

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU013025\  
 Data File : VU063096.D  
 Acq On : 30 Jan 2025 13:29  
 Operator : MD/SY  
 Sample : VSTD005  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 31 07:29:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM013025WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 31 07:29:09 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Difluorobenzene        | 6.239  | 114  | 146102   | 50.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.409  | 117  | 136178   | 50.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152  | 64746    | 50.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65   | 5121     | 5.372  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.905  | 69   | 3360     | 4.401  | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 63   | 9715     | 5.083  | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 4.644  | 46   | 3984     | 8.803  | ug/L   | 0.04     |
| 24) Chloroform-d              | 5.056  | 84   | 9898     | 4.579  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65   | 5095     | 3.616  | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.718  | 84   | 18164    | 4.729  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67   | 5862     | 5.138  | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.891  | 98   | 16135    | 4.472  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.178  | 79   | 2747     | 4.389  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 8.634  | 63   | 4209     | 11.042 | ug/L   | 0.02     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.747 | 84   | 8432     | 4.997  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152  | 6142     | 4.813  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.380  | 85   | 6043     | 4.470  | ug/L   | 98       |
| 3) Chloromethane              | 1.519  | 50   | 6160     | 6.199  | ug/L   | 95       |
| 5) Vinyl chloride             | 1.602  | 62   | 7017     | 6.613  | ug/L   | 96       |
| 6) Bromomethane               | 1.850  | 94   | 2636     | 3.577  | ug/L   | 98       |
| 8) Chloroethane               | 1.927  | 64   | 3059     | 4.776  | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 2.133  | 101  | 8190     | 4.174  | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101  | 5570     | 5.558  | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.570  | 96   | 5783     | 6.410  | ug/L   | 88       |
| 13) Acetone                   | 2.618  | 43   | 4719     | 11.896 | ug/L   | 90       |
| 14) Carbon disulfide          | 2.785  | 76   | 19099    | 7.059  | ug/L   | 99       |
| 15) Methyl Acetate            | 2.946  | 43   | 5478     | 7.065  | ug/L   | 94       |
| 16) Methylene chloride        | 3.033  | 84   | 6757     | 6.713  | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 3.345  | 96   | 6004     | 6.398  | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 3.351  | 73   | 17539    | 5.444  | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.856  | 63   | 10647    | 6.228  | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.657  | 96   | 6411     | 6.100  | ug/L   | 96       |
| 22) 2-Butanone                | 4.711  | 43   | 5234     | 9.749  | ug/L   | 77       |
| 23) Bromochloromethane        | 4.965  | 128  | 3283     | 5.578  | ug/L   | 92       |
| 25) Chloroform                | 5.075  | 83   | 10634    | 5.280  | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 5.789  | 62   | 7477     | 4.471  | ug/L   | 100      |
| 29) Cyclohexane               | 5.377  | 56   | 8840     | 6.302  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.303  | 97   | 8698     | 4.567  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 7473     | 4.267  | ug/L   | 99       |
| 33) Benzene                   | 5.766  | 78   | 21704    | 5.431  | ug/L   | 100      |
| 34) Trichloroethene           | 6.535  | 95   | 6506     | 5.376  | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.750  | 83   | 9743     | 6.061  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 6660     | 6.785  | ug/L # | 96       |
| 38) Bromodichloromethane      | 7.097  | 83   | 7396     | 4.765  | ug/L # | 98       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 8845     | 5.156  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 13706    | 12.591 | ug/L   | 95       |
| 42) Toluene                   | 7.962  | 91   | 23071    | 5.418  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.207  | 75   | 8046     | 4.769  | ug/L   | 96       |

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 Data File : VU063096.D  
 Acq On : 30 Jan 2025 13:29  
 Operator : MD/SY  
 Sample : VSTD005  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

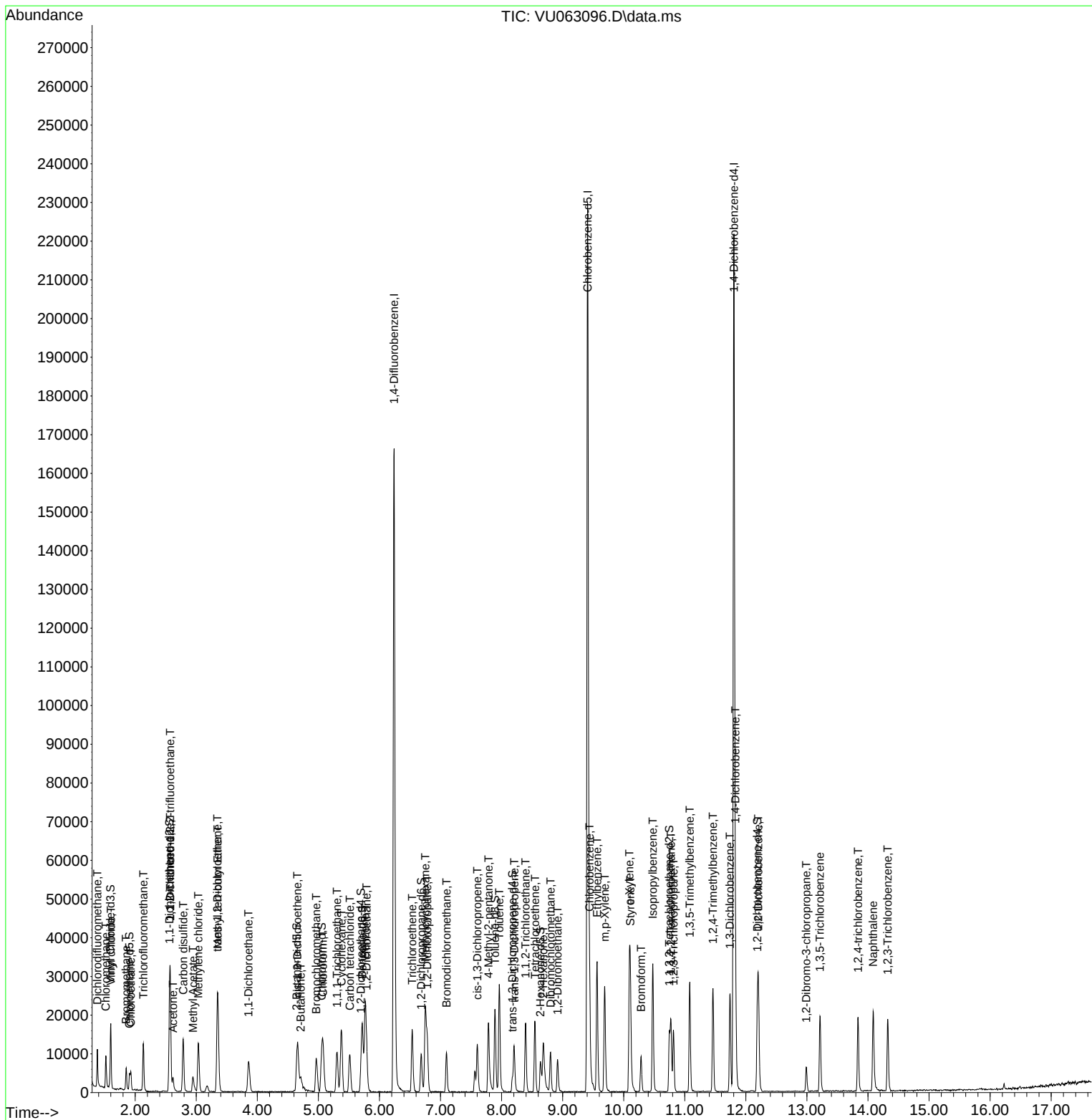
Instrument :  
 MSVOA\_U  
 ClientSampleId :

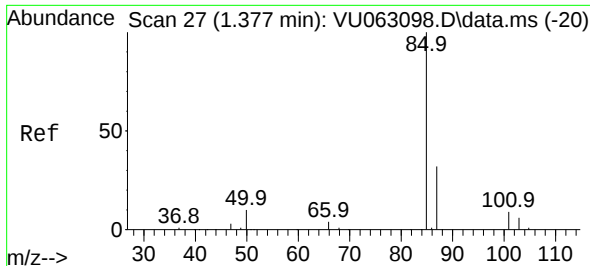
Quant Time: Jan 31 07:29:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM013025WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 31 07:29:09 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 6127     | 5.869  | ug/L   | 94       |
| 46) Tetrachloroethene         | 8.547  | 164  | 4290     | 4.903  | ug/L   | 93       |
| 48) 2-Hexanone                | 8.682  | 43   | 9805     | 11.862 | ug/L   | 94       |
| 49) Dibromochloromethane      | 8.801  | 129  | 5973     | 4.882  | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 8.914  | 107  | 6461     | 5.508  | ug/L   | 92       |
| 51) Chlorobenzene             | 9.441  | 112  | 15429    | 5.593  | ug/L   | 100      |
| 52) Ethylbenzene              | 9.563  | 91   | 26574    | 5.516  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.689  | 106  | 9222     | 5.150  | ug/L   | 100      |
| 54) o-Xylene                  | 10.094 | 106  | 8619     | 4.944  | ug/L   | 93       |
| 55) Styrene                   | 10.110 | 104  | 14041    | 4.727  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.772 | 83   | 9905     | 5.983  | ug/L   | 90       |
| 59) Bromoform                 | 10.284 | 173  | 4597     | 5.184  | ug/L # | 96       |
| 60) 1,2,3-Trichloropropane    | 10.814 | 75   | 7653     | 6.199  | ug/L   | 98       |
| 61) Isopropylbenzene          | 10.477 | 105  | 23411    | 5.421  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 17324    | 4.678  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 16918    | 4.661  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 11452    | 5.600  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.827 | 146  | 12532    | 6.085  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.203 | 146  | 11497    | 5.762  | ug/L   | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.988 | 75   | 1972     | 5.394  | ug/L   | 93       |
| 69) 1,3,5-Trichlorobenzene    | 13.213 | 180  | 7407     | 5.397  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 6934     | 6.523  | ug/L   | 97       |
| 71) Naphthalene               | 14.084 | 128  | 20959    | 7.312  | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 6744     | 6.689  | ug/L   | 94       |
| -----                         |        |      |          |        |        |          |

