

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122123\  
 Data File : VU057182.D  
 Acq On : 22 Dec 2023 10:56  
 Operator : MD/SY  
 Sample : 05912-19  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 22 12:39:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Dec 22 01:33:10 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 155079   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 157149   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 72016    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 74409    | 5.020    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 100.400% |
| 7) Chloroethane-d5            | 1.914  | 69    | 61496    | 5.040    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 100.800% |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 29940    | 4.662    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 93.200%  |
| 20) 2-Butanone-d5             | 4.631  | 46    | 128330   | 55.142   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 110.280% |
| 24) Chloroform-d              | 5.055  | 84    | 137186   | 4.793    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 70653    | 5.179    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 103.600% |
| 32) Benzene-d6                | 5.721  | 84    | 258452   | 4.795    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 75479    | 4.921    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 98.400%  |
| 41) Toluene-d8                | 7.894  | 98    | 220274   | 4.476    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.600%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 28126    | 4.405    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 88.200%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 110597   | 50.874   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 101.740% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 53881    | 4.937    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 98.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 80669    | 5.206    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 104.200% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.602  | 62    | 156254   | 11.526   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.570  | 96    | 1552     | 0.134    | ug/L # | 1        |
| 18) trans-1,2-Dichloroethene  | 3.354  | 96    | 2129     | 0.188    | ug/L   | 88       |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 167475   | 7.464    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96    | 195914   | 15.735   | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane     | 5.316  | 97    | 28544    | 1.143    | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.313  | 117   | 3448     | 0.157    | ug/L   | 100      |
| 33) Benzene                   | 5.769  | 78    | 50840    | 1.021    | ug/L   | 100      |
| 34) Trichloroethene           | 6.541  | 95    | 5423     | 0.372    | ug/L   | 87       |
| 35) Methylcyclohexane         | 6.682  | 83    | 18838    | 0.982    | ug/L # | 19       |
| 37) 1,2-Dichloropropane       | 6.682  | 63    | 8852     | 0.714    | ug/L # | 90       |
| 39) cis-1,3-Dichloropropene   | 7.563  | 75    | 2200     | 0.118    | ug/L # | 60       |
| 48) 2-Hexanone                | 8.631  | 43    | 12834    | 3.238    | ug/L # | 80       |
| 51) Chlorobenzene             | 9.441  | 112   | 1801864  | 52.437   | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146   | 10838    | 0.432    | ug/L   | 94       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146   | 79804    | 3.159    | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146   | 38030    | 1.694    | ug/L   | 96       |
| -----                         |        |       |          |          |        |          |

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Acq On : 22 Dec 2023 10:56  
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Sample : 05912-19  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 59 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

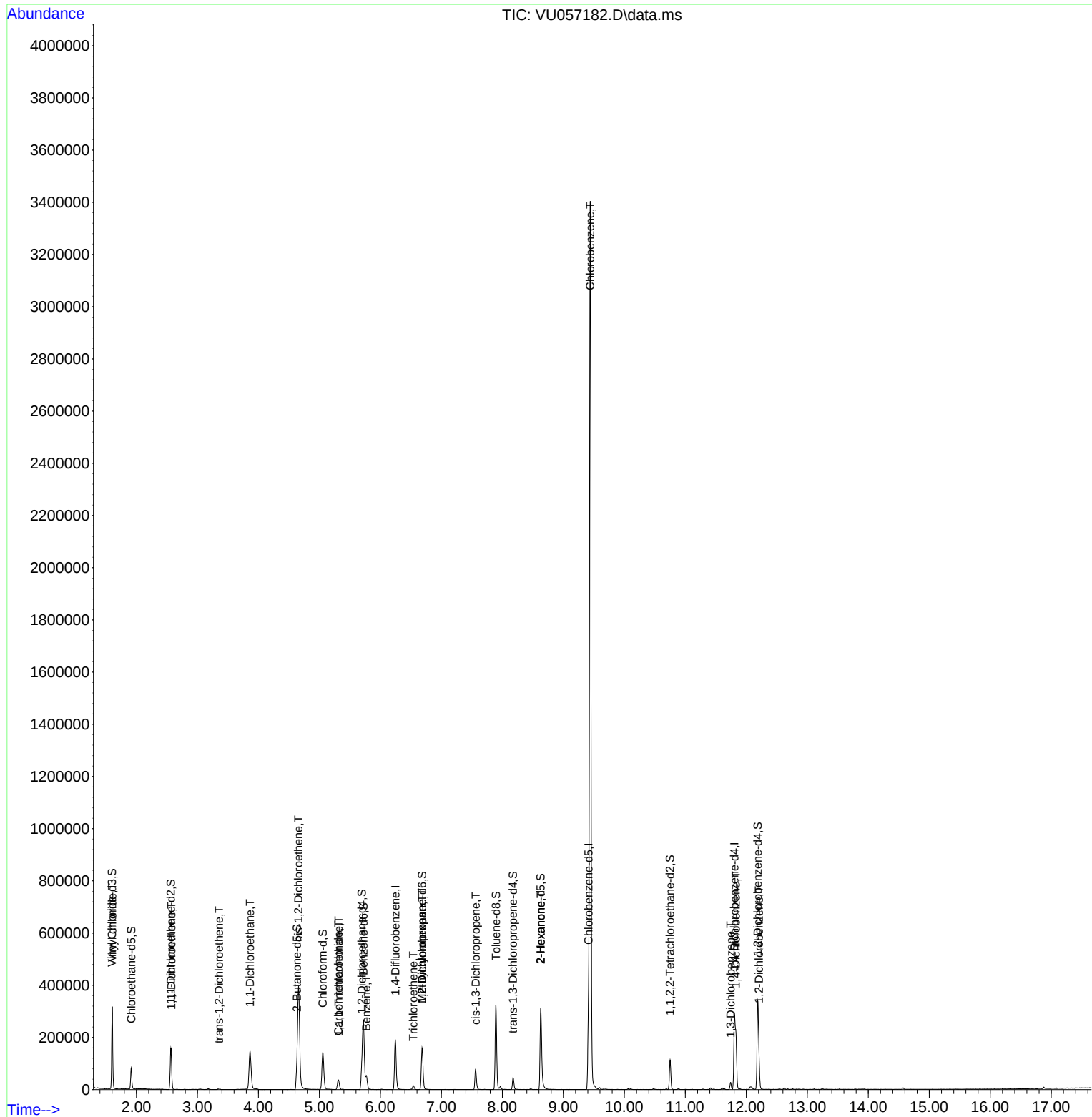
Quant Time: Dec 22 12:39:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122123WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Dec 22 01:33:10 2023  
Response via : Initial Calibration

