

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100224\  
 Data File : VU061077.D  
 Acq On : 02 Oct 2024 15:34  
 Operator : MD/SY  
 Sample : P4227-17MSD 20X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PMW-7D(20240927)MSD

Quant Time: Oct 03 06:31:13 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR100124WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Oct 03 06:26:52 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114   | 177894   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.409  | 117   | 167088   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 82510    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 59526    | 4.680    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 93.600%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 44844    | 4.710    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 94.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 65    | 26183    | 4.667    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 93.400%  |
| 20) 2-Butanone-d5             | 4.631  | 46    | 163039   | 53.516   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 107.040% |
| 24) Chloroform-d              | 5.052  | 84    | 115677   | 5.161    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 103.200% |
| 26) 1,2-Dichloroethane-d4     | 5.692  | 65    | 59896    | 5.041    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 100.800% |
| 32) Benzene-d6                | 5.718  | 84    | 221812   | 5.035    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.600% |
| 36) 1,2-Dichloropropane-d6    | 6.679  | 67    | 74030    | 5.117    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 102.400% |
| 41) Toluene-d8                | 7.891  | 98    | 202246   | 4.911    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 98.200%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 30395    | 4.913    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 98.200%  |
| 46) 2-Hexanone-d5             | 8.634  | 63    | 142837   | 55.783   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 111.560% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 57001    | 5.372    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 107.400% |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 69488    | 5.267    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 105.400% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          | Qvalue   |        |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 47487    | 5.477    | ug/L   | 99       |
| 3) Chloromethane              | 1.515  | 50    | 67280    | 5.373    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.602  | 62    | 72398    | 5.759    | ug/L   | 98       |
| 6) Bromomethane               | 1.856  | 94    | 35848    | 5.346    | ug/L   | 99       |
| 8) Chloroethane               | 1.930  | 64    | 41136    | 5.395    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.126  | 101   | 85588    | 5.299    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101   | 58877    | 5.519    | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.570  | 96    | 57981    | 5.644    | ug/L   | 91       |
| 13) Acetone                   | 2.653  | 43    | 103943   | 53.050   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.782  | 76    | 191540   | 5.487    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.956  | 43    | 26390    | 5.532    | ug/L   | 100      |
| 16) Methylene chloride        | 3.036  | 84    | 67172    | 5.696    | ug/L   | 90       |
| 17) Methyl tert-butyl Ether   | 3.358  | 73    | 163430   | 5.560    | ug/L # | 96       |
| 18) trans-1,2-Dichloroethene  | 3.345  | 96    | 68590    | 6.091    | ug/L   | 93       |
| 19) 1,1-Dichloroethane        | 3.856  | 63    | 139650   | 6.373    | ug/L   | 98       |
| 21) 2-Butanone                | 4.714  | 43    | 175616   | 54.446   | ug/L   | 92       |
| 22) cis-1,2-Dichloroethene    | 4.653  | 96    | 117038   | 9.332    | ug/L   | 93       |
| 23) Bromochloromethane        | 4.965  | 128   | 28316    | 5.609    | ug/L # | 89       |
| 25) Chloroform                | 5.078  | 83    | 122184   | 5.566    | ug/L   | 98       |

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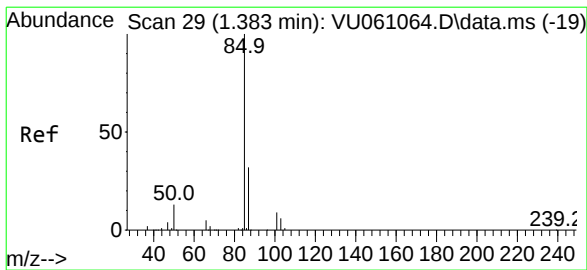
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PMW-7D(20240927)MSD

Quant Time: Oct 03 06:31:13 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR100124WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Oct 03 06:26:52 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.785  | 62   | 79633    | 5.508  | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97   | 106460   | 5.506  | ug/L   | 97       |
| 30) Cyclohexane               | 5.377  | 56   | 116871   | 5.426  | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 90670    | 5.526  | ug/L   | 100      |
| 33) Benzene                   | 5.763  | 78   | 278357   | 5.651  | ug/L   | 100      |
| 34) Trichloroethene           | 6.534  | 95   | 70624    | 5.289  | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.753  | 83   | 117970   | 5.471  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 71979    | 5.545  | ug/L # | 97       |
| 38) Bromodichloromethane      | 7.097  | 83   | 88949    | 5.481  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.599  | 75   | 111151   | 5.461  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 464188   | 55.831 | ug/L   | 95       |
| 42) Toluene                   | 7.962  | 91   | 290871   | 5.543  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 92899    | 5.520  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 46097    | 5.358  | ug/L   | 94       |
| 47) Tetrachloroethene         | 8.544  | 164  | 48264    | 5.554  | ug/L   | 95       |
| 48) 2-Hexanone                | 8.685  | 43   | 335997   | 58.290 | ug/L   | 94       |
| 49) Dibromochloromethane      | 8.801  | 129  | 56524    | 5.647  | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 45466    | 5.583  | ug/L # | 97       |
| 51) Chlorobenzene             | 9.438  | 112  | 235033   | 7.353  | ug/L   | 94       |
| 52) Ethylbenzene              | 9.563  | 91   | 328207   | 5.519  | ug/L   | 97       |
| 53) m,p-Xylene                | 9.685  | 106  | 118044   | 5.442  | ug/L   | 90       |
| 54) o-Xylene                  | 10.094 | 106  | 119360   | 5.593  | ug/L   | 93       |
| 55) Styrene                   | 10.107 | 104  | 195937   | 5.689  | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 62537    | 5.785  | ug/L   | 97       |
| 59) Bromoform                 | 10.283 | 173  | 30459    | 5.378  | ug/L # | 98       |
| 60) Isopropylbenzene          | 10.476 | 105  | 296557   | 5.374  | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.814 | 75   | 43853    | 5.410  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 263593   | 5.420  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 265662   | 5.412  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 209474   | 8.856  | ug/L   | 95       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 487655   | 20.856 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 127954   | 5.853  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 9692     | 5.483  | ug/L # | 80       |
| 69) 1,3,5-Trichlorobenzene    | 13.213 | 180  | 94189    | 5.655  | ug/L # | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 78428    | 6.145  | ug/L   | 98       |
| 71) Naphthalene               | 14.081 | 128  | 128266   | 6.152  | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 63416    | 5.971  | ug/L   | 97       |

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





#2

Dichlorodifluoromethane

Concen: 5.477 ug/L

RT: 1.383 min Scan# 29

Delta R.T. -0.000 min

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MSVOA\_U

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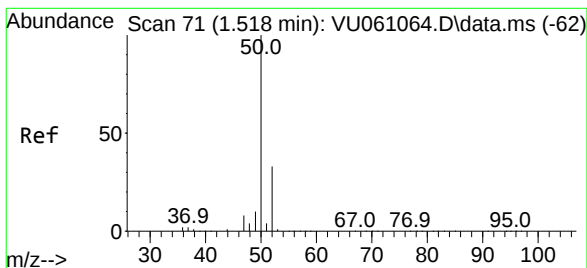
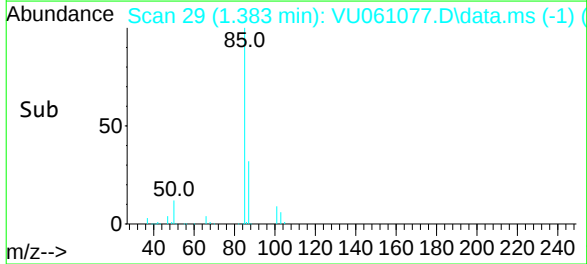
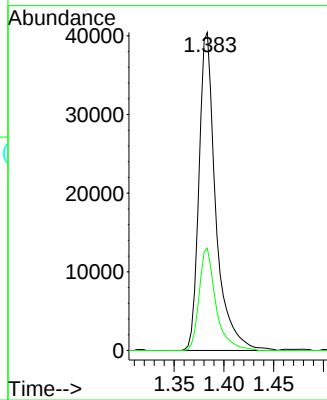
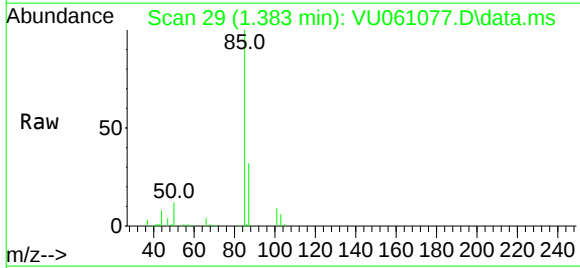
PMW-7D(20240927)MSD

Tgt Ion: 85 Resp: 47487

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2



#3

Chloromethane

Concen: 5.373 ug/L

RT: 1.515 min Scan# 70

Delta R.T. -0.003 min

Lab File: VU061077.D

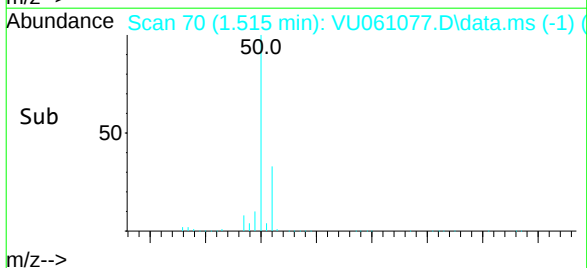
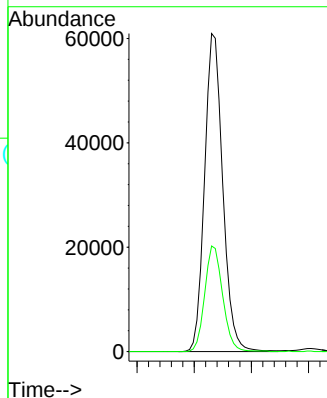
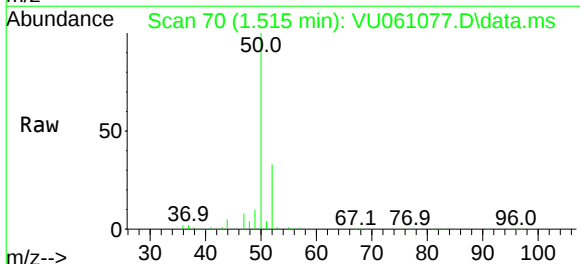
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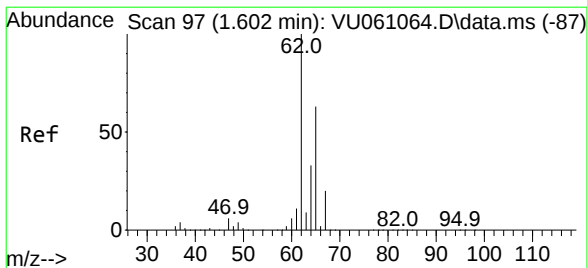
Tgt Ion: 50 Resp: 67280

Ion Ratio Lower Upper

50 100

52 33.2 24.4 45.4





#5

Vinyl chloride

Concen: 5.759 ug/L

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

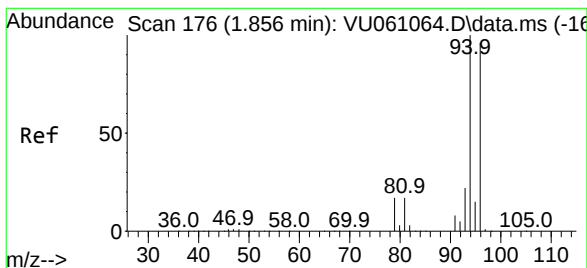
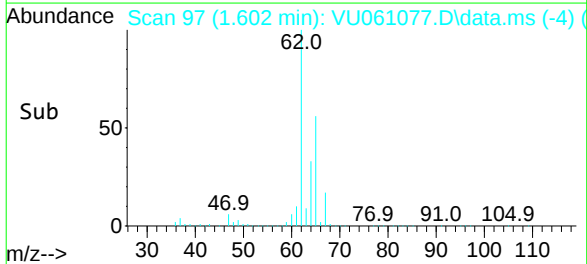
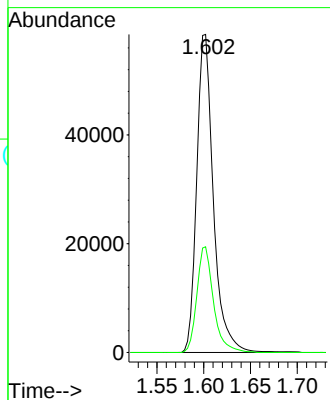
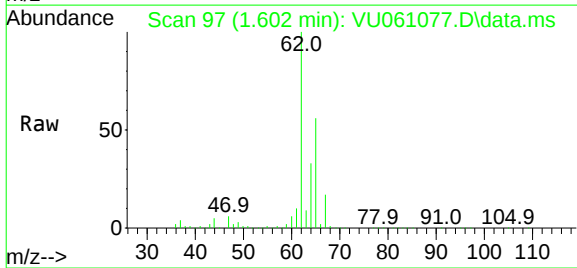
PMW-7D(20240927)MSD

Tgt Ion: 62 Resp: 72398

Ion Ratio Lower Upper

62 100

64 33.2 24.0 44.6



#6

Bromomethane

Concen: 5.346 ug/L

RT: 1.856 min Scan# 176

Delta R.T. -0.000 min

Lab File: VU061077.D

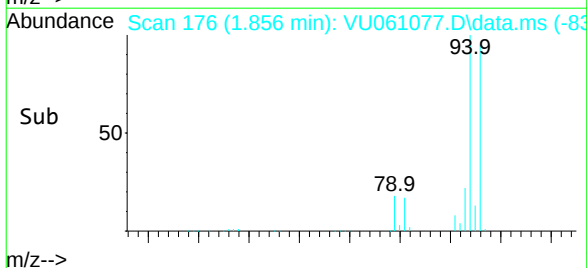
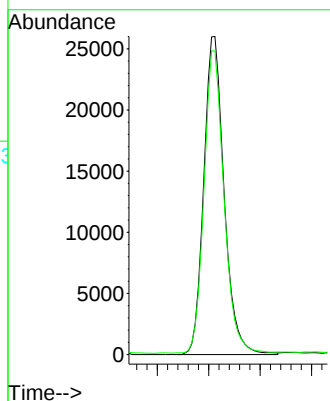
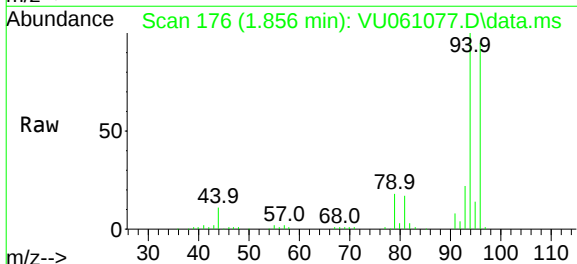
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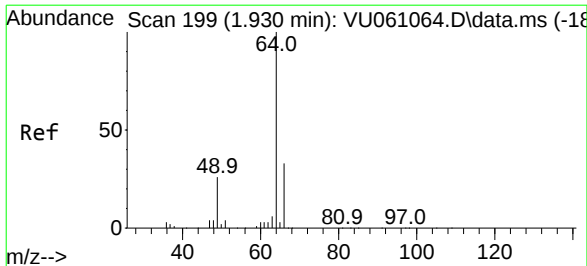
Tgt Ion: 94 Resp: 35848

Ion Ratio Lower Upper

94 100

96 95.4 67.3 124.9

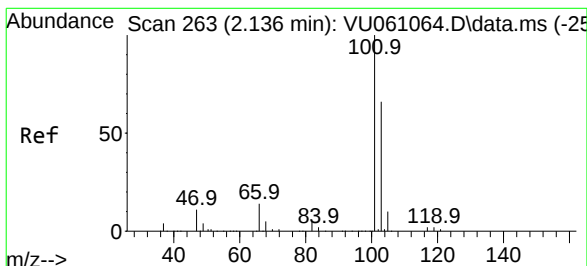
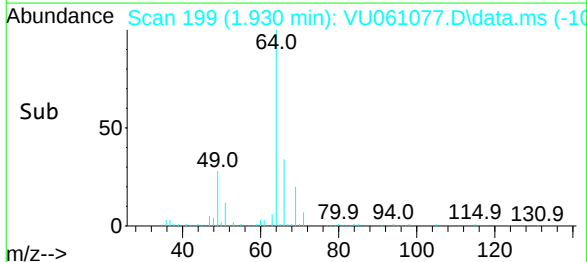
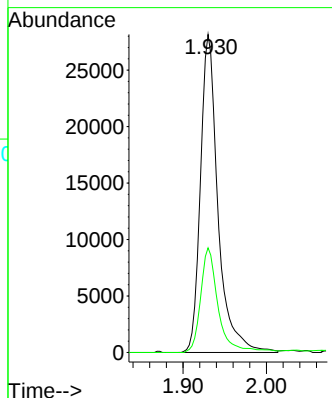
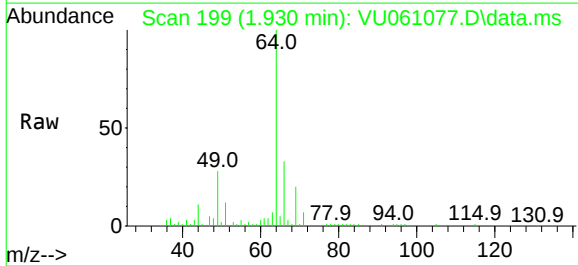




