

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100224\  
 Data File : VN084272.D  
 Acq On : 02 Oct 2024 18:09  
 Operator : JC\MD  
 Sample : P4226-15  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 03 02:03:10 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

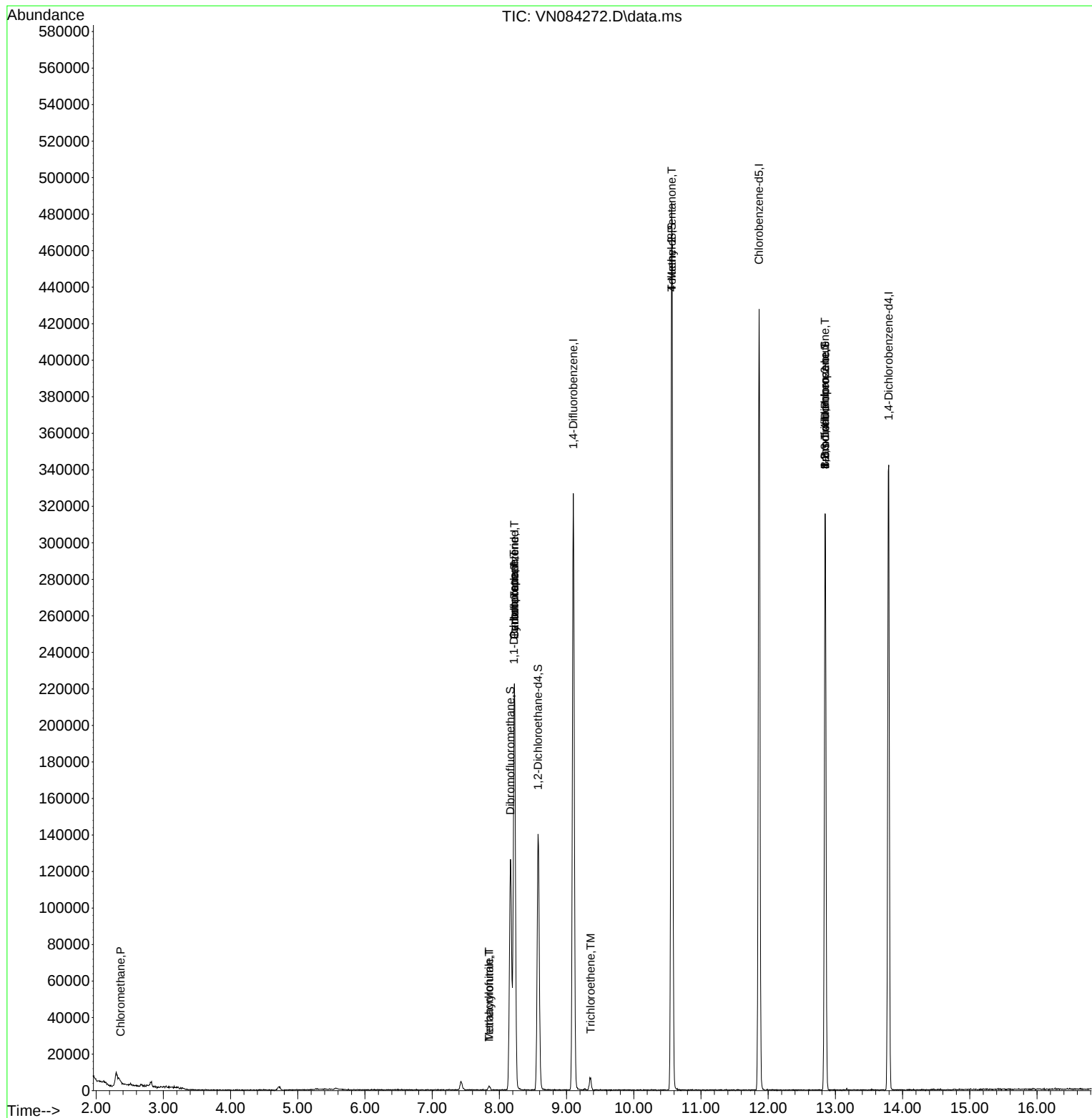
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 157582   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 273445   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 233902   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 93275    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 116483   | 49.855   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 99.700%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 91248    | 50.617   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 101.240% |
| 50) Toluene-d8                | 10.565 | 98    | 332282   | 50.100   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 100.200% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 108440   | 44.880   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 89.760%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 497      | 0.234    | ug/l # | 41       |
| 29) Tetrahydrofuran           | 7.847  | 42    | 1410     | 1.671    | ug/l # | 38       |
| 31) Cyclohexane               | 8.224  | 56    | 3682     | 1.064    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 13853    | 5.290    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 17610    | 6.131    | ug/l # | 15       |
| 41) Methacrylonitrile         | 7.847  | 41    | 943      | 0.647    | ug/l # | 45       |
| 44) Trichloroethene           | 9.359  | 130   | 2634     | 1.382    | ug/l   | 67       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43    | 1700     | 0.665    | ug/l # | 1        |
| 71) Bromoform                 | 12.847 | 173   | 678      | 0.516    | ug/l # | 30       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 57878    | 30.394   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 57878    | 72.869   | ug/l # | 11       |
| -----                         |        |       |          |          |        |          |

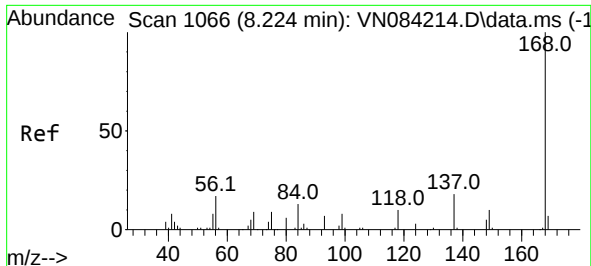
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

