

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020724\  
 Data File : VU057850.D  
 Acq On : 07 Feb 2024 19:13  
 Operator : MD/SY  
 Sample : P1081-08  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 08 01:30:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM020724WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 08 01:18:21 2024  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242   | 114   | 262455   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.438   | 117   | 258697   | 50.000   | ug/L   | 0.03     |
| 58) 1,4-Dichlorobenzene-d4    | 11.823  | 152   | 152235   | 50.000   | ug/L   | # 0.02   |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595   | 65    | 98109    | 46.703   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 93.400%  |
| 7) Chloroethane-d5            | 1.885   | 69    | 73807    | 45.289   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 90.580%  |
| 11) 1,1-Dichloroethene-d2     | 2.554   | 63    | 128676   | 33.351   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 66.700%  |
| 21) 2-Butanone-d5             | 4.618   | 46    | 67023    | 57.489   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 57.490%  |
| 24) Chloroform-d              | 5.052   | 84    | 165788   | 44.489   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 88.980%  |
| 26) 1,2-Dichloroethane-d4     | 5.692   | 65    | 112204   | 47.497   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.000%  |
| 32) Benzene-d6                | 5.721   | 84    | 342675   | 43.847   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.700%  |
| 36) 1,2-Dichloropropane-d6    | 6.682   | 67    | 108126   | 43.811   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 87.620%  |
| 41) Toluene-d8                | 7.894   | 98    | 312843   | 44.154   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.300%  |
| 43) trans-1,3-Dichloroprop... | 8.177   | 79    | 54383    | 45.044   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.080%  |
| 47) 2-Hexanone-d5             | 8.637   | 63    | 106047   | 105.269  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 105.270% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753  | 84    | 172861   | 53.805   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 107.600% |
| 66) 1,2-Dichlorobenzene-d4    | 12.209  | 152   | 133005   | 45.476   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.960%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 13) Acetone                   | 2.618   | 43    | 8833     | 5.898    | ug/L   | 98       |
| 25) Chloroform                | 5.078   | 83    | 46399    | 12.820   | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 5.766   | 62    | 117197   | 39.104   | ug/L   | # 76     |
| 29) Cyclohexane               | 5.380   | 56    | 23550    | 6.996    | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.515   | 117   | 15059    | 5.183    | ug/L   | 95       |
| 33) Benzene                   | 5.766   | 78    | 13122019 | 1602.339 | ug/L   | 100      |
| 42) Toluene                   | 7.965   | 91    | 83924    | 9.785    | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.550   | 164   | 3116     | 2.040    | ug/L   | 87       |
| 49) Dibromochloromethane      | 8.550   | 129   | 3443     | 1.647    | ug/L   | # 11     |
| 64) 1,3-Dichlorobenzene       | 11.749  | 146   | 5976377  | 1240.253 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.749  | 146   | 5976377  | 1209.172 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.836  | 146   | 1765434  | 363.434  | ug/L   | # 85     |
| 68) 1,2-Dibromo-3-chloropr... | 12.965  | 75    | 32633    | 40.374   | ug/L   | # 12     |
| 69) 1,3,5-Trichlorobenzene    | 13.839  | 180   | 3457942  | 1018.881 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.839  | 180   | 3457942  | 1192.742 | ug/L   | 99       |
| 71) Naphthalene               | 14.087  | 128   | 11882    | 1.529    | ug/L   | # 87     |
| 72) 1,2,3-Trichlorobenzene    | 14.325  | 180   | 856897   | 315.880  | ug/L   | 100      |
| -----                         |         |       |          |          |        |          |

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Sample : P1081-08  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

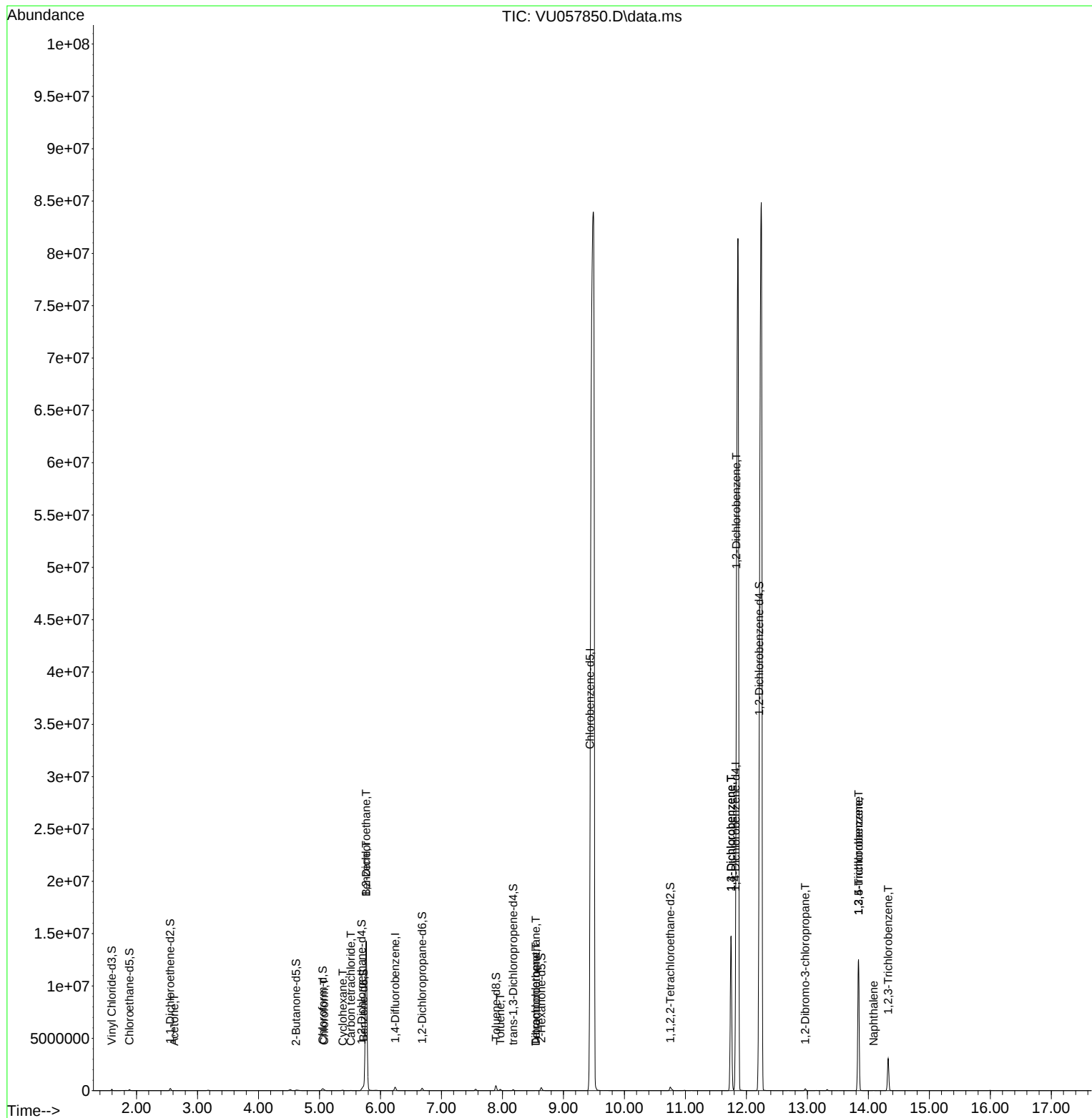
Quant Time: Feb 08 01:30:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM020724WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Feb 08 01:18:21 2024  
Response via : Initial Calibration