#8  
Chloroethane  
Concen: 5.395 ug/L  
RT: 1.930 min Scan# 19  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

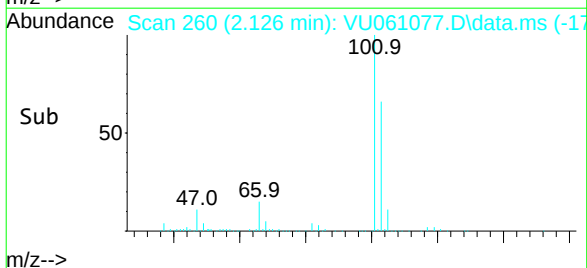
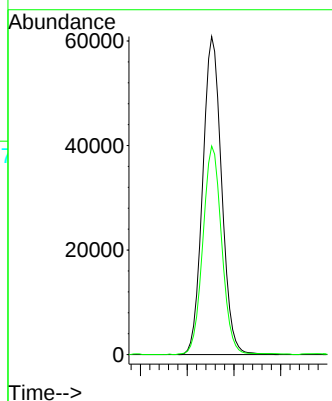
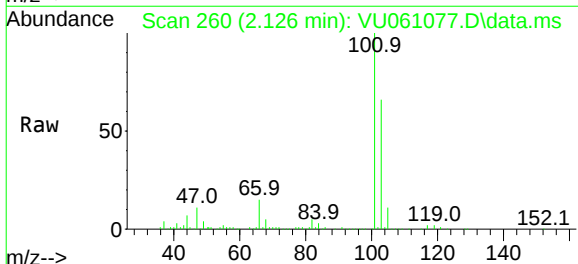
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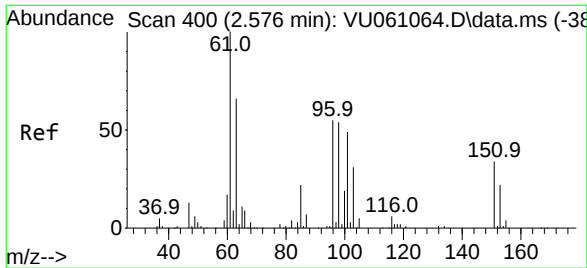
Tgt Ion: 64 Resp: 41136  
Ion Ratio Lower Upper  
64 100  
66 32.9 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 5.299 ug/L  
RT: 2.126 min Scan# 260  
Delta R.T. -0.010 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Tgt Ion:101 Resp: 85588  
Ion Ratio Lower Upper  
101 100  
103 65.7 51.4 77.2

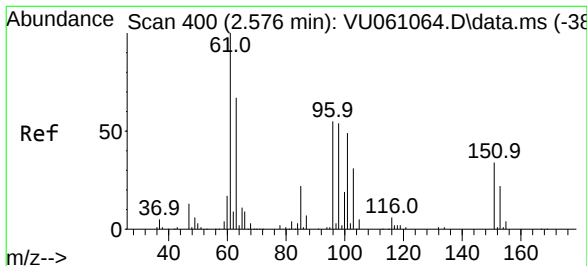
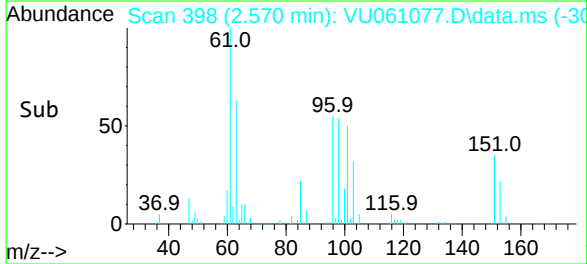
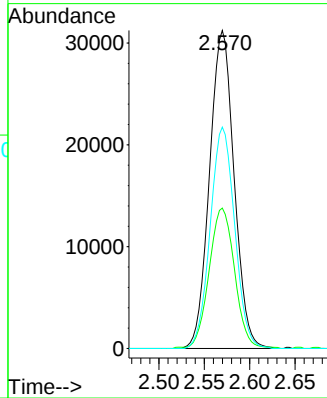
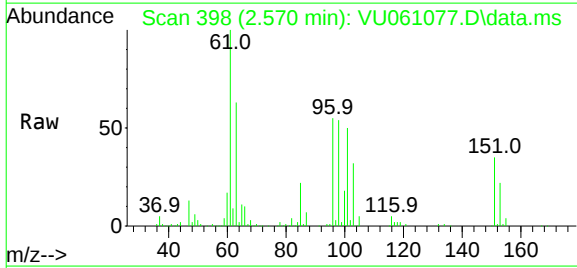




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.519 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. -0.006 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

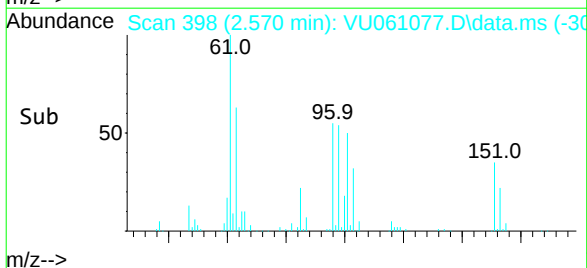
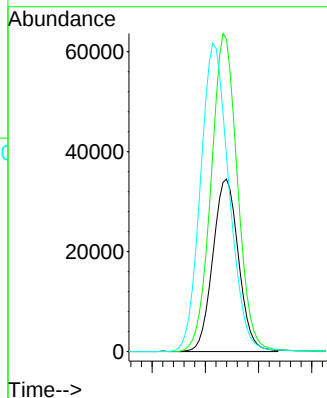
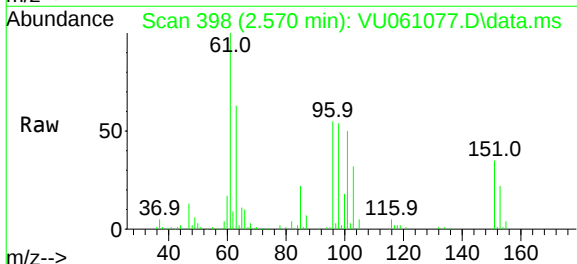
Instrument : MSVOA\_U  
ClientSampleId : PMW-7D(20240927)MSD

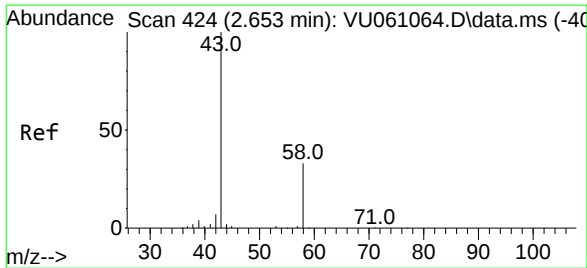
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|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 58877 |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 45.9  | 34.2  | 51.4  |
| 151      | 69.4  | 58.6  | 88.0  |



#12  
1,1-Dichloroethene  
Concen: 5.644 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. -0.006 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 57981 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 181.1 | 120.7 | 224.1 |
| 63       | 113.9 | 90.0  | 167.2 |





#13

Acetone

Concen: 53.050 ug/L

RT: 2.653 min Scan# 424

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

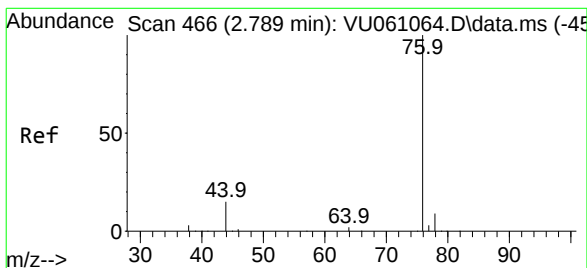
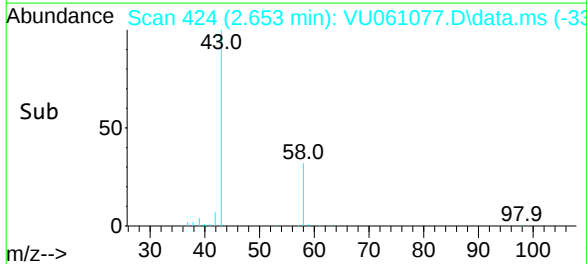
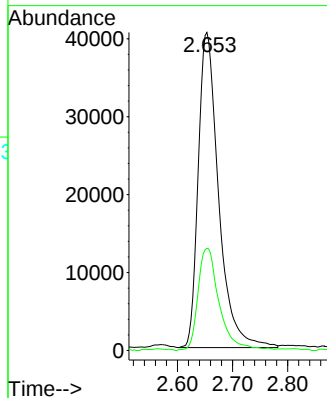
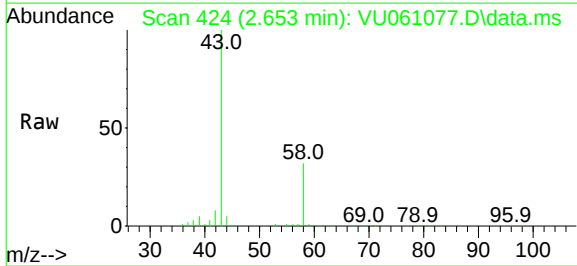
PMW-7D(20240927)MSD

Tgt Ion: 43 Resp: 103943

Ion Ratio Lower Upper

43 100

58 33.7 0.0 69.6



#14

Carbon disulfide

Concen: 5.487 ug/L

RT: 2.782 min Scan# 464

Delta R.T. -0.006 min

Lab File: VU061077.D

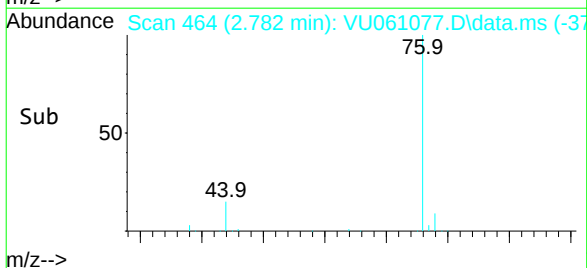
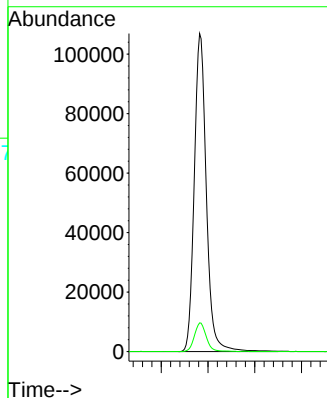
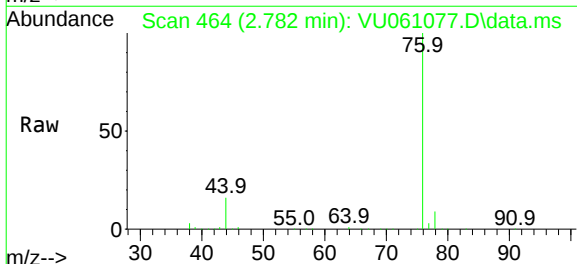
Acq: 02 Oct 2024 15:34

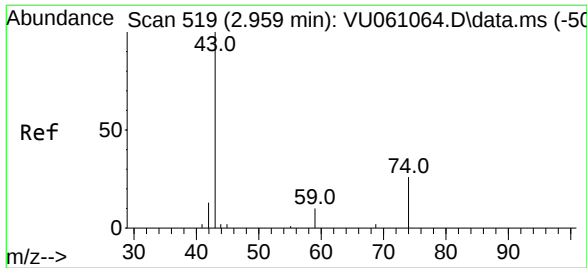
Tgt Ion: 76 Resp: 191540

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7





#15

Methyl Acetate

Concen: 5.532 ug/L

RT: 2.956 min Scan# 519

Delta R.T. -0.003 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

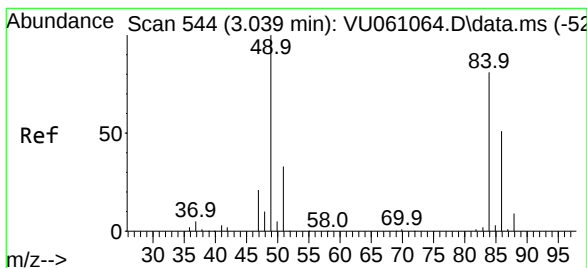
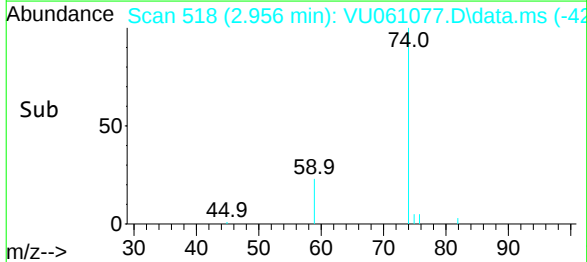
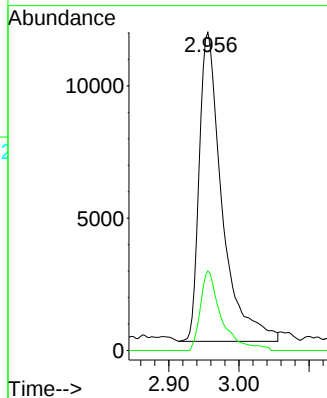
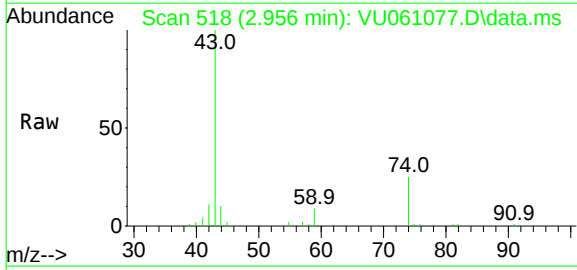
PMW-7D(20240927)MSD

Tgt Ion: 43 Resp: 26390

Ion Ratio Lower Upper

43 100

74 23.7 18.9 28.3



#16

Methylene chloride

Concen: 5.696 ug/L

RT: 3.036 min Scan# 543

Delta R.T. -0.003 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

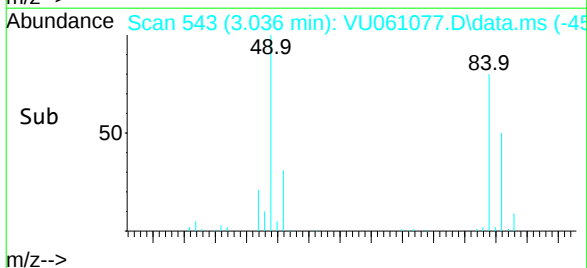
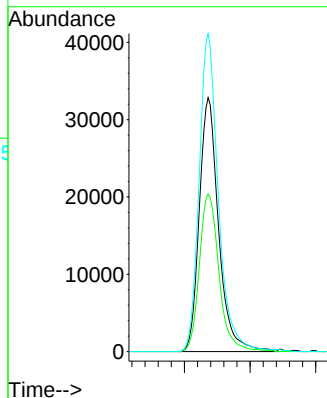
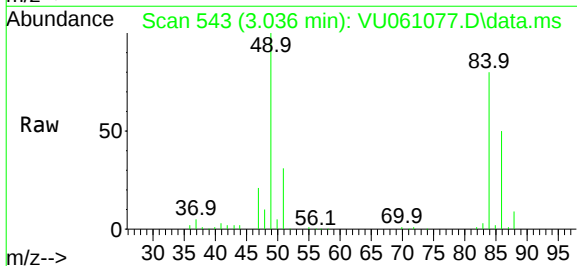
Tgt Ion: 84 Resp: 67172

