

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090122\  
 Data File : VU050587.D  
 Acq On : 01 Sep 2022 17:45  
 Operator : SY/MD  
 Sample : N4452-02 100X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

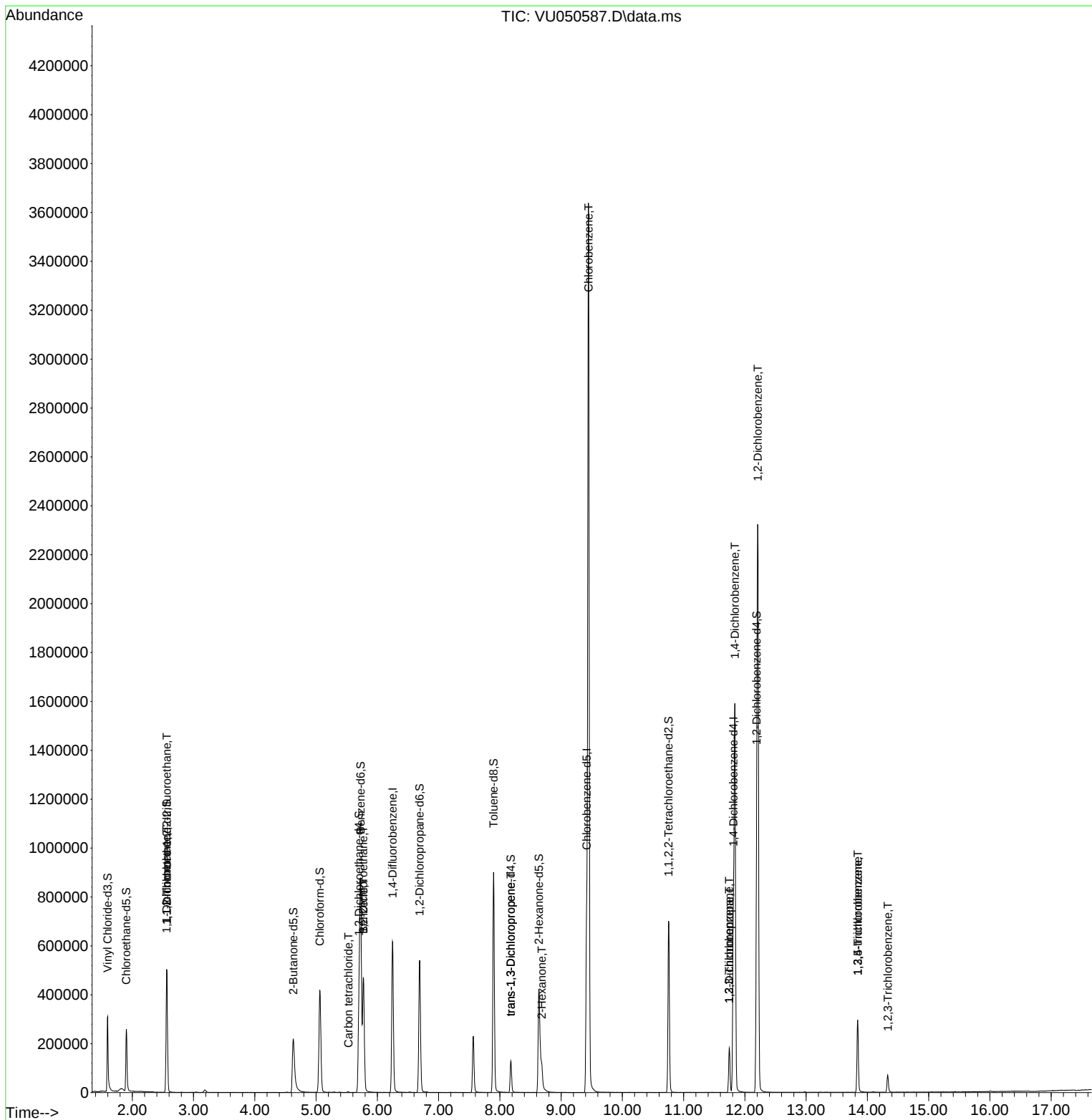
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0KW5