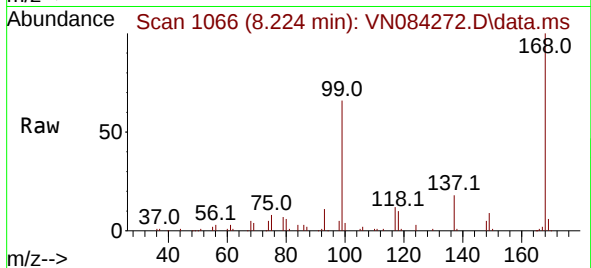
Quant Time: Oct 03 02:03:10 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 2024  
Response via : Initial Calibration



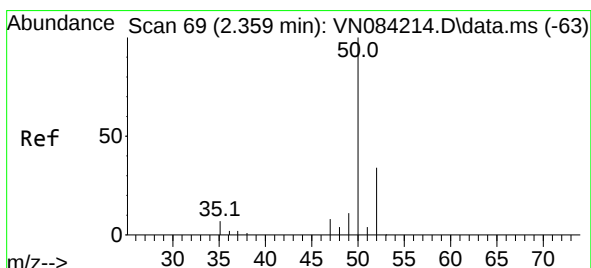
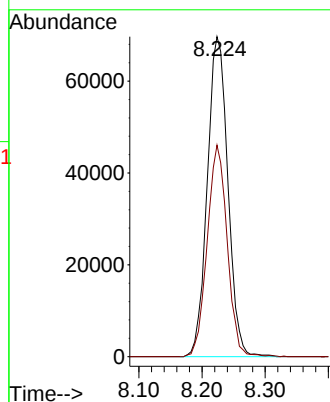
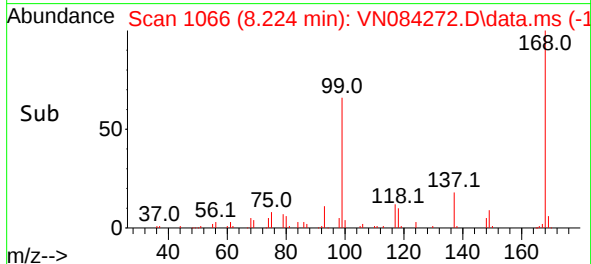


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Instrument :  
MSVOA\_N  
ClientSampleId :

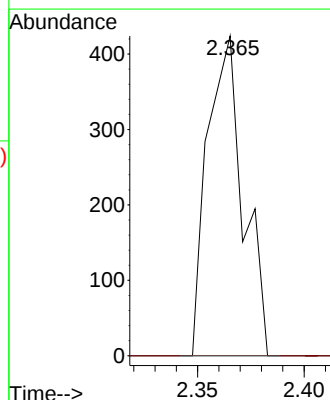
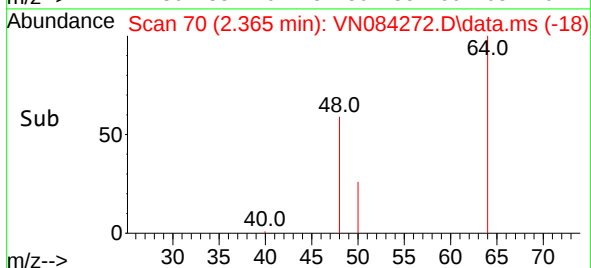
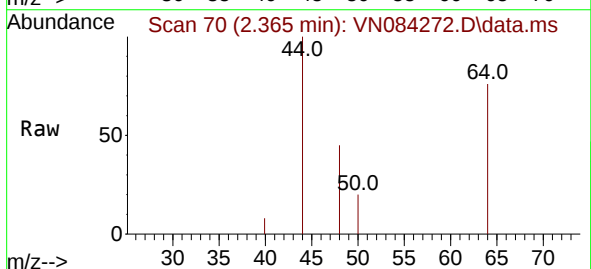


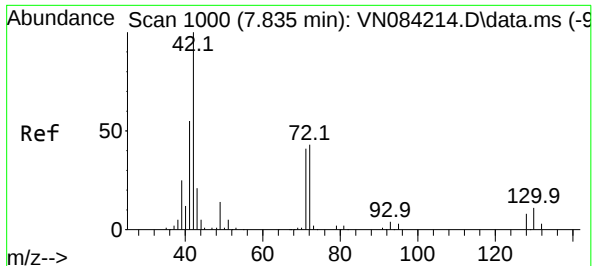
Tgt Ion:168 Resp: 157582  
Ion Ratio Lower Upper  
168 100  
99 66.1 54.2 81.2



#3  
Chloromethane  
Concen: 0.234 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Tgt Ion: 50 Resp: 497  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#





#29

Tetrahydrofuran

Concen: 1.671 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

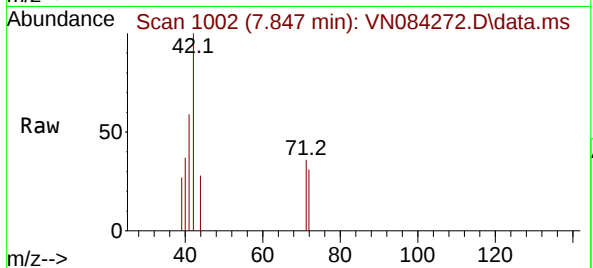
Lab File: VN084272.D

Acq: 02 Oct 2024 18:09

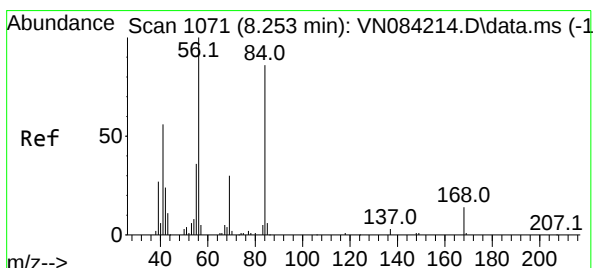
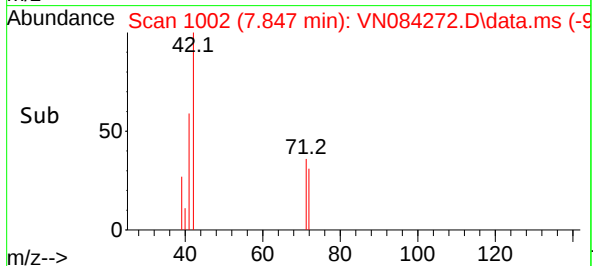
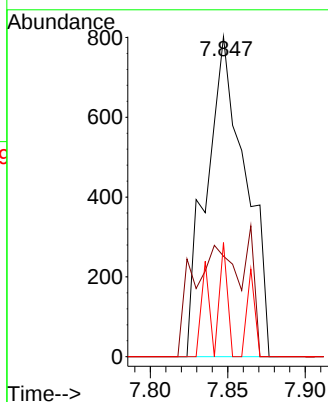
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1410  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 34.6  | 51.8# |
| 71       | 6.0   | 32.2  | 48.4# |