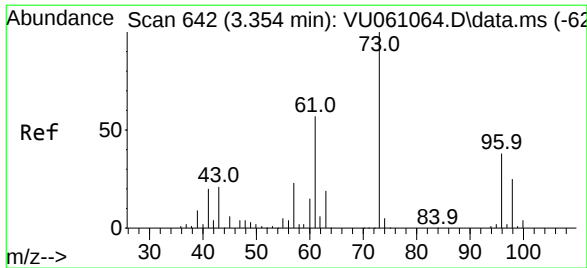
Ion Ratio Lower Upper

84 100

86 62.0 47.3 87.8

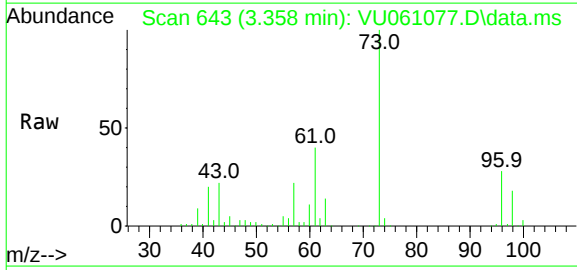
49 125.3 78.7 146.1



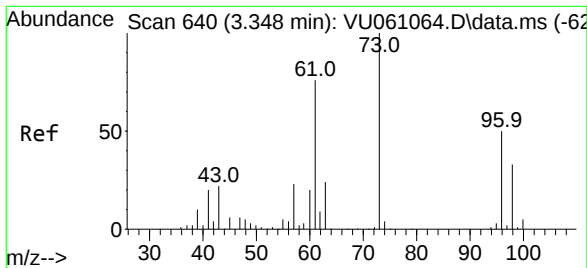
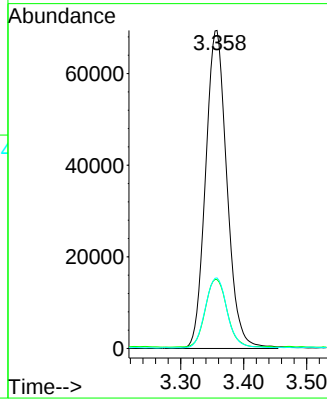
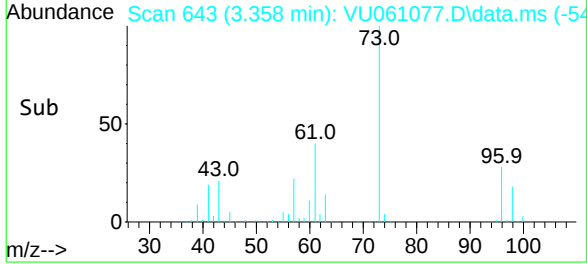


#17  
Methyl tert-butyl Ether  
Concen: 5.560 ug/L  
RT: 3.358 min Scan# 64  
Delta R.T. 0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

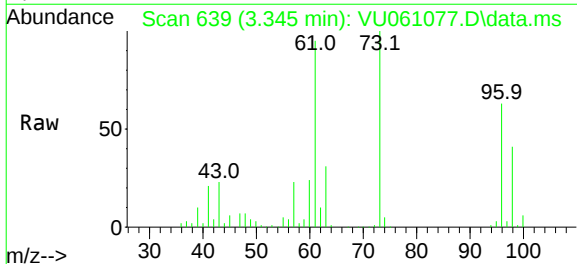
Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD



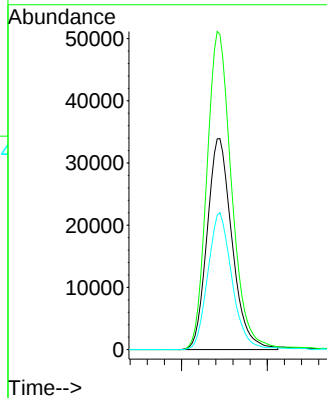
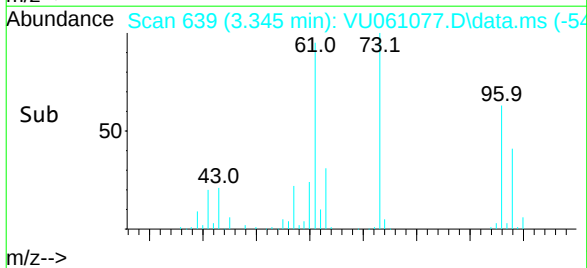
Tgt Ion: 73 Resp: 163430  
Ion Ratio Lower Upper  
73 100  
43 21.7 13.8 20.8#  
57 22.5 18.0 27.0

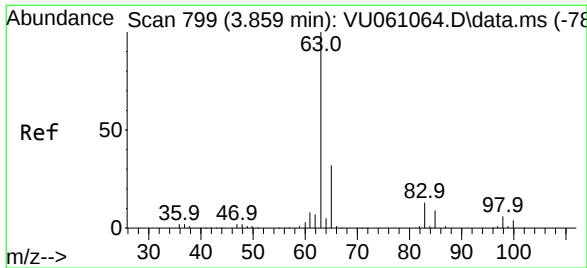


#18  
trans-1,2-Dichloroethene  
Concen: 6.091 ug/L  
RT: 3.345 min Scan# 639  
Delta R.T. -0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34



Tgt Ion: 96 Resp: 68590  
Ion Ratio Lower Upper  
96 100  
61 149.3 97.2 180.6  
98 64.9 43.3 80.5

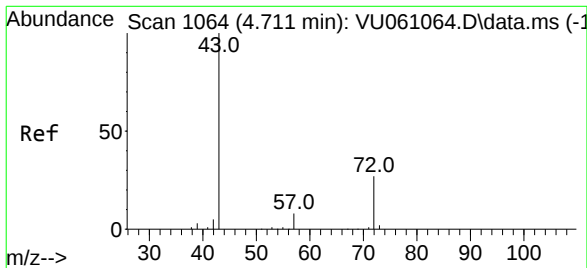
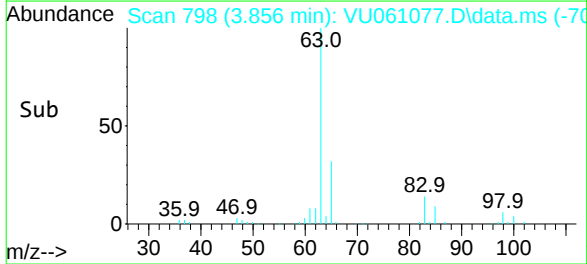
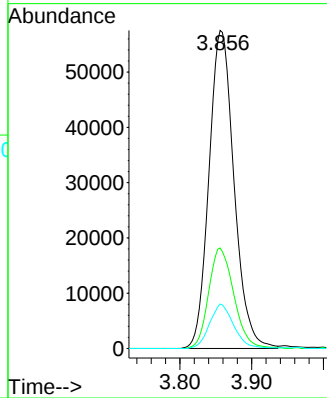
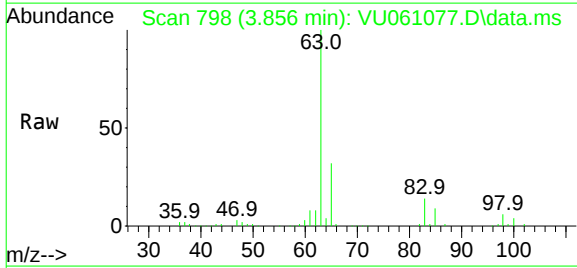




#19  
1,1-Dichloroethane  
Concen: 6.373 ug/L  
RT: 3.856 min Scan# 799  
Delta R.T. -0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

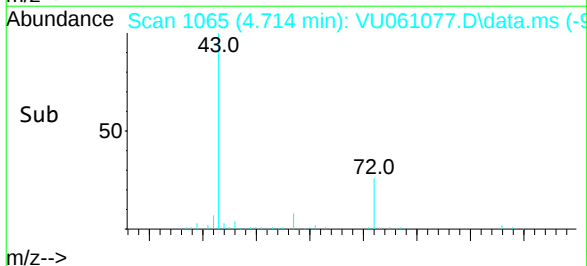
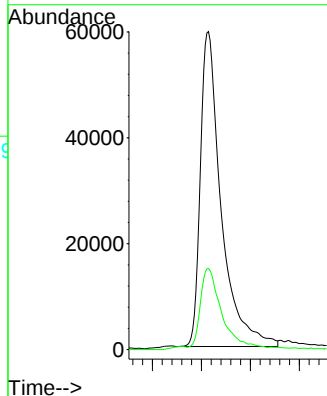
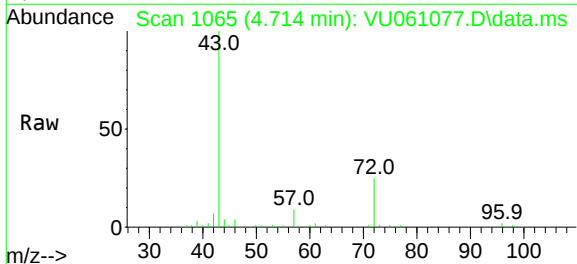
Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

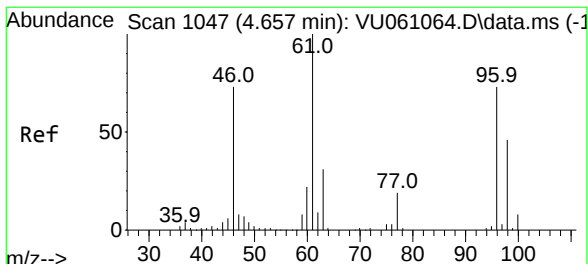
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 139650 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 31.6  | 23.0  | 42.8   |
| 83       | 14.0  | 9.0   | 16.6   |



#21  
2-Butanone  
Concen: 54.446 ug/L  
RT: 4.714 min Scan# 1065  
Delta R.T. 0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 175616 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 25.4  | 14.8  | 44.3   |

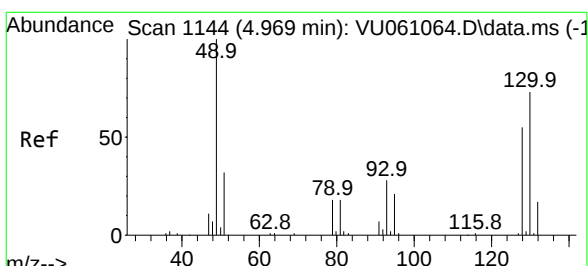
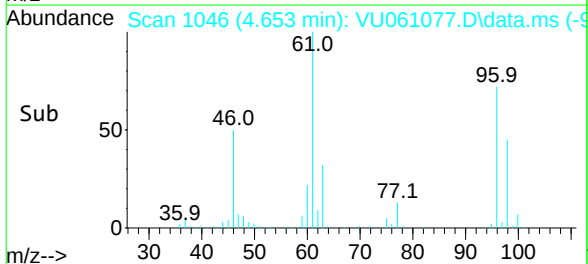
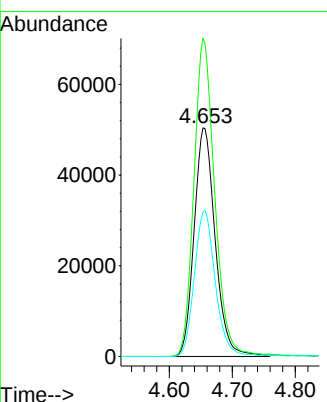
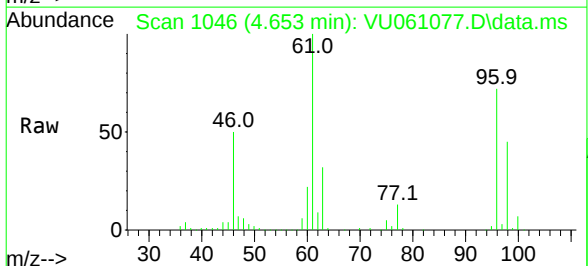




#22  
 cis-1,2-Dichloroethene  
 Concen: 9.332 ug/L  
 RT: 4.653 min Scan# 1046  
 Delta R.T. -0.003 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

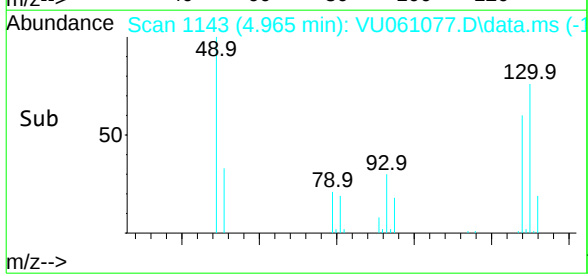
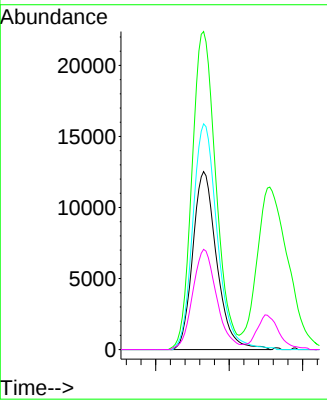
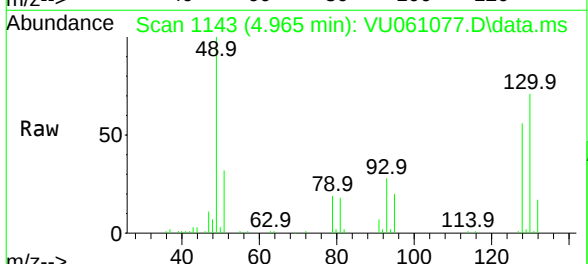
Instrument : MSVOA\_U  
 ClientSampleId : PMW-7D(20240927)MSD

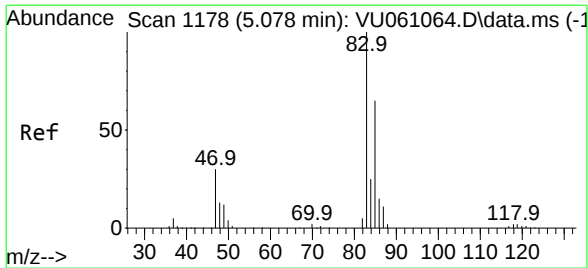
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 117038 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 139.2 | 89.7  | 166.5  |
| 98       | 63.2  | 45.1  | 83.9   |



#23  
 Bromochloromethane  
 Concen: 5.609 ug/L  
 RT: 4.965 min Scan# 1143  
 Delta R.T. -0.003 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 28316 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 178.7 | 109.6 | 203.6 |
| 130      | 126.9 | 87.8  | 163.0 |
| 51       | 56.3  | 37.3  | 55.9  |

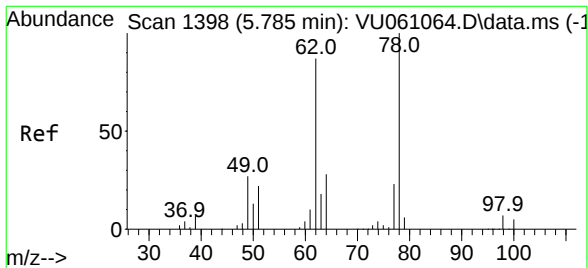
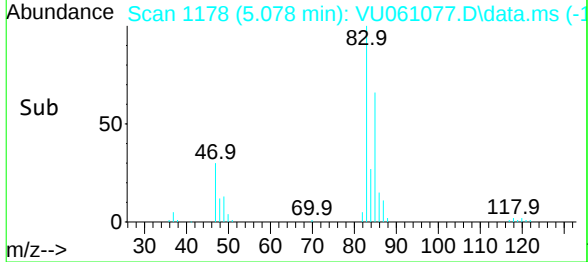
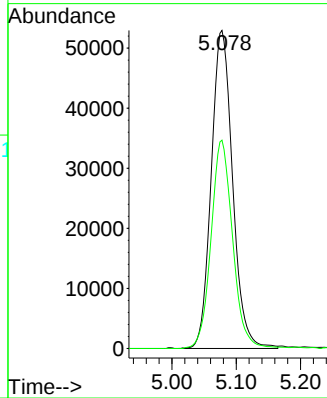
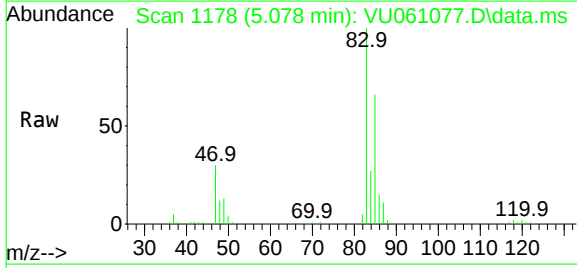




#25  
Chloroform  
Concen: 5.566 ug/L  
RT: 5.078 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