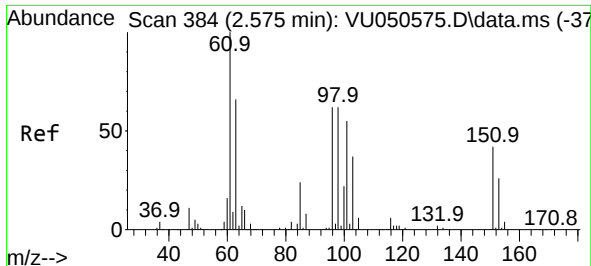
Quant Time: Sep 02 02:10:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM083022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 02 02:07:32 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|---------|-------|----------|----------|--------|-----------|
| -----                         |         |       |          |          |        |           |
| Internal Standards            |         |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 502290   | 50.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 407509   | 50.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.813  | 152   | 193663   | 50.000   | ug/L   | 0.00      |
|                               |         |       |          |          |        |           |
| System Monitoring Compounds   |         |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.598   | 65    | 255058   | 66.208   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 132.420%  |
| 7) Chloroethane-d5            | 1.903   | 69    | 196459   | 65.410   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 130.820%# |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 295049   | 45.362   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.720%   |
| 21) 2-Butanone-d5             | 4.627   | 46    | 327899   | 97.323   | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 97.320%   |
| 24) Chloroform-d              | 5.061   | 84    | 397339   | 53.008   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 106.020%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 249776   | 51.299   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.600%  |
| 32) Benzene-d6                | 5.726   | 84    | 822653   | 65.133   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 130.260%# |
| 36) 1,2-Dichloropropane-d6    | 6.691   | 67    | 270632   | 64.352   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 128.700%# |
| 41) Toluene-d8                | 7.896   | 98    | 611141   | 55.619   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 111.240%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 74814    | 44.234   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.460%   |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 125920   | 82.696   | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 82.700%   |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 355506   | 54.196   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 108.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 231200   | 55.140   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 110.280%  |
|                               |         |       |          |          |        |           |
| Target Compounds              |         |       |          |          |        | Qvalue    |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.562   | 101   | 3006     | 0.908    | ug/L # | 20        |
| 12) 1,1-Dichloroethene        | 2.559   | 96    | 2157     | 0.623    | ug/L # | 1         |
| 27) 1,2-Dichloroethane        | 5.771   | 62    | 4318     | 0.690    | ug/L # | 74        |
| 31) Carbon tetrachloride      | 5.527   | 117   | 1654     | 0.439    | ug/L   | 96        |
| 33) Benzene                   | 5.774   | 78    | 460083   | 31.078   | ug/L   | 100       |
| 44) trans-1,3-Dichloropropene | 8.179   | 75    | 3396     | 0.698    | ug/L   | 89        |
| 48) 2-Hexanone                | 8.684   | 43    | 56568    | 11.279   | ug/L # | 88        |
| 51) Chlorobenzene             | 9.446   | 112   | 1941119  | 212.374  | ug/L   | 99        |
| 60) 1,2,3-Trichloropropane    | 11.745  | 75    | 21932    | 3.773    | ug/L # | 50        |
| 64) 1,3-Dichlorobenzene       | 11.745  | 146   | 76163    | 11.559   | ug/L   | 99        |
| 65) 1,4-Dichlorobenzene       | 11.835  | 146   | 623458   | 93.311   | ug/L   | 99        |
| 67) 1,2-Dichlorobenzene       | 12.211  | 146   | 871914   | 122.064  | ug/L   | 98        |
| 69) 1,3,5-Trichlorobenzene    | 13.842  | 180   | 93614    | 20.762   | ug/L   | 100       |
| 70) 1,2,4-trichlorobenzene    | 13.842  | 180   | 93614    | 23.342   | ug/L   | 100       |
| 72) 1,2,3-Trichlorobenzene    | 14.334  | 180   | 23097    | 4.983    | ug/L   | 97        |
| -----                         |         |       |          |          |        |           |

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

Quant Time: Sep 02 02:10:36 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM083022WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 02 02:07:32 2022  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.908 ug/L

RT: 2.562 min Scan# 3

Delta R.T. -0.013 min

Lab File: VU050587.D

Acq: 01 Sep 2022 17:45

Instrument :

MSVOA\_U

ClientSampleId :

C0KW5

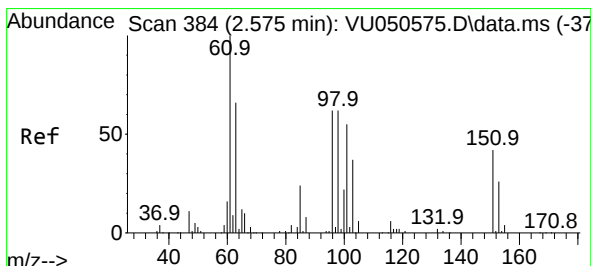
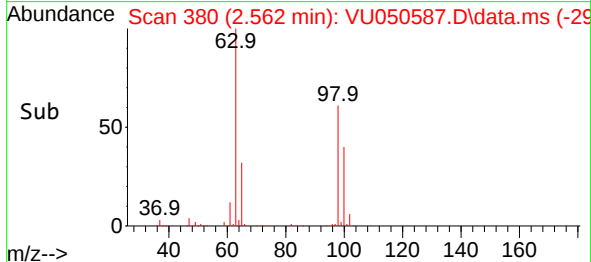
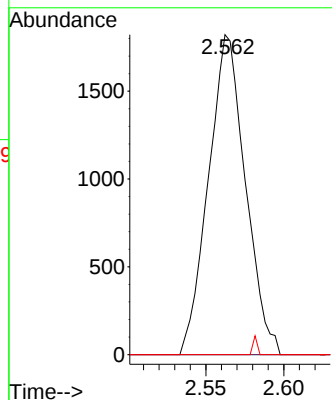
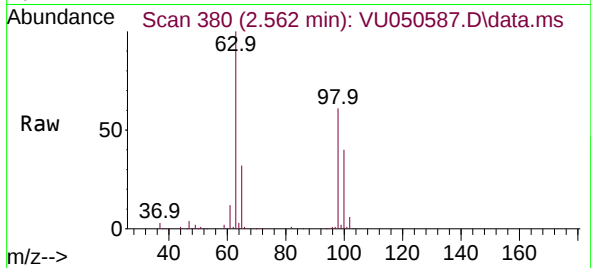
Tgt Ion:101 Resp: 3006

Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

151 0.0 58.2 87.2#



#12

1,1-Dichloroethene

Concen: 0.623 ug/L

RT: 2.559 min Scan# 379

Delta R.T. -0.016 min

Lab File: VU050587.D

Acq: 01 Sep 2022 17:45

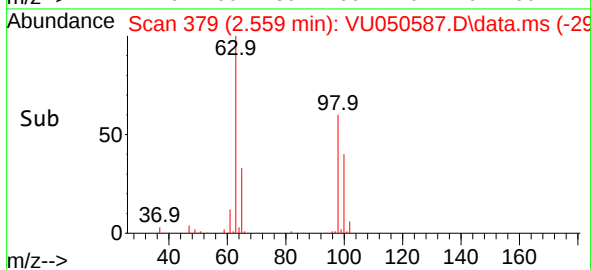
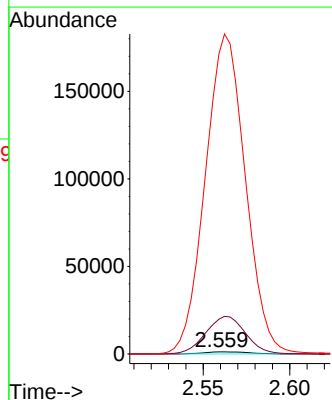
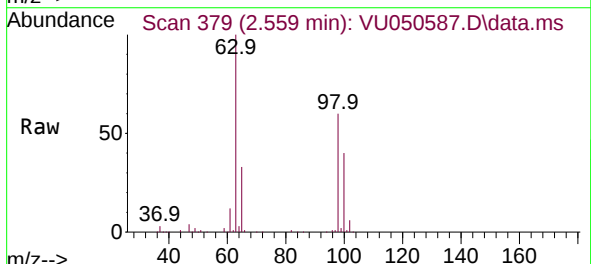
Tgt Ion: 96 Resp: 2157

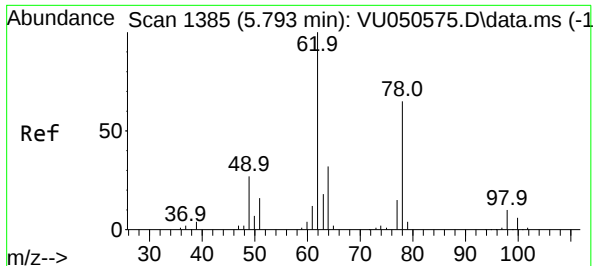
Ion Ratio Lower Upper

96 100

61 1659.5 113.5 210.9#

63 14325.1 78.0 144.9#

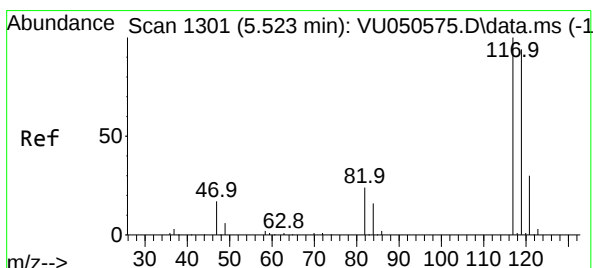
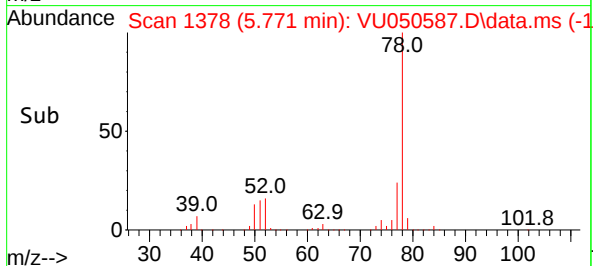
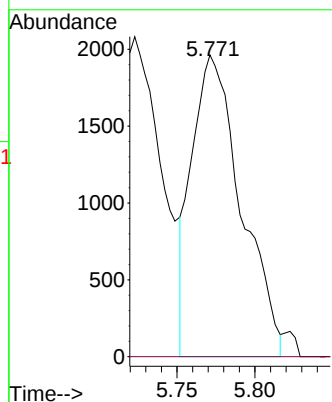
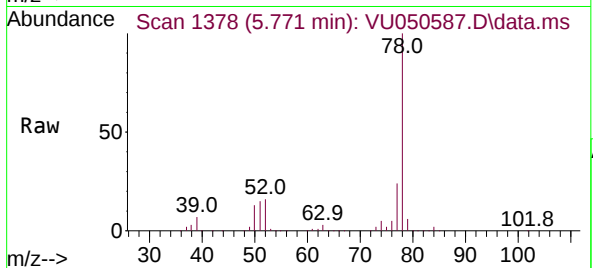




#27  
1,2-Dichloroethane  
Concen: 0.690 ug/L  
RT: 5.771 min Scan# 11  
Delta R.T. -0.022 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

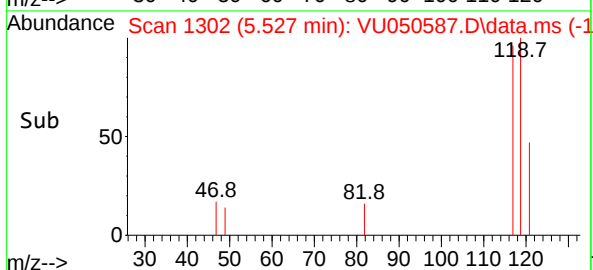
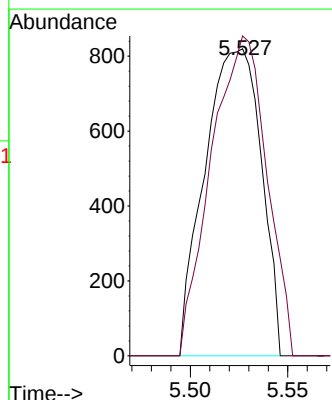
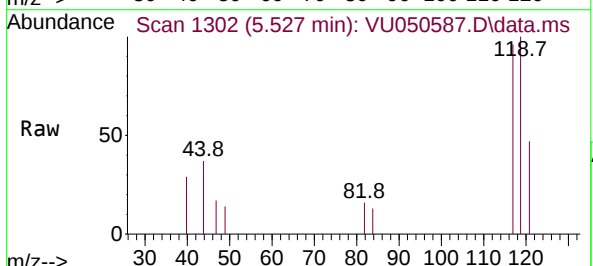
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KW5