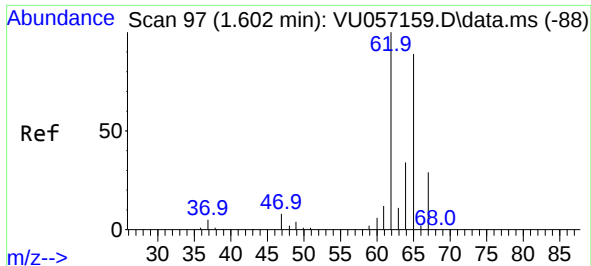
| Compound                                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                 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

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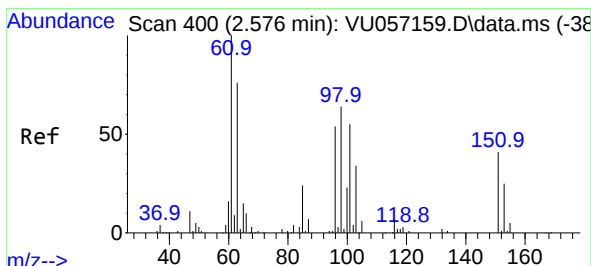
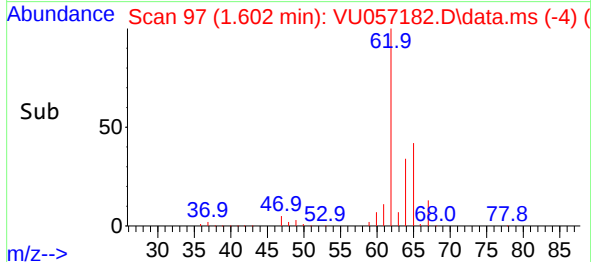
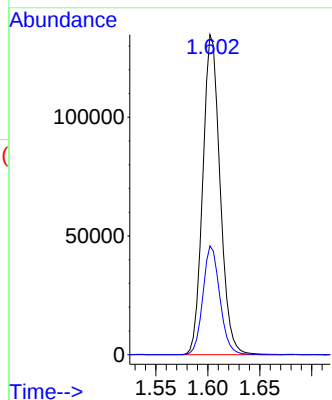
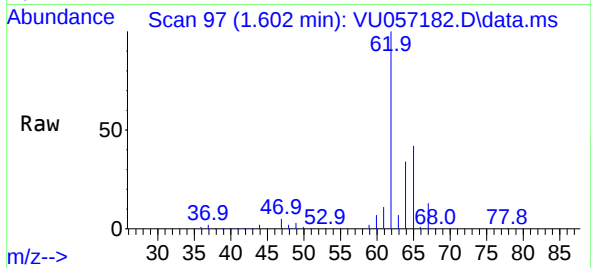




#5  
Vinyl chloride  
Concen: 11.526 ug/L  
RT: 1.602 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

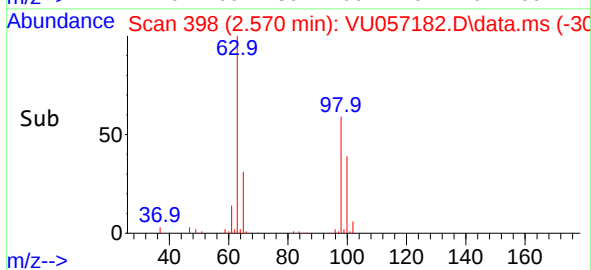
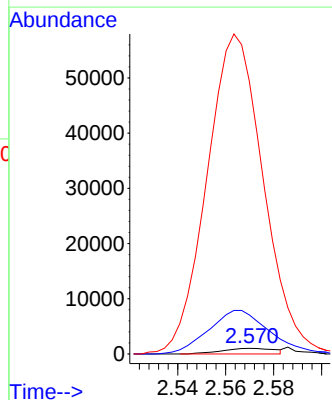
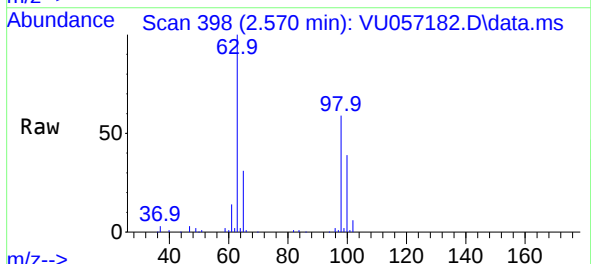
Instrument :  
MSVOA\_U  
ClientSampleId :

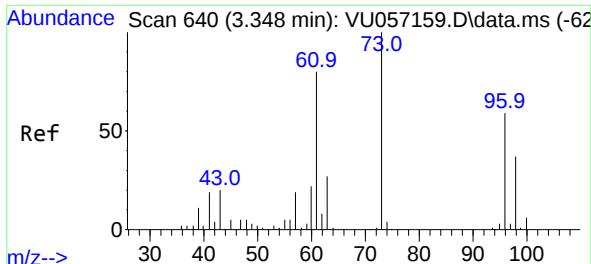
Tgt Ion: 62 Resp: 156254  
Ion Ratio Lower Upper  
62 100  
64 34.0 23.3 43.3



