

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011224\  
 Data File : VU057487.D  
 Acq On : 12 Jan 2024 17:05  
 Operator : MD/SY  
 Sample : P1062-09  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 13 01:39:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR011124WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Jan 13 01:34:13 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 263214   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 262158   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 100774   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 130839   | 4.899    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 98.000%  |
| 7) Chloroethane-d5            | 1.914  | 69    | 109631   | 5.276    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 105.600% |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 56799    | 5.030    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 100.600% |
| 20) 2-Butanone-d5             | 4.637  | 46    | 278173   | 55.069   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 110.140% |
| 24) Chloroform-d              | 5.055  | 84    | 240779   | 5.218    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 104.400% |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 120926   | 5.442    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 108.800% |
| 32) Benzene-d6                | 5.721  | 84    | 459054   | 4.801    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 149736   | 5.023    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 100.400% |
| 41) Toluene-d8                | 7.894  | 98    | 362164   | 4.487    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.800%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 48355    | 4.666    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 93.400%  |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 181109   | 48.262   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 96.520%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 100827   | 5.007    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 100.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 115566   | 5.710    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 114.200% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.602  | 62    | 54242    | 2.732    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 26063    | 1.695    | ug/L # | 3        |
| 14) Carbon disulfide          | 2.792  | 76    | 19440    | 0.452    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 3.354  | 73    | 293045   | 7.681    | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 36299    | 1.054    | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 99756    | 5.614    | ug/L   | 96       |
| 25) Chloroform                | 5.078  | 83    | 6459     | 0.181    | ug/L   | 80       |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97    | 21618    | 0.668    | ug/L   | 98       |
| 34) Trichloroethene           | 6.537  | 95    | 169754   | 8.390    | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.685  | 83    | 34739    | 1.291    | ug/L # | 15       |
| 37) 1,2-Dichloropropane       | 6.682  | 63    | 16076    | 0.736    | ug/L # | 91       |
| 39) cis-1,3-Dichloropropene   | 7.563  | 75    | 3480     | 0.121    | ug/L # | 58       |
| 42) Toluene                   | 7.965  | 91    | 98287    | 1.295    | ug/L   | 95       |
| 47) Tetrachloroethene         | 8.550  | 164   | 7747     | 0.577    | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.550  | 129   | 7952     | 0.526    | ug/L # | 10       |
| 53) m,p-Xylene                | 9.692  | 106   | 3557     | 0.126    | ug/L   | 87       |
| 61) 1,2,3-Trichloropropane    | 11.807 | 75    | 12927    | 1.371    | ug/L # | 69       |
| 68) 1,2-Dibromo-3-chloropr... | 12.772 | 75    | 304      | 0.168    | ug/L # | 10       |

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Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jan 13 01:39:36 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR011124WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Sat Jan 13 01:34:13 2024  
Response via : Initial Calibration

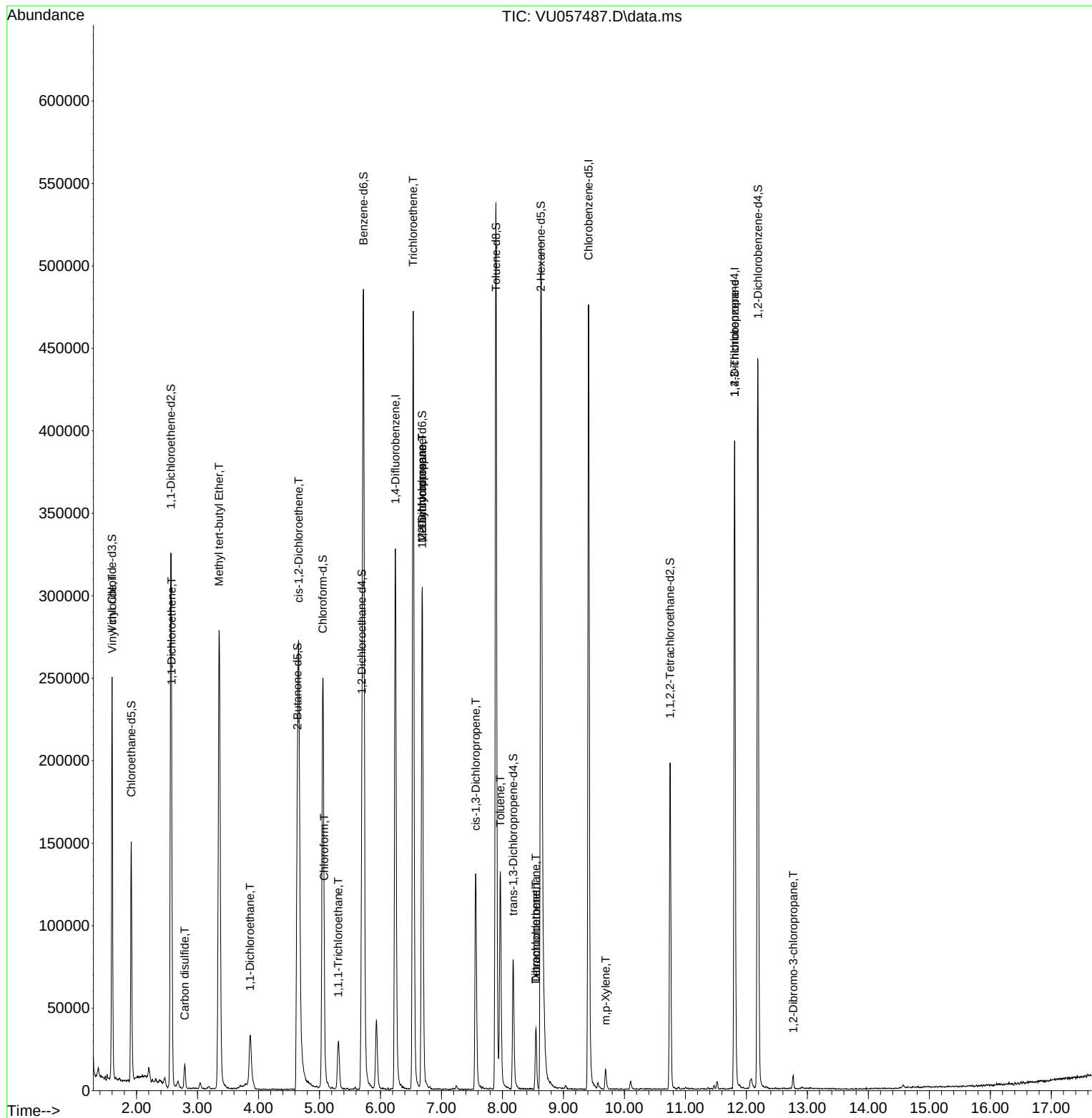
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