#31

Cyclohexane

Concen: 1.064 ug/l

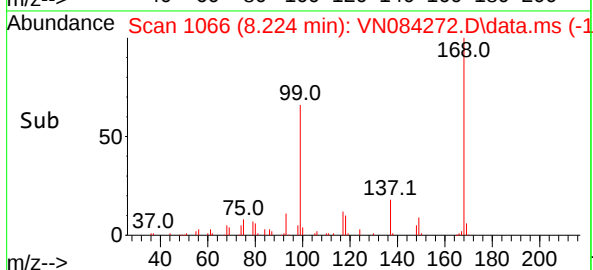
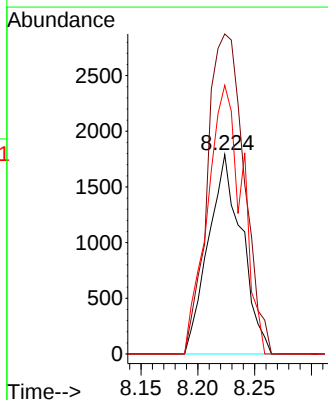
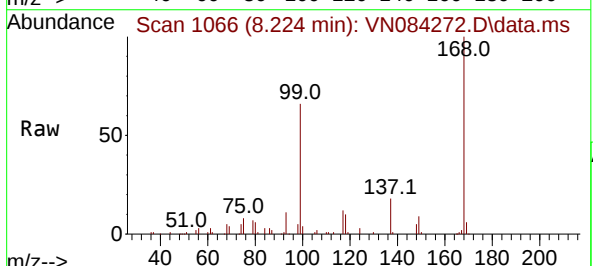
RT: 8.224 min Scan# 1066

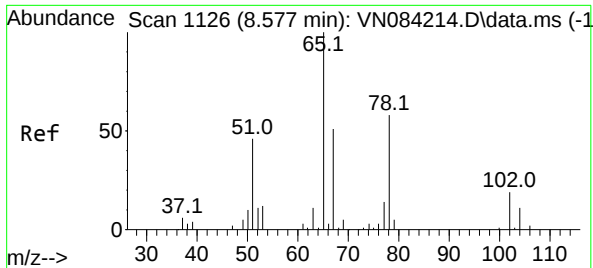
Delta R.T. -0.029 min

Lab File: VN084272.D

Acq: 02 Oct 2024 18:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3682   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 160.6 | 23.8  | 35.6#  |
| 84       | 134.8 | 68.8  | 103.2# |





#33

1,2-Dichloroethane-d4

Concen: 49.855 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084272.D

Acq: 02 Oct 2024 18:09

Instrument :

MSVOA\_N

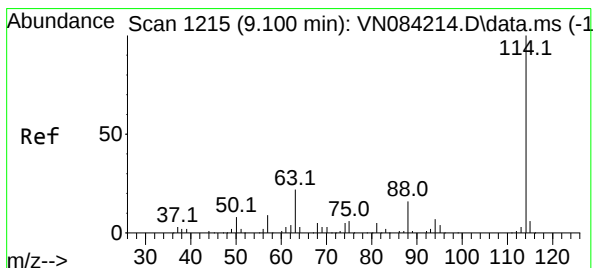
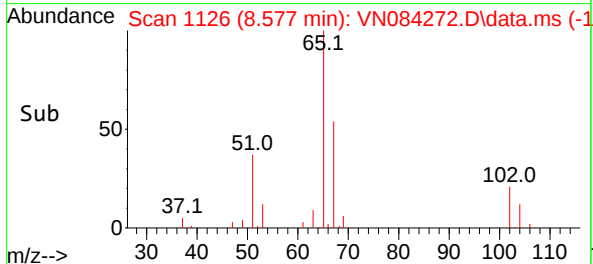
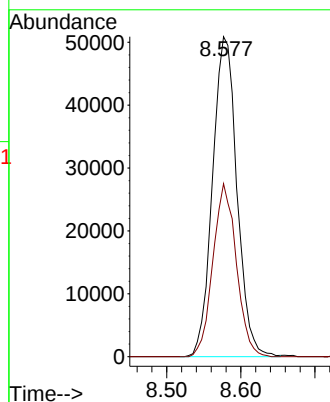
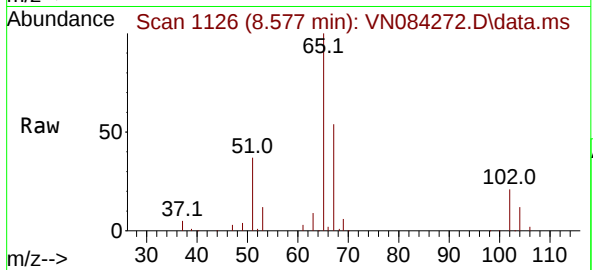
ClientSampleId :