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

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Response via : Initial Calibration

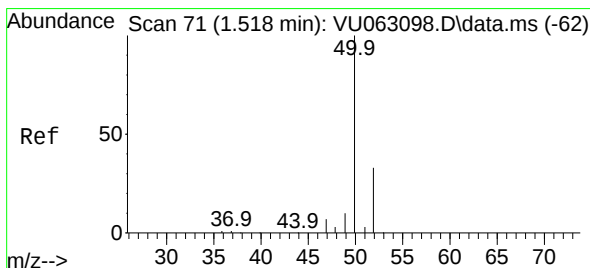
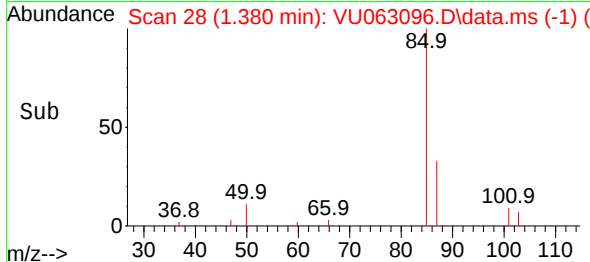
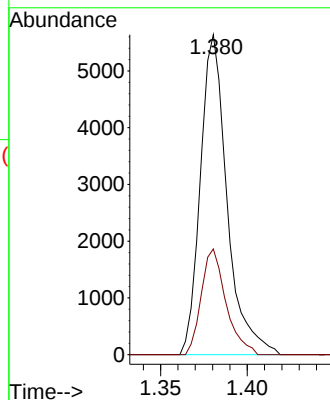
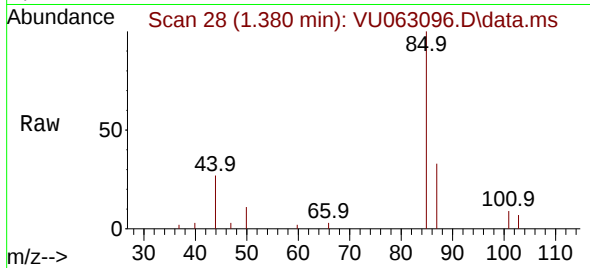




#2  
Dichlorodifluoromethane  
Concen: 4.470 ug/L  
RT: 1.380 min Scan# 27  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

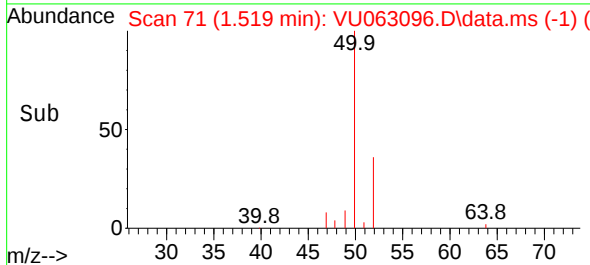
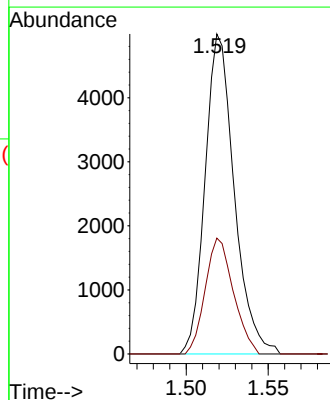
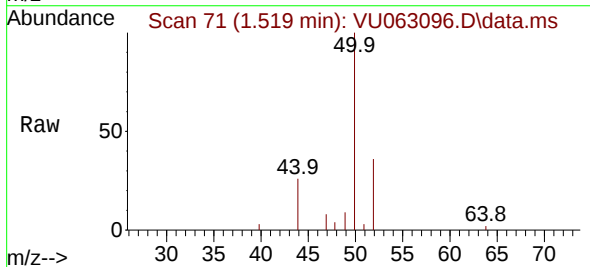
Instrument :  
MSVOA\_U  
ClientSampleId :

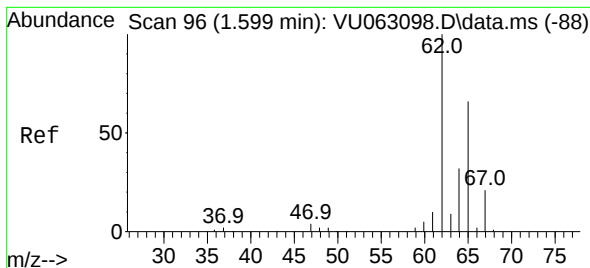
Tgt Ion: 85 Resp: 6043  
Ion Ratio Lower Upper  
85 100  
87 30.6 25.2 37.8



#3  
Chloromethane  
Concen: 6.199 ug/L  
RT: 1.519 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 50 Resp: 6160  
Ion Ratio Lower Upper  
50 100  
52 36.2 23.4 43.4





#5

Vinyl chloride

Concen: 6.613 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

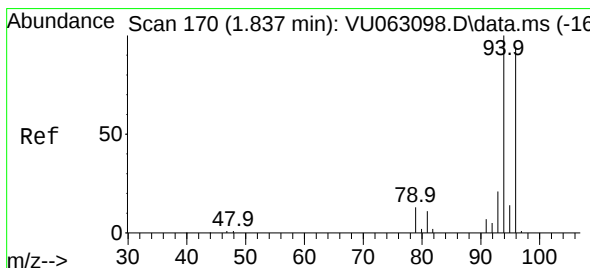
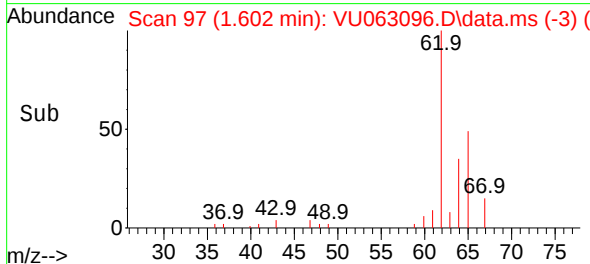
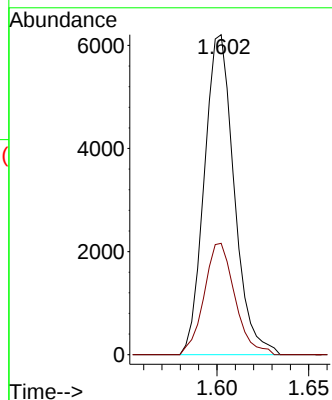
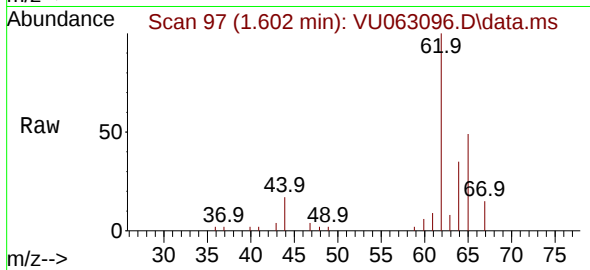
ClientSampleId :