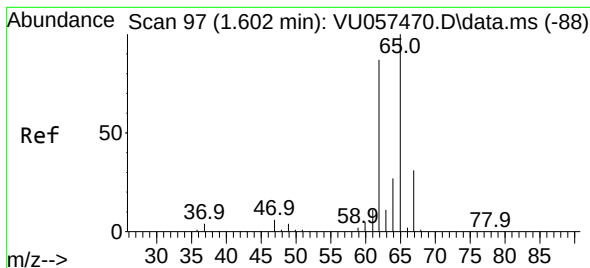
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.732 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

Instrument :

MSVOA\_U

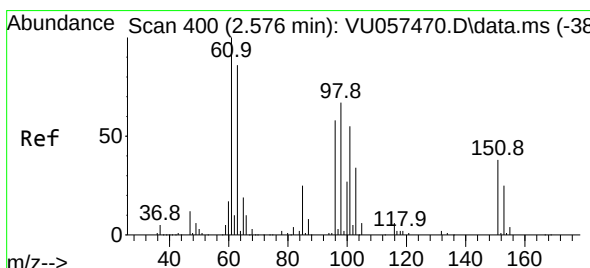
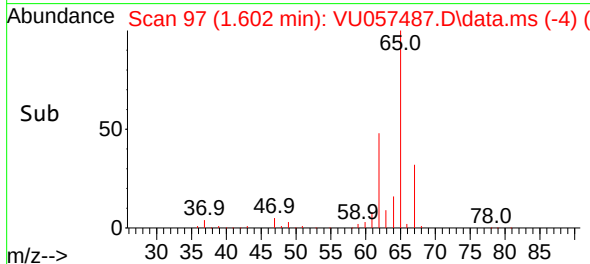
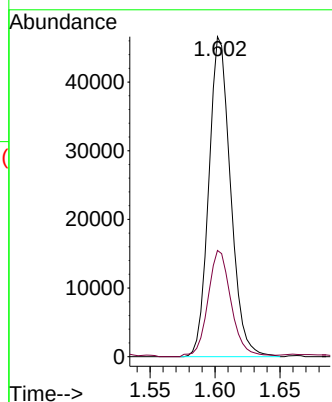
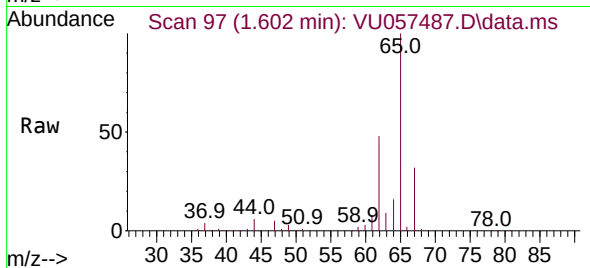
ClientSampleId :

Tgt Ion: 62 Resp: 54242

Ion Ratio Lower Upper

62 100

64 33.2 22.9 42.5



#12

1,1-Dichloroethene

Concen: 1.695 ug/L

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

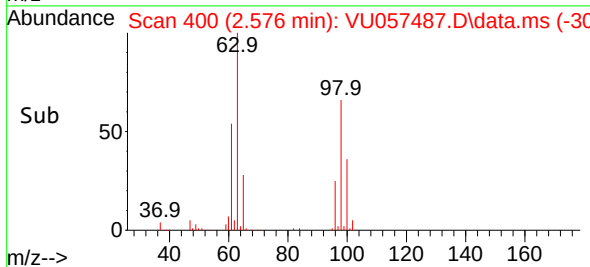
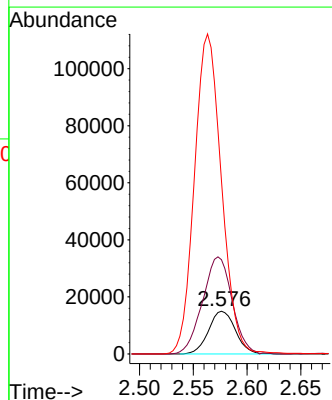
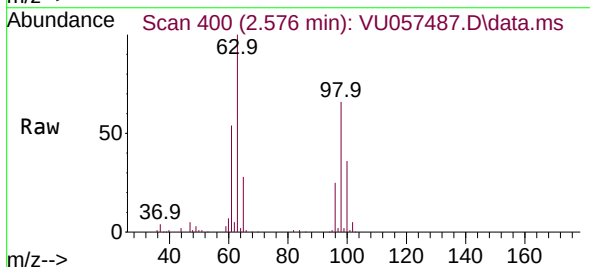
Tgt Ion: 96 Resp: 26063

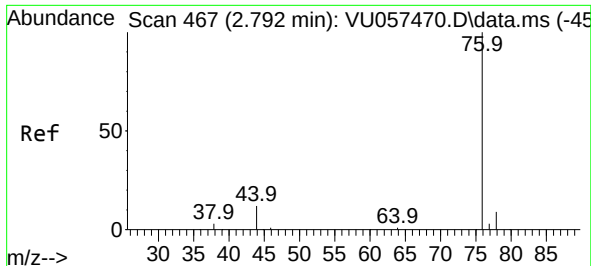
Ion Ratio Lower Upper

96 100

61 221.0 130.9 243.1

63 405.9 114.8 213.2#





#14

Carbon disulfide

Concen: 0.452 ug/L

RT: 2.792 min Scan# 4

Delta R.T. -0.000 min

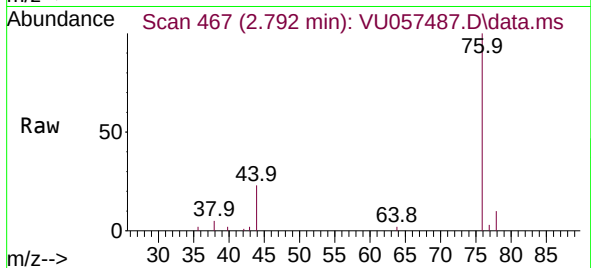
Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