Tgt Ion: 65 Resp: 116483

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084272.D

Acq: 02 Oct 2024 18:09

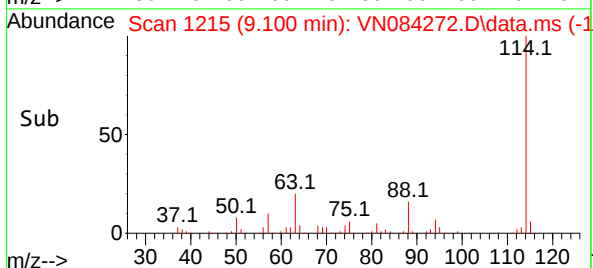
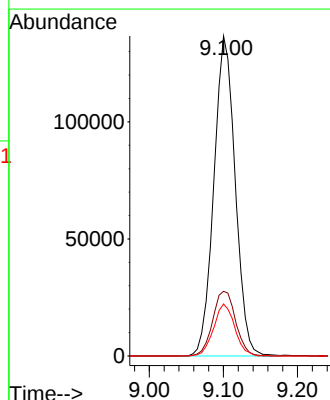
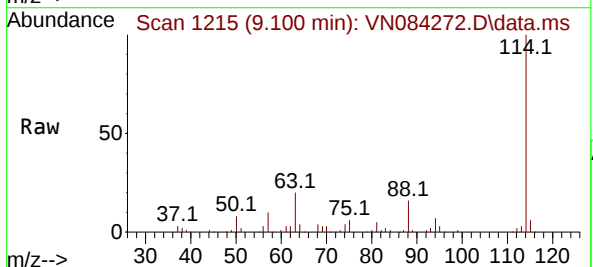
Tgt Ion: 114 Resp: 273445

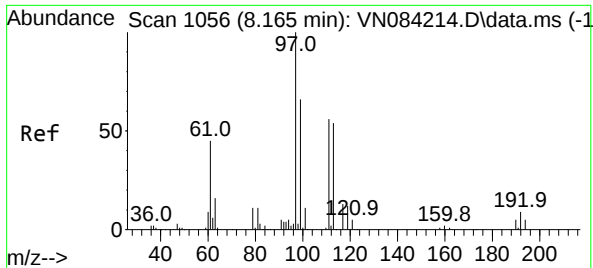
Ion Ratio Lower Upper

114 100

63 20.2 0.0 43.8

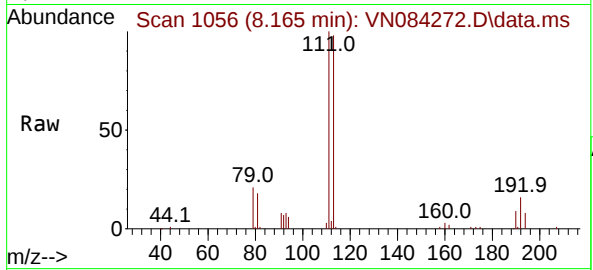
88 16.3 0.0 31.6



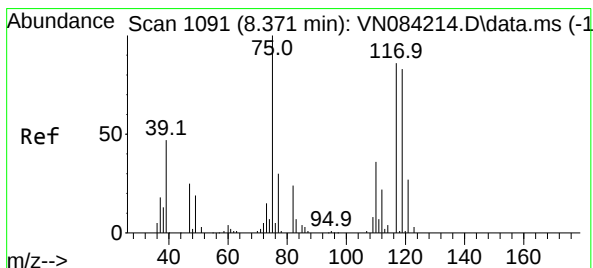
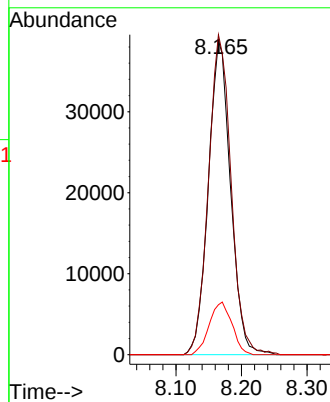
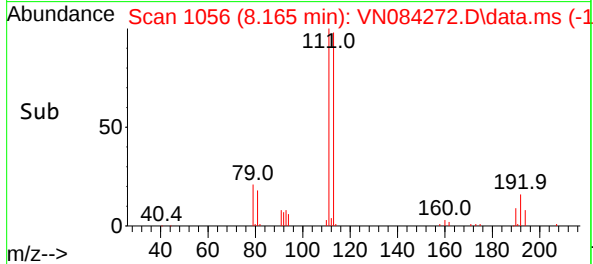


#35  
Dibromofluoromethane  
Concen: 50.617 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Instrument :  
MSVOA\_N  
ClientSampleId :

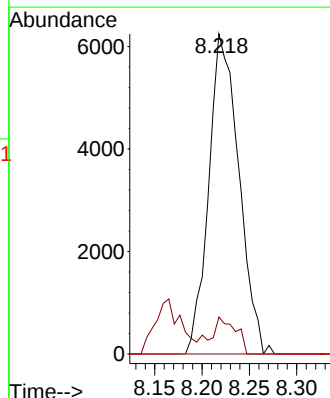
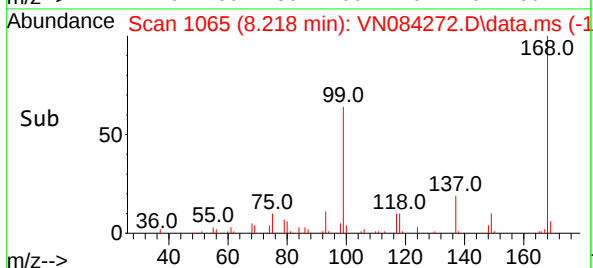
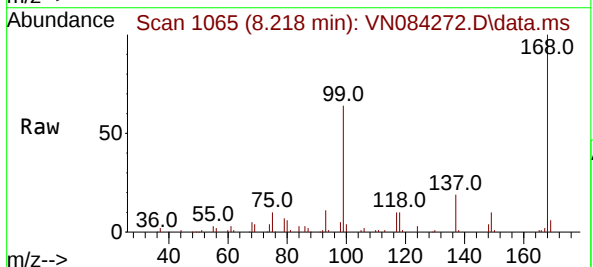


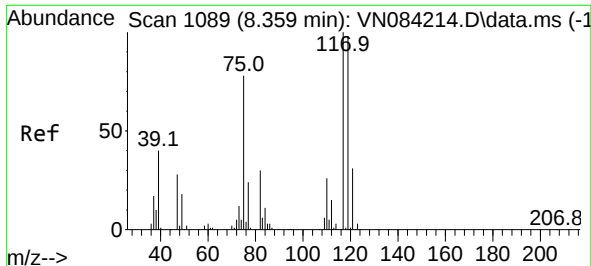
Tgt Ion:113 Resp: 91248  
Ion Ratio Lower Upper  
113 100  
111 103.8 83.3 124.9  
192 17.1 13.5 20.3