Tgt Ion: 62 Resp: 7017

Ion Ratio Lower Upper

62 100

64 34.8 22.9 42.5



#6

Bromomethane

Concen: 3.577 ug/L

RT: 1.850 min Scan# 174

Delta R.T. 0.013 min

Lab File: VU063096.D

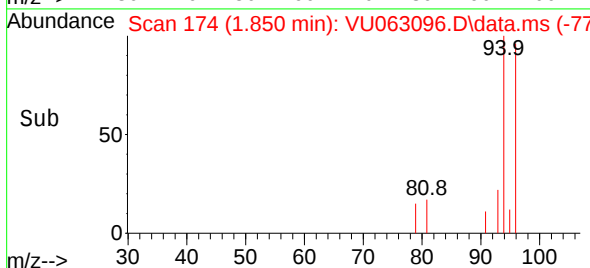
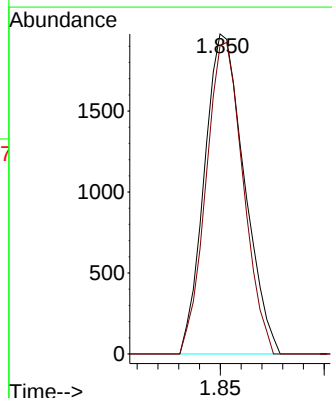
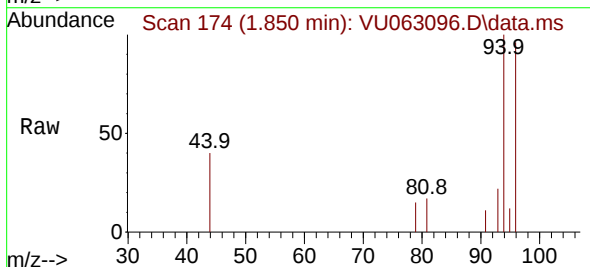
Acq: 30 Jan 2025 13:29

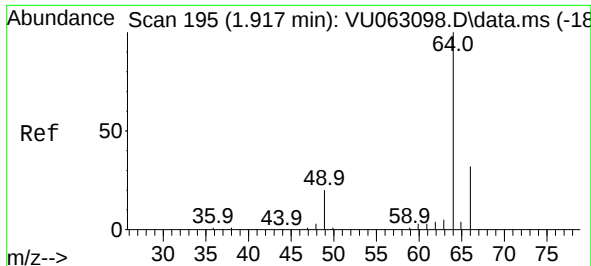
Tgt Ion: 94 Resp: 2636

Ion Ratio Lower Upper

94 100

96 96.4 66.1 122.8

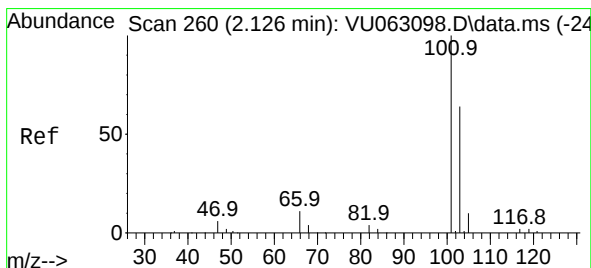
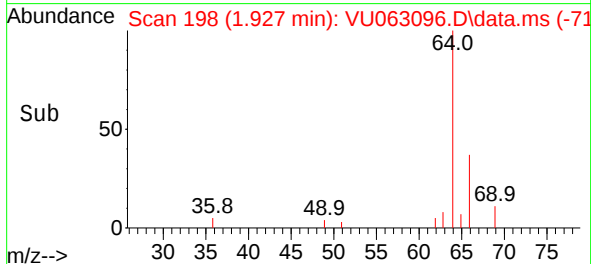
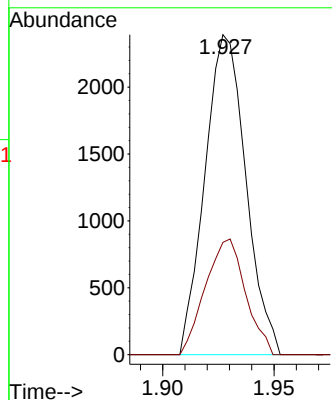
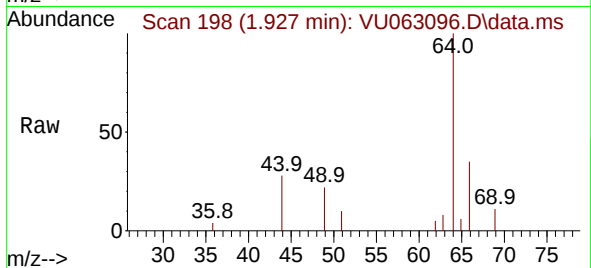




#8  
Chloroethane  
Concen: 4.776 ug/L  
RT: 1.927 min Scan# 195  
Delta R.T. 0.010 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

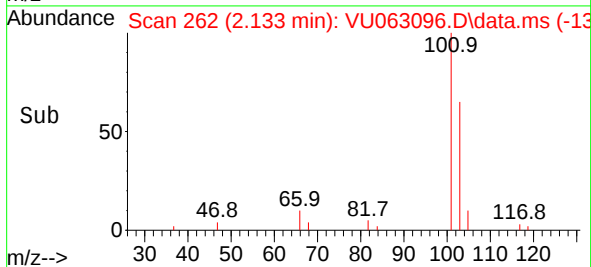
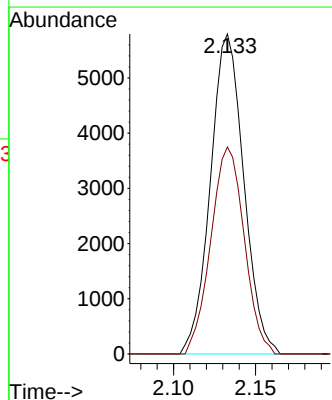
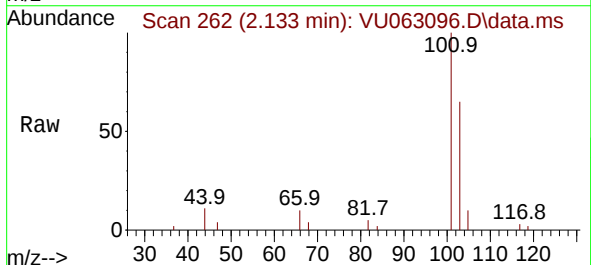
Instrument :  
MSVOA\_U  
ClientSampleId :

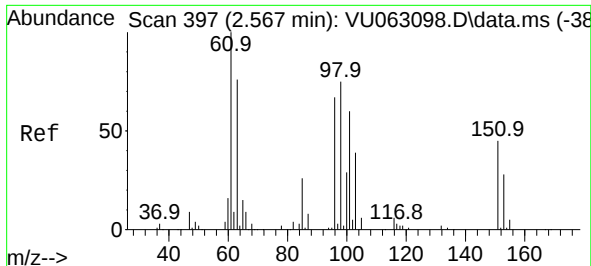
Tgt Ion: 64 Resp: 3059  
Ion Ratio Lower Upper  
64 100  
66 35.1 22.7 42.1



#9  
Trichlorofluoromethane  
Concen: 4.174 ug/L  
RT: 2.133 min Scan# 262  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion:101 Resp: 8190  
Ion Ratio Lower Upper  
101 100  
103 64.7 51.4 77.2

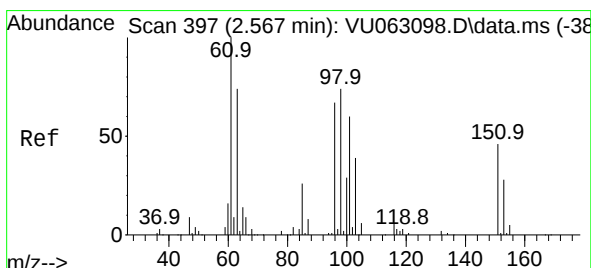
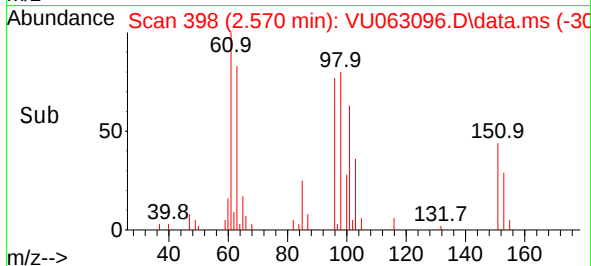
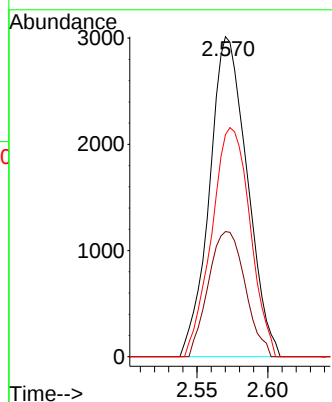
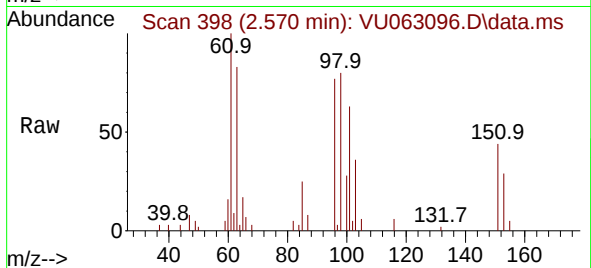




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.558 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