#12  
1,1-Dichloroethene  
Concen: 0.134 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. -0.006 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

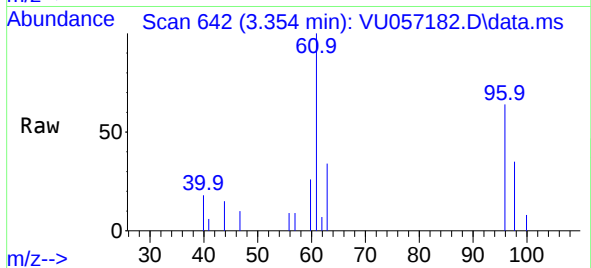
Tgt Ion: 96 Resp: 1552  
Ion Ratio Lower Upper  
96 100  
61 688.3 119.6 222.0#  
63 4805.4 96.2 178.8#





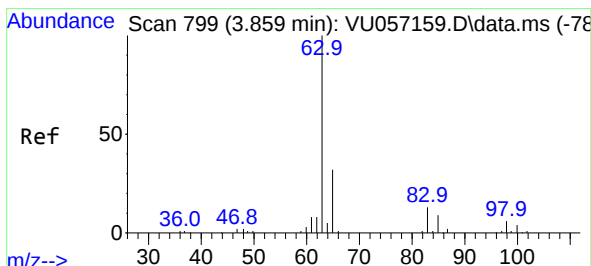
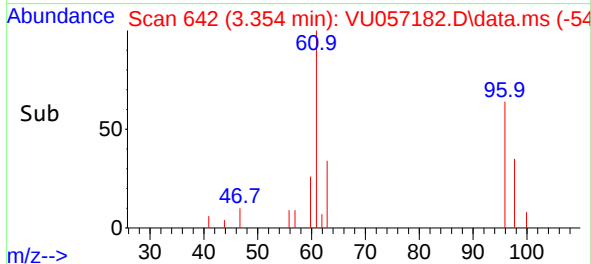
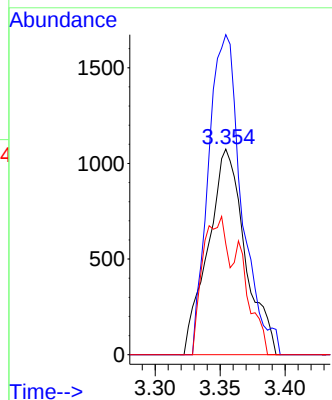
#18  
trans-1,2-Dichloroethene  
Concen: 0.188 ug/L  
RT: 3.354 min Scan# 64  
Delta R.T. 0.006 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion: 96 Resp: 2129

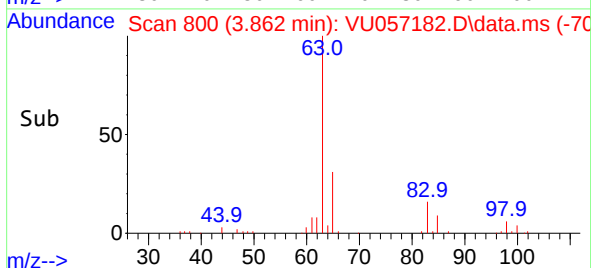
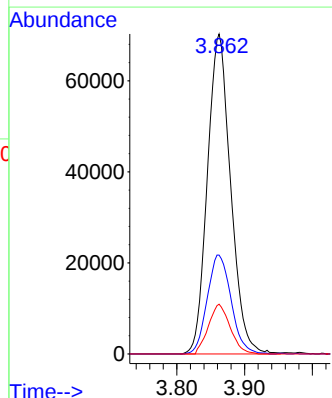
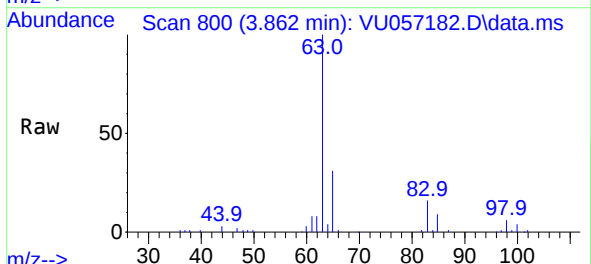
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 155.6 | 98.4  | 182.8 |
| 98  | 53.9  | 43.6  | 81.0  |

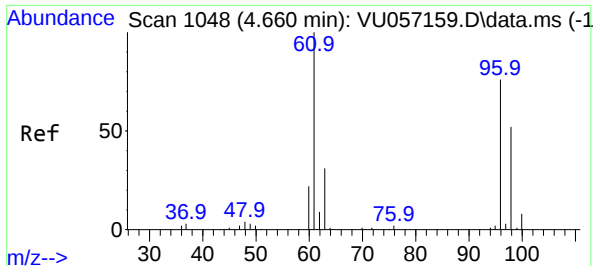


#19  
1,1-Dichloroethane  
Concen: 7.464 ug/L  
RT: 3.862 min Scan# 800  
Delta R.T. 0.003 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Tgt Ion: 63 Resp: 167475

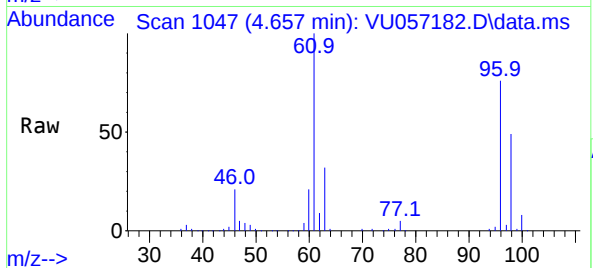
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 30.9  | 21.6  | 40.2  |
| 83  | 15.5  | 10.2  | 19.0  |