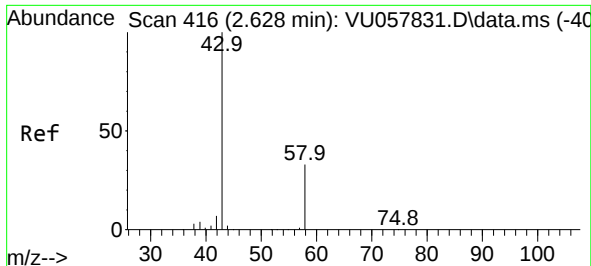
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#13

Acetone

Concen: 5.898 ug/L

RT: 2.618 min Scan# 41

Delta R.T. -0.010 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

Instrument :

MSVOA\_U

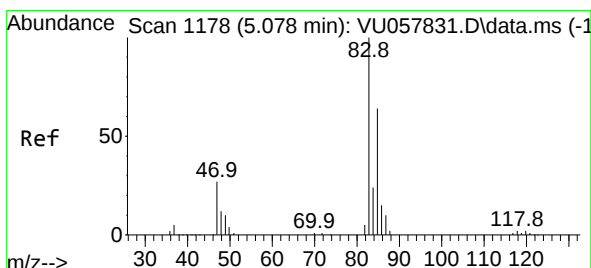
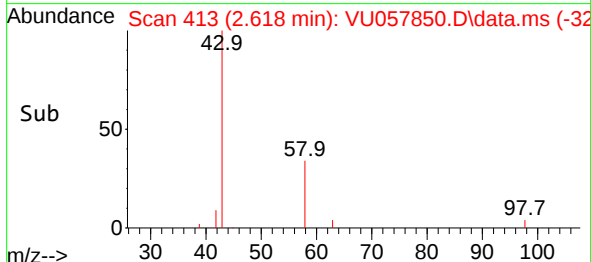
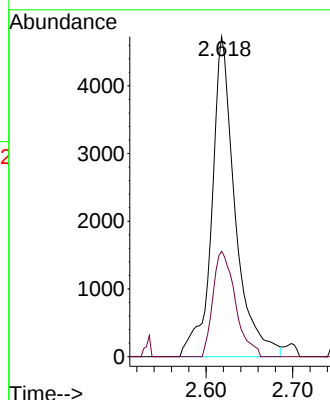
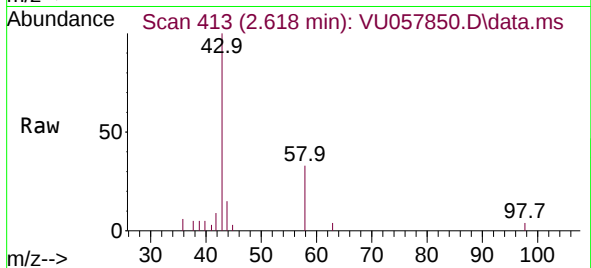
ClientSampleId :

Tgt Ion: 43 Resp: 8833

Ion Ratio Lower Upper

43 100

58 31.5 0.0 65.8



#25

Chloroform

Concen: 12.820 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. -0.000 min

Lab File: VU057850.D

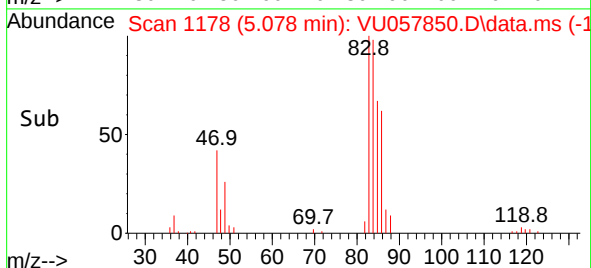
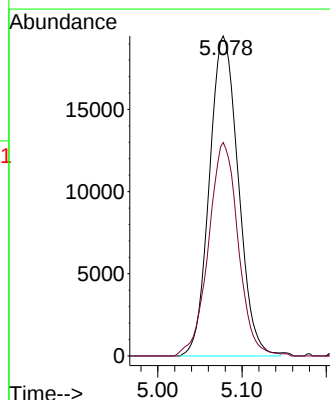
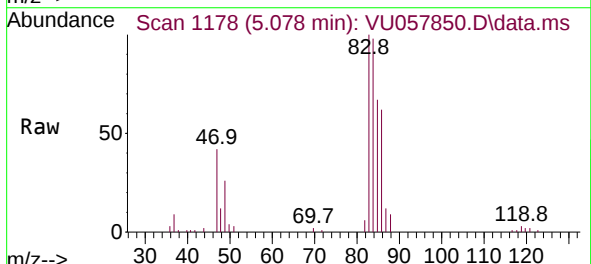
Acq: 07 Feb 2024 19:13