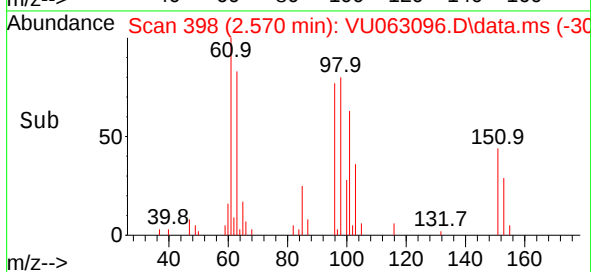
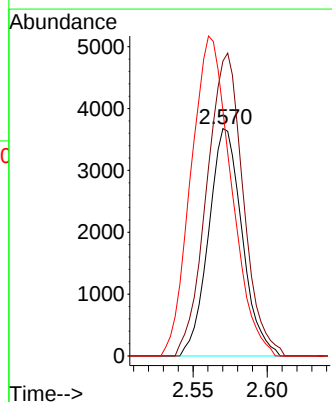
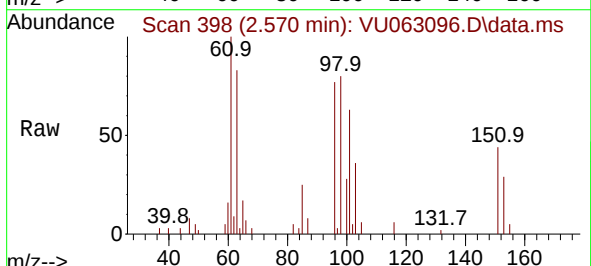
Instrument :  
MSVOA\_U  
ClientSampleId :

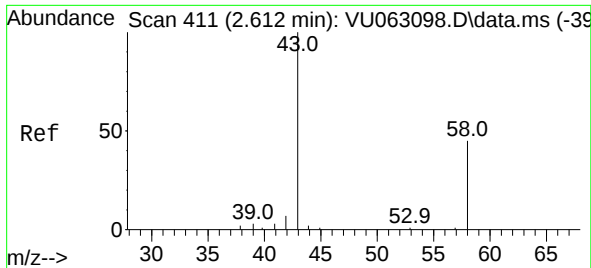
Tgt Ion:101 Resp: 5570  
Ion Ratio Lower Upper  
101 100  
85 38.3 33.2 49.8  
151 73.2 60.4 90.6



#12  
1,1-Dichloroethene  
Concen: 6.410 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 96 Resp: 5783  
Ion Ratio Lower Upper  
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61 129.7 104.2 193.4  
63 108.1 81.5 151.5

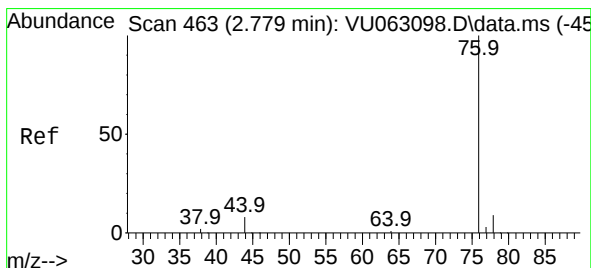
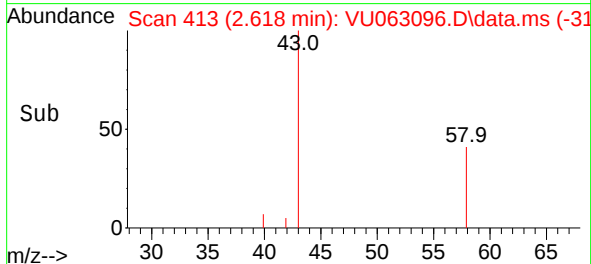
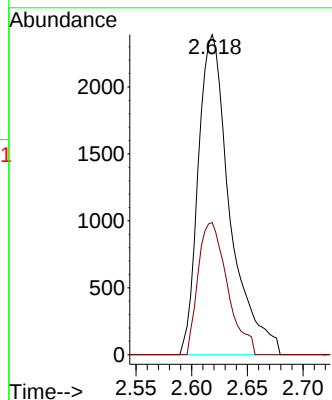
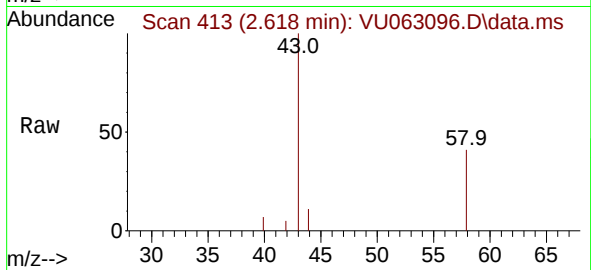




#13  
Acetone  
Concen: 11.896 ug/L  
RT: 2.618 min Scan# 411  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

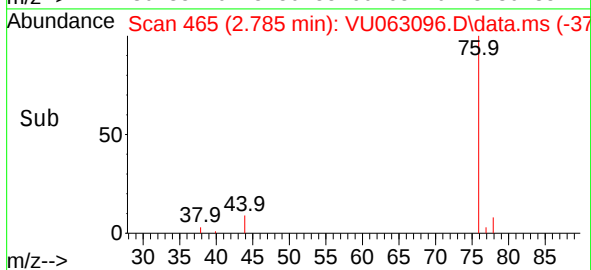
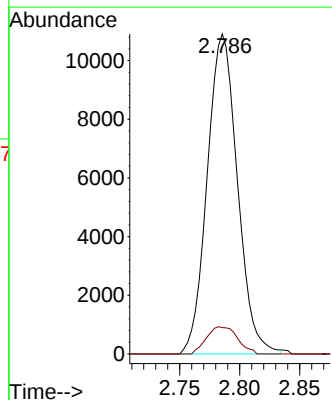
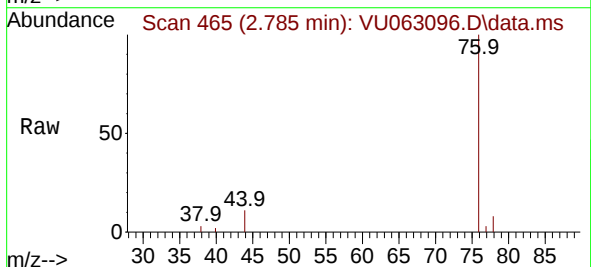
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MSVOA\_U  
ClientSampleId :

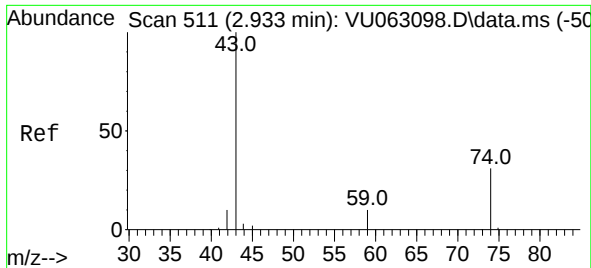
Tgt Ion: 43 Resp: 4719  
Ion Ratio Lower Upper  
43 100  
58 38.2 0.0 88.8



#14  
Carbon disulfide  
Concen: 7.059 ug/L  
RT: 2.785 min Scan# 465  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 76 Resp: 19099  
Ion Ratio Lower Upper  
76 100  
78 8.3 6.8 10.2





#15

Methyl Acetate

Concen: 7.065 ug/L

RT: 2.946 min Scan# 511

Delta R.T. 0.013 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

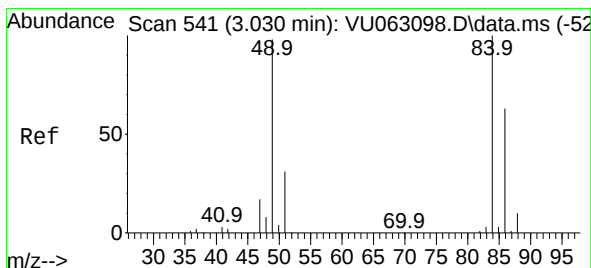
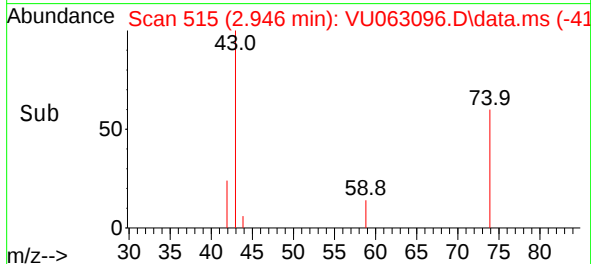
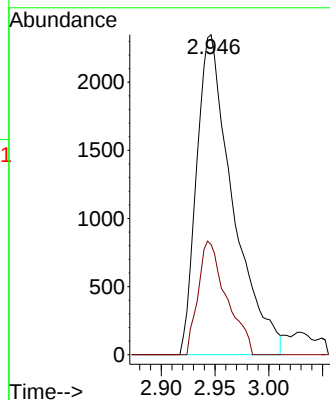
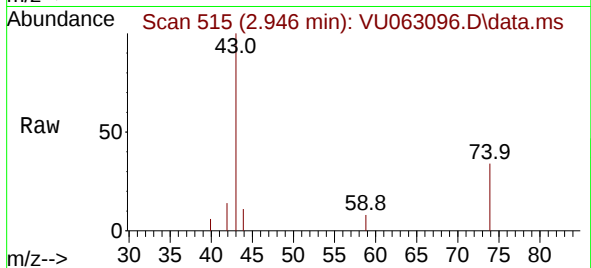
ClientSampleId :