Instrument :

MSVOA\_U

ClientSampleId :

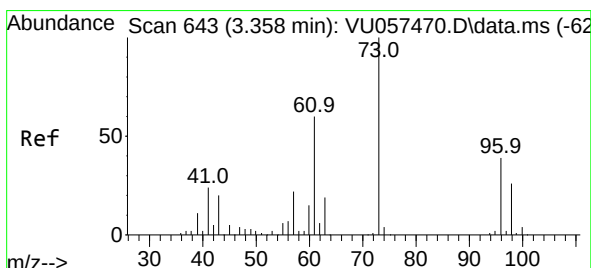
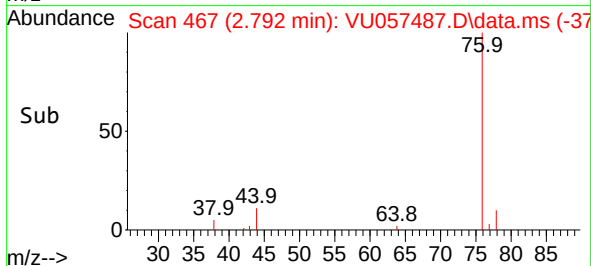
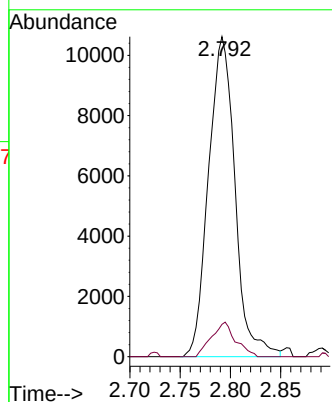


Tgt Ion: 76 Resp: 19440

Ion Ratio Lower Upper

76 100

78 10.1 7.3 10.9



#17

Methyl tert-butyl Ether

Concen: 7.681 ug/L

RT: 3.354 min Scan# 642

Delta R.T. -0.003 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

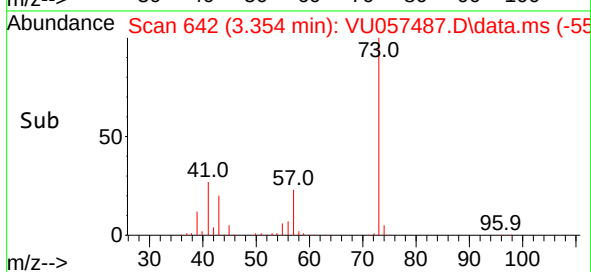
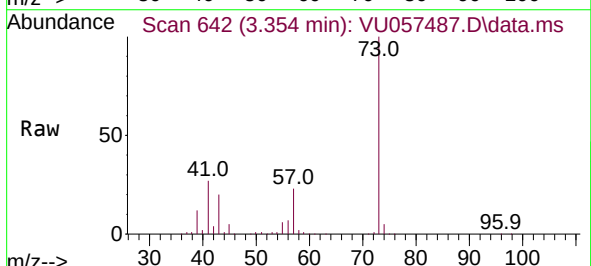
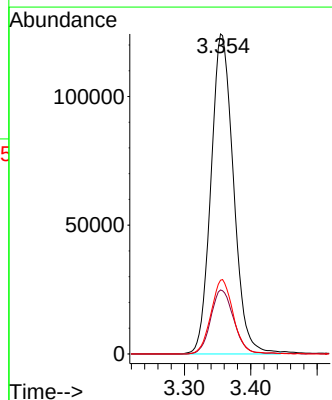
Tgt Ion: 73 Resp: 293045

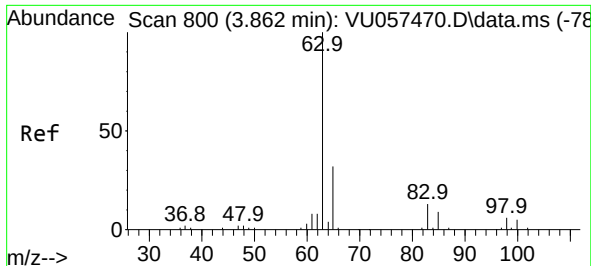
Ion Ratio Lower Upper

73 100

43 20.4 16.1 24.1

57 22.9 18.2 27.4





#19

1,1-Dichloroethane

Concen: 1.054 ug/L

RT: 3.862 min Scan# 800

Delta R.T. -0.000 min

Lab File: VU057487.D

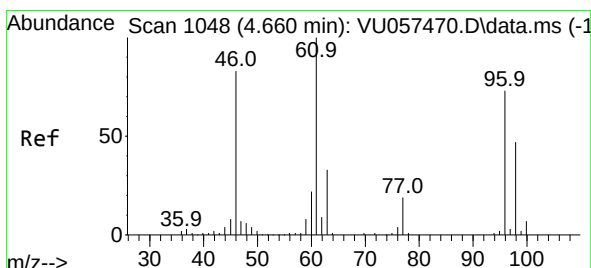
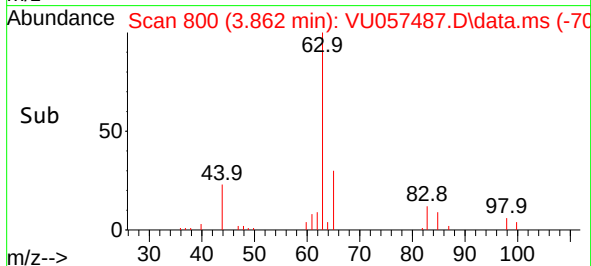
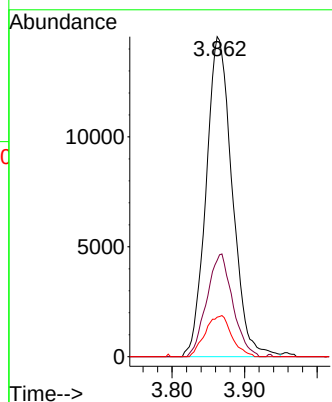
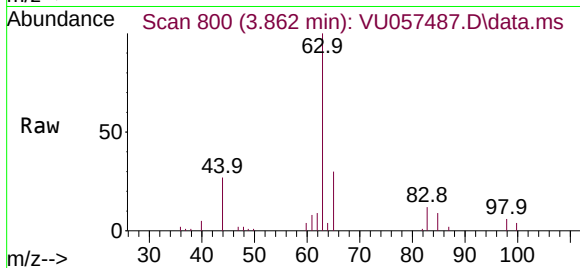
Acq: 12 Jan 2024 17:05