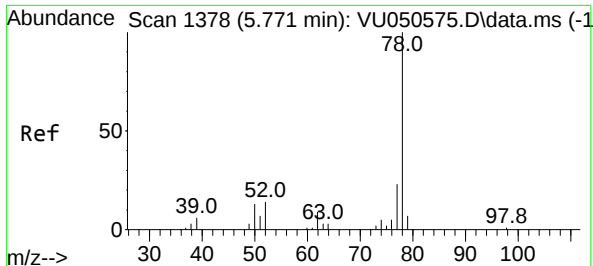
Tgt Ion: 62 Resp: 4318  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.5 11.3#



#31  
Carbon tetrachloride  
Concen: 0.439 ug/L  
RT: 5.527 min Scan# 1302  
Delta R.T. 0.004 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

Tgt Ion: 117 Resp: 1654  
Ion Ratio Lower Upper  
117 100  
119 102.2 78.8 118.2





#33

Benzene

Concen: 31.078 ug/L

RT: 5.774 min Scan# 11

Delta R.T. 0.004 min

Lab File: VU050587.D

Acq: 01 Sep 2022 17:45

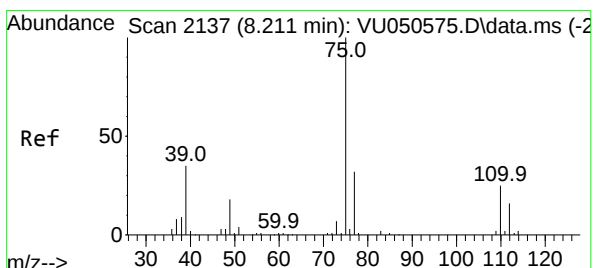
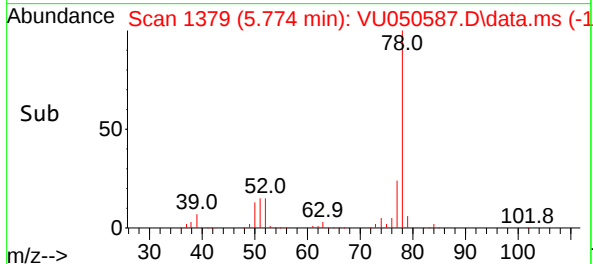
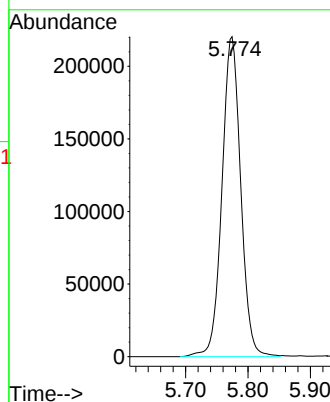
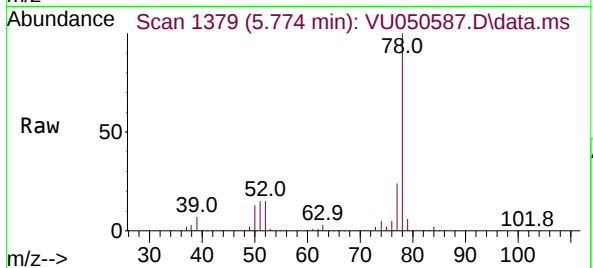
Instrument :

MSVOA\_U

ClientSampleId :

C0KW5

Tgt Ion: 78 Resp: 460083



#44

trans-1,3-Dichloropropene

Concen: 0.698 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU050587.D

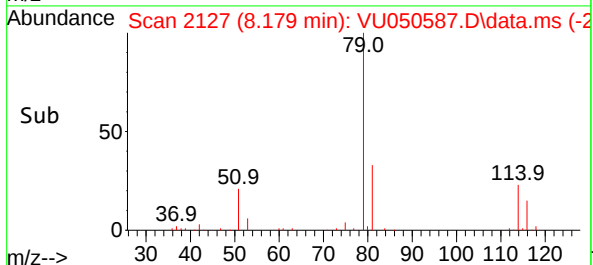
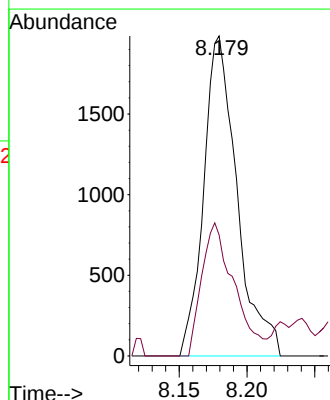
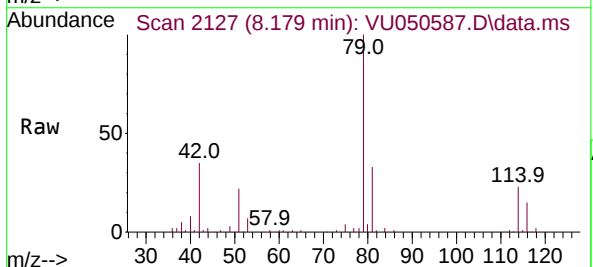
Acq: 01 Sep 2022 17:45