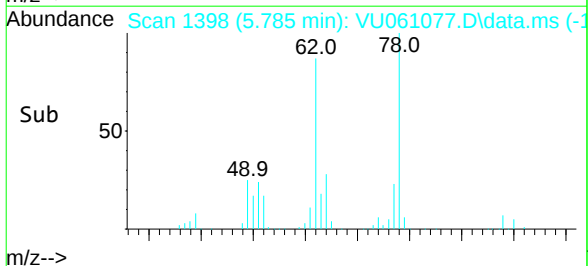
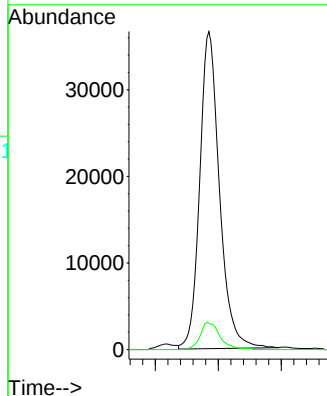
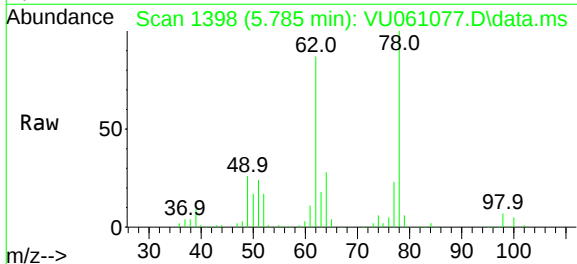
Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

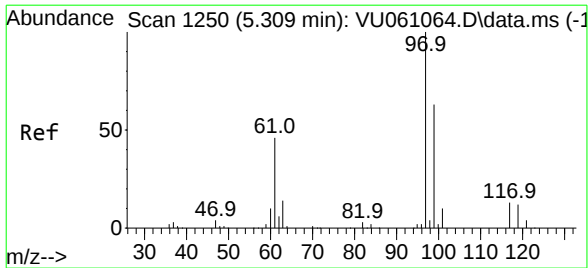
Tgt Ion: 83 Resp: 122184  
Ion Ratio Lower Upper  
83 100  
85 65.5 46.8 86.8



#27  
1,2-Dichloroethane  
Concen: 5.508 ug/L  
RT: 5.785 min Scan# 1398  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Tgt Ion: 62 Resp: 79633  
Ion Ratio Lower Upper  
62 100  
98 8.3 8.2 12.4

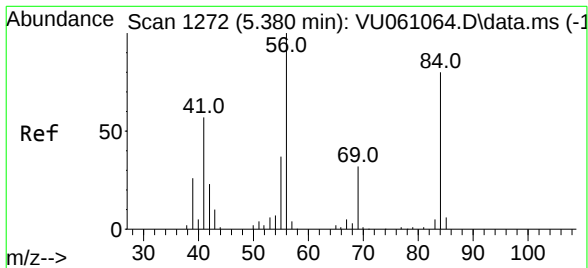
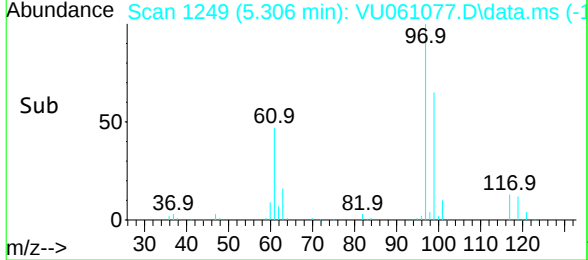
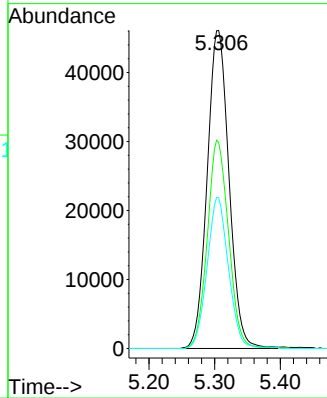
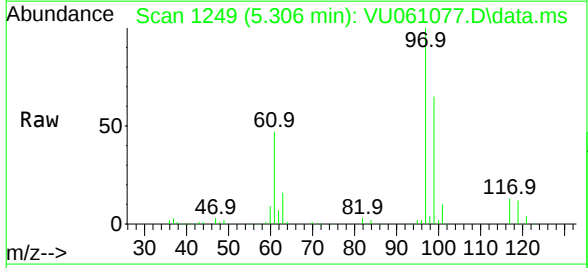




#29  
1,1,1-Trichloroethane  
Concen: 5.506 ug/L  
RT: 5.306 min Scan# 1250  
Delta R.T. -0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

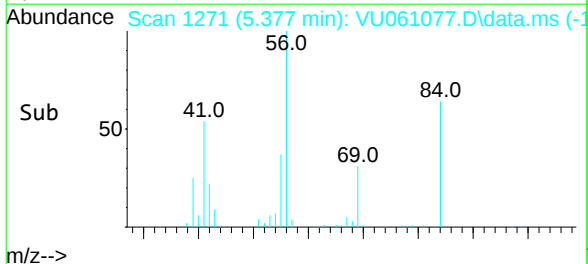
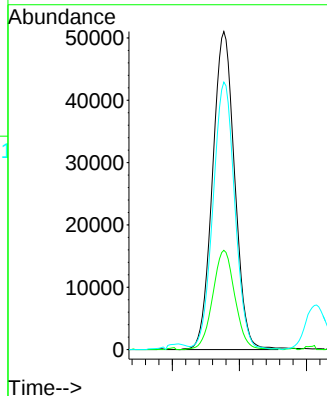
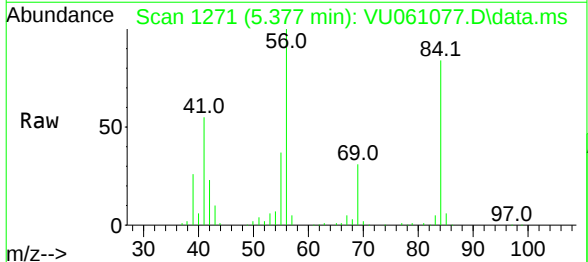
Instrument : MSVOA\_U  
ClientSampleId : PMW-7D(20240927)MSD

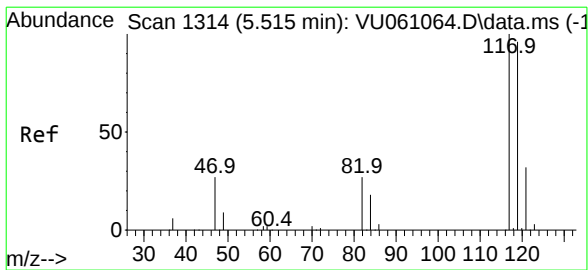
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 106460 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.6  | 50.5  | 75.7   |
| 61       | 46.3  | 34.4  | 51.6   |



#30  
Cyclohexane  
Concen: 5.426 ug/L  
RT: 5.377 min Scan# 1271  
Delta R.T. -0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 116871 |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 31.2  | 25.4  | 38.0   |
| 84       | 83.1  | 71.0  | 106.6  |





#31

Carbon tetrachloride

Concen: 5.526 ug/L

RT: 5.515 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

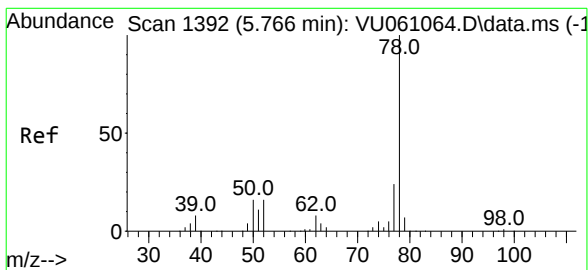
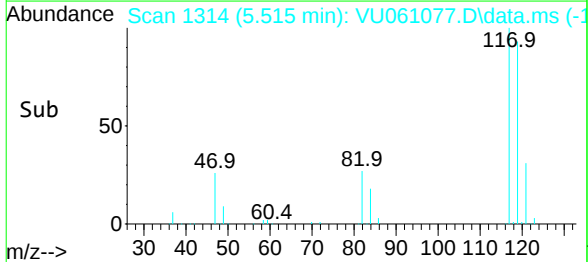
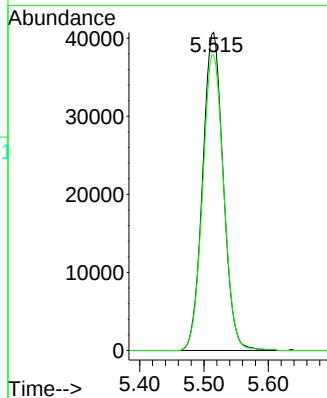
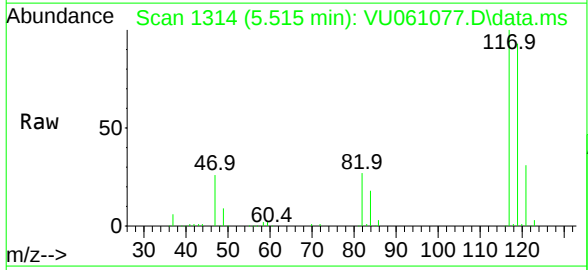
PMW-7D(20240927)MSD

Tgt Ion:117 Resp: 90670

Ion Ratio Lower Upper

117 100

119 95.4 76.3 114.5



#33

Benzene

Concen: 5.651 ug/L

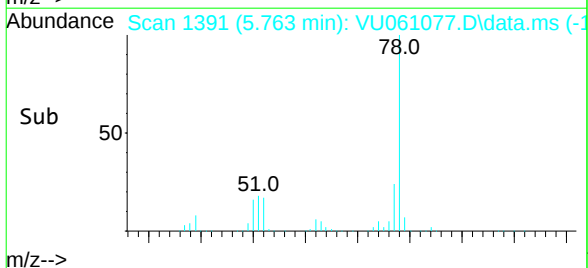
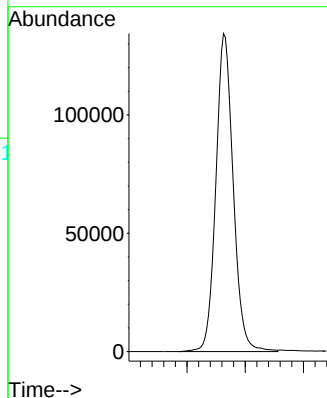
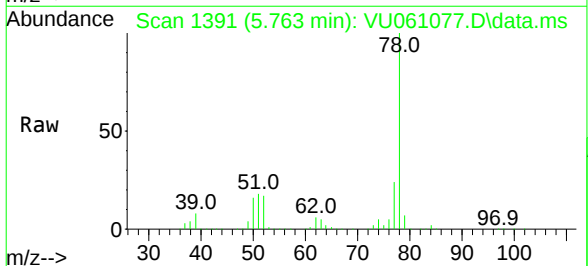
RT: 5.763 min Scan# 1391

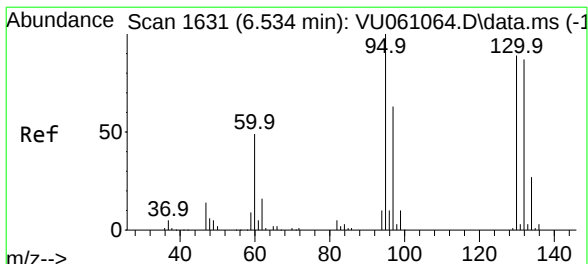
Delta R.T. -0.003 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Tgt Ion: 78 Resp: 278357

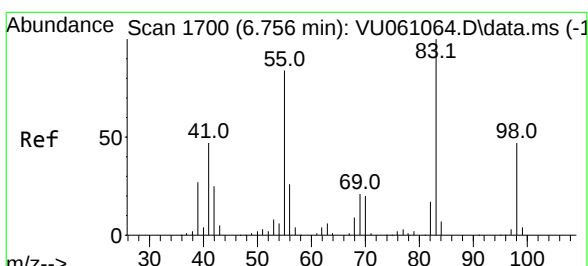
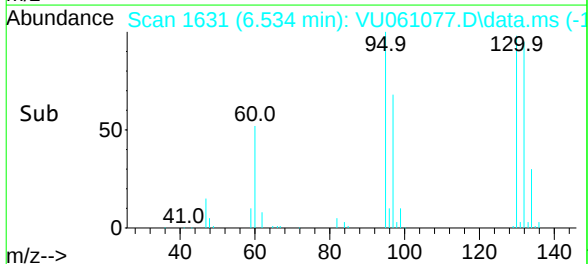
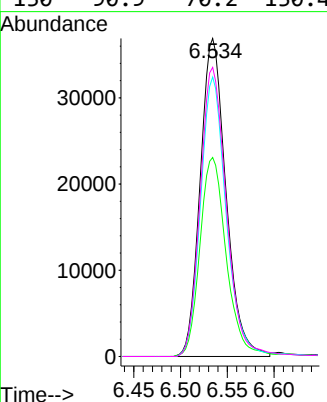
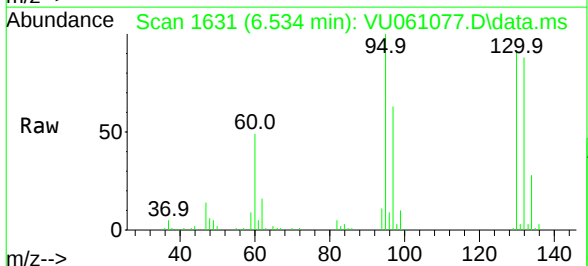




#34  
 Trichloroethene  
 Concen: 5.289 ug/L  
 RT: 6.534 min Scan# 1618  
 Delta R.T. -0.000 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

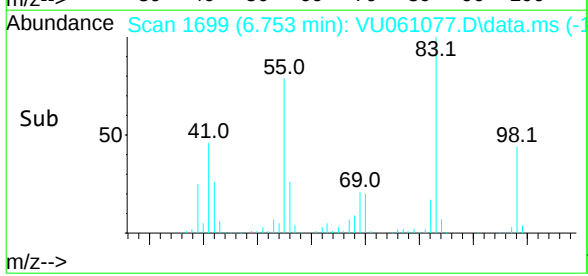
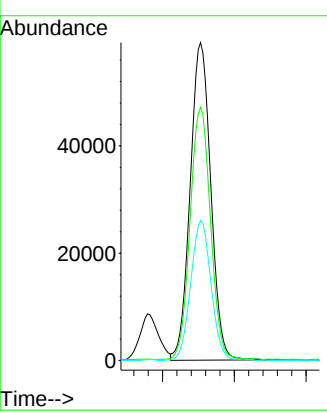
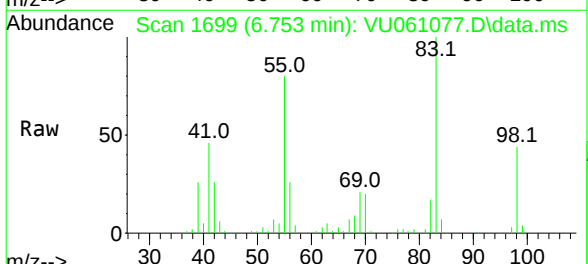
Instrument : MSVOA\_U  
 ClientSampleId : PMW-7D(20240927)MSD

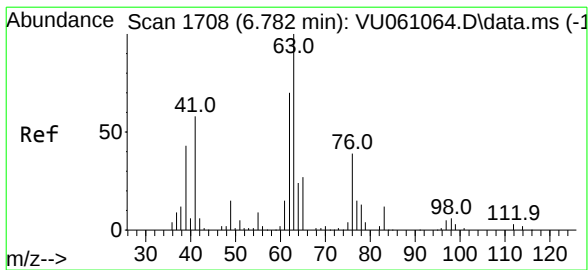
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 70624 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 62.6  | 44.9  | 83.5  |
| 132      | 87.9  | 63.5  | 117.9 |
| 130      | 90.9  | 70.2  | 130.4 |



#35  
 Methylcyclohexane  
 Concen: 5.471 ug/L  
 RT: 6.753 min Scan# 1699  
 Delta R.T. -0.003 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

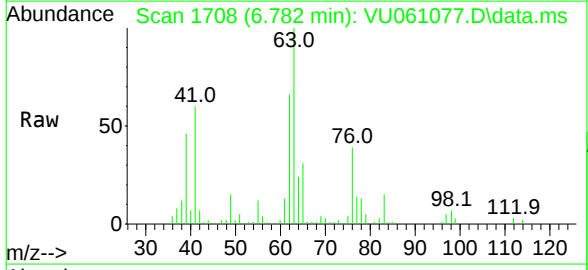
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 117970 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 78.5  | 62.6  | 94.0   |
| 98       | 43.5  | 37.6  | 56.4   |