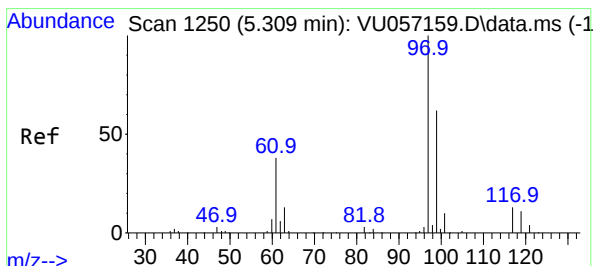
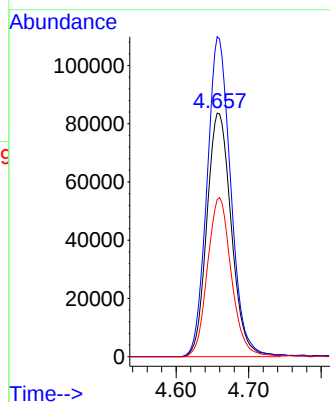
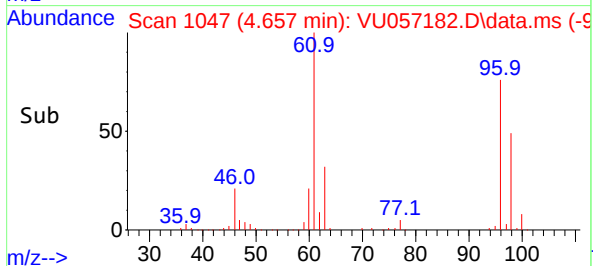
#22  
 cis-1,2-Dichloroethene  
 Concen: 15.735 ug/L  
 RT: 4.657 min Scan# 1047  
 Delta R.T. -0.003 min  
 Lab File: VU057182.D  
 Acq: 22 Dec 2023 10:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :

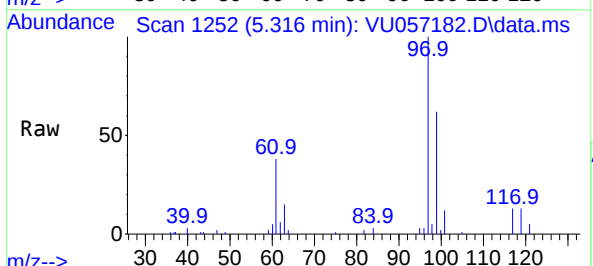


Tgt Ion: 96 Resp: 195914

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 131.4 | 86.8  | 161.2 |
| 98  | 64.5  | 45.5  | 84.5  |

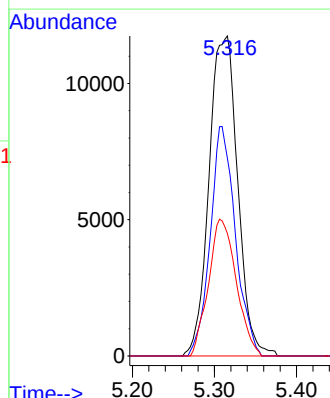
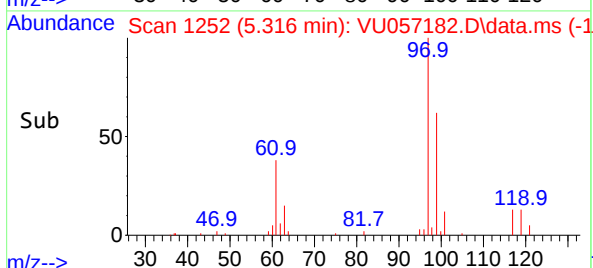


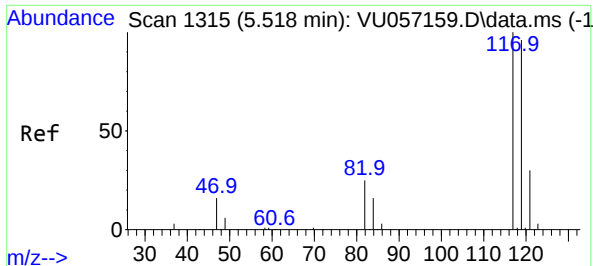
#29  
 1,1,1-Trichloroethane  
 Concen: 1.143 ug/L  
 RT: 5.316 min Scan# 1252  
 Delta R.T. 0.006 min  
 Lab File: VU057182.D  
 Acq: 22 Dec 2023 10:56



Tgt Ion: 97 Resp: 28544

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.0  | 51.2  | 76.8  |
| 61  | 41.4  | 32.5  | 48.7  |

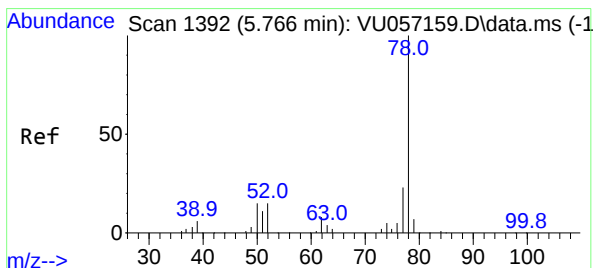
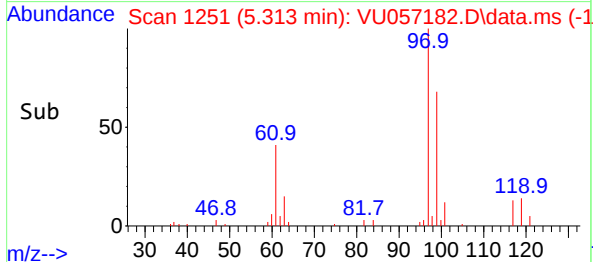
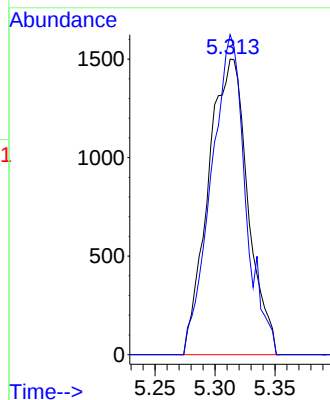
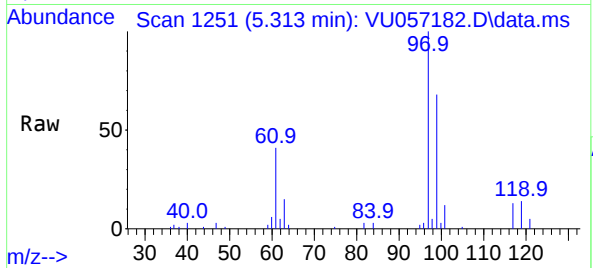