Tgt Ion: 43 Resp: 5478

Ion Ratio Lower Upper

43 100

74 27.8 25.0 37.6



#16

Methylene chloride

Concen: 6.713 ug/L

RT: 3.033 min Scan# 542

Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

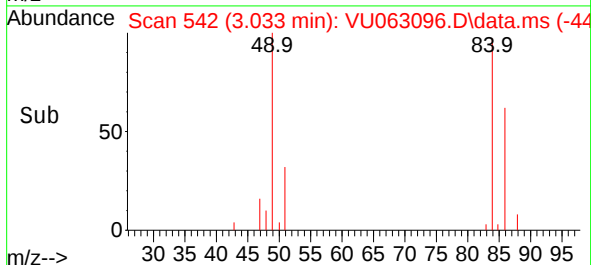
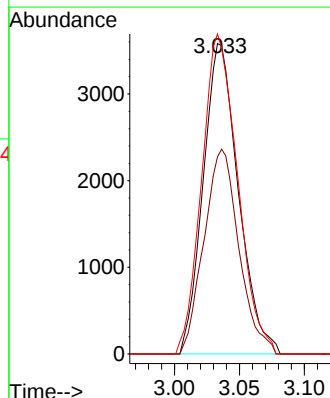
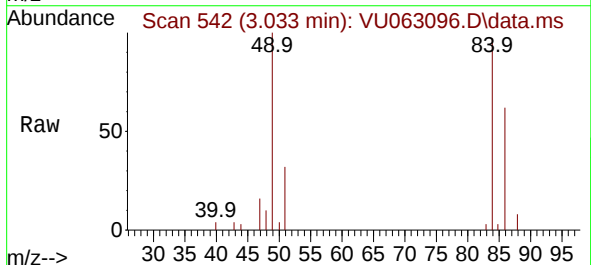
Tgt Ion: 84 Resp: 6757

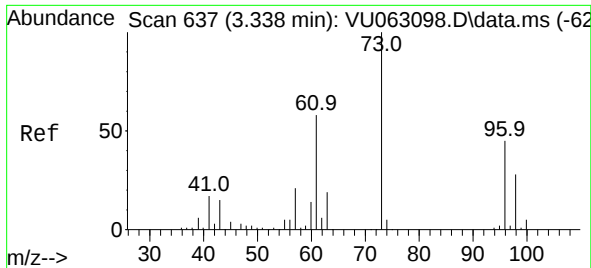
Ion Ratio Lower Upper

84 100

86 63.5 44.2 82.0

49 103.1 68.4 127.0

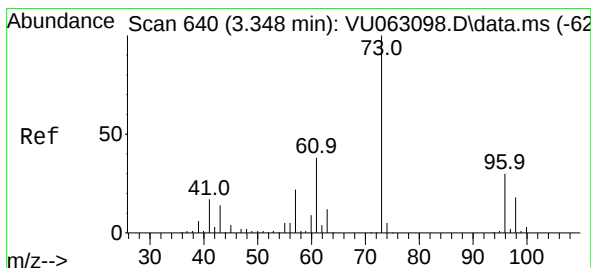
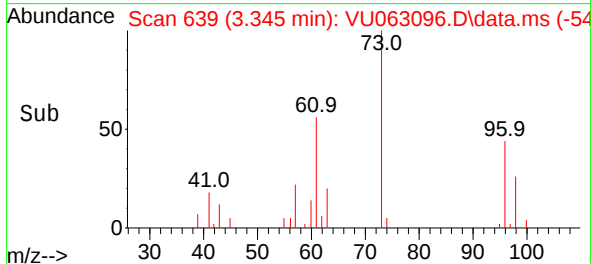
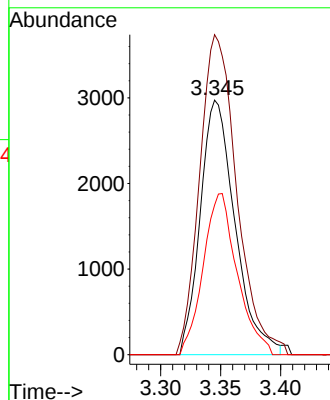
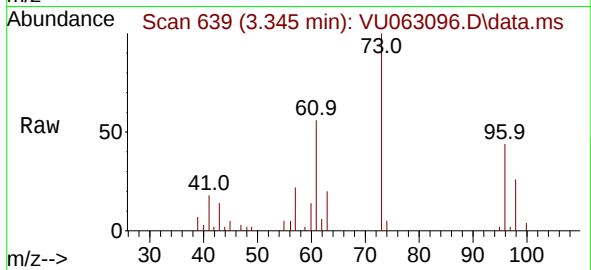




#17  
trans-1,2-Dichloroethene  
Concen: 6.398 ug/L  
RT: 3.345 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

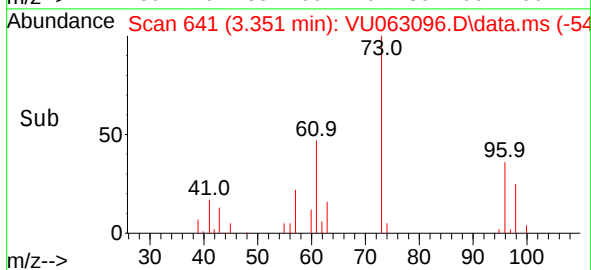
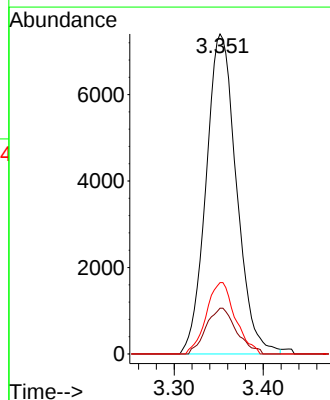
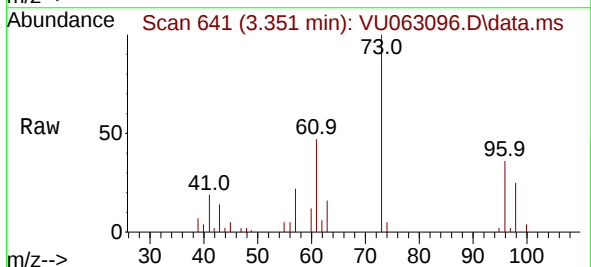
Instrument :  
MSVOA\_U  
ClientSampleId :

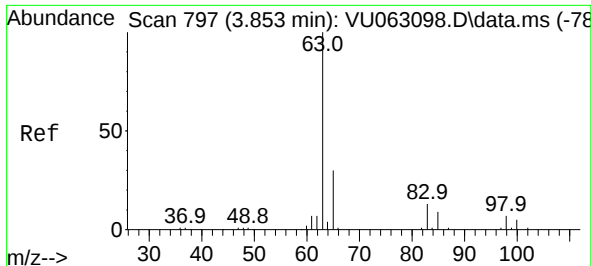
Tgt Ion: 96 Resp: 6004  
Ion Ratio Lower Upper  
96 100  
61 125.7 91.1 169.3  
98 58.8 44.0 81.8



#18  
Methyl tert-butyl Ether  
Concen: 5.444 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 73 Resp: 17539  
Ion Ratio Lower Upper  
73 100  
43 14.2 11.4 17.2  
57 21.2 17.2 25.8

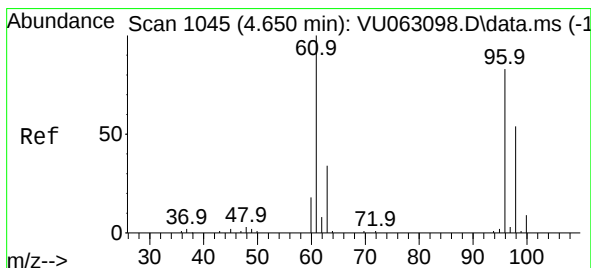
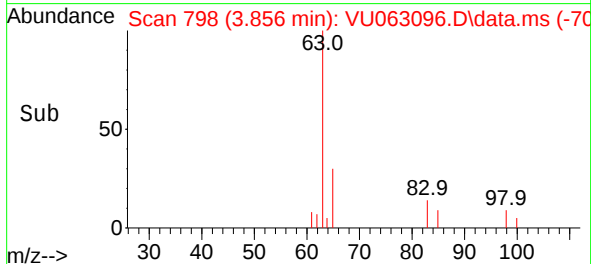
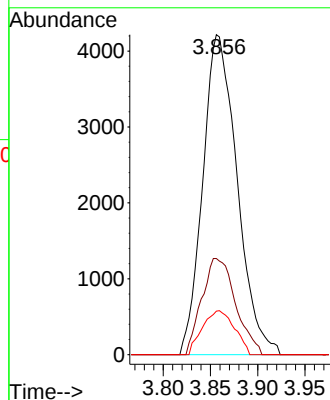
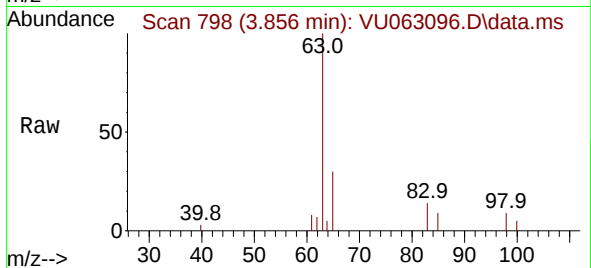