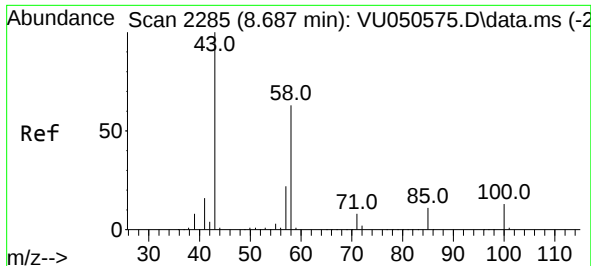
Tgt Ion: 75 Resp: 3396

Ion Ratio Lower Upper

75 100

77 37.9 22.2 41.2

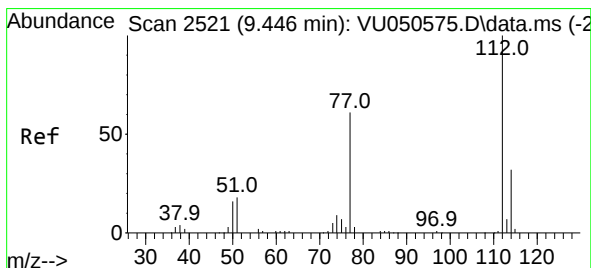
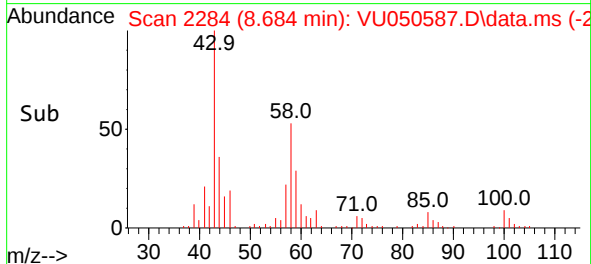
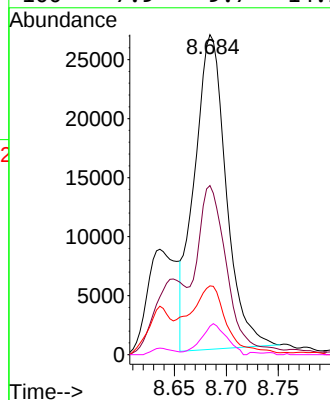
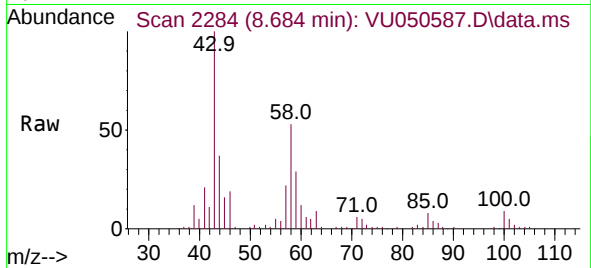




#48  
2-Hexanone  
Concen: 11.279 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

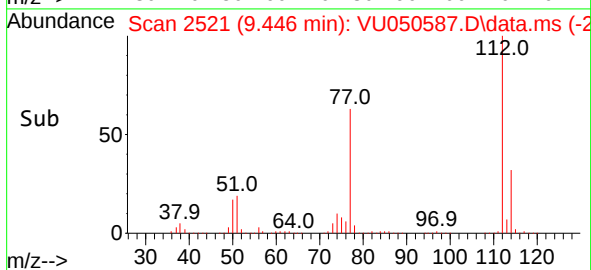
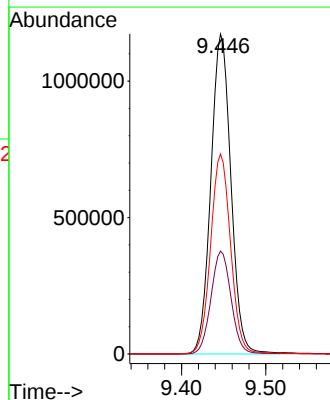
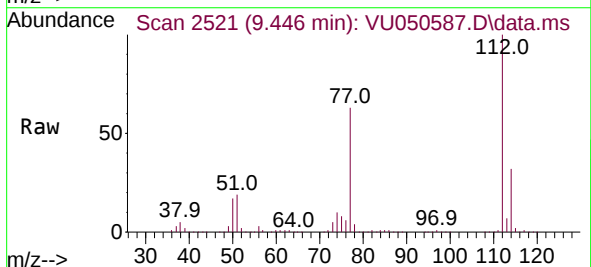
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KW5

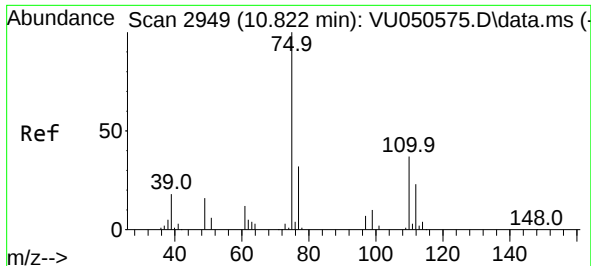
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 56568 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 46.6  | 46.6  | 69.8  |
| 57       | 18.3  | 15.8  | 23.6  |
| 100      | 7.9   | 9.7   | 14.5  |