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 36299 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 30.1  | 22.3  | 41.3  |
| 83       | 12.4  | 9.1   | 16.9  |



#22

cis-1,2-Dichloroethene

Concen: 5.614 ug/L

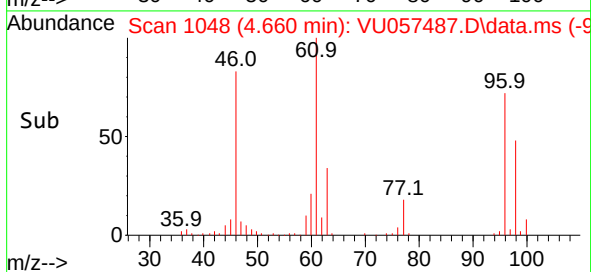
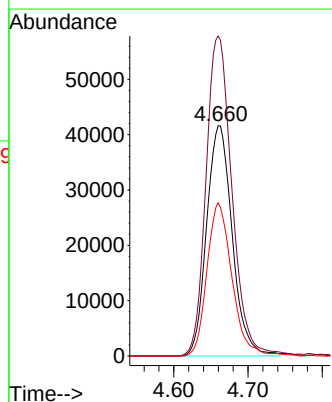
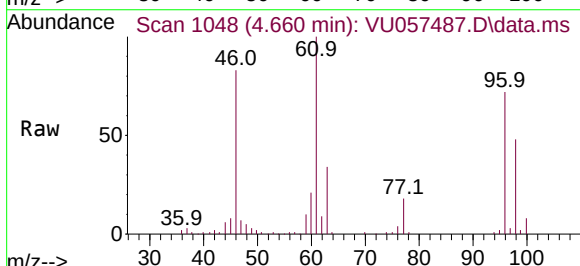
RT: 4.660 min Scan# 1048

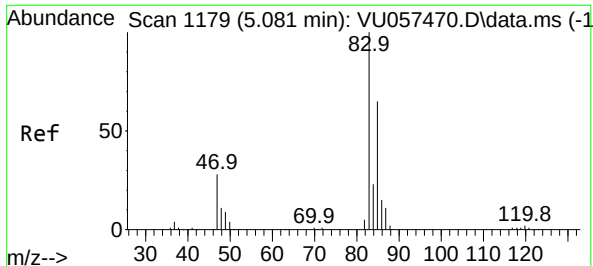
Delta R.T. -0.000 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 99756 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 139.0 | 93.4  | 173.4 |
| 98       | 66.5  | 44.9  | 83.3  |





#25

Chloroform

Concen: 0.181 ug/L

RT: 5.078 min Scan# 1179

Delta R.T. -0.003 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

Instrument :

MSVOA\_U

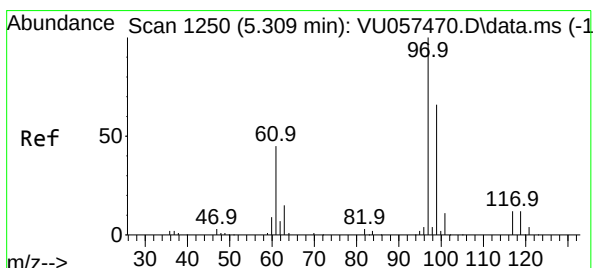
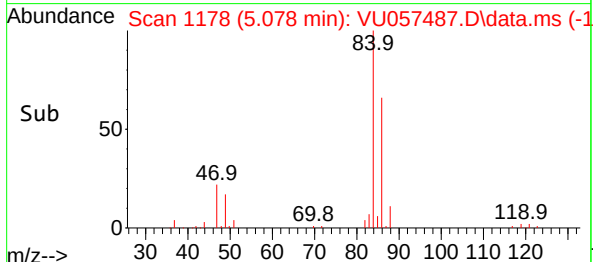
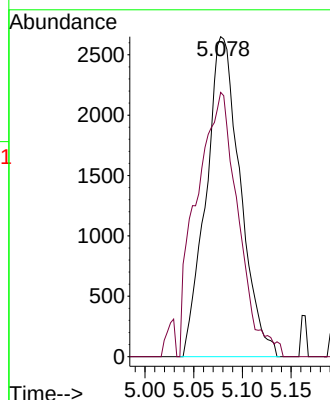
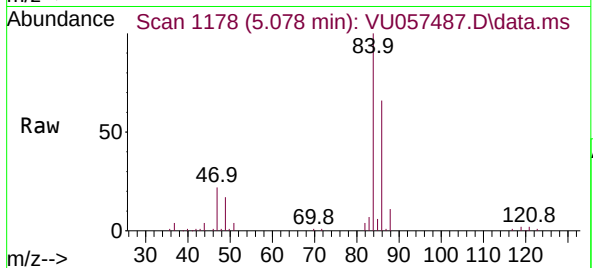
ClientSampleId :

Tgt Ion: 83 Resp: 6459

Ion Ratio Lower Upper

83 100

85 82.6 46.7 86.7



#29

1,1,1-Trichloroethane

Concen: 0.668 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. -0.000 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