#31  
Carbon tetrachloride  
Concen: 0.157 ug/L  
RT: 5.313 min Scan# 117  
Delta R.T. -0.206 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

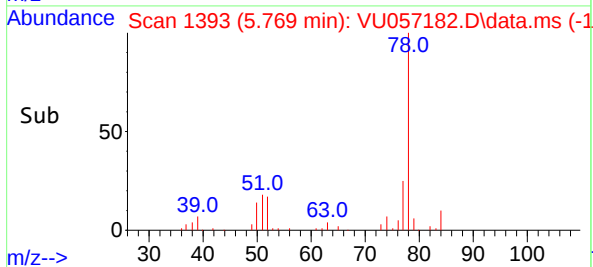
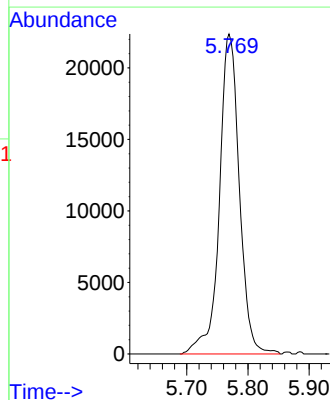
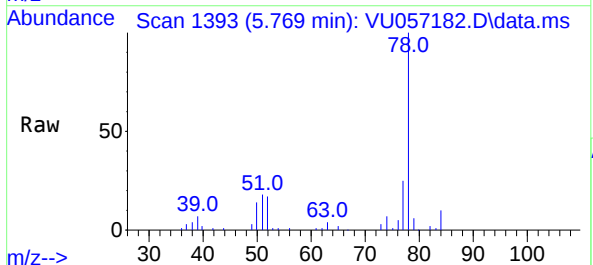
Instrument :  
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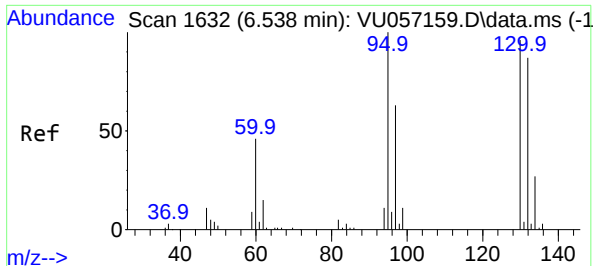
Tgt Ion:117 Resp: 3448  
Ion Ratio Lower Upper  
117 100  
119 94.0 75.1 112.7



#33  
Benzene  
Concen: 1.021 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. 0.003 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Tgt Ion: 78 Resp: 50840



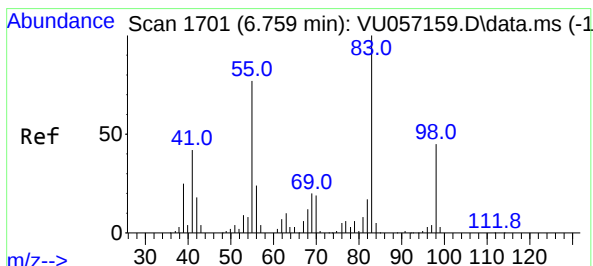
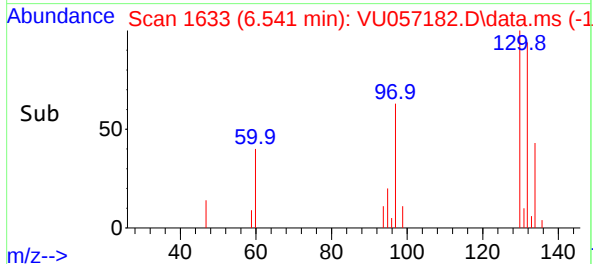
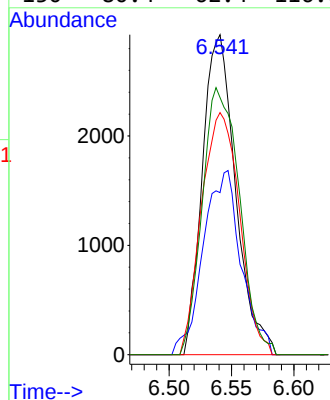
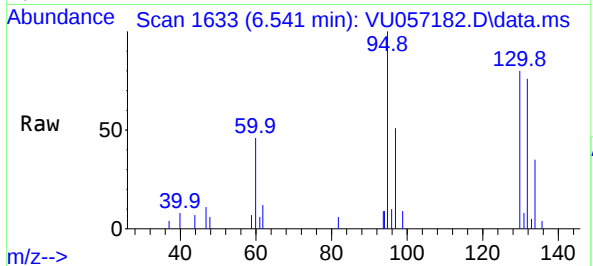


#34  
Trichloroethene  
Concen: 0.372 ug/L  
RT: 6.541 min Scan# 1633  
Delta R.T. 0.003 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 95 Resp: 5423