#36  
1,1-Dichloropropene  
Concen: 5.290 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.153 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

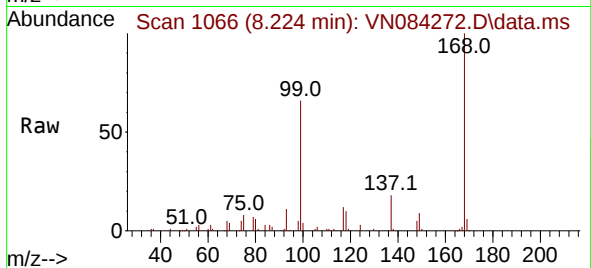
Tgt Ion: 75 Resp: 13853  
Ion Ratio Lower Upper  
75 100  
110 8.0 16.9 50.7#  
77 0.0 24.7 37.1#



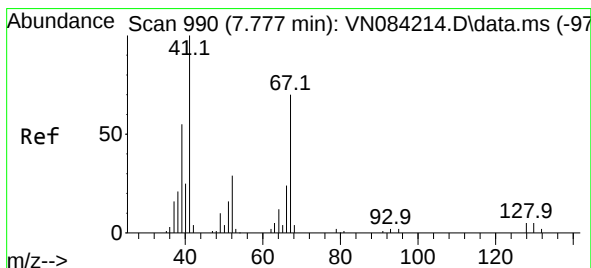
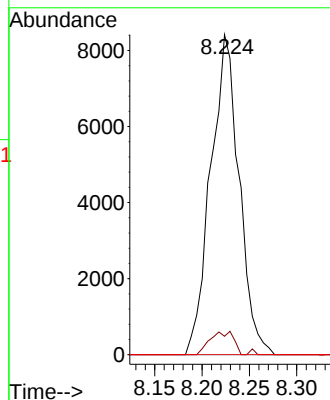
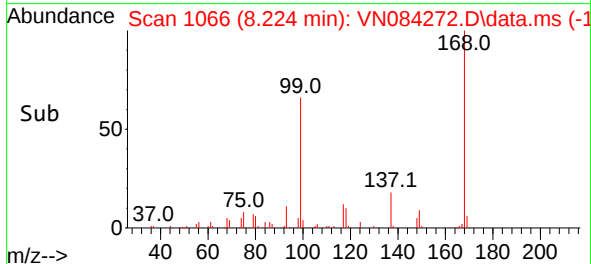


#38  
Carbon Tetrachloride  
Concen: 6.131 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Instrument :  
MSVOA\_N  
ClientSampleId :

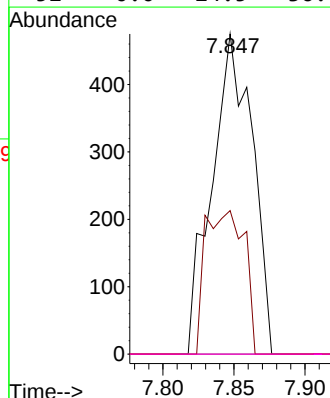
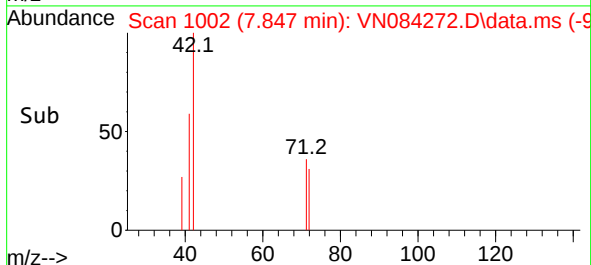
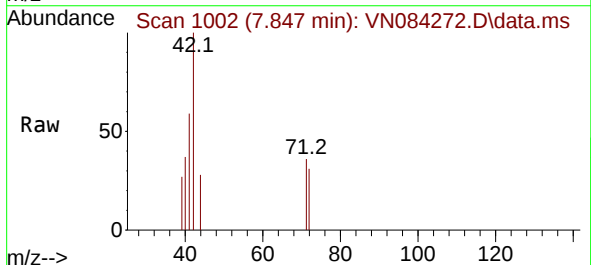


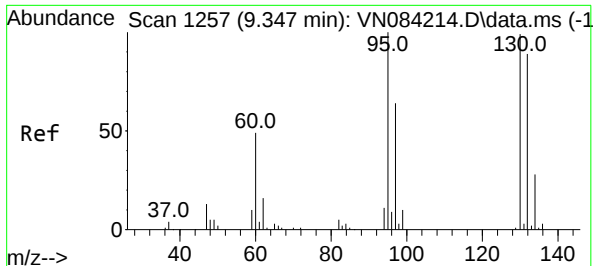
Tgt Ion:117 Resp: 17610  
Ion Ratio Lower Upper  
117 100  
119 5.8 78.7 118.1#  
121 0.0 24.4 36.6#



#41  
Methacrylonitrile  
Concen: 0.647 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.071 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Tgt Ion: 41 Resp: 943  
Ion Ratio Lower Upper  
41 100  
39 43.4 43.3 64.9  
67 0.0 56.1 84.1#  
52 0.0 24.5 36.7#