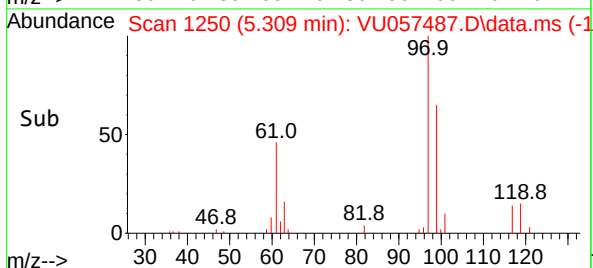
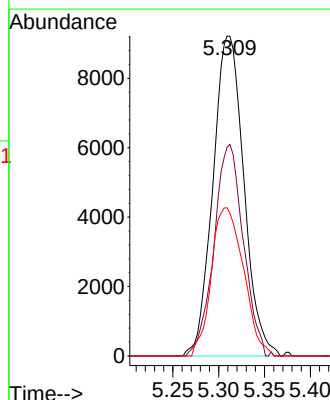
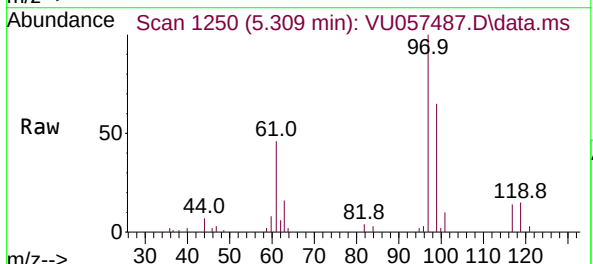
Tgt Ion: 97 Resp: 21618

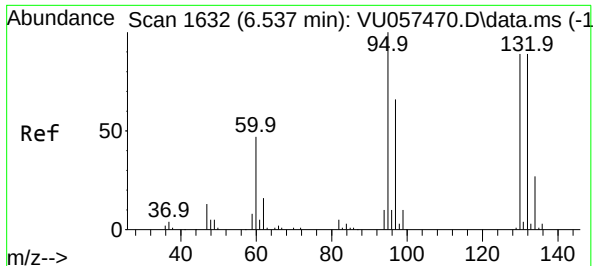
Ion Ratio Lower Upper

97 100

99 62.6 51.4 77.0

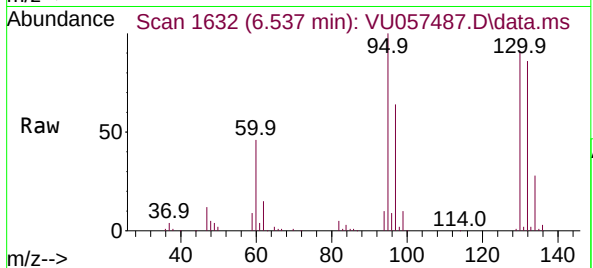
61 48.1 36.9 55.3





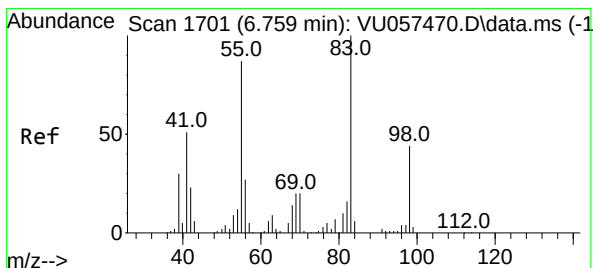
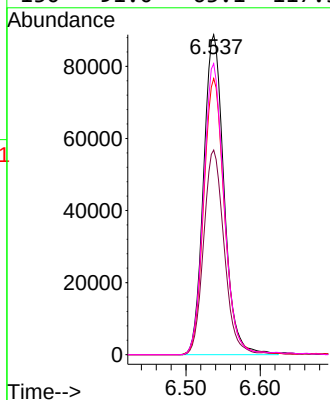
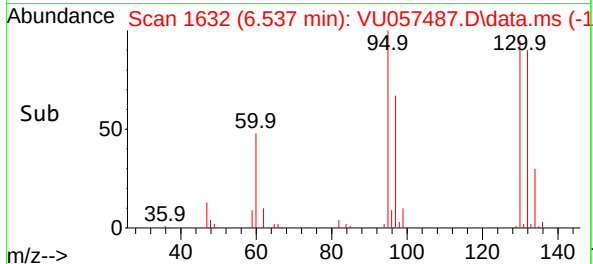
#34  
Trichloroethene  
Concen: 8.390 ug/L  
RT: 6.537 min Scan# 1678  
Delta R.T. -0.000 min  
Lab File: VU057487.D  
Acq: 12 Jan 2024 17:05

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion: 95 Resp: 169754

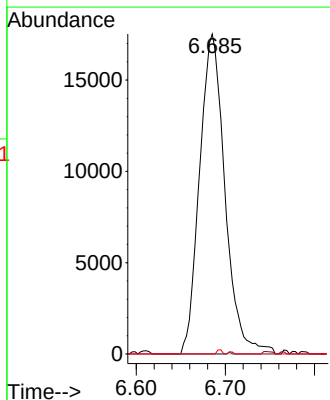
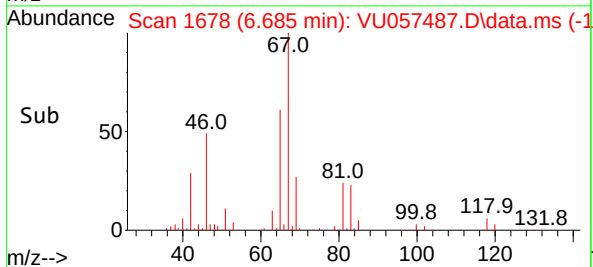
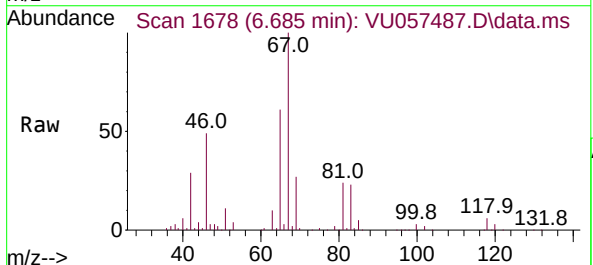
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.0  | 45.0  | 83.6  |
| 132 | 86.3  | 61.7  | 114.5 |
| 130 | 91.0  | 63.1  | 117.3 |