#51  
Chlorobenzene  
Concen: 212.374 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 112   | Resp: | 1941119 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 114      | 32.1  | 23.0  | 42.6    |
| 77       | 62.5  | 49.4  | 74.2    |

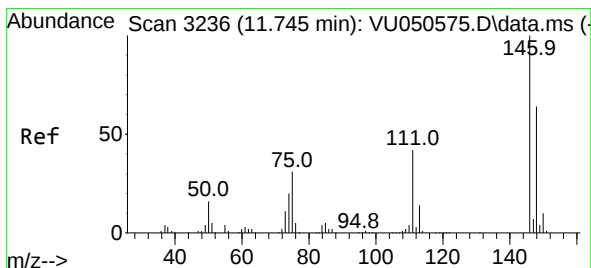
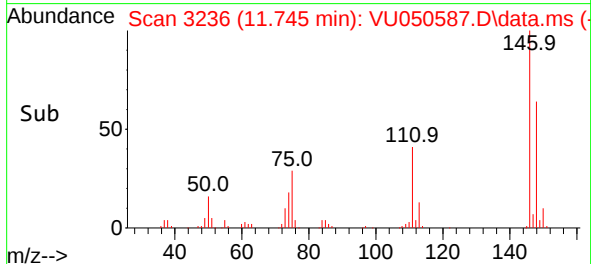
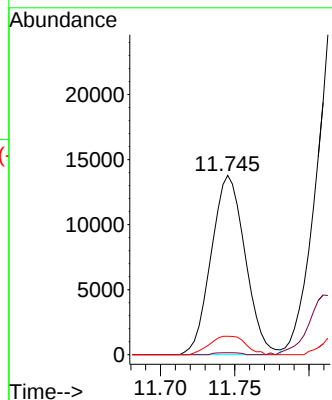
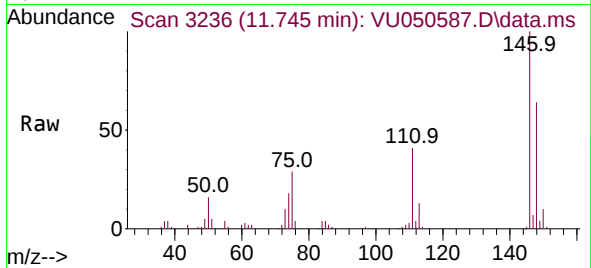




#60  
1,2,3-Trichloropropane  
Concen: 3.773 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. 0.923 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

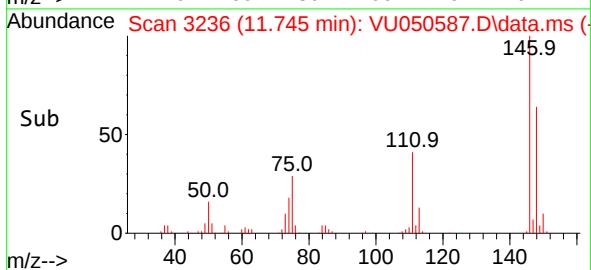
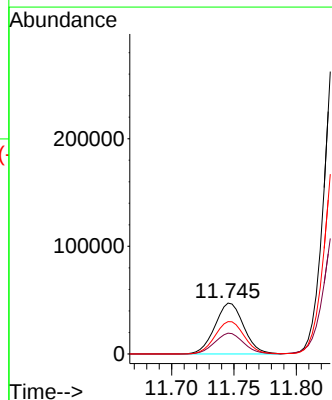
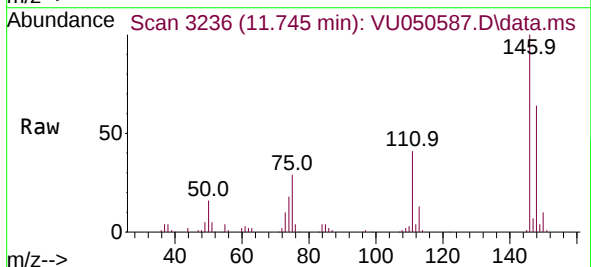
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KW5

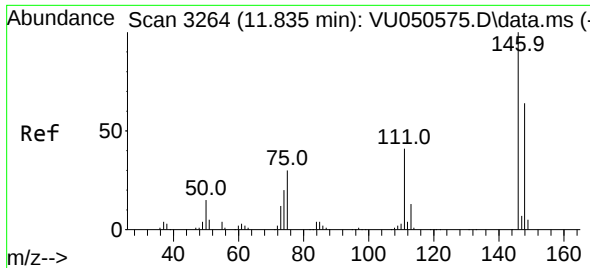
Tgt Ion: 75 Resp: 21932  
Ion Ratio Lower Upper  
75 100  
77 0.8 26.2 39.4#  
110 10.8 29.0 43.6#



#64  
1,3-Dichlorobenzene  
Concen: 11.559 ug/L  
RT: 11.745 min Scan# 3236  
Delta R.T. 0.000 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

Tgt Ion:146 Resp: 76163  
Ion Ratio Lower Upper  
146 100  
111 40.8 28.4 52.8  
148 63.6 45.0 83.6