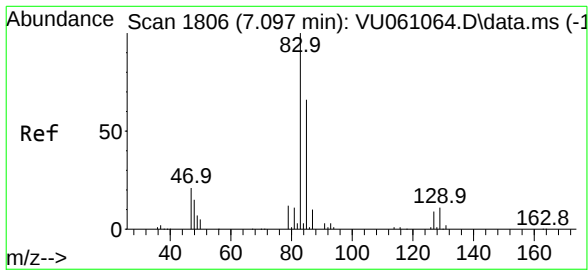
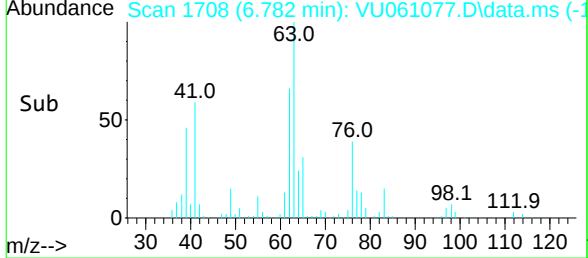
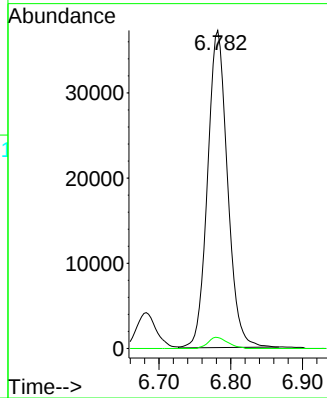


#37  
1,2-Dichloropropane  
Concen: 5.545 ug/L  
RT: 6.782 min Scan# 1708  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

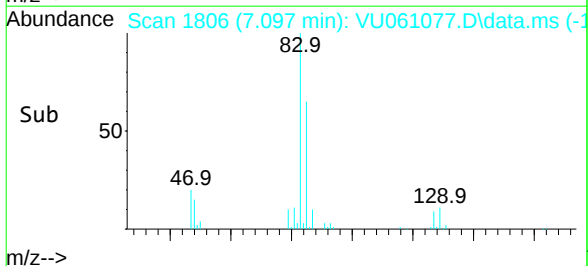
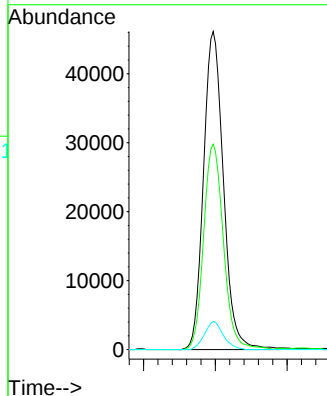
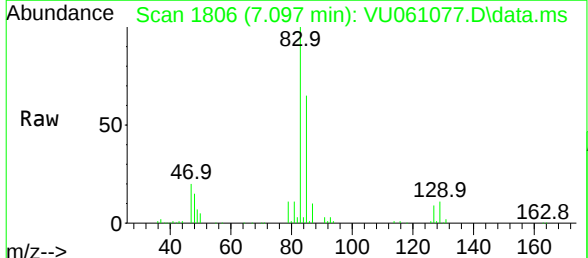


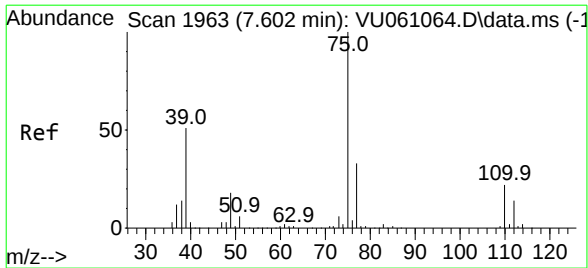
Tgt Ion: 63 Resp: 71979  
Ion Ratio Lower Upper  
63 100  
112 3.5 2.0 3.0#



#38  
Bromodichloromethane  
Concen: 5.481 ug/L  
RT: 7.097 min Scan# 1806  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Tgt Ion: 83 Resp: 88949  
Ion Ratio Lower Upper  
83 100  
85 64.6 45.6 84.8  
127 8.8 7.0 10.6

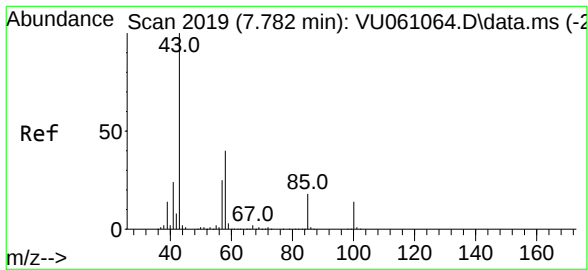
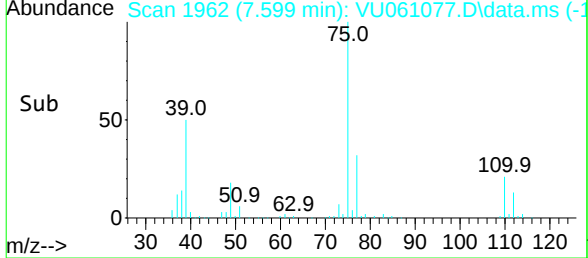
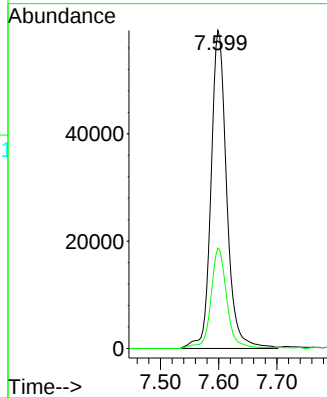
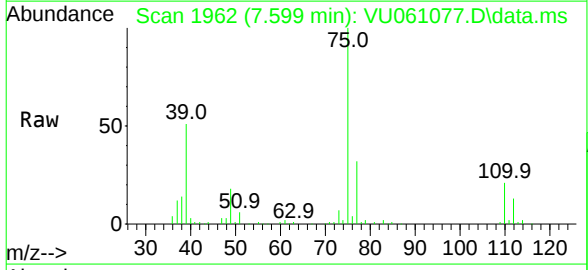




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.461 ug/L  
 RT: 7.599 min Scan# 19  
 Delta R.T. -0.003 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

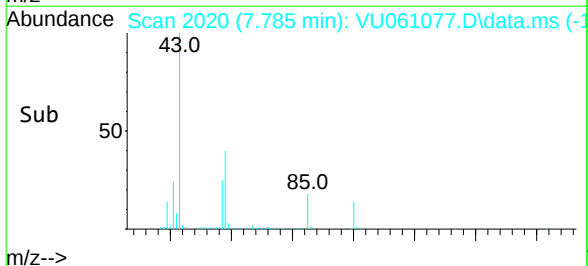
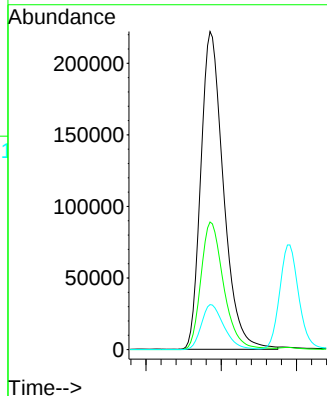
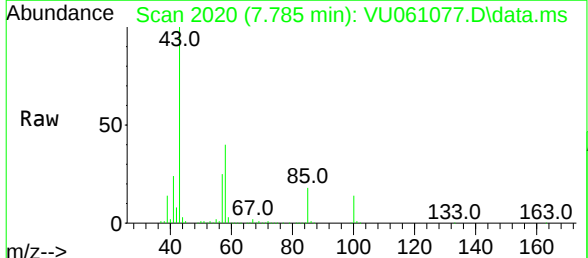
Instrument : MSVOA\_U  
 ClientSampleId : PMW-7D(20240927)MSD

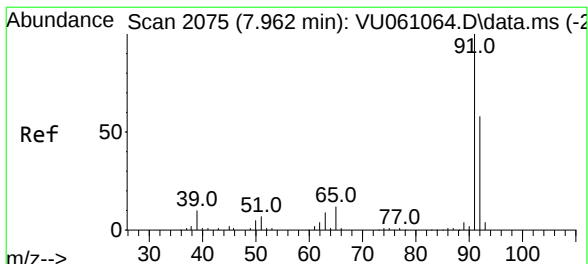
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 111151 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 31.6  | 21.3  | 39.5   |



#40  
 4-Methyl-2-pentanone  
 Concen: 55.831 ug/L  
 RT: 7.785 min Scan# 2020  
 Delta R.T. 0.003 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

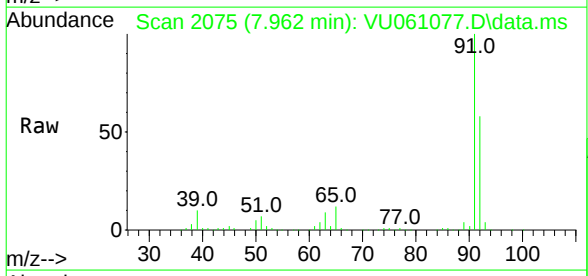
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 464188 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 40.3  | 34.9  | 52.3   |
| 100       | 14.1  | 13.4  | 20.0   |



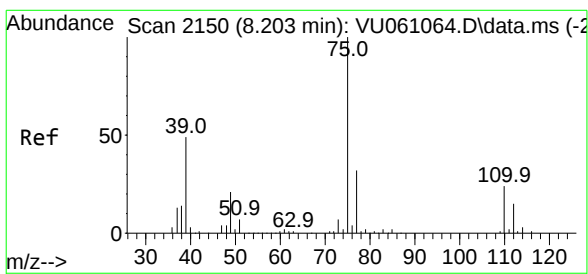
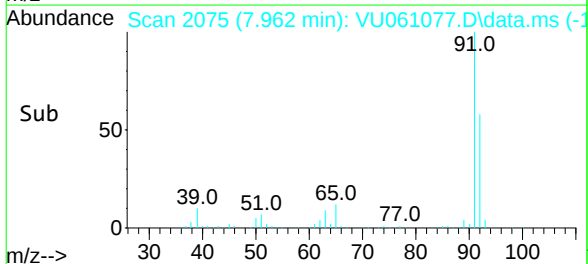
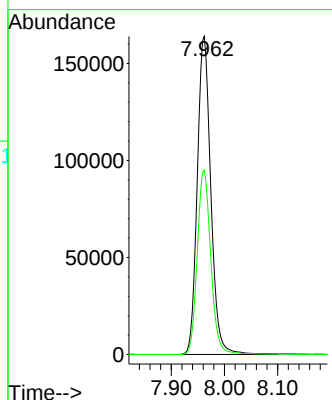


#42  
 Toluene  
 Concen: 5.543 ug/L  
 RT: 7.962 min Scan# 2075  
 Delta R.T. -0.000 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

Instrument : MSVOA\_U  
 ClientSampleId : PMW-7D(20240927)MSD

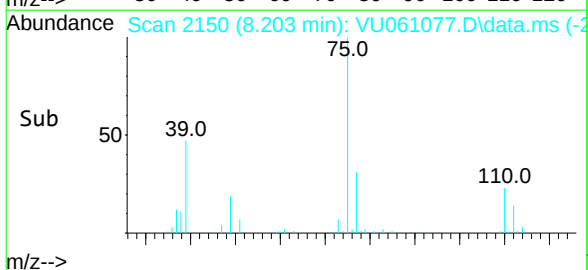
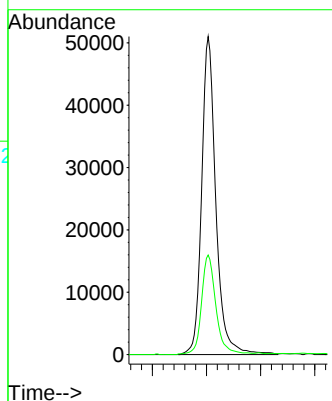
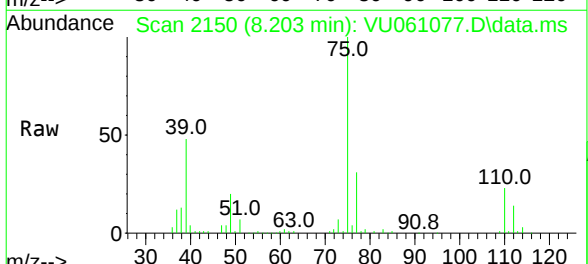


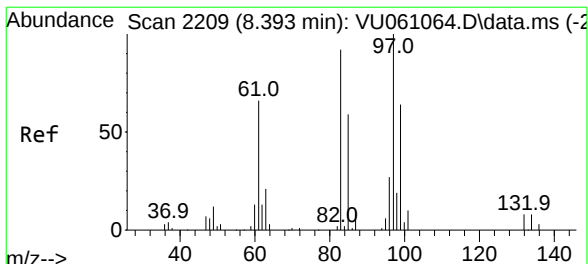
Tgt Ion: 91 Resp: 290871  
 Ion Ratio Lower Upper  
 91 100  
 92 57.9 40.5 75.3



#44  
 trans-1,3-Dichloropropene  
 Concen: 5.520 ug/L  
 RT: 8.203 min Scan# 2150  
 Delta R.T. -0.000 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

Tgt Ion: 75 Resp: 92899  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 23.1 42.9

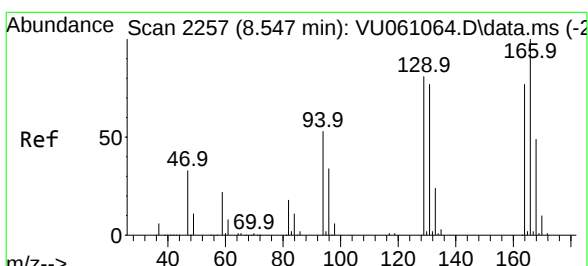
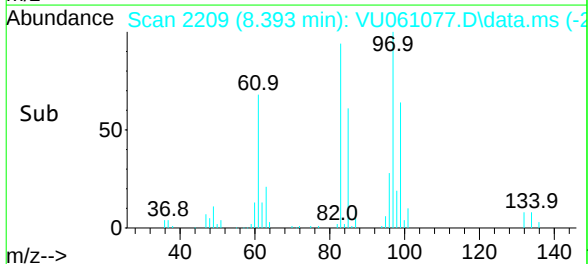
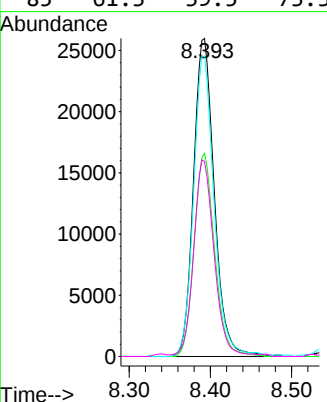
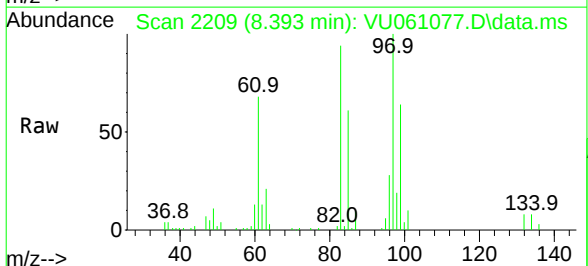




#45  
 1,1,2-Trichloroethane  
 Concen: 5.358 ug/L  
 RT: 8.393 min Scan# 2209  
 Delta R.T. -0.000 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

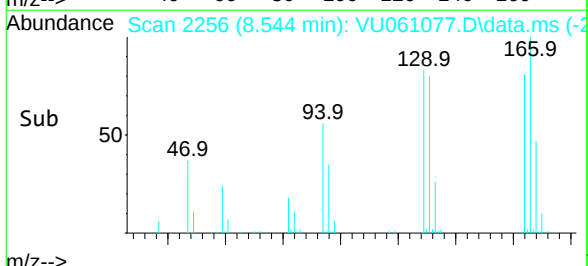
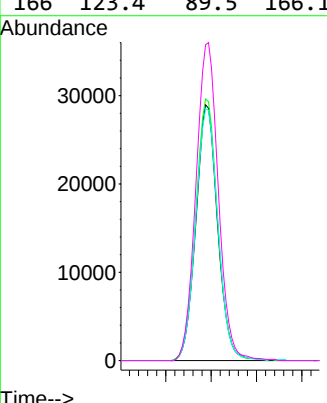
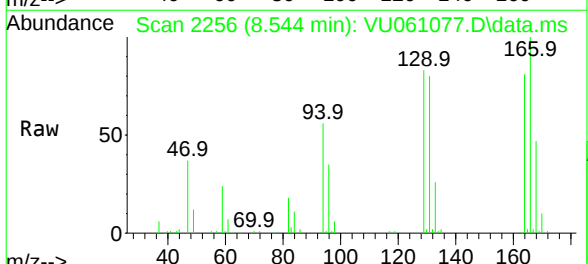
Instrument : MSVOA\_U  
 ClientSampleId : PMW-7D(20240927)MSD