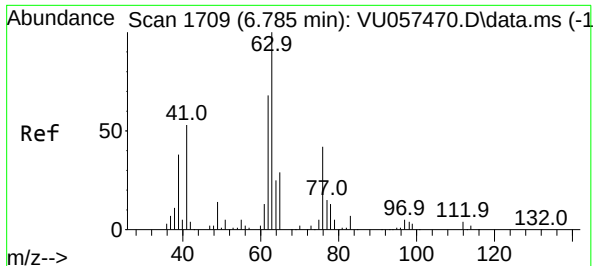
#35  
Methylcyclohexane  
Concen: 1.291 ug/L  
RT: 6.685 min Scan# 1678  
Delta R.T. -0.074 min  
Lab File: VU057487.D  
Acq: 12 Jan 2024 17:05

Tgt Ion: 83 Resp: 34739

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 83  | 100   |       |        |
| 55  | 0.1   | 68.7  | 103.1# |
| 98  | 0.3   | 36.3  | 54.5#  |







#37

1,2-Dichloropropane

Concen: 0.736 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

Instrument :

MSVOA\_U

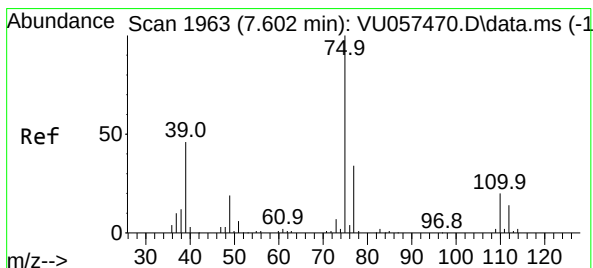
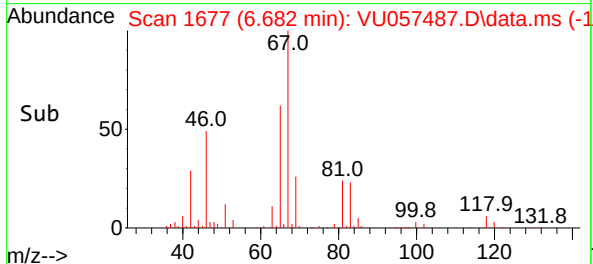
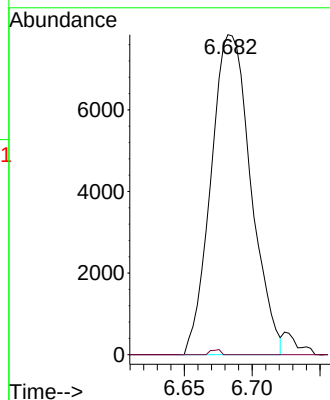
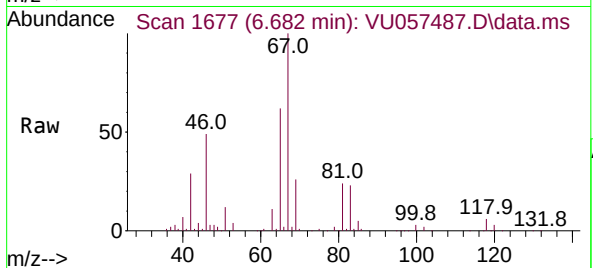
ClientSampleId :

Tgt Ion: 63 Resp: 16076

Ion Ratio Lower Upper

63 100

112 0.4 2.7 4.1#



#39

cis-1,3-Dichloropropene

Concen: 0.121 ug/L

RT: 7.563 min Scan# 1951

Delta R.T. -0.039 min

Lab File: VU057487.D

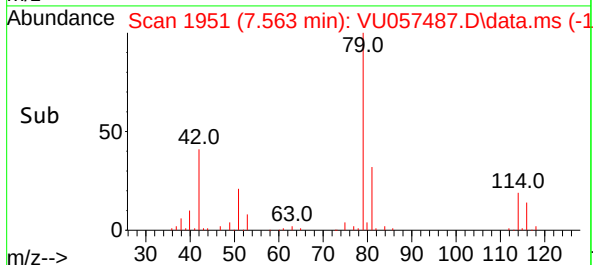
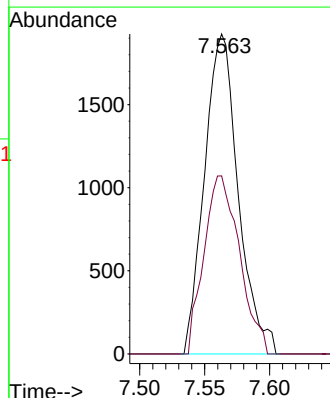
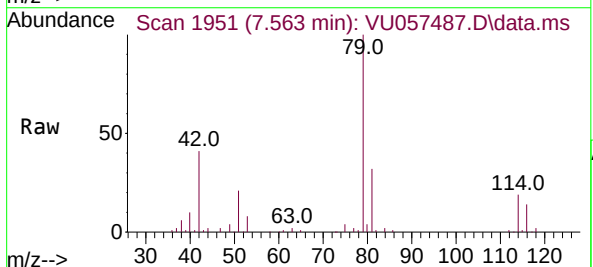
Acq: 12 Jan 2024 17:05

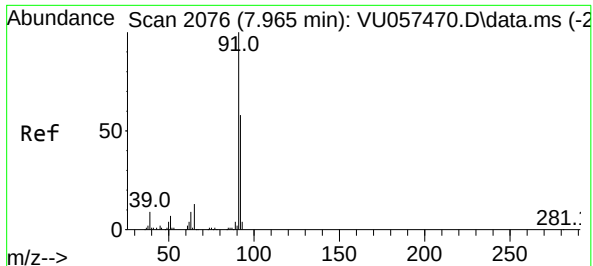
Tgt Ion: 75 Resp: 3480

Ion Ratio Lower Upper

75 100

77 55.6 22.5 41.9#





#42

Toluene

Concen: 1.295 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

Instrument :