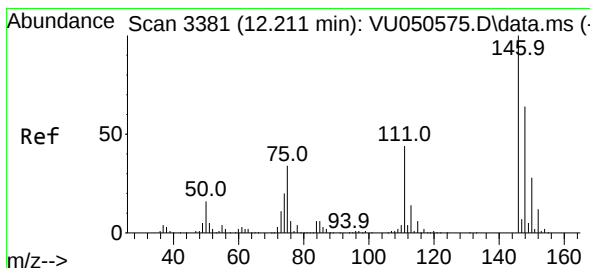
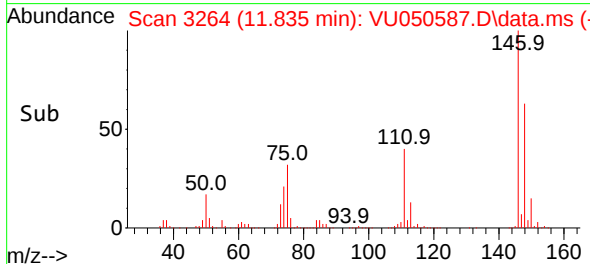
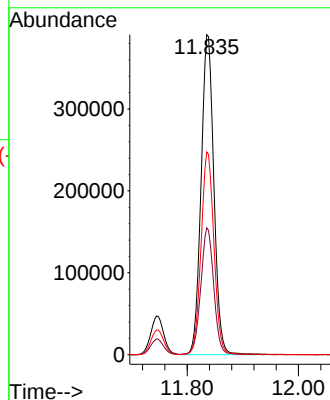
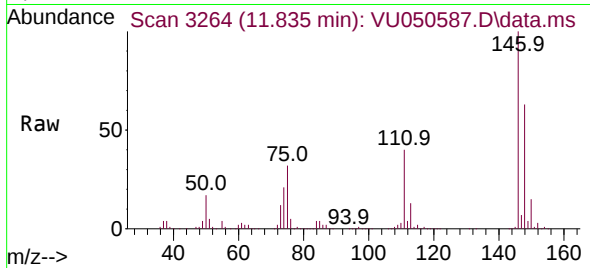




#65  
1,4-Dichlorobenzene  
Concen: 93.311 ug/L  
RT: 11.835 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

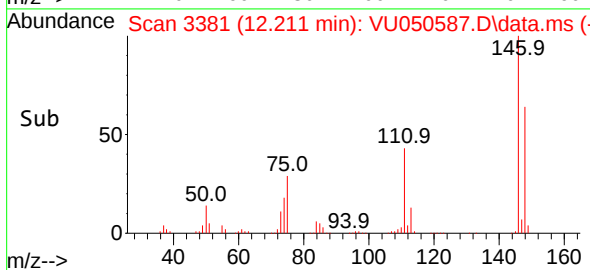
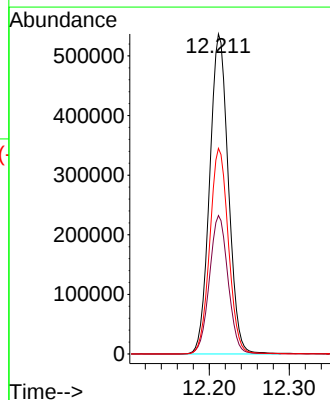
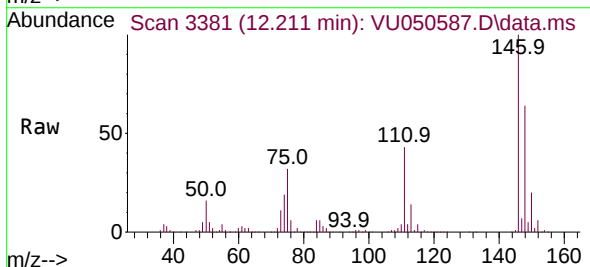
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KW5

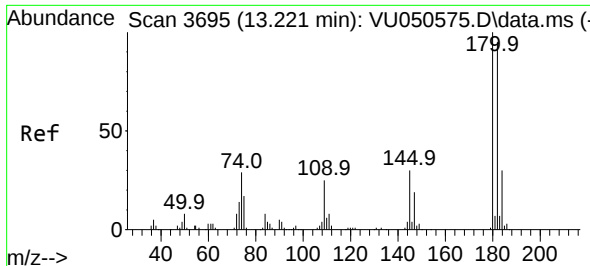
Tgt Ion:146 Resp: 623458  
Ion Ratio Lower Upper  
146 100  
111 39.7 28.2 52.4  
148 63.3 45.0 83.6



#67  
1,2-Dichlorobenzene  
Concen: 122.064 ug/L  
RT: 12.211 min Scan# 3381  
Delta R.T. 0.000 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

Tgt Ion:146 Resp: 871914  
Ion Ratio Lower Upper  
146 100  
111 43.3 33.4 50.2  
148 64.2 49.9 74.9