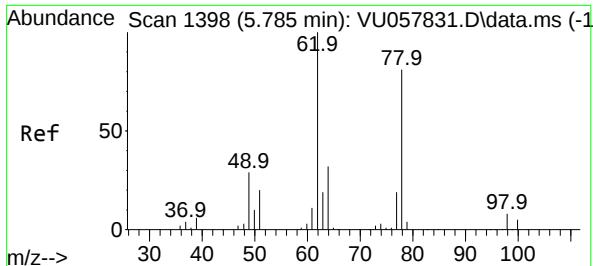
Tgt Ion: 83 Resp: 46399

Ion Ratio Lower Upper

83 100

85 66.7 45.0 83.6





#27

1,2-Dichloroethane

Concen: 39.104 ug/L

RT: 5.766 min Scan# 11

Delta R.T. -0.019 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

Instrument :

MSVOA\_U

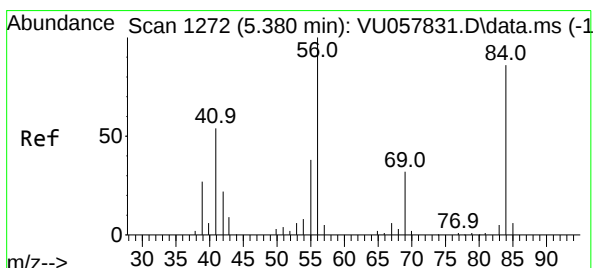
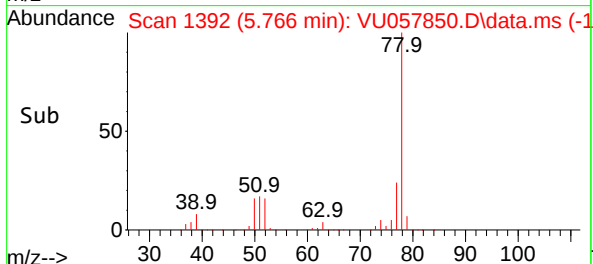
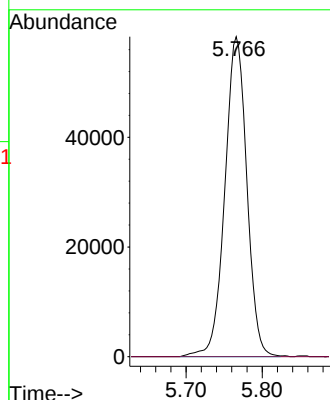
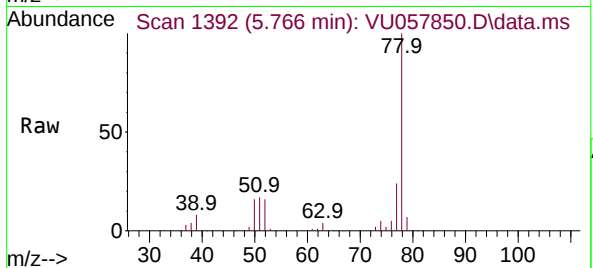
ClientSampleId :

Tgt Ion: 62 Resp: 117197

Ion Ratio Lower Upper

62 100

98 0.0 6.7 10.1#



#29

Cyclohexane

Concen: 6.996 ug/L

RT: 5.380 min Scan# 1272

Delta R.T. -0.000 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

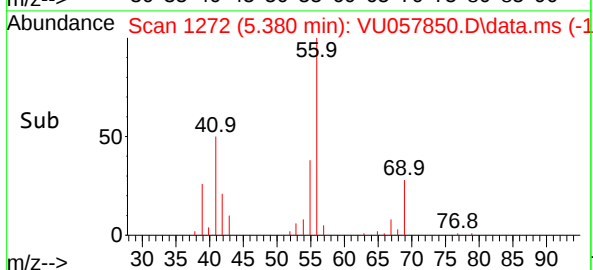
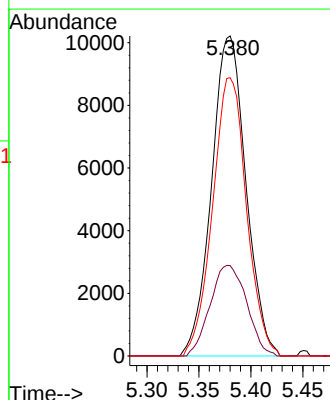
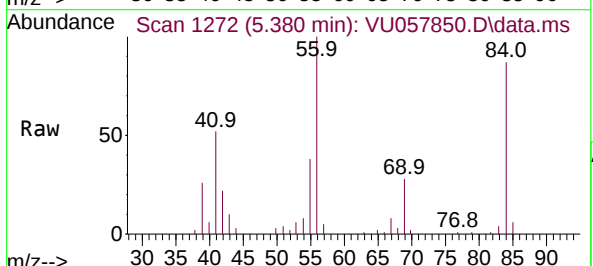
Tgt Ion: 56 Resp: 23550