MSVOA\_U

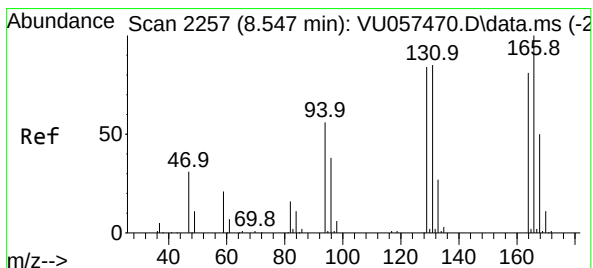
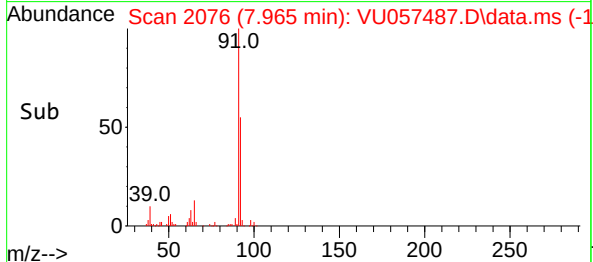
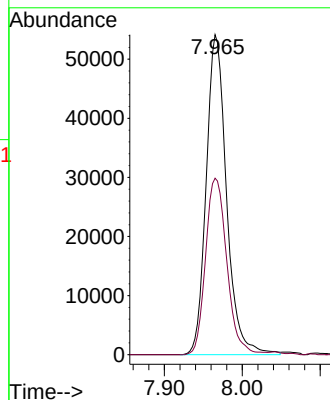
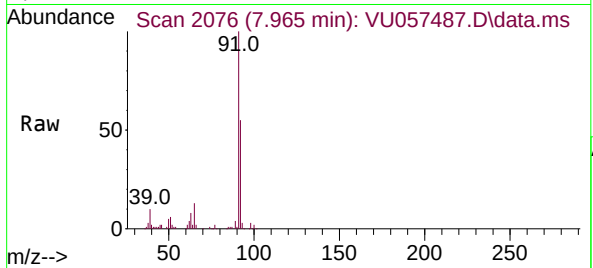
ClientSampleId :

Tgt Ion: 91 Resp: 98287

Ion Ratio Lower Upper

91 100

92 55.1 41.2 76.4



#47

Tetrachloroethene

Concen: 0.577 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.003 min

Lab File: VU057487.D

Acq: 12 Jan 2024 17:05

Tgt Ion: 164 Resp: 7747

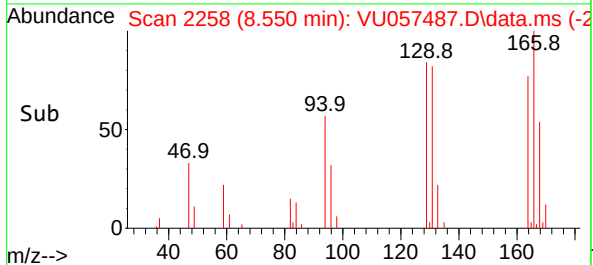
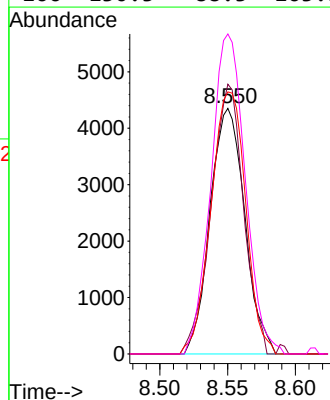
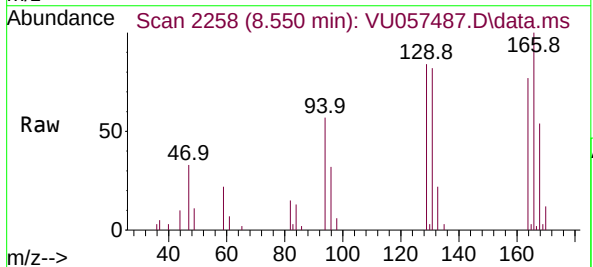
Ion Ratio Lower Upper

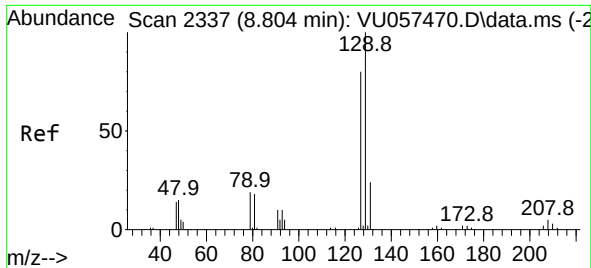
164 100

129 109.9 74.8 138.8

131 106.7 70.3 130.7

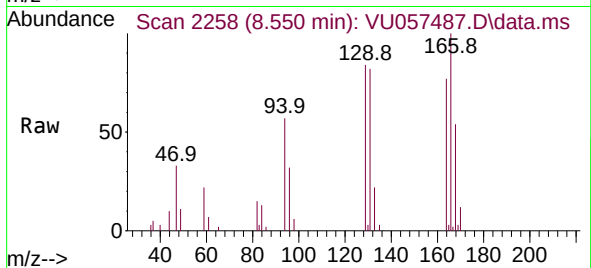
166 130.3 88.3 163.9



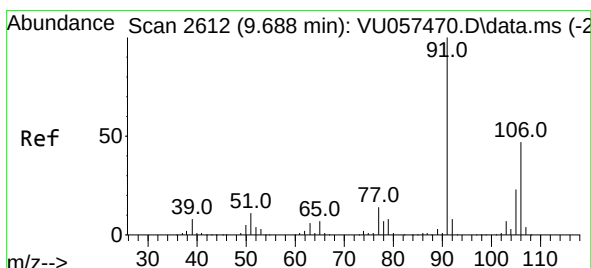
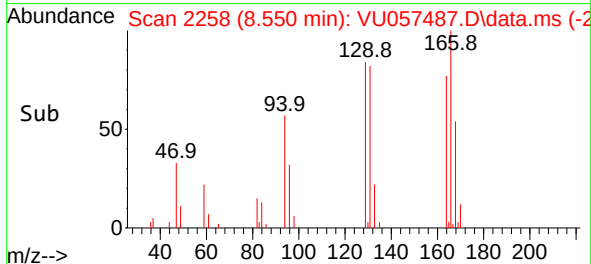
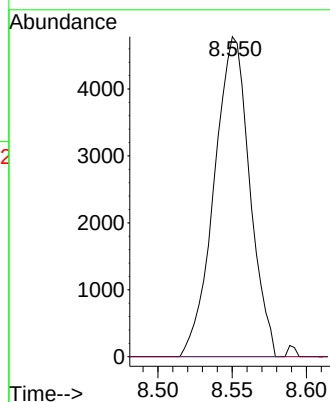