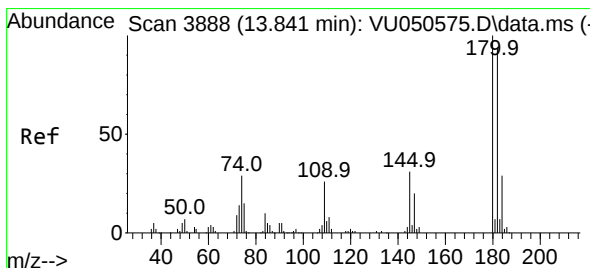
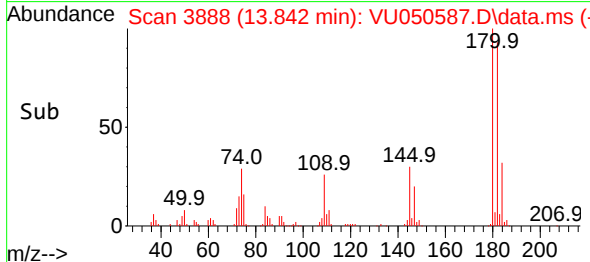
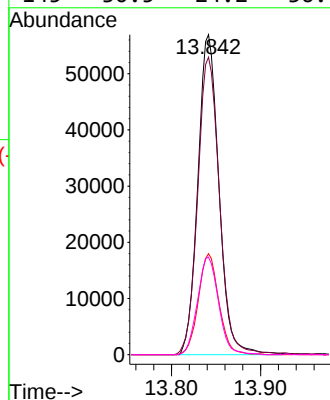
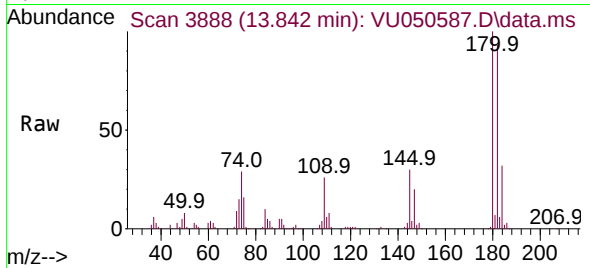




#69  
1,3,5-Trichlorobenzene  
Concen: 20.762 ug/L  
RT: 13.842 min Scan# 3888  
Delta R.T. 0.621 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

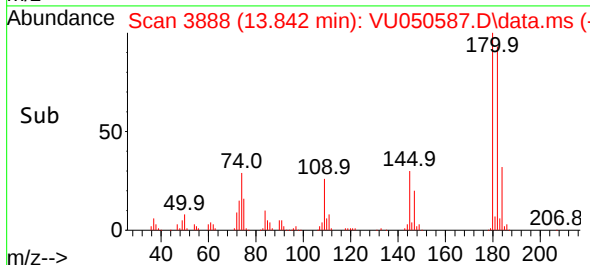
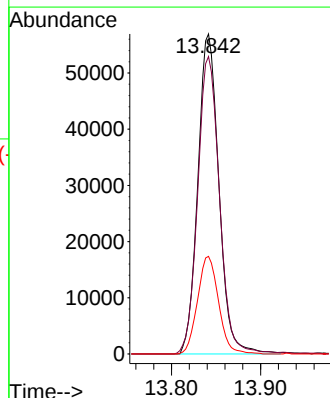
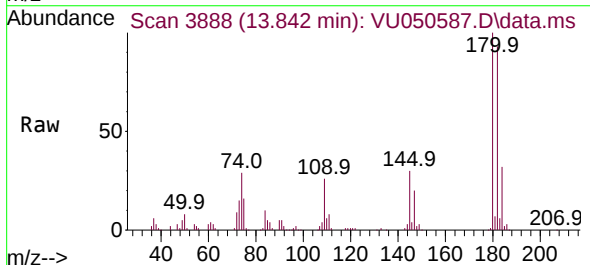
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KW5

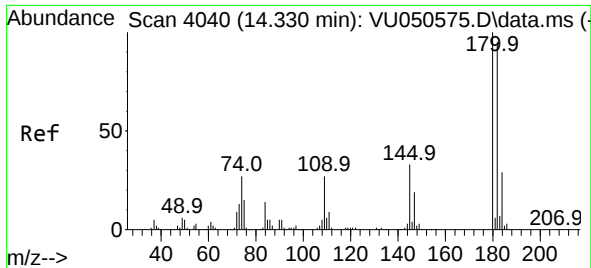
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 93614 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.6  | 76.3  | 114.5 |
| 184       | 30.7  | 24.4  | 36.6  |
| 145       | 30.5  | 24.2  | 36.4  |



#70  
1,2,4-trichlorobenzene  
Concen: 23.342 ug/L  
RT: 13.842 min Scan# 3888  
Delta R.T. 0.000 min  
Lab File: VU050587.D  
Acq: 01 Sep 2022 17:45

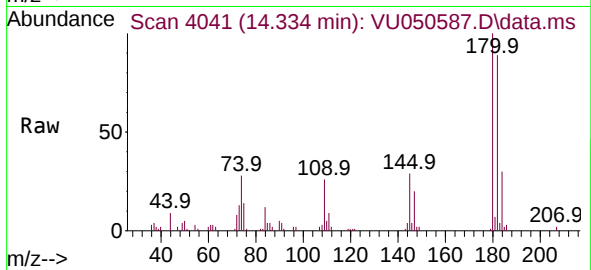
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 93614 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.6  | 76.6  | 115.0 |
| 145       | 30.5  | 24.2  | 36.4  |





#72  
 1,2,3-Trichlorobenzene  
 Concen: 4.983 ug/L  
 RT: 14.334 min Scan# 4041  
 Delta R.T. 0.004 min  
 Lab File: VU050587.D  
 Acq: 01 Sep 2022 17:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0KW5



Tgt Ion:180 Resp: 23097  
 Ion Ratio Lower Upper  
 180 100  
 182 97.2 76.0 114.0  
 145 30.0 26.2 39.2