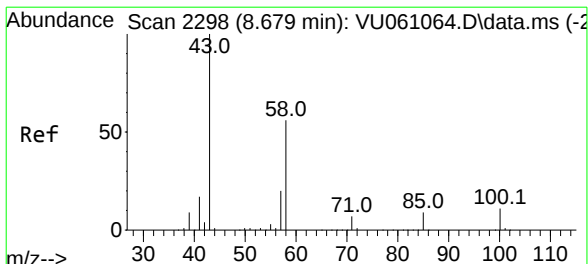
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 46097 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.9  | 42.3  | 78.5  |
| 83       | 94.3  | 61.7  | 114.5 |
| 85       | 61.3  | 39.5  | 73.3  |



#47  
 Tetrachloroethene  
 Concen: 5.554 ug/L  
 RT: 8.544 min Scan# 2256  
 Delta R.T. -0.003 min  
 Lab File: VU061077.D  
 Acq: 02 Oct 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 48264 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 102.3 | 67.3  | 124.9 |
| 131      | 98.4  | 65.4  | 121.4 |
| 166      | 123.4 | 89.5  | 166.1 |

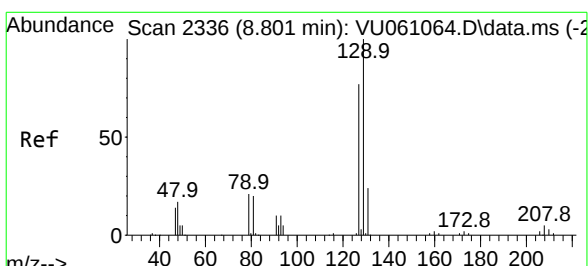
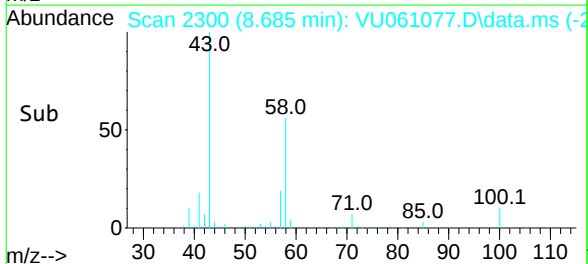
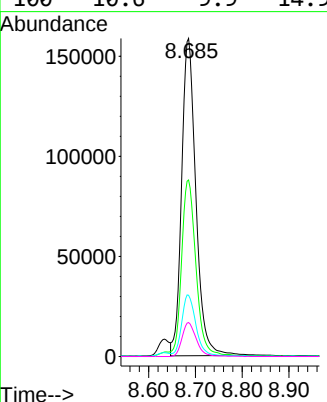
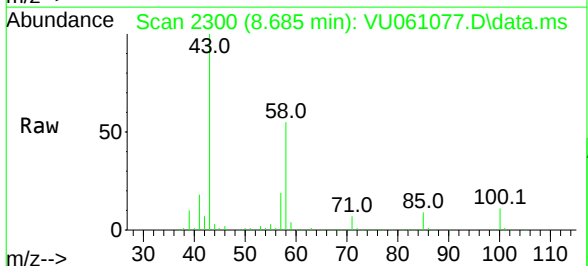




#48  
2-Hexanone  
Concen: 58.290 ug/L  
RT: 8.685 min Scan# 2300  
Delta R.T. 0.006 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

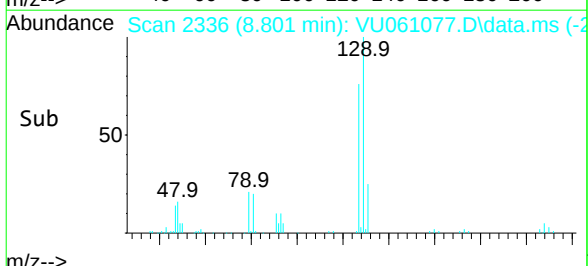
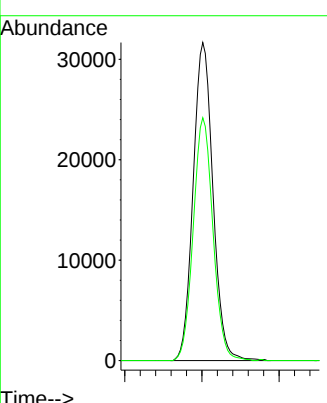
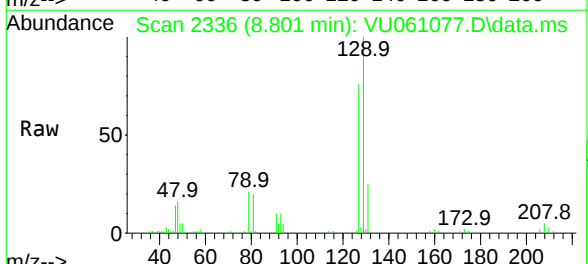
Instrument : MSVOA\_U  
ClientSampleId : PMW-7D(20240927)MSD

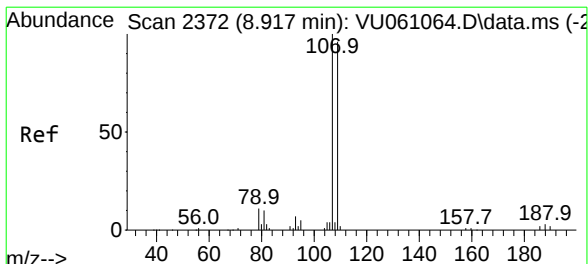
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 335997 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 54.7  | 48.3  | 72.5   |
| 57       | 19.0  | 15.9  | 23.9   |
| 100      | 10.6  | 9.9   | 14.9   |



#49  
Dibromochloromethane  
Concen: 5.647 ug/L  
RT: 8.801 min Scan# 2336  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 56524 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 76.4  | 56.1  | 104.1 |

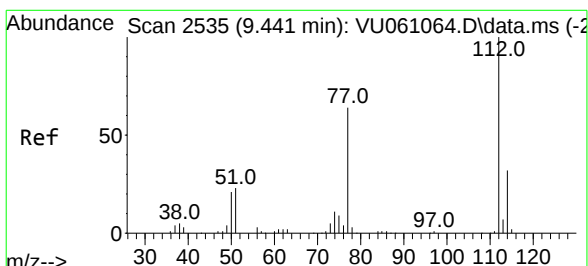
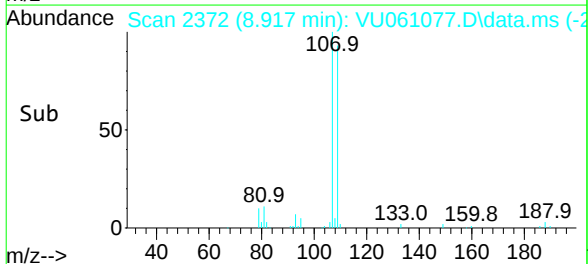
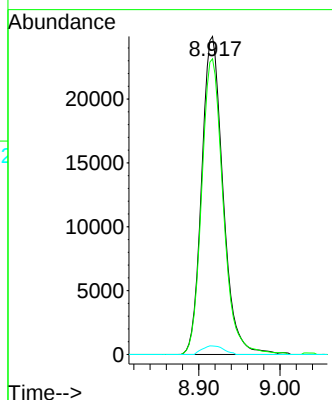
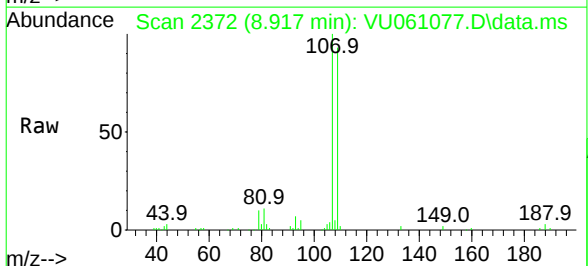




#50  
1,2-Dibromoethane  
Concen: 5.583 ug/L  
RT: 8.917 min Scan# 2372  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

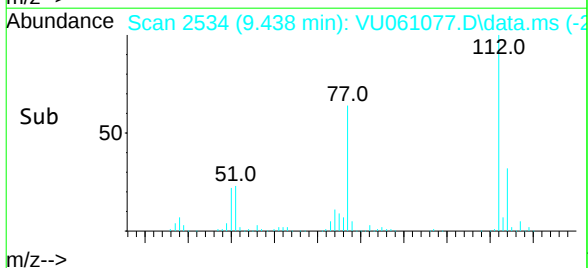
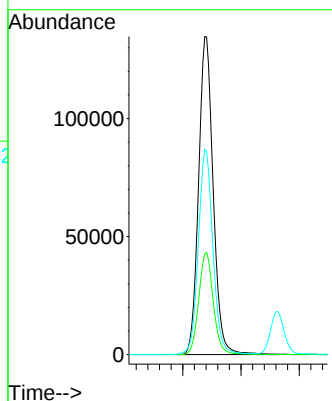
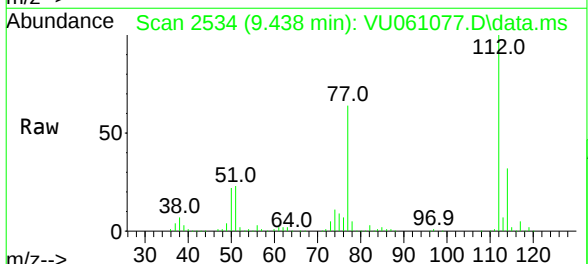
Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

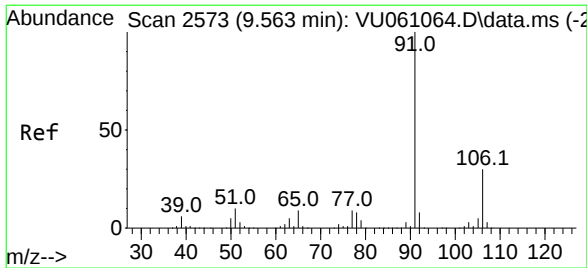
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 45466 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 93.0  | 66.8  | 124.0 |
| 188      | 2.7   | 3.4   | 5.0   |



#51  
Chlorobenzene  
Concen: 7.353 ug/L  
RT: 9.438 min Scan# 2534  
Delta R.T. -0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 235033 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.6  | 22.2  | 41.2   |
| 77       | 64.5  | 46.1  | 69.1   |

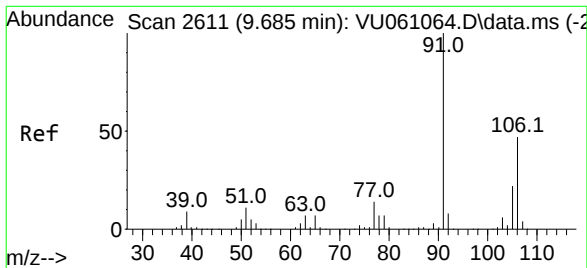
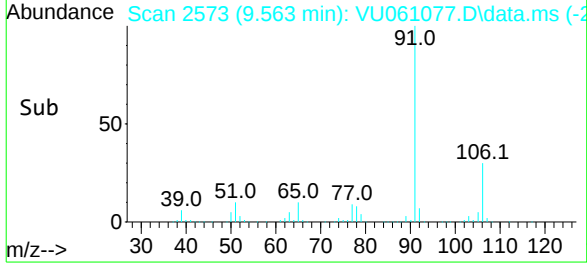
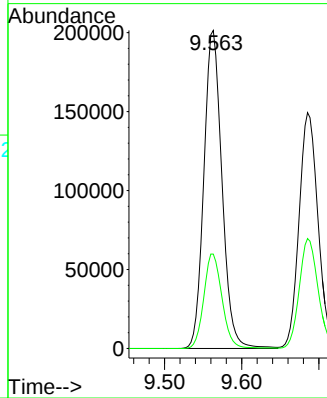
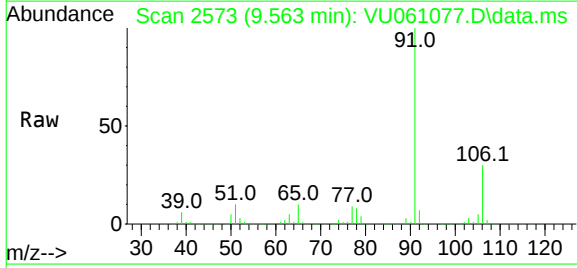




#52  
Ethylbenzene  
Concen: 5.519 ug/L  
RT: 9.563 min Scan# 2573  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

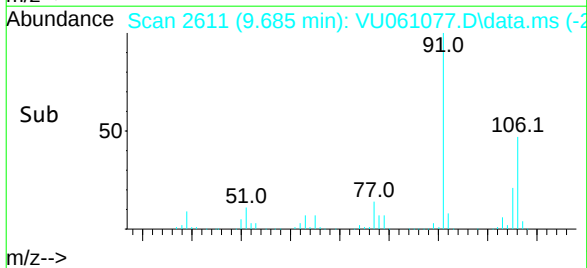
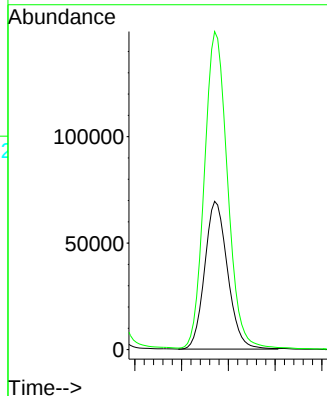
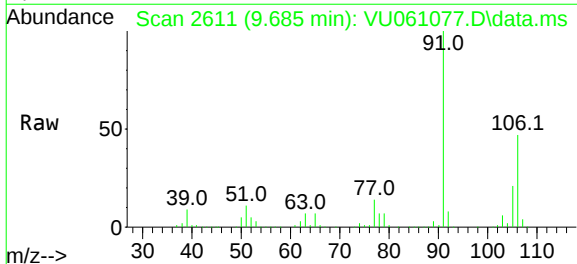
Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

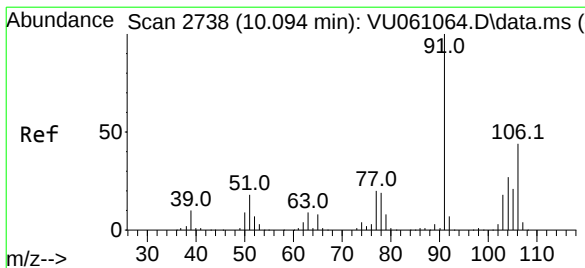
Tgt Ion: 91 Resp: 328207  
Ion Ratio Lower Upper  
91 100  
106 29.7 21.8 40.6



#53  
m,p-Xylene  
Concen: 5.442 ug/L  
RT: 9.685 min Scan# 2611  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Tgt Ion: 106 Resp: 118044  
Ion Ratio Lower Upper  
106 100  
91 214.5 139.7 259.4





#54

o-Xylene

Concen: 5.593 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

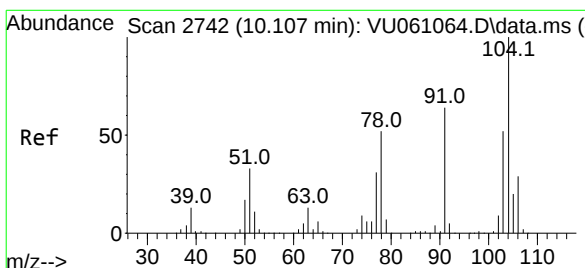
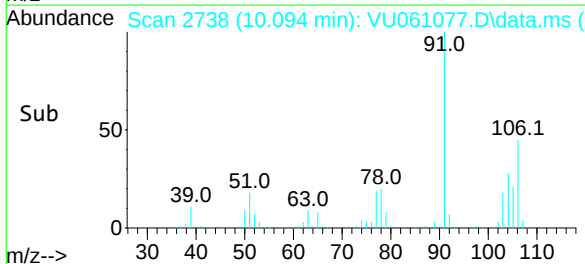
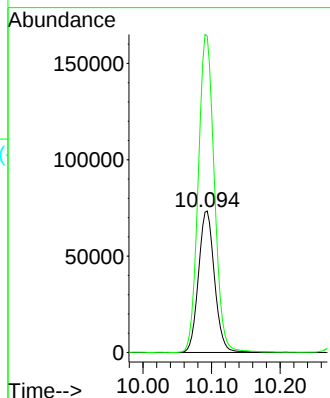
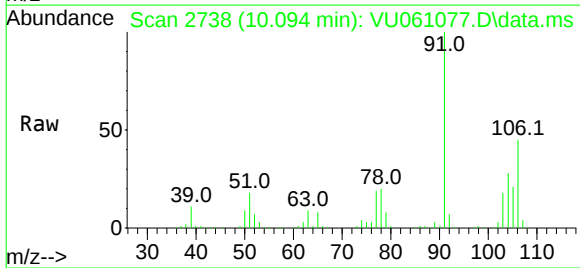
PMW-7D(20240927)MSD