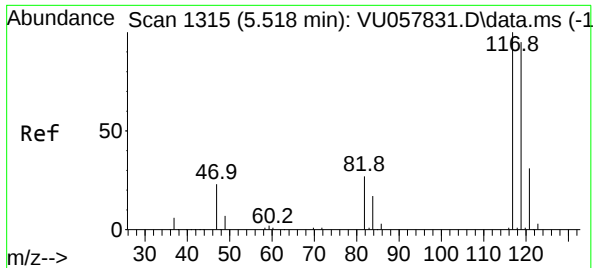
Ion Ratio Lower Upper

56 100

69 30.0 25.4 38.0

84 85.6 70.4 105.6

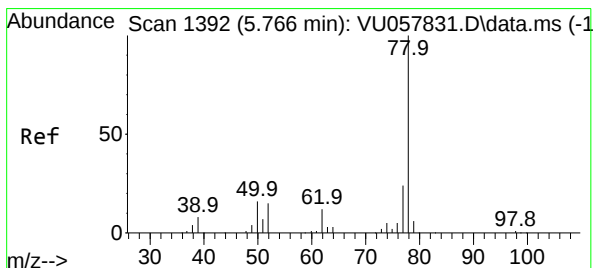
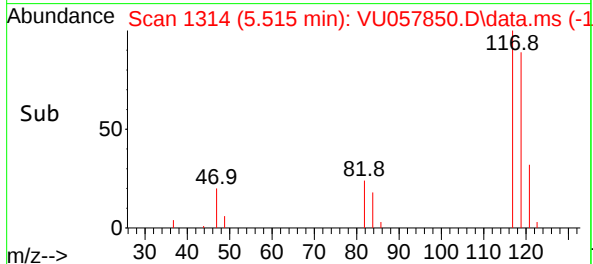
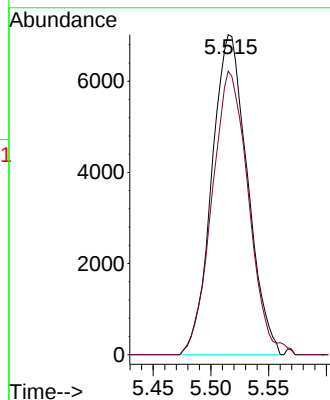
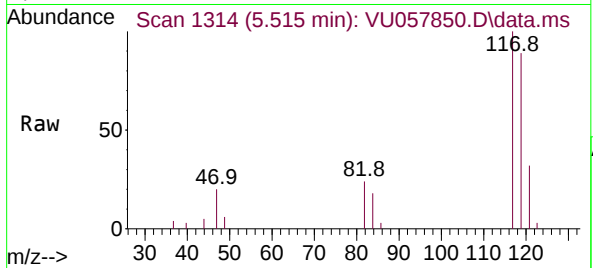




#31  
Carbon tetrachloride  
Concen: 5.183 ug/L  
RT: 5.515 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

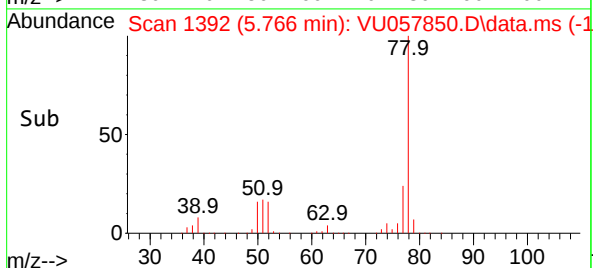
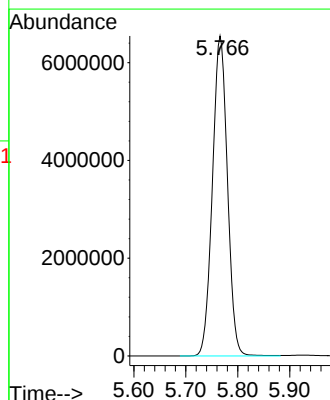
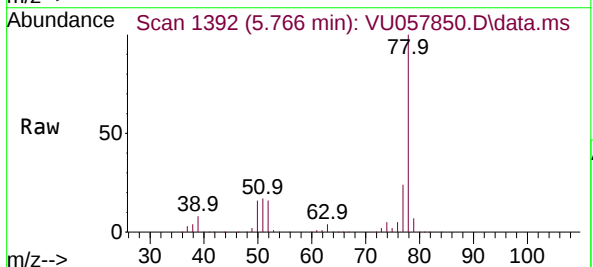
Instrument :  
MSVOA\_U  
ClientSampleId :

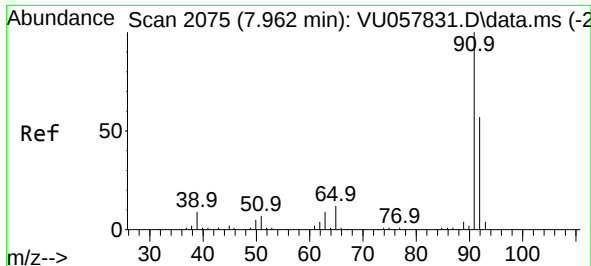
Tgt Ion:117 Resp: 15059  
Ion Ratio Lower Upper  
117 100  
119 90.7 76.7 115.1



#33  
Benzene  
Concen: 1602.339 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

Tgt Ion: 78 Resp:13122019





#42

Toluene

Concen: 9.785 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

Instrument :

MSVOA\_U

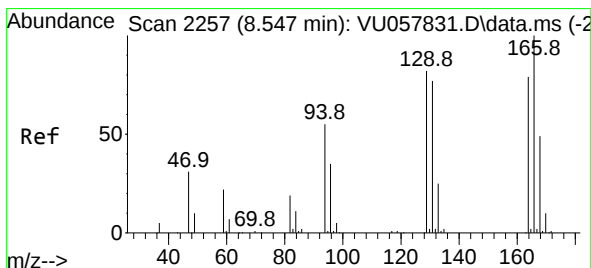
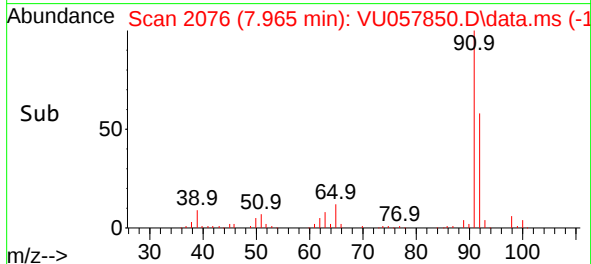
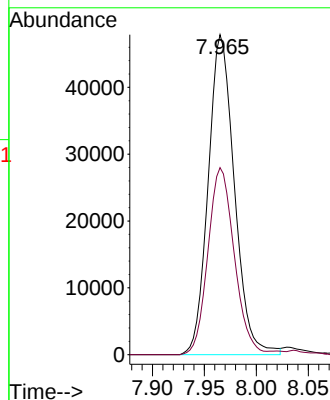
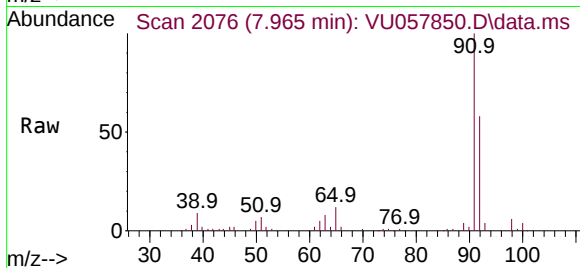
ClientSampleId :