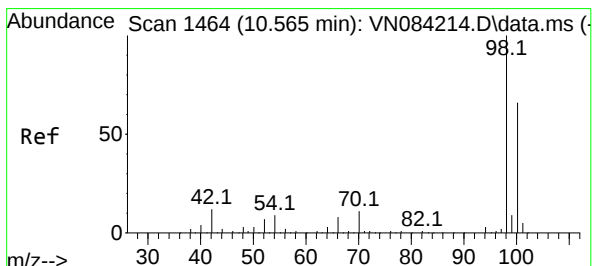
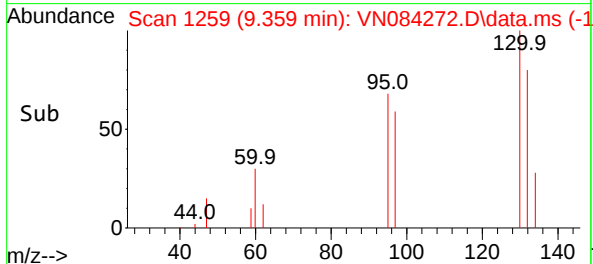
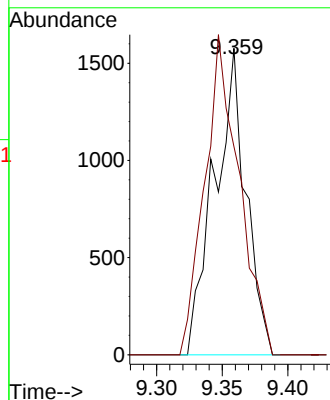
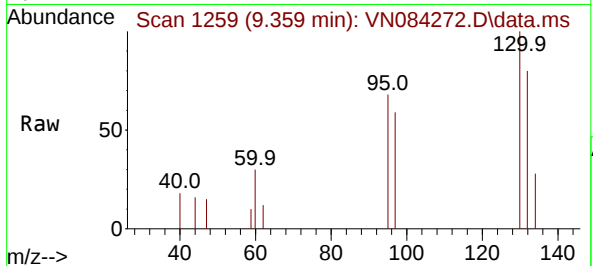




#44  
Trichloroethene  
Concen: 1.382 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. 0.012 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

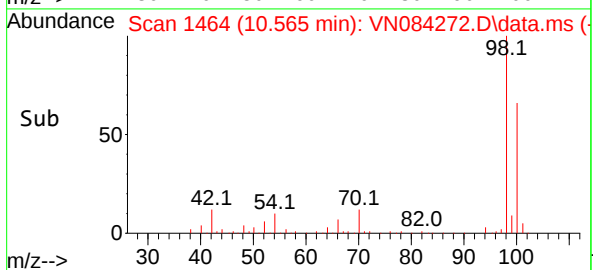
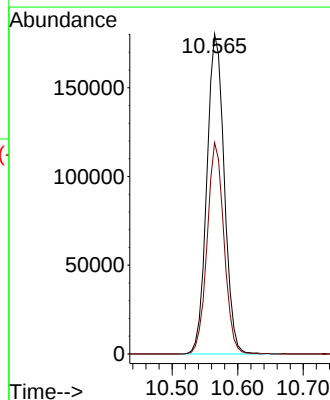
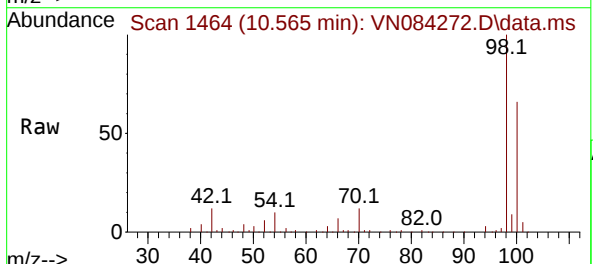
Instrument :  
MSVOA\_N  
ClientSampleId :

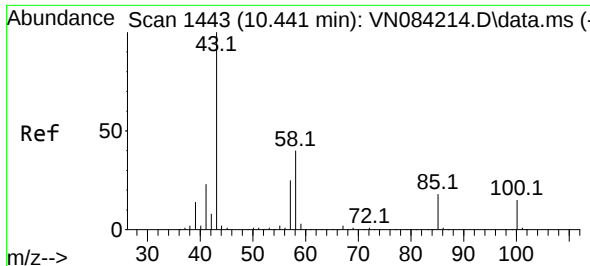
Tgt Ion:130 Resp: 2634  
Ion Ratio Lower Upper  
130 100  
95 67.9 0.0 203.0



#50  
Toluene-d8  
Concen: 50.100 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Tgt Ion: 98 Resp: 332282  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.7 79.1

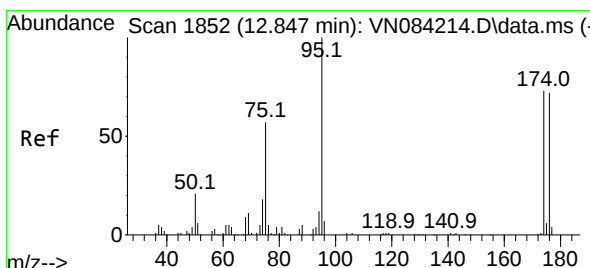
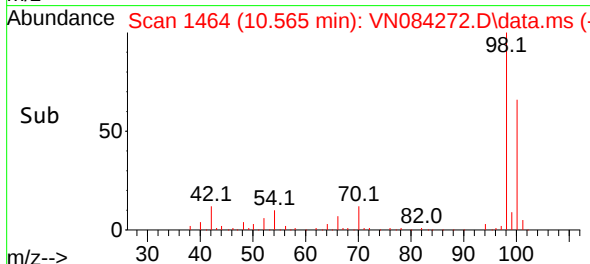
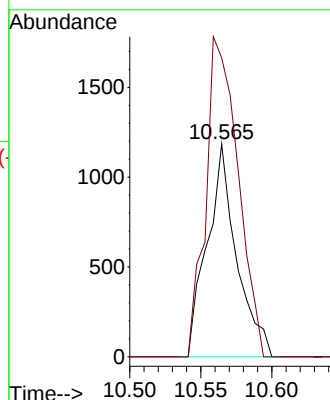
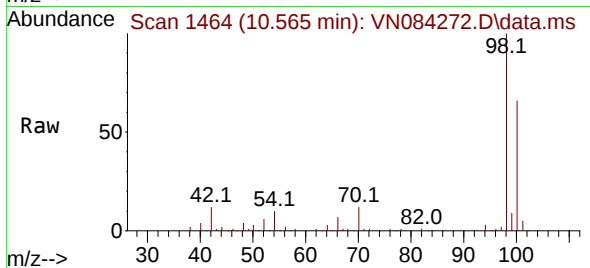




#51  
4-Methyl-2-Pentanone  
Concen: 0.665 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.123 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