#19  
1,1-Dichloroethane  
Concen: 6.228 ug/L  
RT: 3.856 min Scan# 797  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

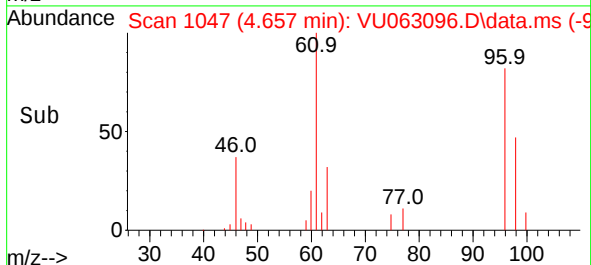
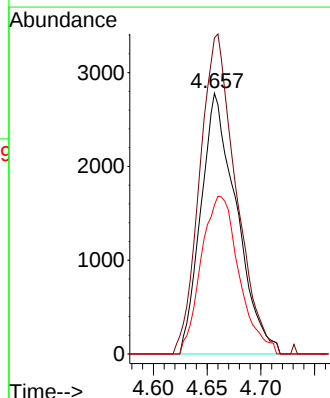
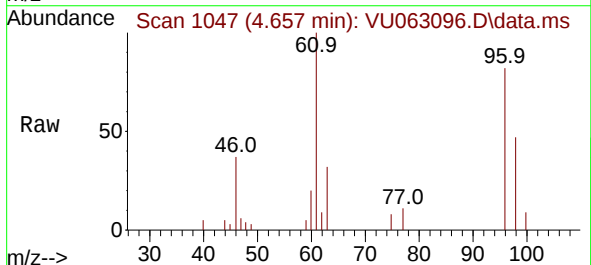
Instrument :  
MSVOA\_U  
ClientSampleId :

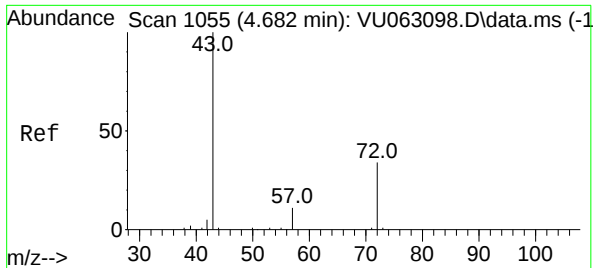
Tgt Ion: 63 Resp: 10647  
Ion Ratio Lower Upper  
63 100  
65 28.6 20.9 38.9  
83 12.9 9.3 17.3



#20  
cis-1,2-Dichloroethene  
Concen: 6.100 ug/L  
RT: 4.657 min Scan# 1047  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 96 Resp: 6411  
Ion Ratio Lower Upper  
96 100  
61 121.3 84.4 156.8  
98 57.2 46.0 85.4

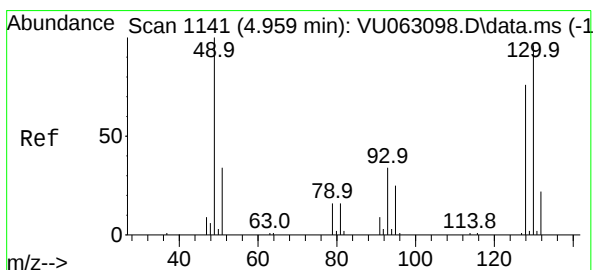
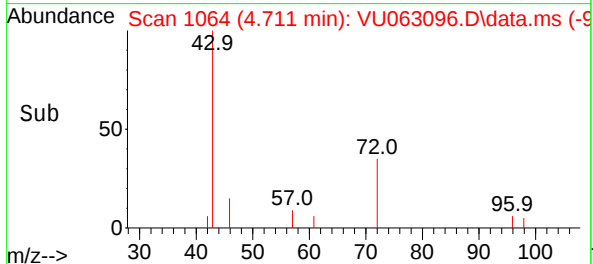
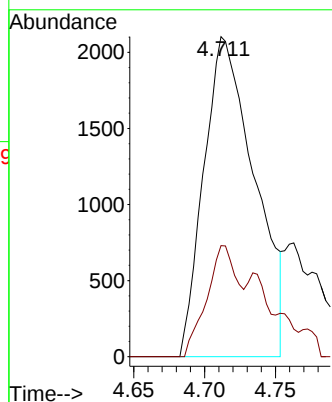
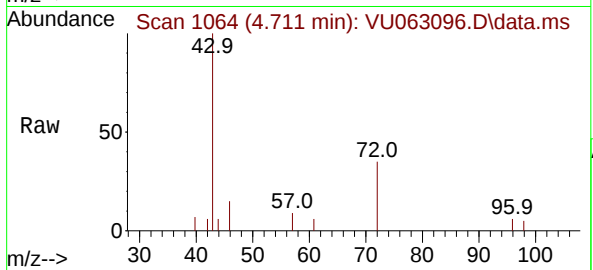




#22  
2-Butanone  
Concen: 9.749 ug/L  
RT: 4.711 min Scan# 1064  
Delta R.T. 0.029 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

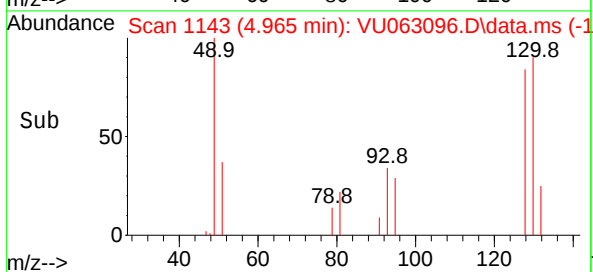
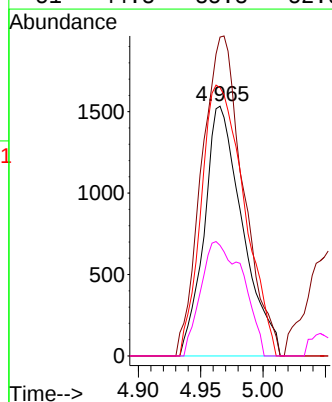
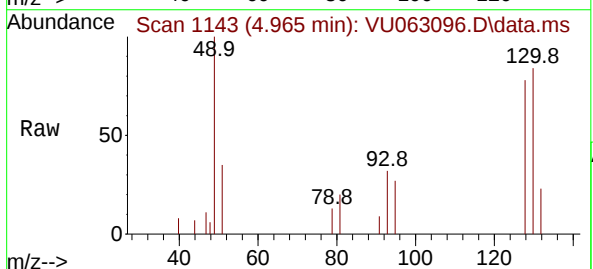
Instrument :  
MSVOA\_U  
ClientSampleId :

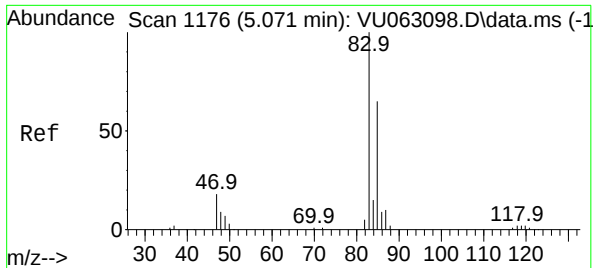
Tgt Ion: 43 Resp: 5234  
Ion Ratio Lower Upper  
43 100  
72 21.6 17.5 52.6



#23  
Bromochloromethane  
Concen: 5.578 ug/L  
RT: 4.965 min Scan# 1143  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion:128 Resp: 3283  
Ion Ratio Lower Upper  
128 100  
49 127.6 92.0 170.9  
130 107.4 88.3 164.1  
51 44.3 35.3 52.9





#25

Chloroform

Concen: 5.280 ug/L

RT: 5.075 min Scan# 1176

Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

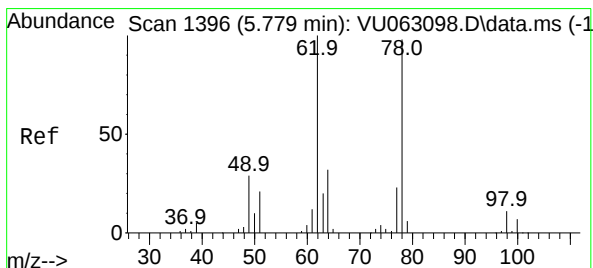
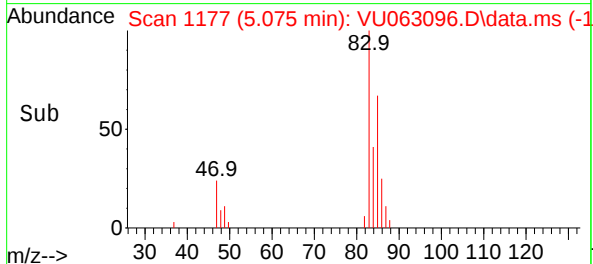
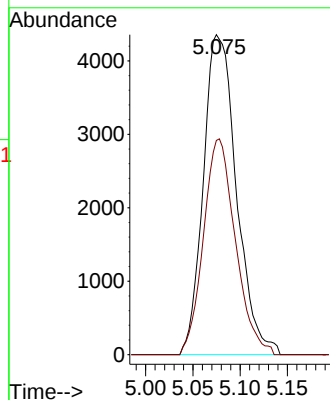
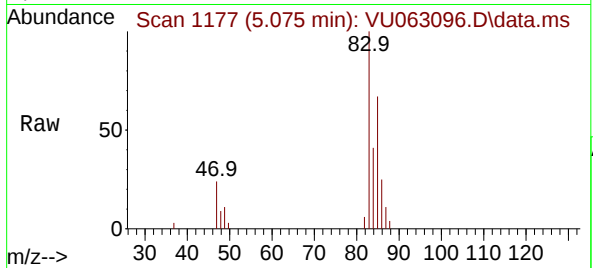
ClientSampleId :

