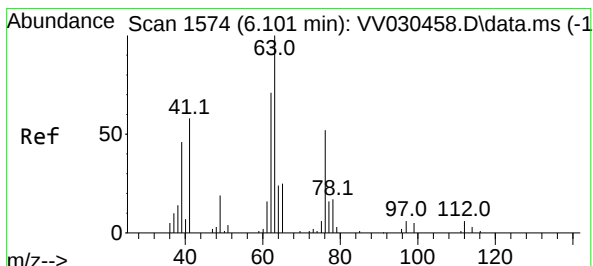
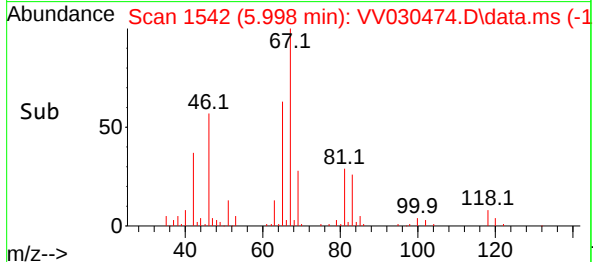
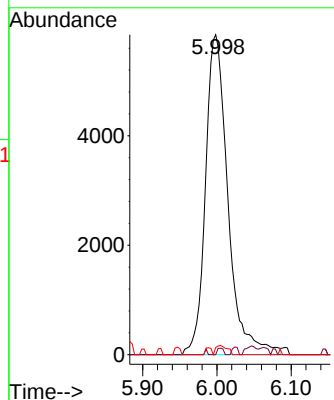
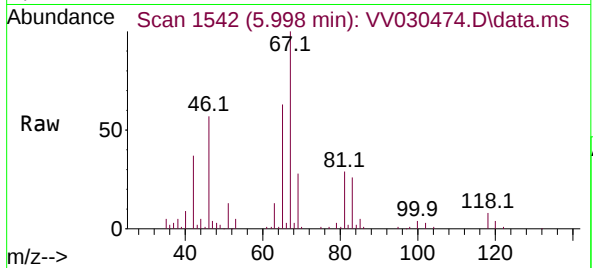




#35  
Methylcyclohexane  
Concen: 0.717 ug/L  
RT: 5.998 min Scan# 1542  
Delta R.T. -0.058 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

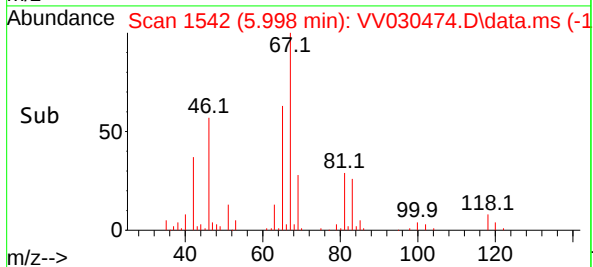
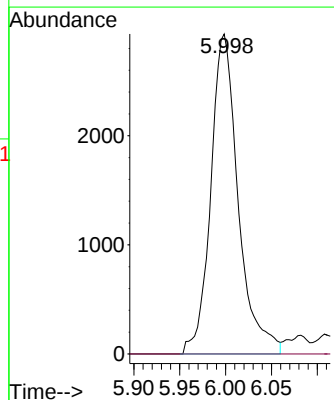
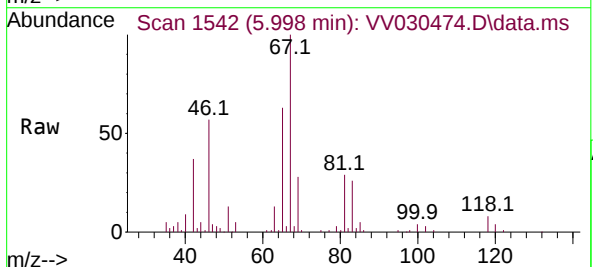
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA2

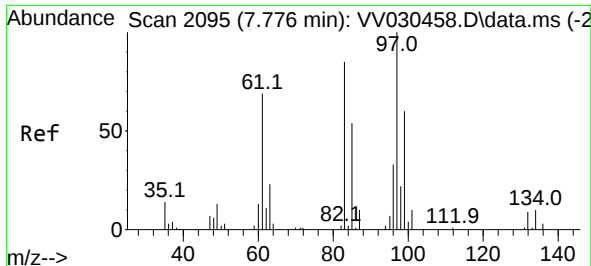
Tgt Ion: 83 Resp: 12256  
Ion Ratio Lower Upper  
83 100  
55 0.5 66.6 100.0#  
98 1.5 38.6 58.0#