Tgt Ion: 91 Resp: 83924

Ion Ratio Lower Upper

91 100

92 58.4 39.8 73.8



#46

Tetrachloroethene

Concen: 2.040 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.003 min

Lab File: VU057850.D

Acq: 07 Feb 2024 19:13

Tgt Ion: 164 Resp: 3116

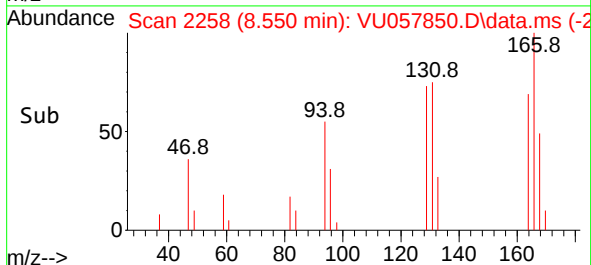
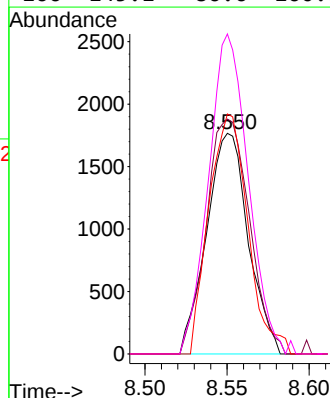
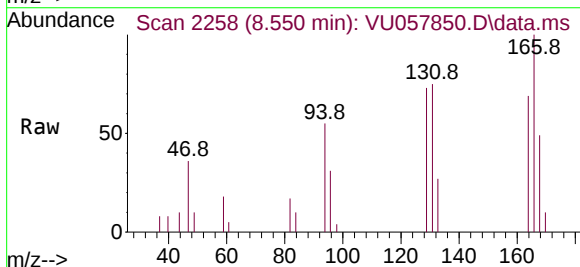
Ion Ratio Lower Upper

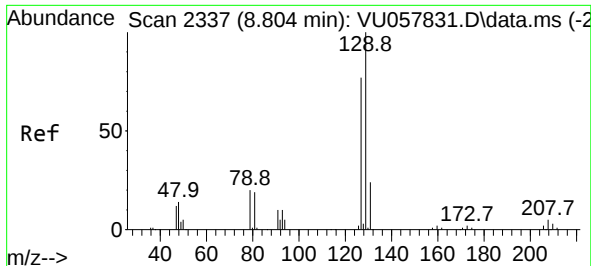
164 100

129 106.5 70.8 131.4

131 108.8 66.8 124.0

166 145.1 86.6 160.8

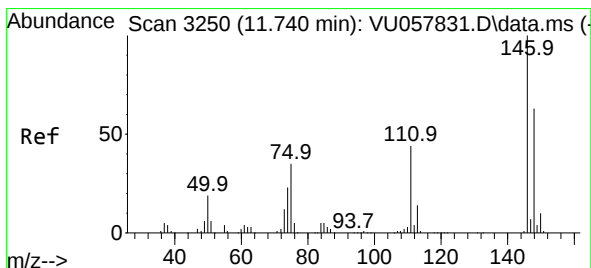
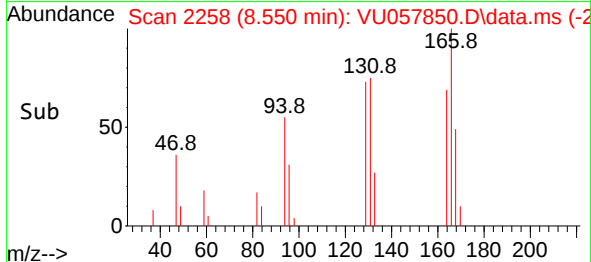
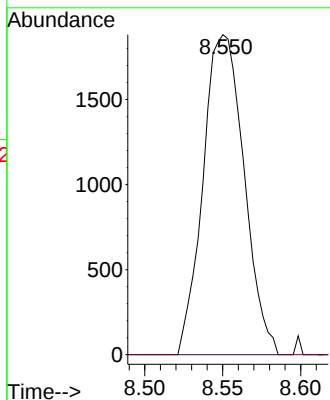
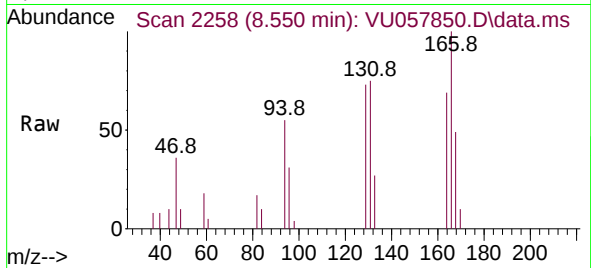




#49  
Dibromochloromethane  
Concen: 1.647 ug/L  
RT: 8.550 min Scan# 21  
Delta R.T. -0.254 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