Tgt Ion: 83 Resp: 10634

Ion Ratio Lower Upper

83 100

85 67.0 45.4 84.4



#27

1,2-Dichloroethane

Concen: 4.471 ug/L

RT: 5.789 min Scan# 1399

Delta R.T. 0.010 min

Lab File: VU063096.D

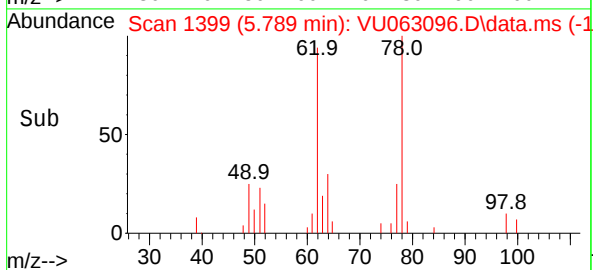
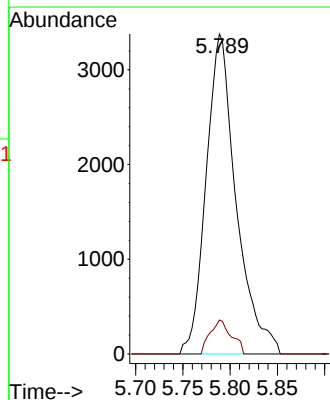
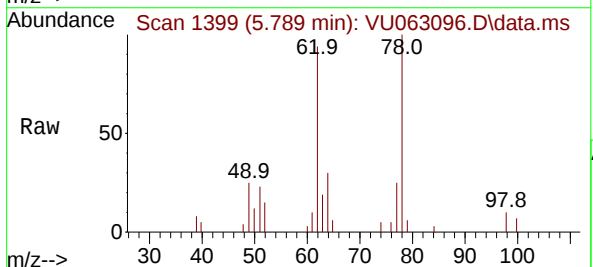
Acq: 30 Jan 2025 13:29

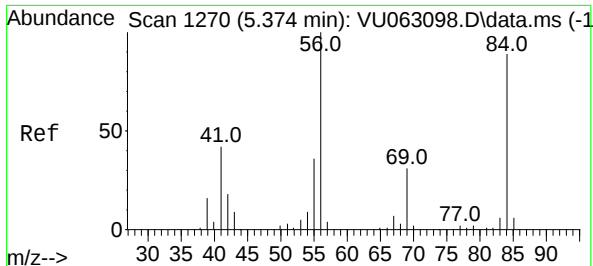
Tgt Ion: 62 Resp: 7477

Ion Ratio Lower Upper

62 100

98 10.6 8.5 12.7





#29

Cyclohexane

Concen: 6.302 ug/L

RT: 5.377 min Scan# 1270

Delta R.T. 0.003 min

Lab File: VU063096.D

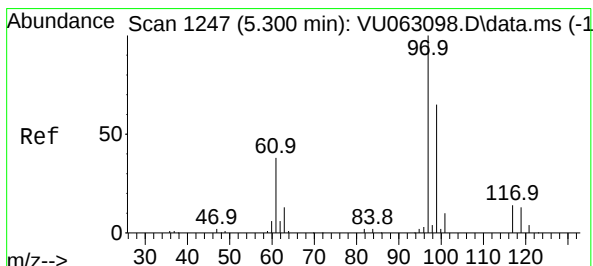
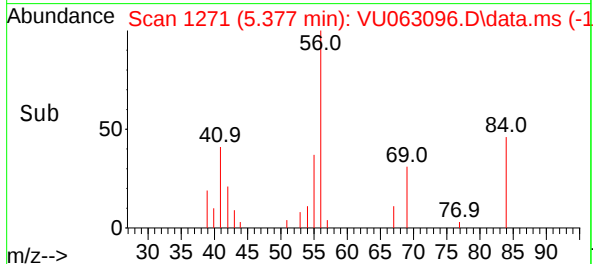
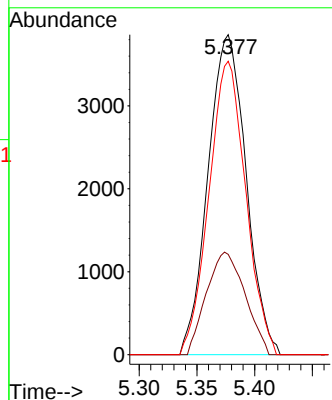
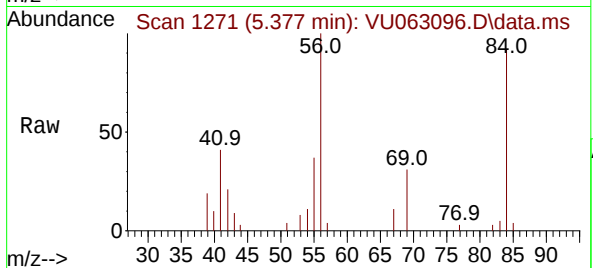
Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

ClientSampleId :

|             |                 |
|-------------|-----------------|
| Tgt Ion: 56 | Resp: 8840      |
| Ion Ratio   | Lower Upper     |
| 56          | 100             |
| 69          | 32.5 25.6 38.4  |
| 84          | 88.7 71.6 107.4 |



#30

1,1,1-Trichloroethane

Concen: 4.567 ug/L

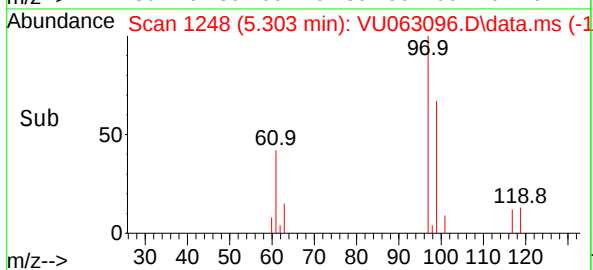
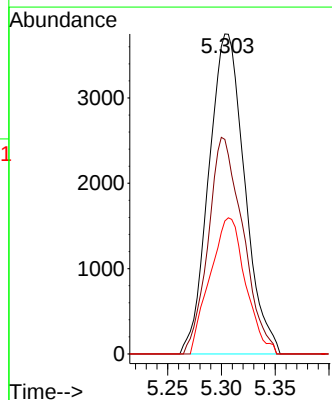
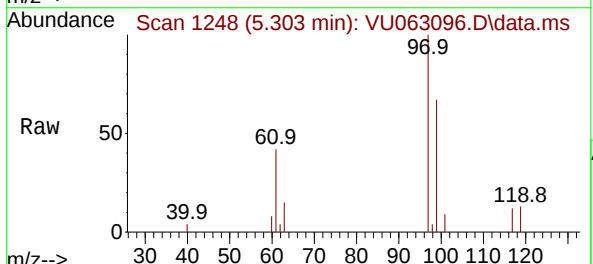
RT: 5.303 min Scan# 1248

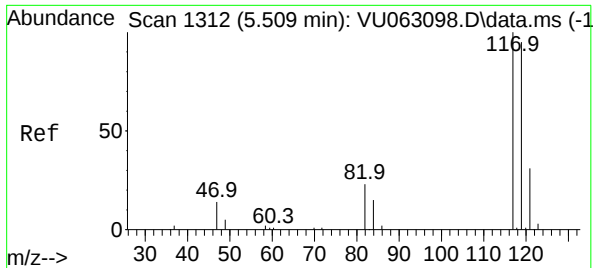
Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

|             |                |
|-------------|----------------|
| Tgt Ion: 97 | Resp: 8698     |
| Ion Ratio   | Lower Upper    |
| 97          | 100            |
| 99          | 65.6 52.2 78.4 |
| 61          | 41.7 31.5 47.3 |