#37  
1,2-Dichloropropane  
Concen: 0.590 ug/L  
RT: 5.998 min Scan# 1542  
Delta R.T. -0.103 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

Tgt Ion: 63 Resp: 6116  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.9 5.9#

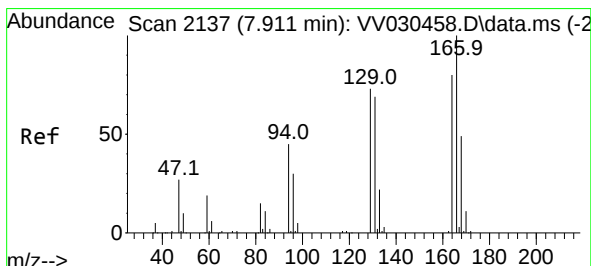
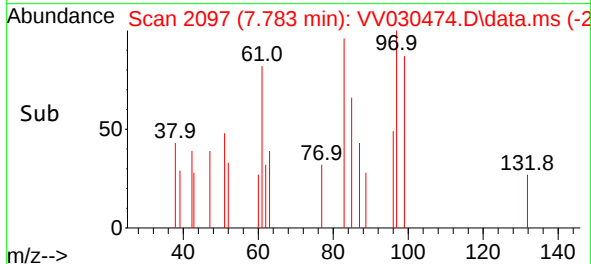
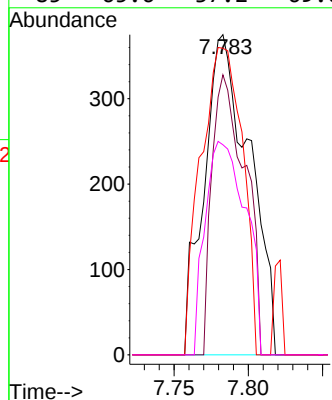
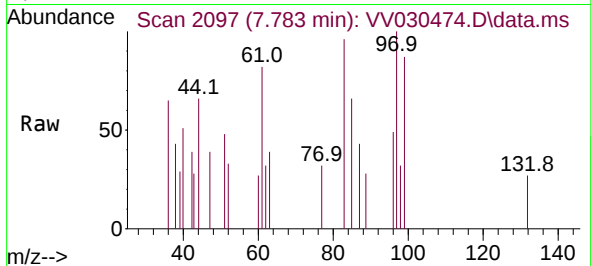




#45  
1,1,2-Trichloroethane  
Concen: 0.109 ug/L  
RT: 7.783 min Scan# 2095  
Delta R.T. 0.006 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

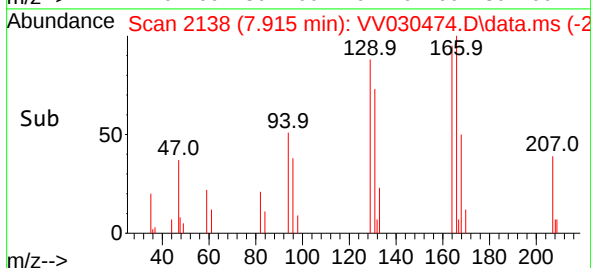
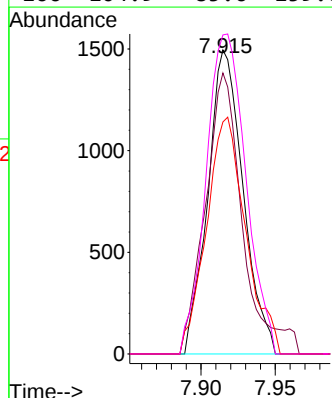
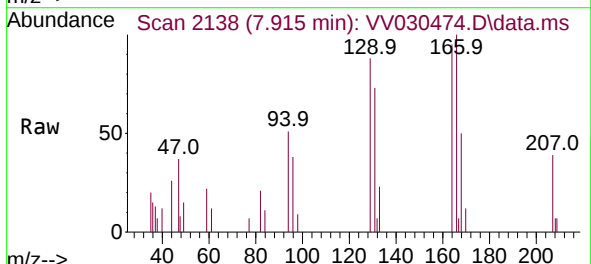
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AA2