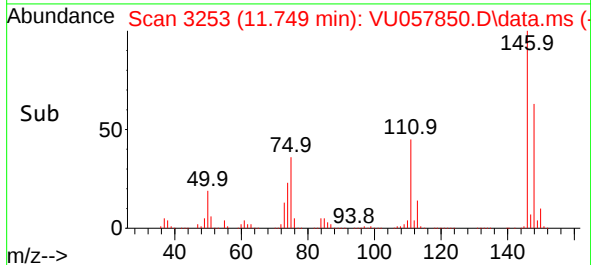
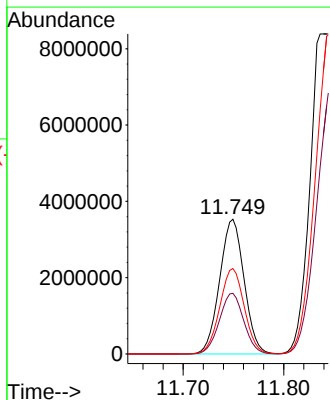
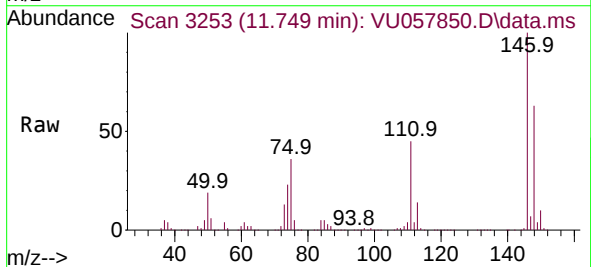
Instrument :  
MSVOA\_U  
ClientSampleId :

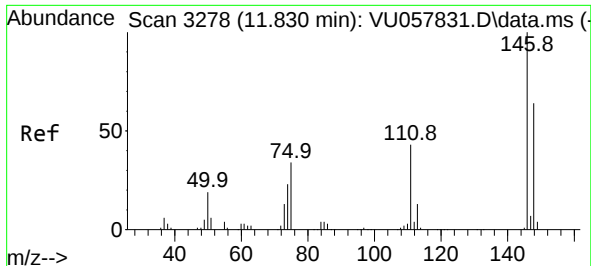
Tgt Ion:129 Resp: 3443  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.1 100.5#



#64  
1,3-Dichlorobenzene  
Concen: 1240.253 ug/L  
RT: 11.749 min Scan# 3253  
Delta R.T. 0.010 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

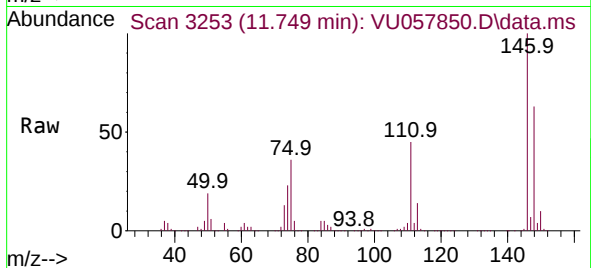
Tgt Ion:146 Resp: 5976377  
Ion Ratio Lower Upper  
146 100  
111 45.0 31.1 57.7  
148 63.4 46.8 86.8



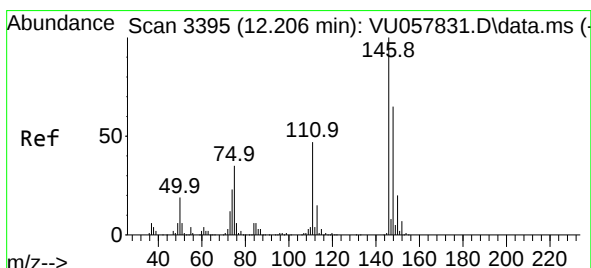
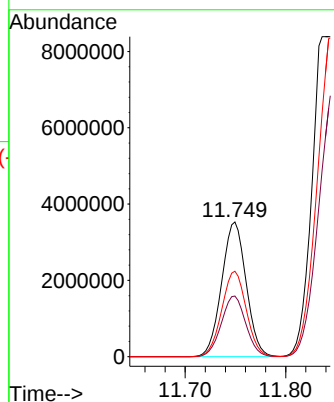
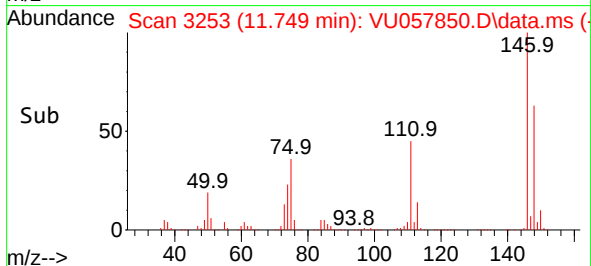


#65  
1,4-Dichlorobenzene  
Concen: 1209.172 ug/L  
RT: 11.749 min Scan# 31  
Delta R.T. -0.081 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

Instrument :  
MSVOA\_U  
ClientSampleId :

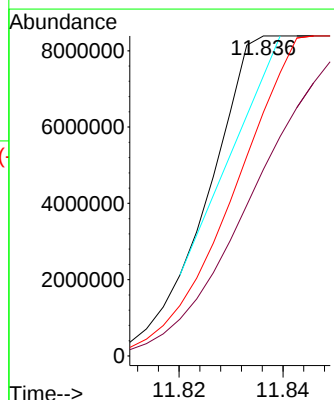
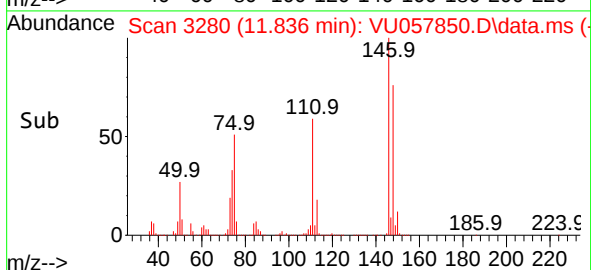
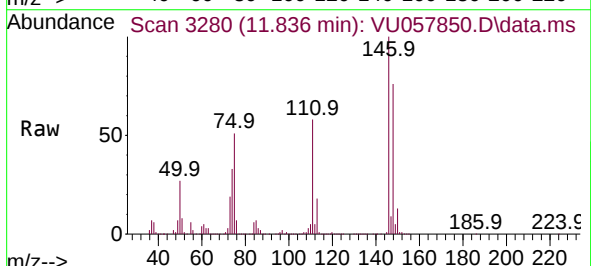