Tgt Ion:106 Resp: 119360

Ion Ratio Lower Upper

106 100

91 223.6 148.6 276.0



#55

Styrene

Concen: 5.689 ug/L

RT: 10.107 min Scan# 2742

Delta R.T. -0.000 min

Lab File: VU061077.D

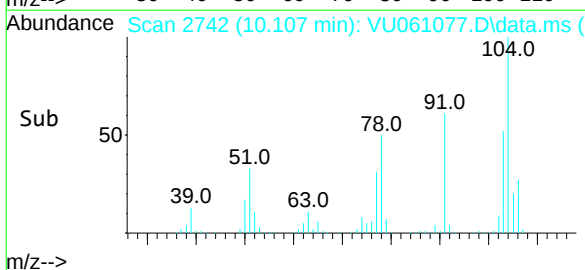
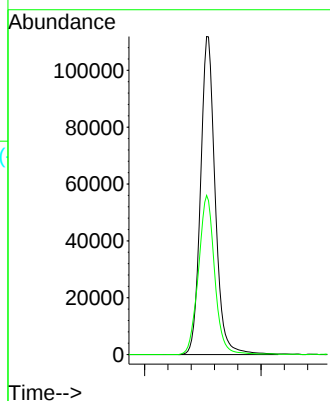
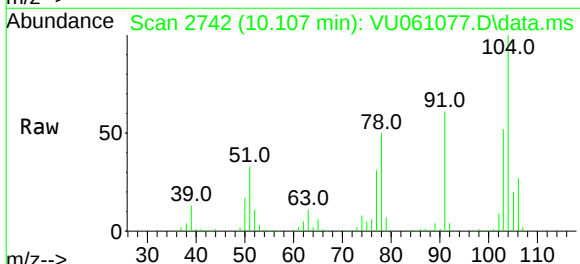
Acq: 02 Oct 2024 15:34

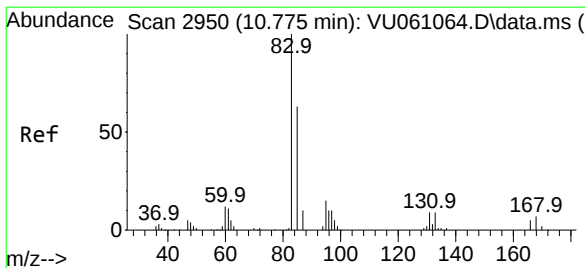
Tgt Ion:104 Resp: 195937

Ion Ratio Lower Upper

104 100

78 50.0 31.7 58.9





#57

1,1,2,2-Tetrachloroethane

Concen: 5.785 ug/L

RT: 10.775 min Scan# 29

Delta R.T. -0.000 min

Lab File: VU061077.D

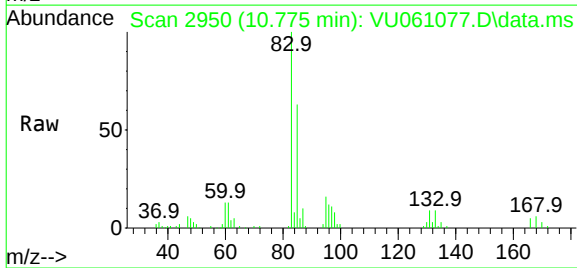
Acq: 02 Oct 2024 15:34

Instrument :

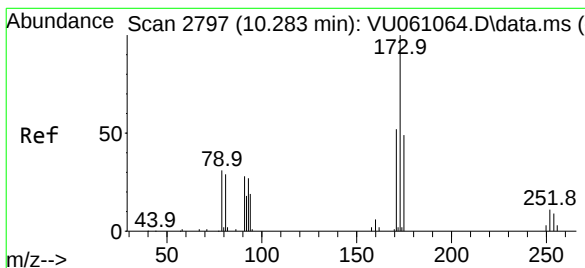
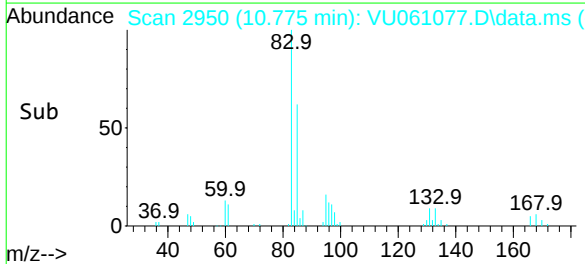
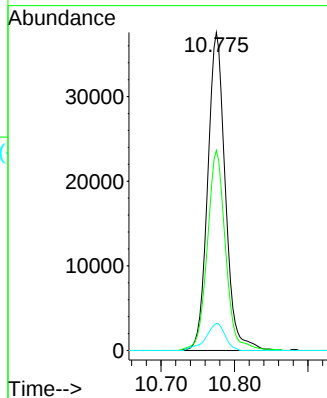
MSVOA\_U

ClientSampleId :

PMW-7D(20240927)MSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 62537 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 62.9  | 42.9  | 79.7  |
| 131       | 8.5   | 8.4   | 12.6  |



#59

Bromoform

Concen: 5.378 ug/L

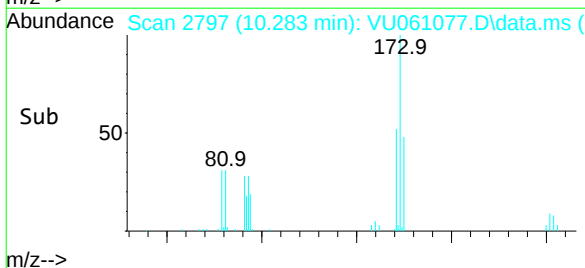
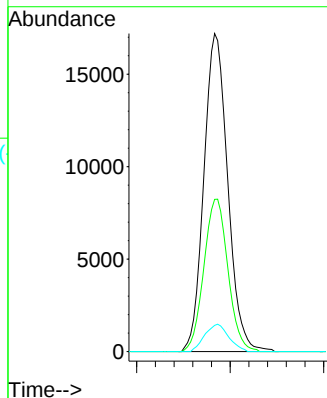
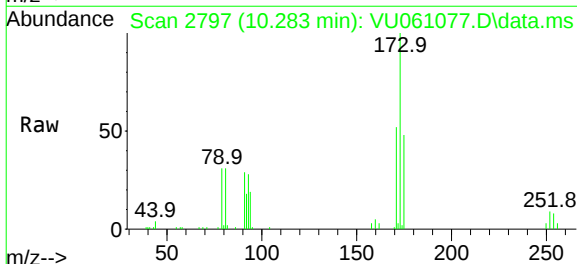
RT: 10.283 min Scan# 2797

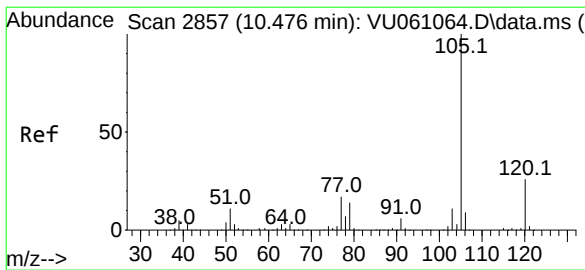
Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 30459 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 48.4  | 39.1  | 58.7  |
| 254       | 8.7   | 8.7   | 13.1# |





#60

Isopropylbenzene

Concen: 5.374 ug/L

RT: 10.476 min Scan# 2857

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

PMW-7D(20240927)MSD

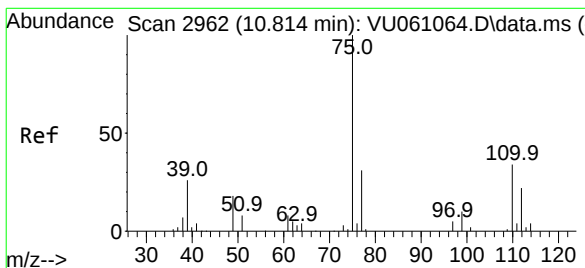
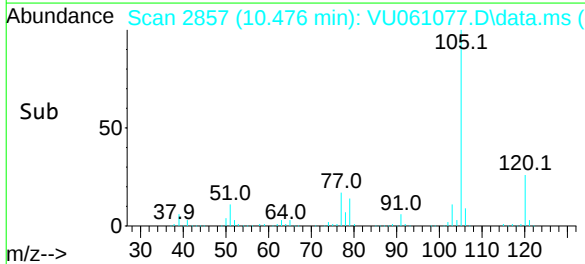
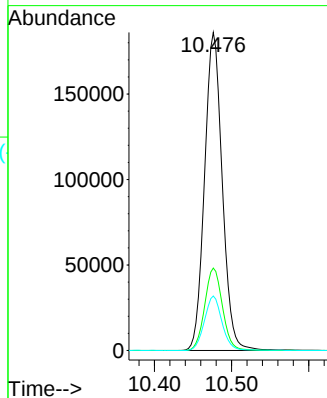
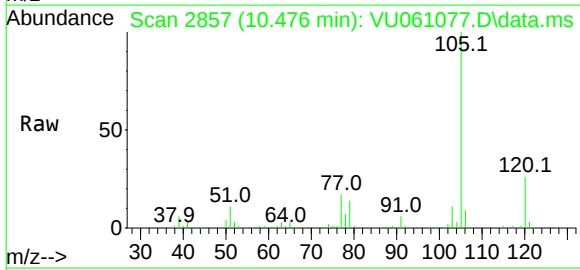
Tgt Ion:105 Resp: 296557

Ion Ratio Lower Upper

105 100

120 26.0 21.5 32.3

77 17.0 12.6 18.8



#61

1,2,3-Trichloropropane

Concen: 5.410 ug/L

RT: 10.814 min Scan# 2962

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

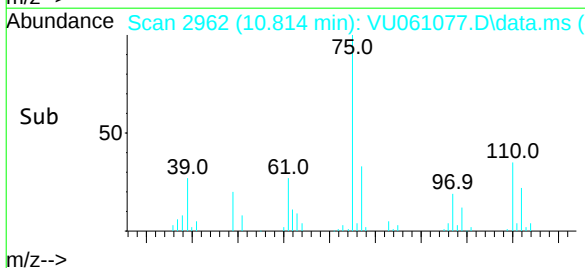
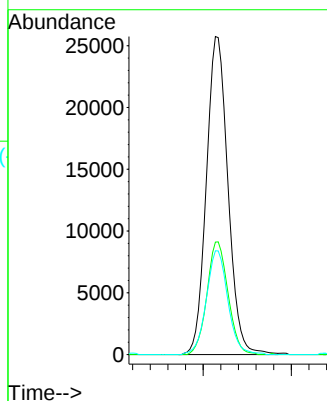
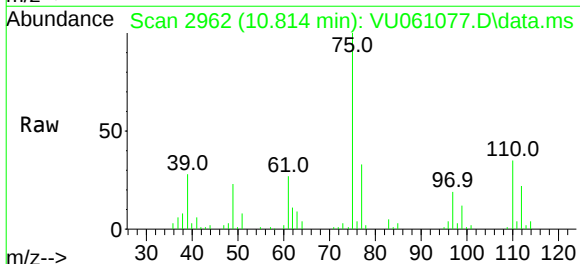
Tgt Ion: 75 Resp: 43853

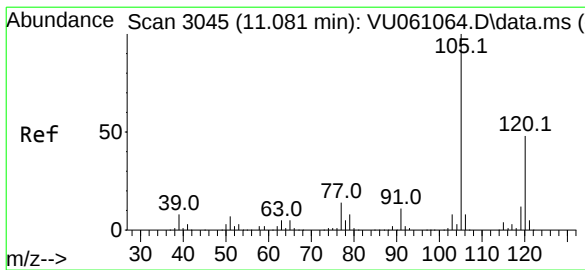
Ion Ratio Lower Upper

75 100

110 34.6 28.6 43.0

77 32.6 26.3 39.5

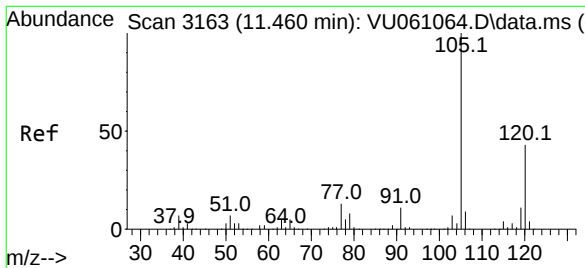
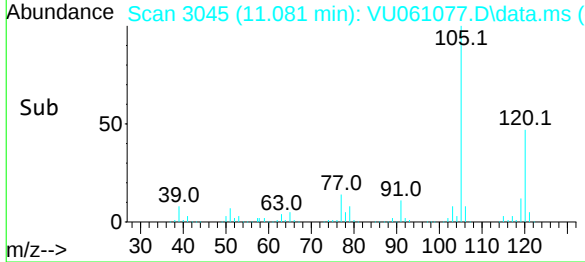
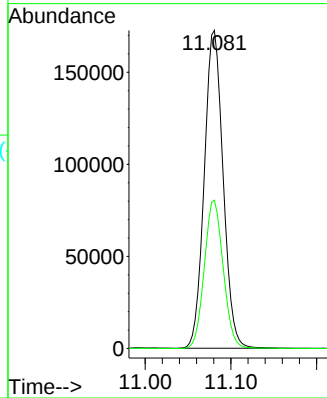
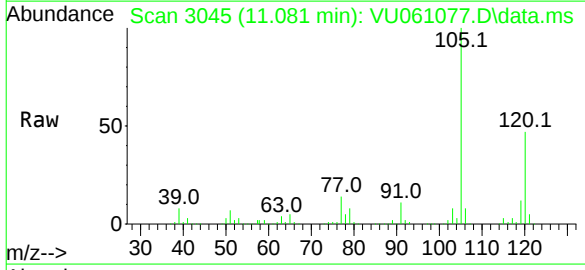




#62  
1,3,5-Trimethylbenzene  
Concen: 5.420 ug/L  
RT: 11.081 min Scan# 3045  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

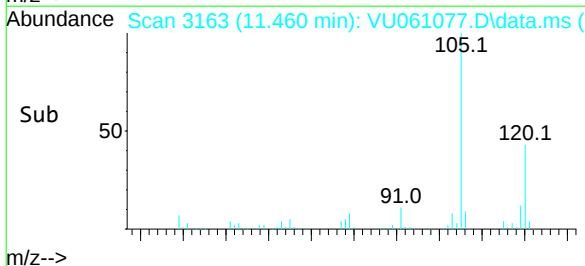
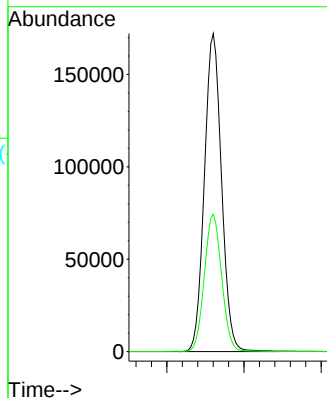
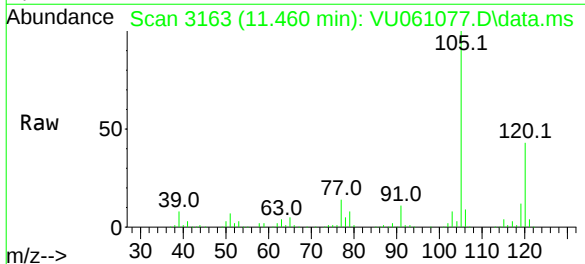
Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

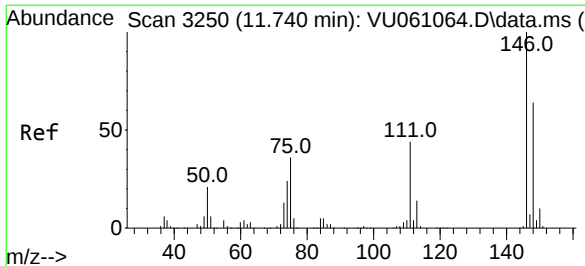
Tgt Ion:105 Resp: 263593  
Ion Ratio Lower Upper  
105 100  
120 46.8 38.5 57.7