#49  
Dibromochloromethane  
Concen: 0.526 ug/L  
RT: 8.550 min Scan# 21  
Delta R.T. -0.254 min  
Lab File: VU057487.D  
Acq: 12 Jan 2024 17:05

Instrument :  
MSVOA\_U  
ClientSampleId :

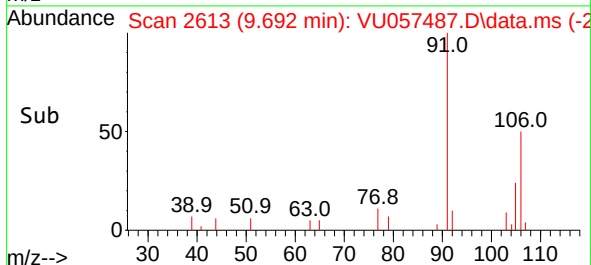
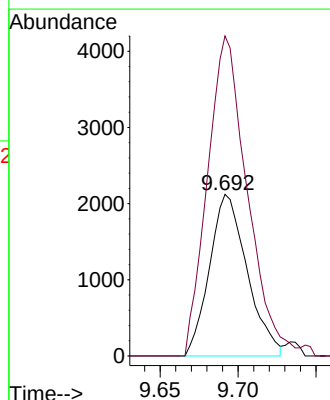
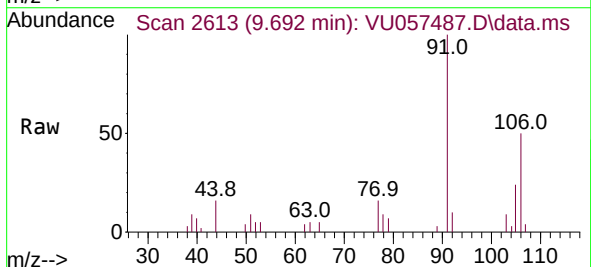


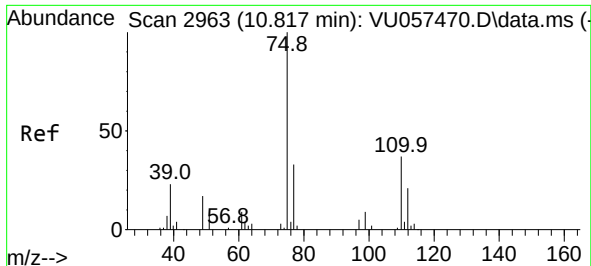
Tgt Ion:129 Resp: 7952  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.7 101.7#



#53  
m,p-Xylene  
Concen: 0.126 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. 0.003 min  
Lab File: VU057487.D  
Acq: 12 Jan 2024 17:05

Tgt Ion:106 Resp: 3557  
Ion Ratio Lower Upper  
106 100  
91 198.1 153.4 285.0

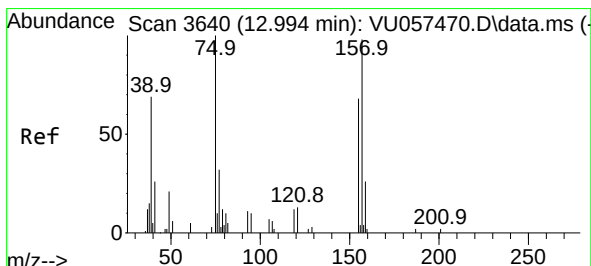
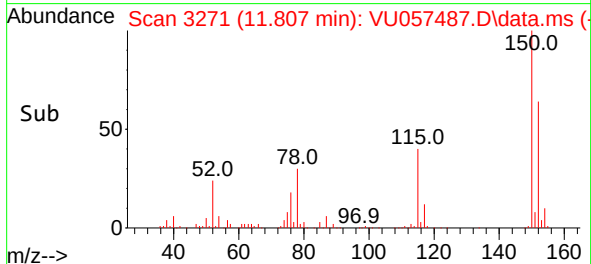
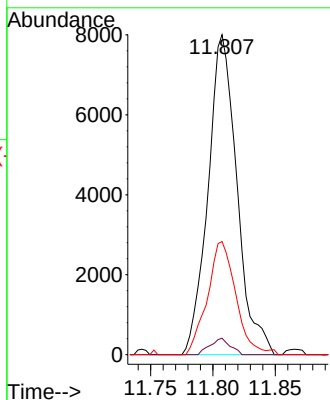
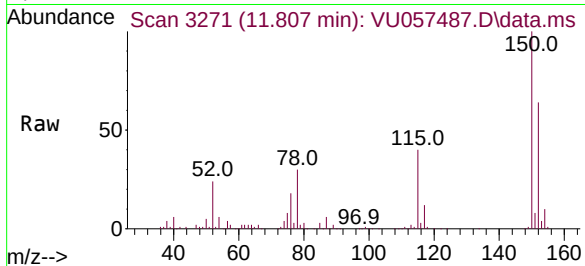




#61  
1,2,3-Trichloropropane  
Concen: 1.371 ug/L  
RT: 11.807 min Scan# 31  
Delta R.T. 0.990 min  
Lab File: VU057487.D  
Acq: 12 Jan 2024 17:05

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 75 Resp: 12927  
Ion Ratio Lower Upper  
75 100  
110 3.6 29.4 44.0#  
77 34.8 26.2 39.4



#68  
1,2-Dibromo-3-chloropropane  
Concen: 0.168 ug/L  
RT: 12.772 min Scan# 3571  
Delta R.T. -0.222 min  
Lab File: VU057487.D  
Acq: 12 Jan 2024 17:05

Tgt Ion: 75 Resp: 304  
Ion Ratio Lower Upper  
75 100  
155 0.0 55.4 83.0#  
157 0.0 68.6 102.8#