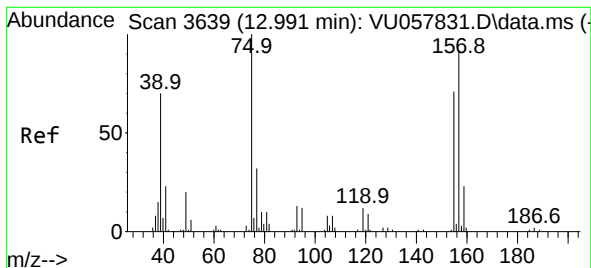
Tgt Ion:146 Resp: 5976377  
Ion Ratio Lower Upper  
146 100  
111 45.0 30.5 56.7  
148 63.4 45.3 84.1



#67  
1,2-Dichlorobenzene  
Concen: 363.434 ug/L  
RT: 11.836 min Scan# 3280  
Delta R.T. -0.370 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

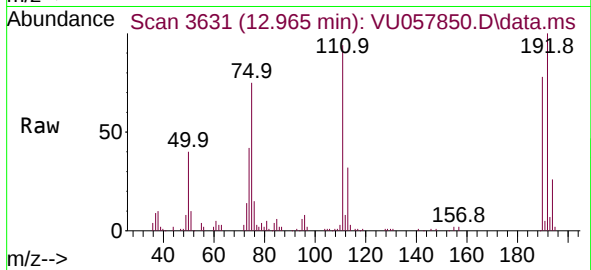
Tgt Ion:146 Resp: 1765434  
Ion Ratio Lower Upper  
146 100  
111 58.3 37.8 56.8#  
148 76.2 51.7 77.5



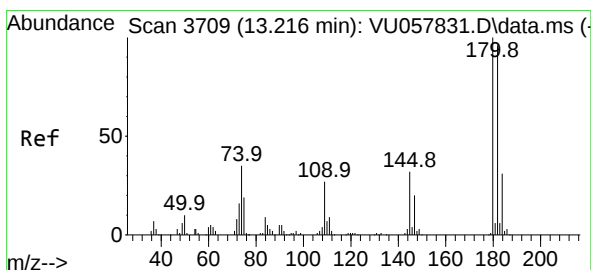
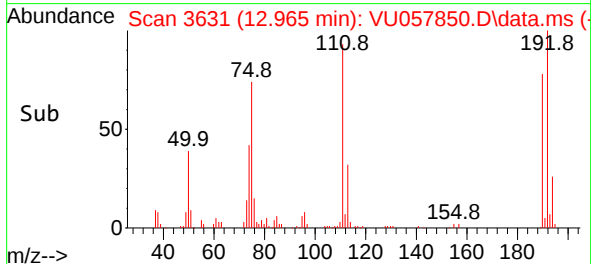
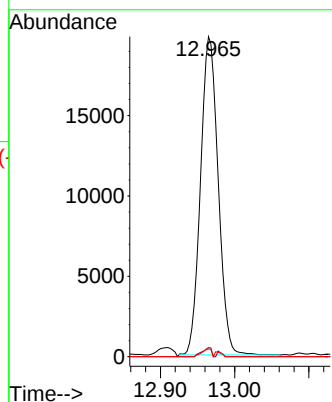


#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 40.374 ug/L  
 RT: 12.965 min Scan# 30  
 Delta R.T. -0.026 min  
 Lab File: VU057850.D  
 Acq: 07 Feb 2024 19:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

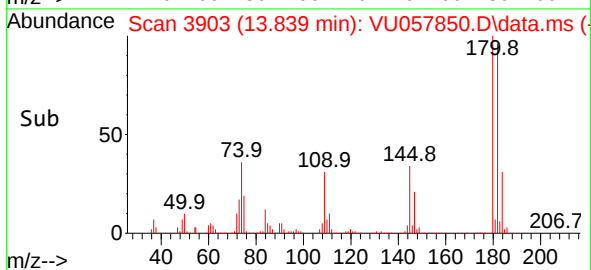
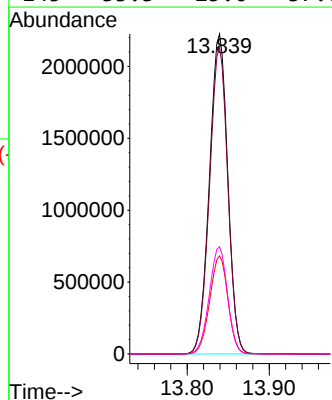
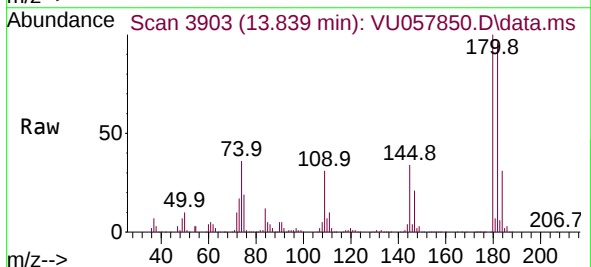


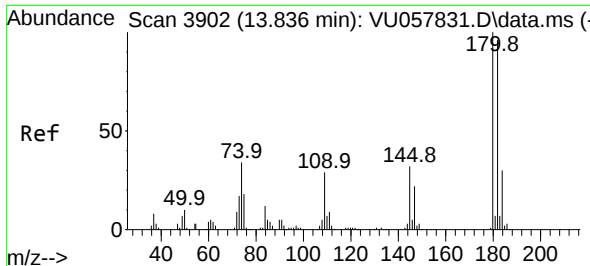
Tgt Ion: 75 Resp: 32633  
 Ion Ratio Lower Upper  
 75 100  
 155 2.4 55.9 83.9#  
 157 2.9 71.1 106.7#



#69  
 1,3,5-Trichlorobenzene  
 Concen: 1018.881 ug/L  
 RT: 13.839 min Scan# 3903  
 Delta R.T. 0.624 min  
 Lab File: VU057850.D  
 Acq: 07 Feb 2024 19:13