#63  
1,2,4-Trimethylbenzene  
Concen: 5.412 ug/L  
RT: 11.460 min Scan# 3163  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Tgt Ion:105 Resp: 265662  
Ion Ratio Lower Upper  
105 100  
120 43.6 36.1 54.1





#64

1,3-Dichlorobenzene

Concen: 8.856 ug/L

RT: 11.740 min Scan# 32

Delta R.T. -0.000 min

Lab File: VU061077.D

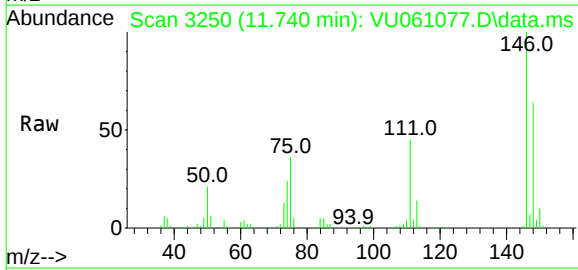
Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

PMW-7D(20240927)MSD



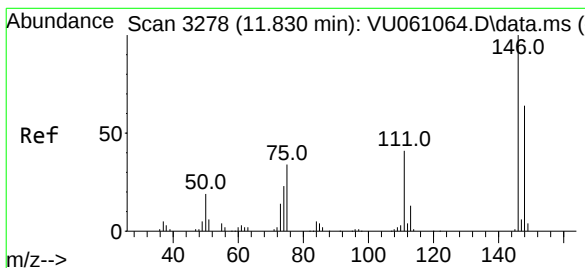
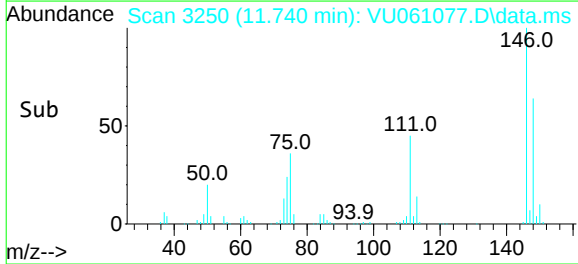
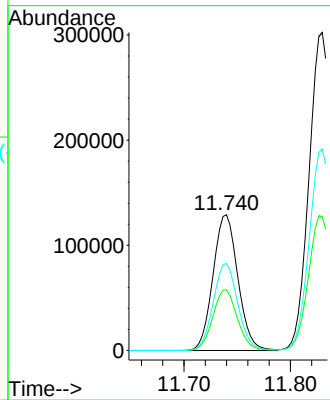
Tgt Ion:146 Resp: 209474

Ion Ratio Lower Upper

146 100

111 44.7 27.5 51.1

148 64.0 43.7 81.1



#65

1,4-Dichlorobenzene

Concen: 20.856 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

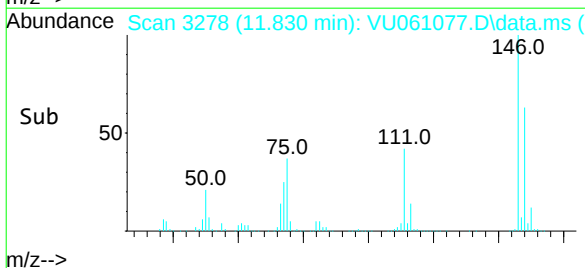
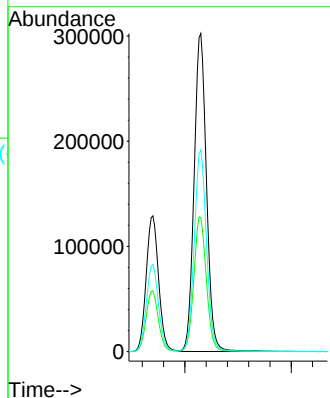
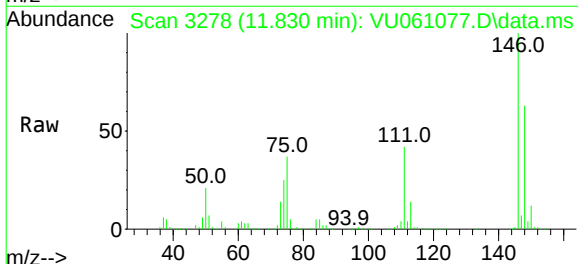
Tgt Ion:146 Resp: 487655

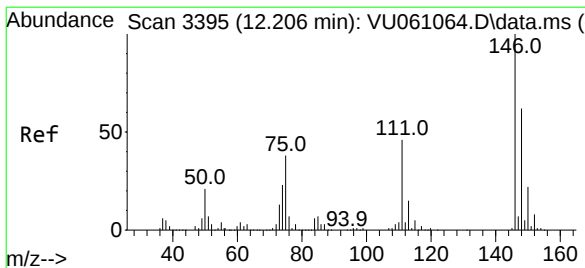
Ion Ratio Lower Upper

146 100

111 42.1 26.3 48.9

148 63.4 45.3 84.1





#67

1,2-Dichlorobenzene

Concen: 5.853 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU061077.D

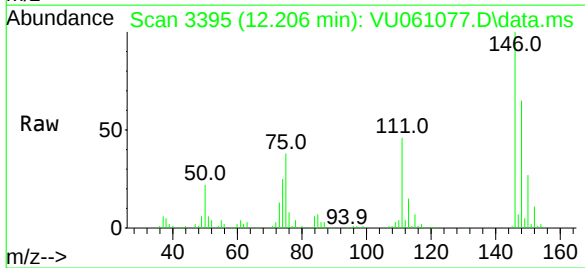
Acq: 02 Oct 2024 15:34

Instrument :

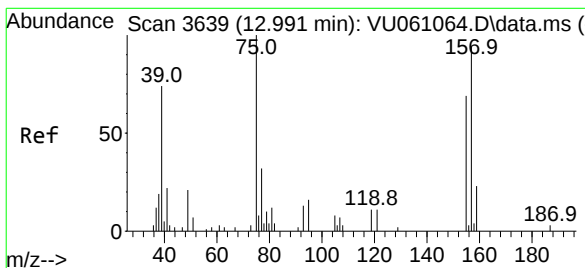
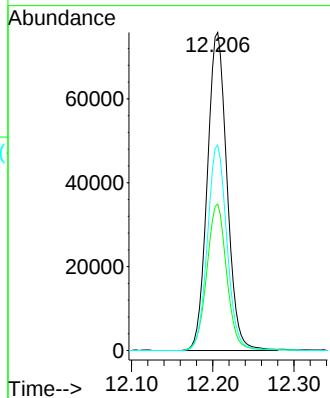
MSVOA\_U

ClientSampleId :

PMW-7D(20240927)MSD



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 127954 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 46.0  | 33.4  | 50.0   |
| 148       | 64.6  | 50.9  | 76.3   |



#68

1,2-Dibromo-3-chloropropane

Concen: 5.483 ug/L

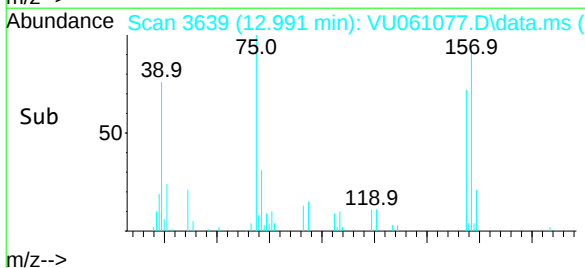
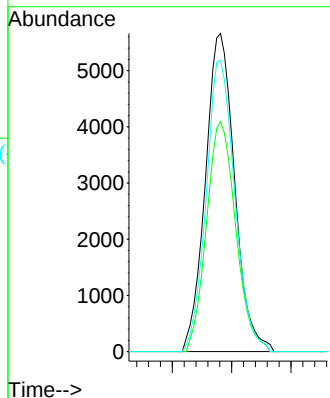
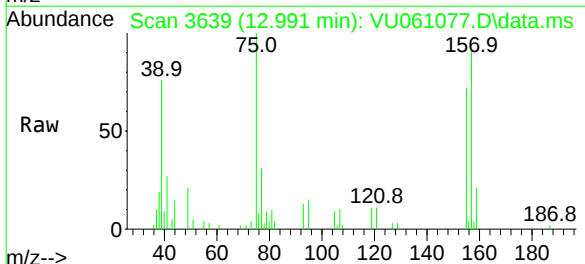
RT: 12.991 min Scan# 3639

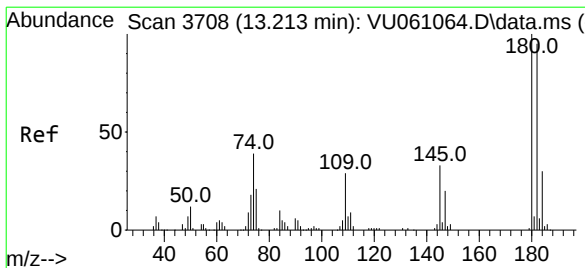
Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 9692   |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 155       | 72.3  | 73.1  | 109.7# |
| 157       | 91.5  | 91.0  | 136.4  |





#69

1,3,5-Trichlorobenzene

Concen: 5.655 ug/L

RT: 13.213 min Scan# 3708

Delta R.T. -0.000 min

Lab File: VU061077.D

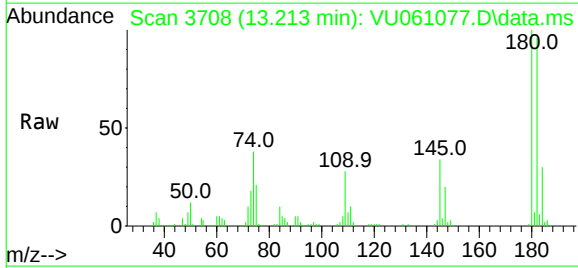
Acq: 02 Oct 2024 15:34

Instrument :

MSVOA\_U

ClientSampleId :

PMW-7D(20240927)MSD



Tgt Ion:180 Resp: 94189

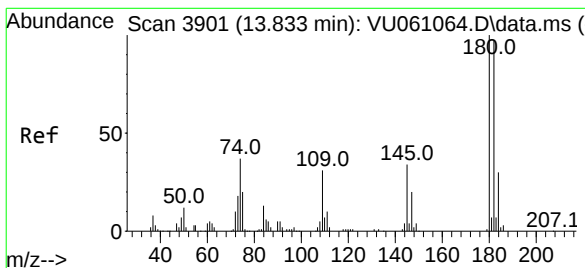
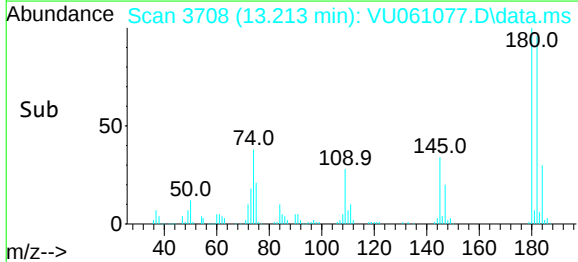
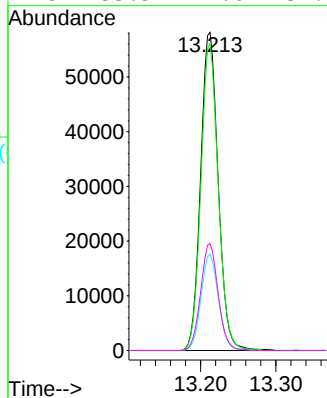
Ion Ratio Lower Upper

180 100

182 95.2 74.5 111.7

184 30.0 23.2 34.8

145 33.5 21.6 32.4#



#70

1,2,4-trichlorobenzene

Concen: 6.145 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. -0.000 min

Lab File: VU061077.D

Acq: 02 Oct 2024 15:34

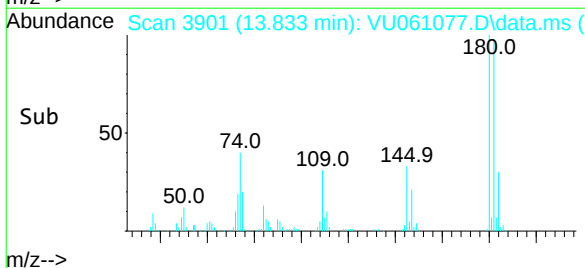
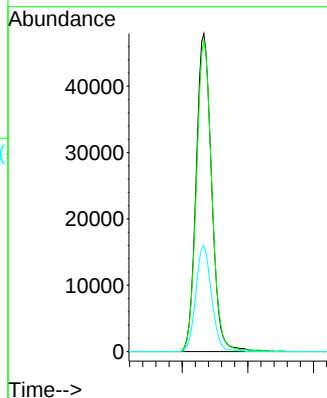
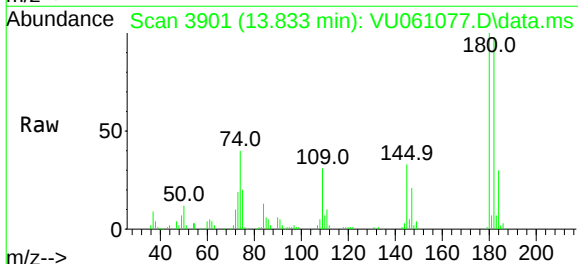
Tgt Ion:180 Resp: 78428

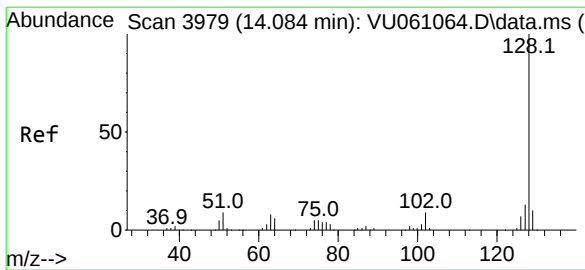
Ion Ratio Lower Upper

180 100

182 97.1 77.4 116.2

145 33.7 22.9 34.3

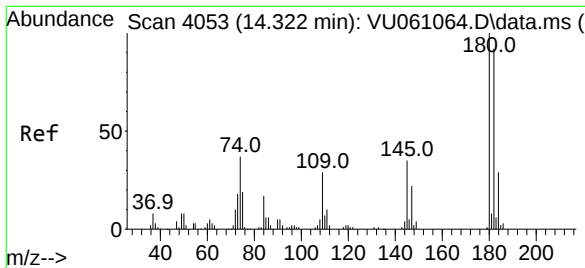
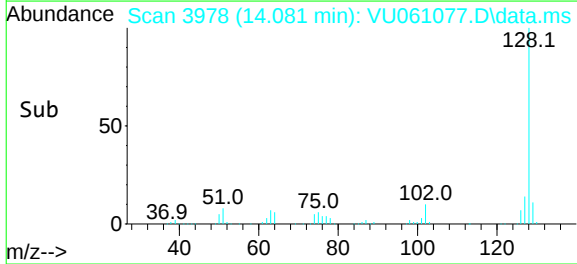
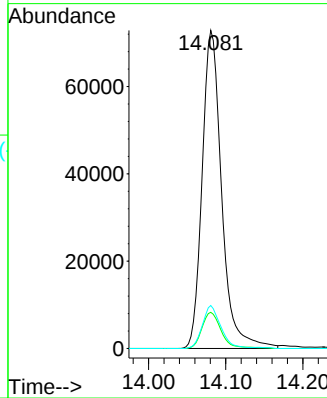
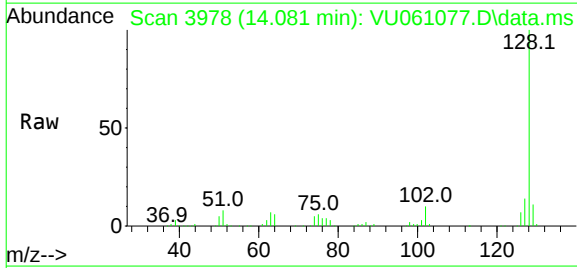




#71  
Naphthalene  
Concen: 6.152 ug/L  
RT: 14.081 min Scan# 3979  
Delta R.T. -0.003 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

Instrument :  
MSVOA\_U  
ClientSampleId :  
PMW-7D(20240927)MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 128266 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 11.3  | 8.3   | 12.5   |
| 127      | 12.7  | 10.7  | 16.1   |



#72  
1,2,3-Trichlorobenzene  
Concen: 5.971 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. -0.000 min  
Lab File: VU061077.D  
Acq: 02 Oct 2024 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 63416 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 95.7  | 75.7  | 113.5 |
| 145      | 34.6  | 23.5  | 35.3  |