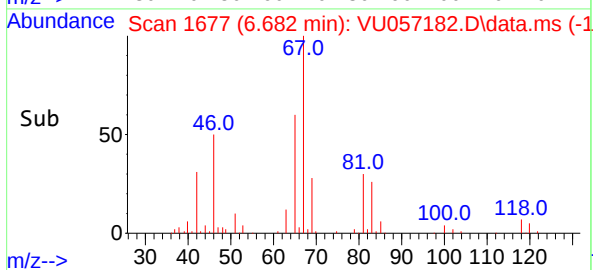
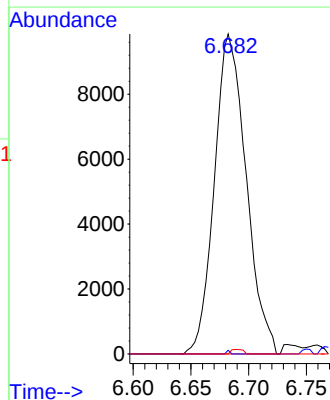
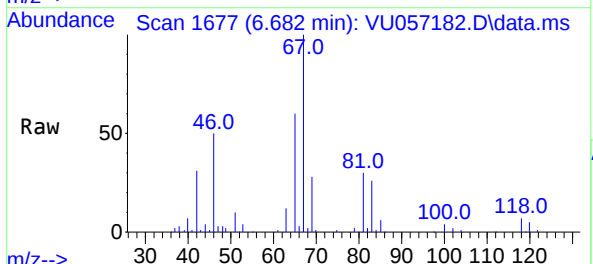
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 50.6  | 44.3  | 82.3  |
| 132 | 75.7  | 62.6  | 116.2 |
| 130 | 80.4  | 62.4  | 116.0 |

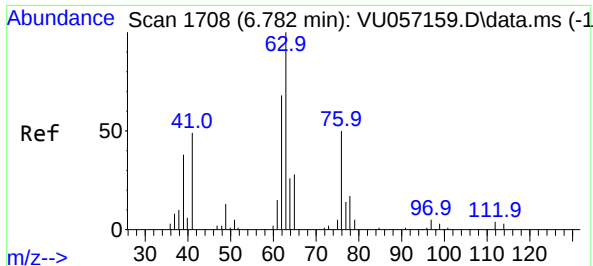


#35  
Methylcyclohexane  
Concen: 0.982 ug/L  
RT: 6.682 min Scan# 1677  
Delta R.T. -0.077 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Tgt Ion: 83 Resp: 18838

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.1   | 61.3  | 91.9# |
| 98  | 0.5   | 36.6  | 55.0# |

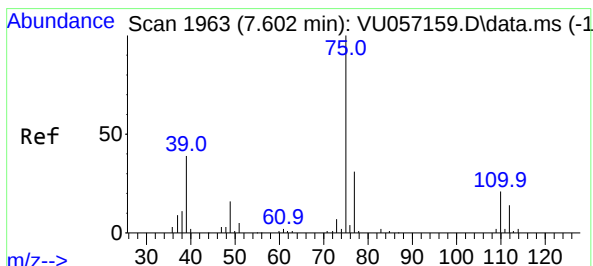
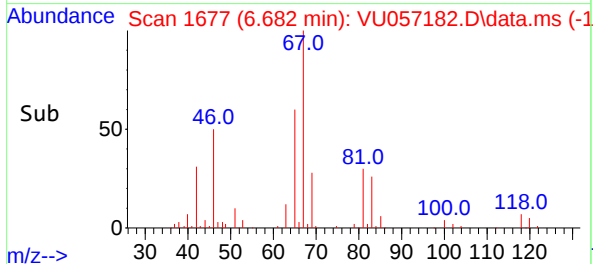
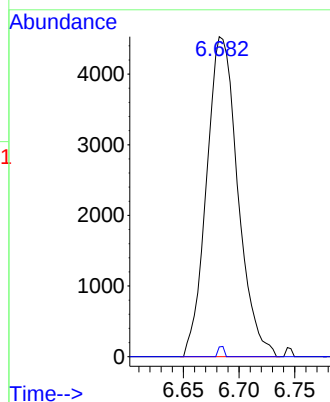
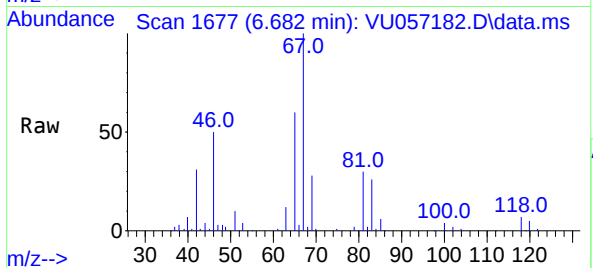




#37  
1,2-Dichloropropane  
Concen: 0.714 ug/L  
RT: 6.682 min Scan# 11  
Delta R.T. -0.100 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

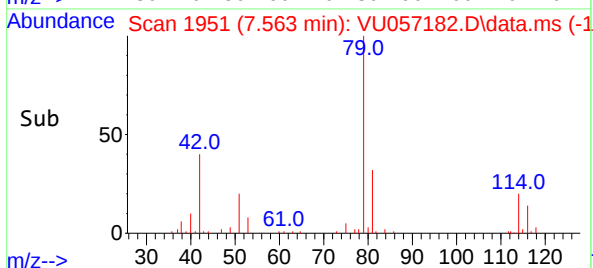
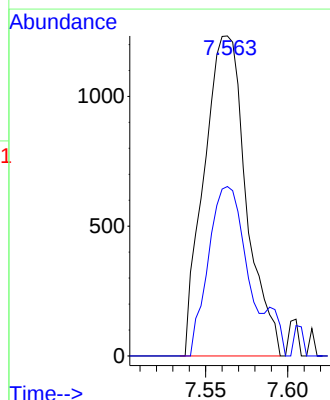
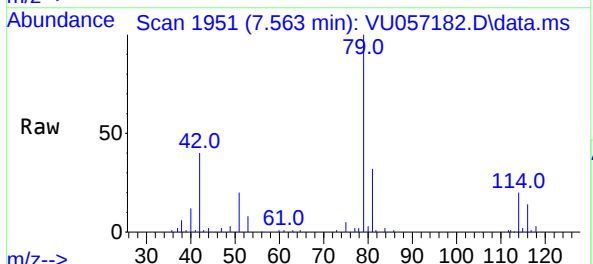
Instrument :  
MSVOA\_U  
ClientSampleId :