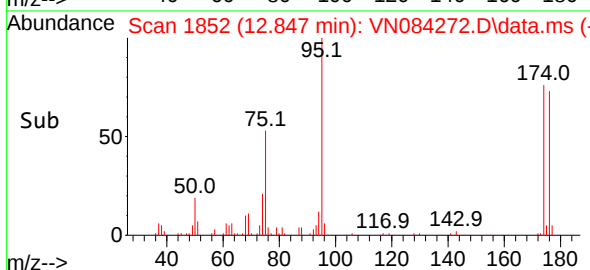
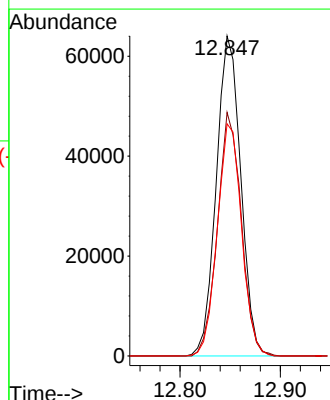
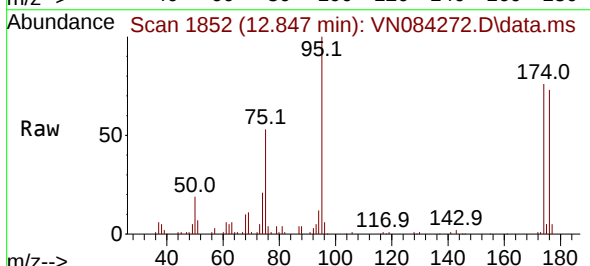
Instrument :  
MSVOA\_N  
ClientSampleId :

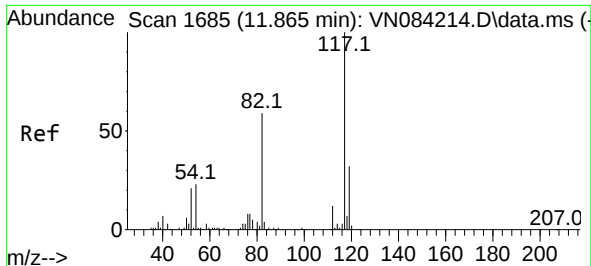
Tgt Ion: 43 Resp: 1700  
Ion Ratio Lower Upper  
43 100  
58 164.9 31.6 47.4#



#62  
4-Bromofluorobenzene  
Concen: 44.880 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

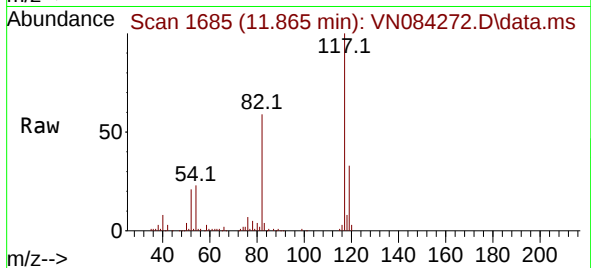
Tgt Ion: 95 Resp: 108440  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 145.2  
176 72.0 0.0 140.0



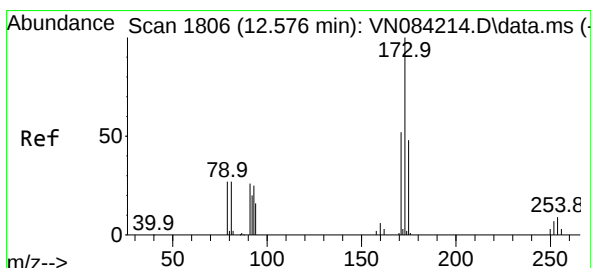
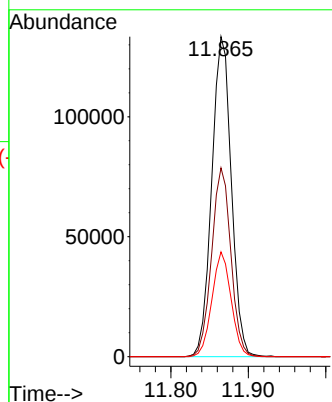
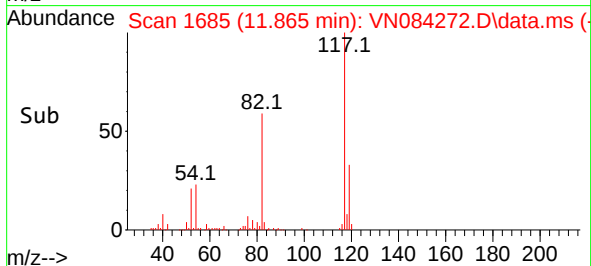


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Instrument :  
MSVOA\_N  
ClientSampleId :

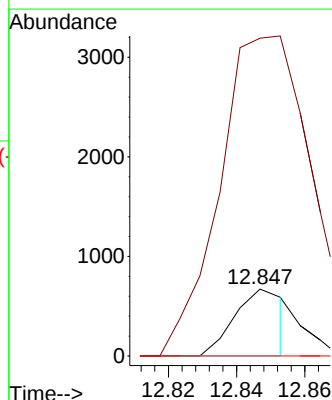
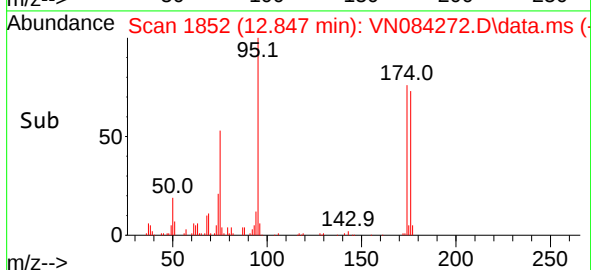
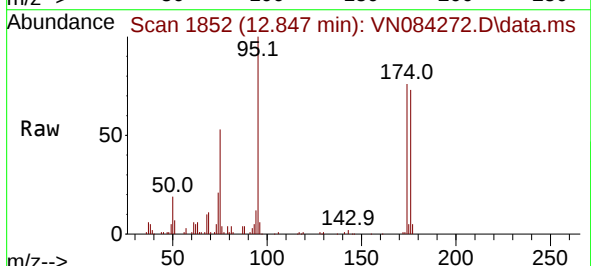