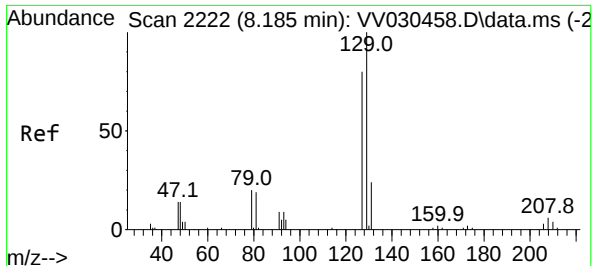
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 795   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 87.5     | 44.0 81.8#  |
| 83 95.7     | 58.8 109.2  |
| 85 65.6     | 37.2 69.0   |



#47  
Tetrachloroethene  
Concen: 0.257 ug/L  
RT: 7.915 min Scan# 2138  
Delta R.T. 0.003 min  
Lab File: VV030474.D  
Acq: 10 Apr 2023 17:48

|             |             |
|-------------|-------------|
| Tgt Ion:164 | Resp: 2474  |
| Ion Ratio   | Lower Upper |
| 164 100     |             |
| 129 92.4    | 60.8 112.8  |
| 131 76.3    | 61.7 114.7  |
| 166 104.9   | 85.6 159.0  |





#49

Dibromochloromethane

Concen: 0.269 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. -0.270 min

Lab File: VV030474.D

Acq: 10 Apr 2023 17:48

Instrument :

MSVOA\_V

ClientSampleId :

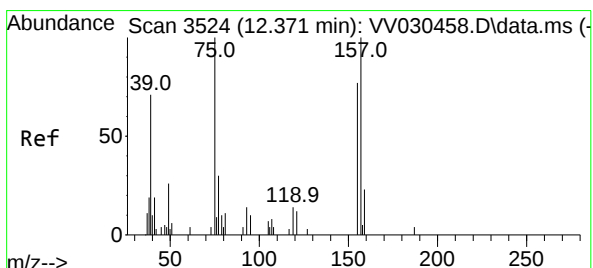
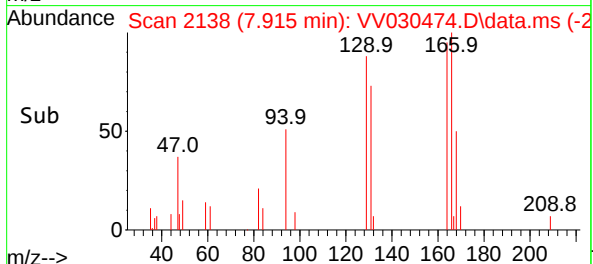
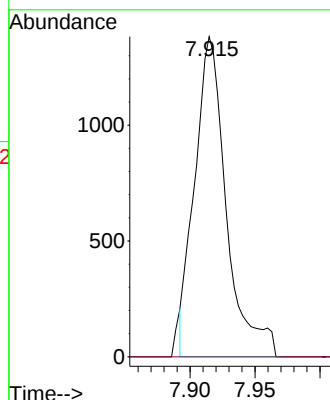
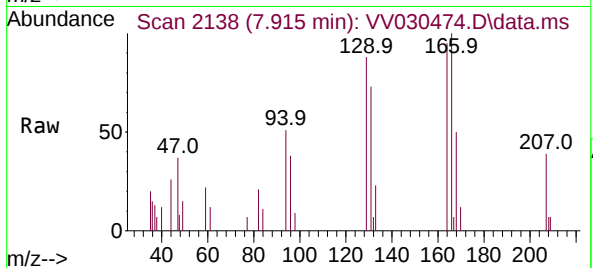
C0AA2

Tgt Ion:129 Resp: 2340

Ion Ratio Lower Upper

129 100

127 0.0 52.7 97.9#



#68

1,2-Dibromo-3-chloropropane

Concen: 0.308 ug/L

RT: 12.201 min Scan# 3471

Delta R.T. -0.170 min

Lab File: VV030474.D

Acq: 10 Apr 2023 17:48

Tgt Ion: 75 Resp: 384

Ion Ratio Lower Upper

75 100

155 0.0 64.6 96.8#

157 0.0 83.8 125.6#