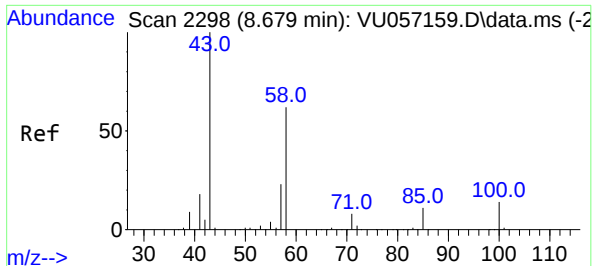
Tgt Ion: 63 Resp: 8852  
Ion Ratio Lower Upper  
63 100  
112 0.6 3.1 4.7#



#39  
cis-1,3-Dichloropropene  
Concen: 0.118 ug/L  
RT: 7.563 min Scan# 1951  
Delta R.T. -0.039 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Tgt Ion: 75 Resp: 2200  
Ion Ratio Lower Upper  
75 100  
77 53.0 21.8 40.4#





#48

2-Hexanone

Concen: 3.238 ug/L

RT: 8.631 min Scan# 21

Delta R.T. -0.048 min

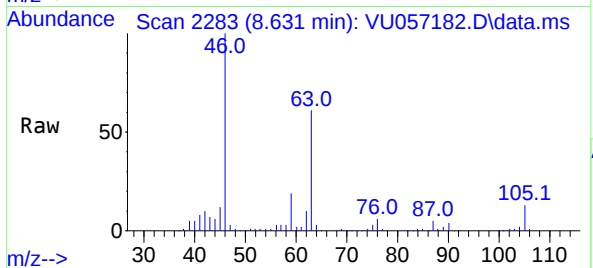
Lab File: VU057182.D

Acq: 22 Dec 2023 10:56

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion: 43 Resp: 12834

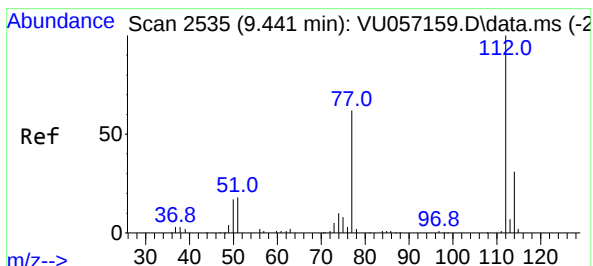
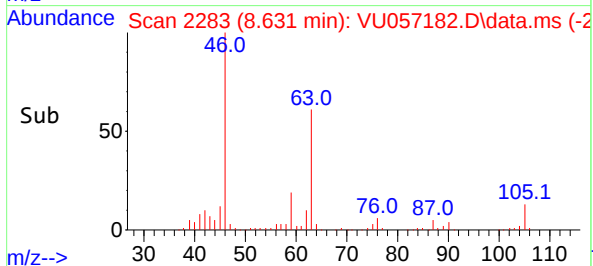
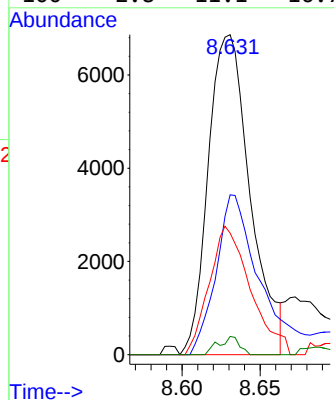
Ion Ratio Lower Upper

43 100

58 52.3 49.8 74.8

57 39.4 18.5 27.7#

100 2.8 11.1 16.7#



#51

Chlorobenzene

Concen: 52.437 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU057182.D

Acq: 22 Dec 2023 10:56

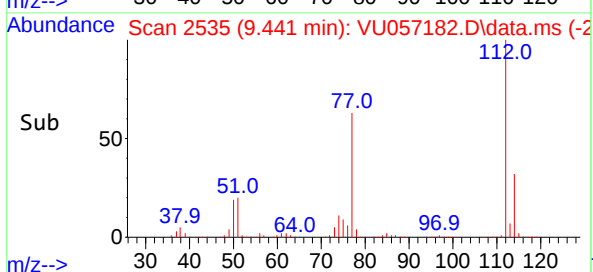
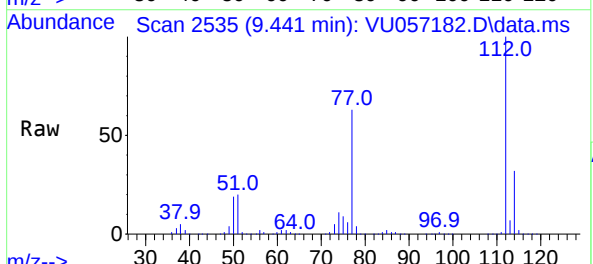
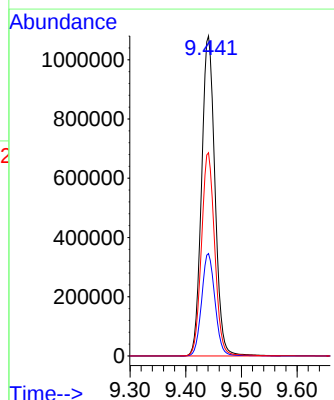
Tgt Ion: 112 Resp: 1801864