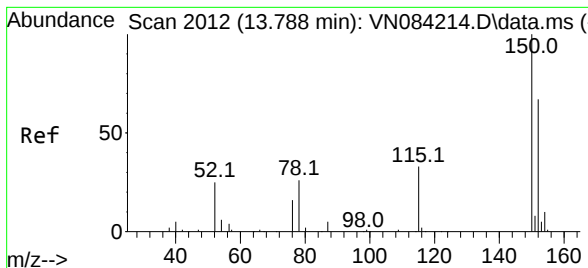
Tgt Ion:117 Resp: 233902  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.2 70.8  
119 32.7 25.4 38.0



#71  
Bromoform  
Concen: 0.516 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.271 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Tgt Ion:173 Resp: 678  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.5 70.6#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2012

Delta R.T. 0.006 min

Lab File: VN084272.D

Acq: 02 Oct 2024 18:09

Instrument :

MSVOA\_N

ClientSampleId :

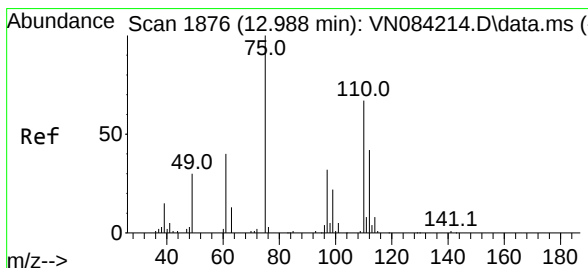
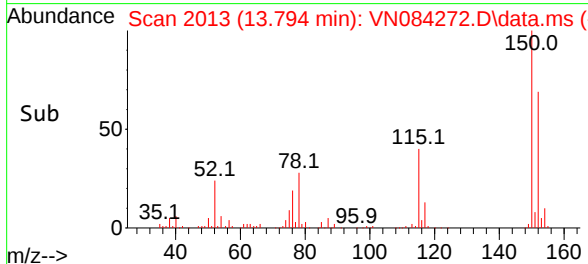
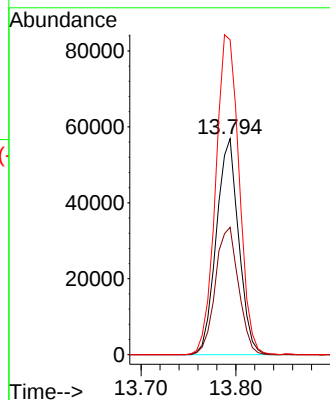
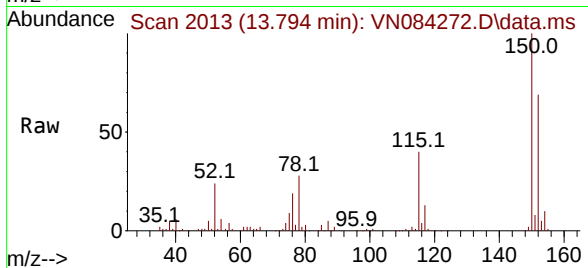
Tgt Ion:152 Resp: 93275

Ion Ratio Lower Upper

152 100

115 61.1 31.3 93.9

150 155.0 0.0 349.8



#76

1,2,3-Trichloropropane

Concen: 30.394 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084272.D

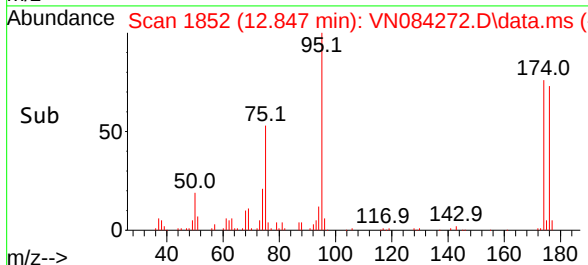
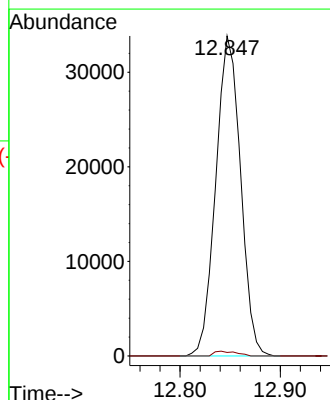
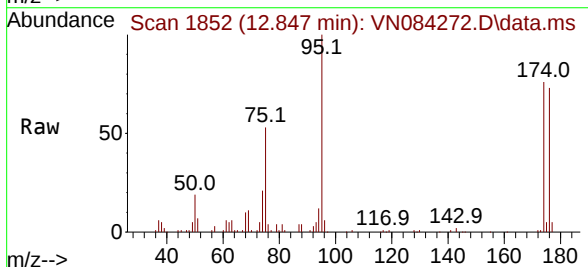
Acq: 02 Oct 2024 18:09

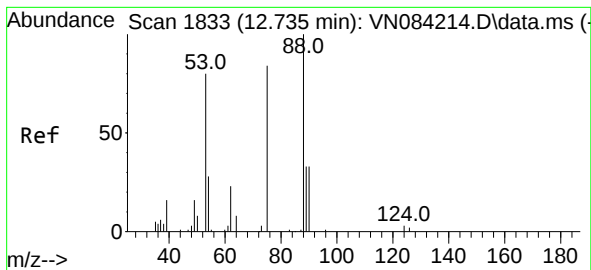
Tgt Ion: 75 Resp: 57878

Ion Ratio Lower Upper

75 100

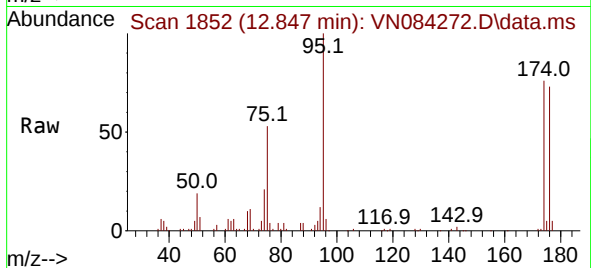
77 1.3 96.9 290.7#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.869 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084272.D  
Acq: 02 Oct 2024 18:09

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 57878  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#