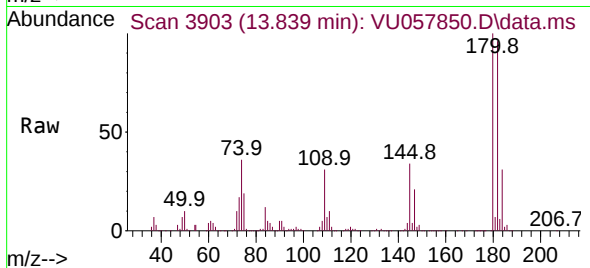
Tgt Ion:180 Resp: 3457942  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 76.0 114.0  
 184 30.5 24.3 36.5  
 145 33.3 25.0 37.6



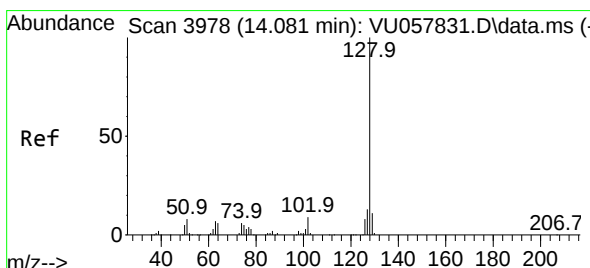
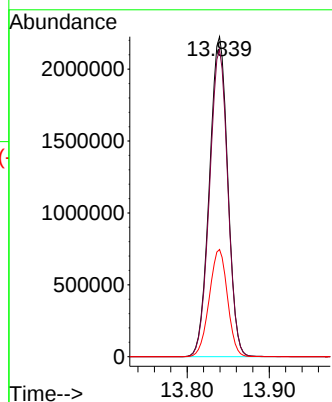
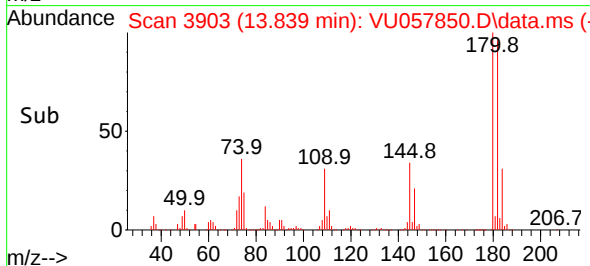


#70  
1,2,4-trichlorobenzene  
Concen: 1192.742 ug/L  
RT: 13.839 min Scan# 3902  
Delta R.T. 0.003 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13

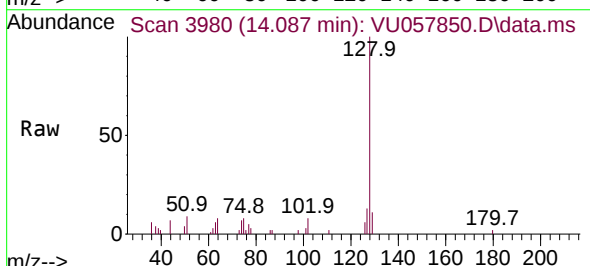
Instrument :  
MSVOA\_U  
ClientSampleId :



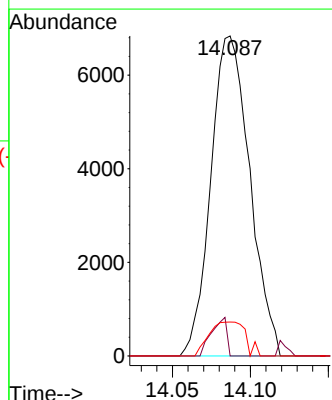
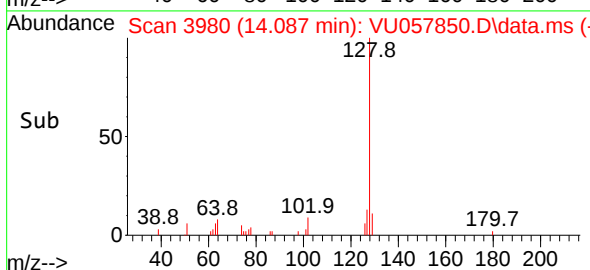
Tgt Ion:180 Resp: 3457942  
Ion Ratio Lower Upper  
180 100  
182 95.6 76.0 114.0  
145 33.3 25.5 38.3

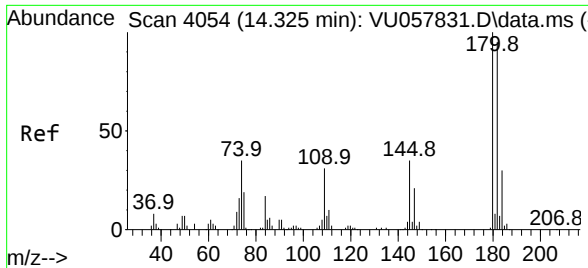


#71  
Naphthalene  
Concen: 1.529 ug/L  
RT: 14.087 min Scan# 3980  
Delta R.T. 0.006 min  
Lab File: VU057850.D  
Acq: 07 Feb 2024 19:13



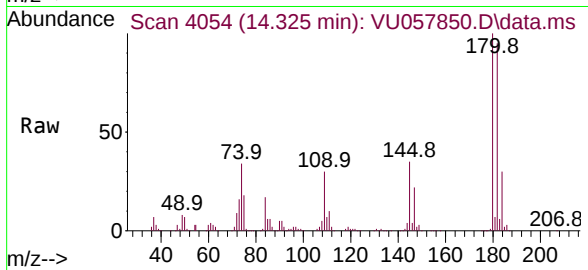
Tgt Ion:128 Resp: 11882  
Ion Ratio Lower Upper  
128 100  
127 4.7 10.2 15.4#  
129 9.4 8.6 13.0





#72  
 1,2,3-Trichlorobenzene  
 Concen: 315.880 ug/L  
 RT: 14.325 min Scan# 40  
 Delta R.T. -0.000 min  
 Lab File: VU057850.D  
 Acq: 07 Feb 2024 19:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion:180 Resp: 856897  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 76.6 114.8  
 145 34.5 27.7 41.5