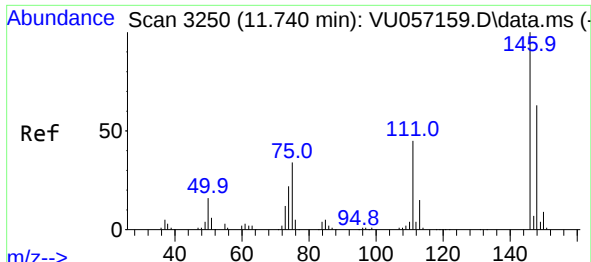
Ion Ratio Lower Upper

112 100

114 32.0 22.7 42.1

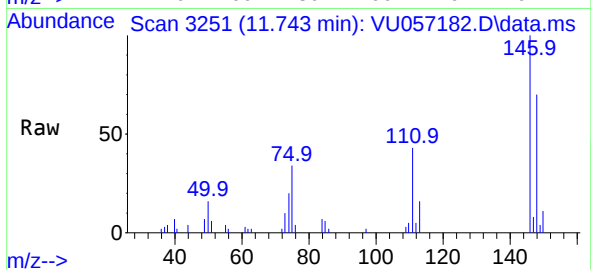
77 63.5 52.2 78.2



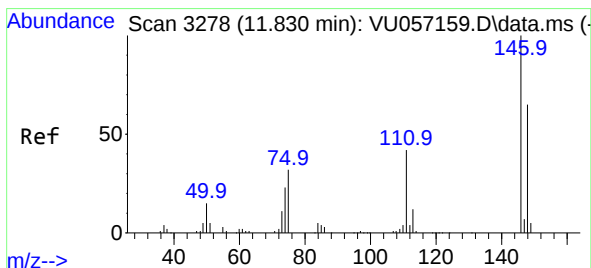
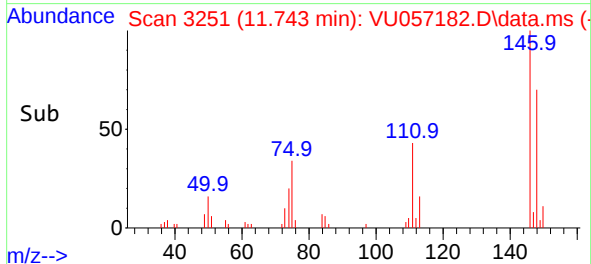
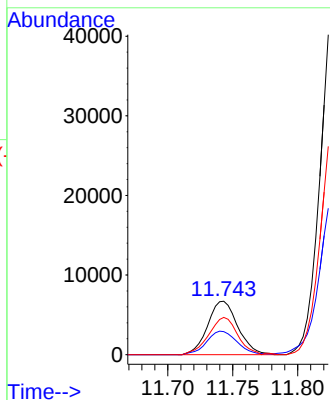


#64  
1,3-Dichlorobenzene  
Concen: 0.432 ug/L  
RT: 11.743 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

Instrument :  
MSVOA\_U  
ClientSampleId :

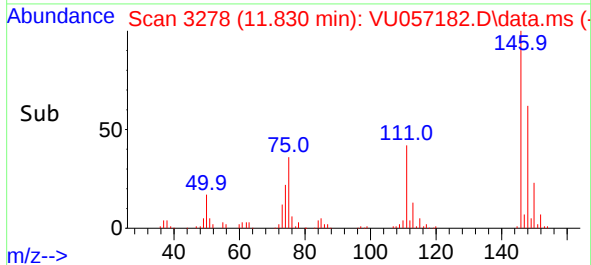
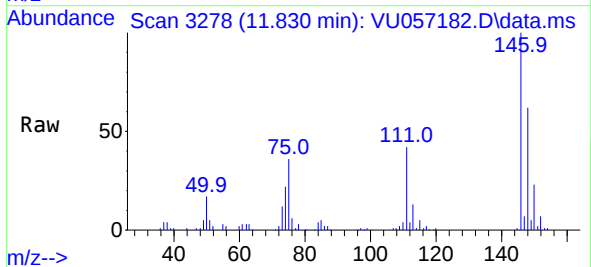
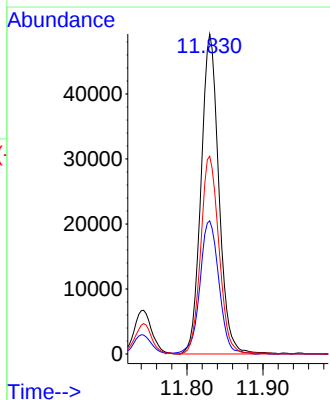


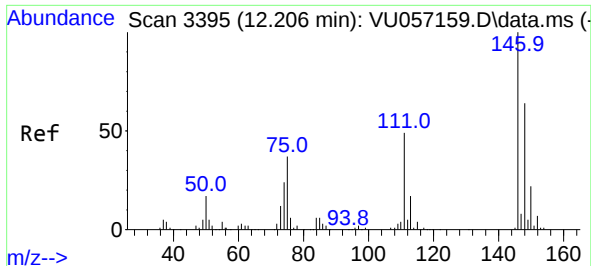
Tgt Ion:146 Resp: 10838  
Ion Ratio Lower Upper  
146 100  
111 43.2 30.4 56.4  
148 69.6 43.4 80.6



#65  
1,4-Dichlorobenzene  
Concen: 3.159 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. 0.000 min  
Lab File: VU057182.D  
Acq: 22 Dec 2023 10:56

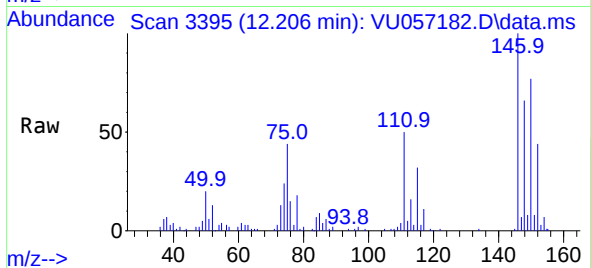
Tgt Ion:146 Resp: 79804  
Ion Ratio Lower Upper  
146 100  
111 41.6 28.1 52.3  
148 61.8 43.0 79.8





#67  
 1,2-Dichlorobenzene  
 Concen: 1.694 ug/L  
 RT: 12.206 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VU057182.D  
 Acq: 22 Dec 2023 10:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion:146 Resp: 38030  
 Ion Ratio Lower Upper  
 146 100  
 111 49.8 37.9 56.9  
 148 66.5 50.1 75.1