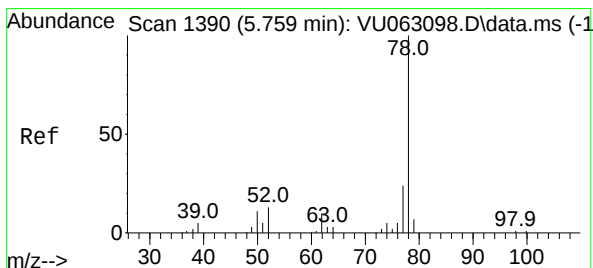
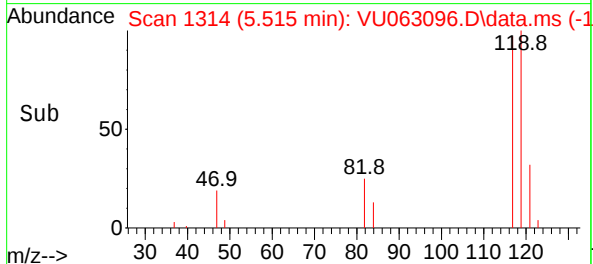
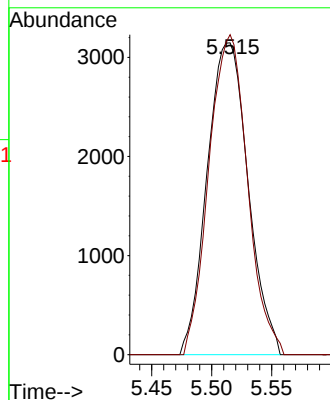
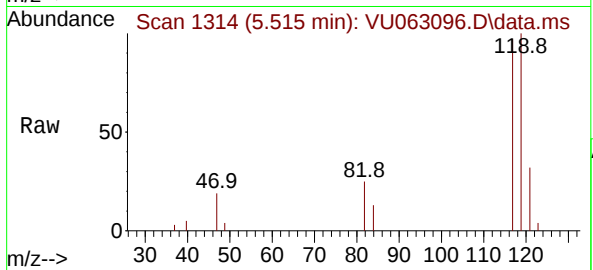




#31  
Carbon tetrachloride  
Concen: 4.267 ug/L  
RT: 5.515 min Scan# 117  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

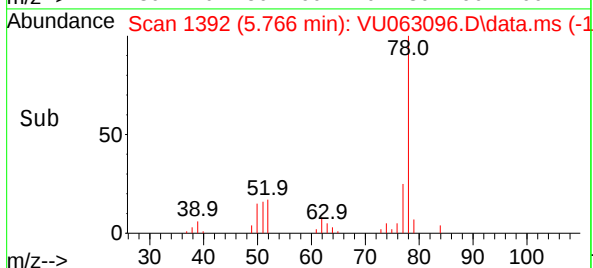
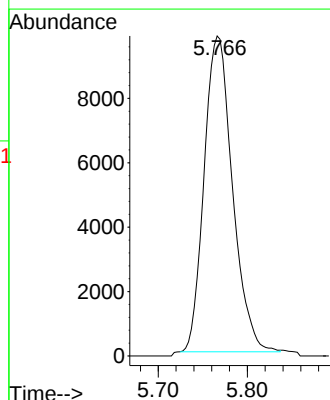
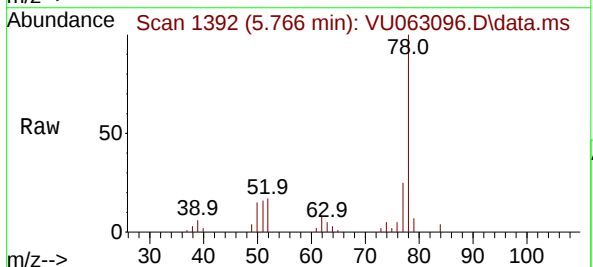
Instrument :  
MSVOA\_U  
ClientSampleId :

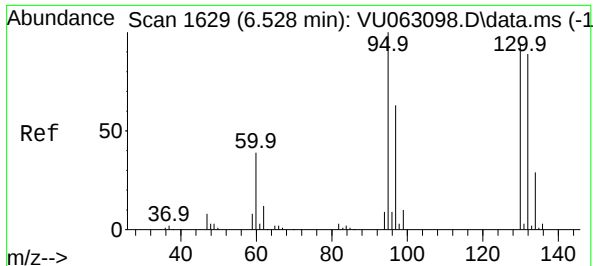
Tgt Ion:117 Resp: 7473  
Ion Ratio Lower Upper  
117 100  
119 96.6 77.7 116.5



#33  
Benzene  
Concen: 5.431 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 78 Resp: 21704



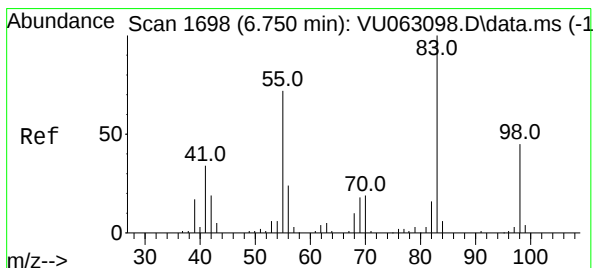
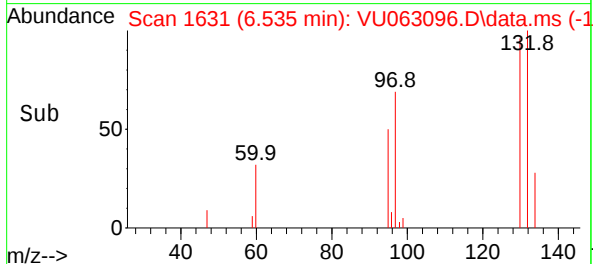
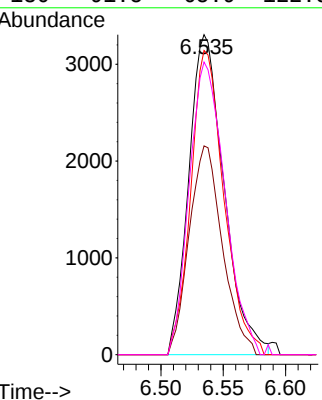
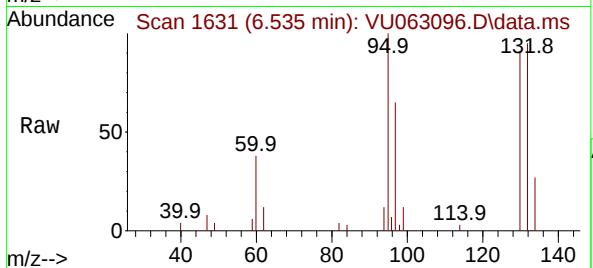


#34  
Trichloroethene  
Concen: 5.376 ug/L  
RT: 6.535 min Scan# 1631  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 95 Resp: 6506

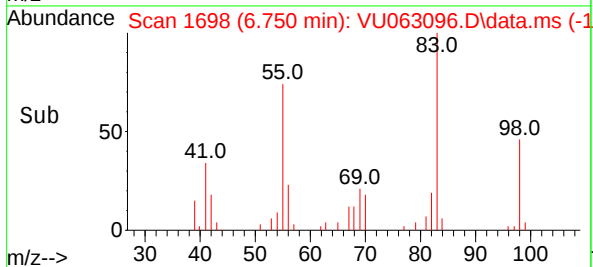
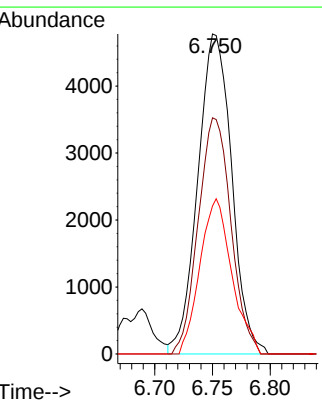
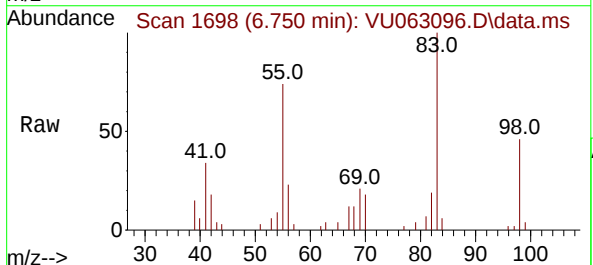
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.2  | 44.3  | 82.3  |
| 132 | 95.1  | 62.4  | 116.0 |
| 130 | 91.5  | 65.9  | 122.3 |

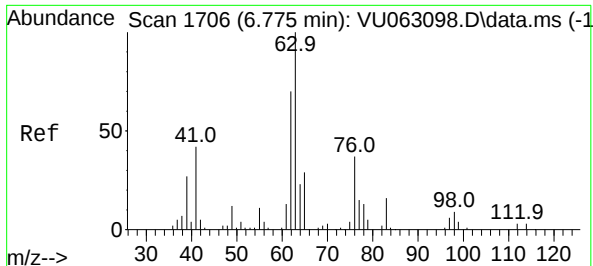


#35  
Methylcyclohexane  
Concen: 6.061 ug/L  
RT: 6.750 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 83 Resp: 9743

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 71.4  | 56.4  | 84.6  |
| 98  | 45.7  | 35.3  | 52.9  |

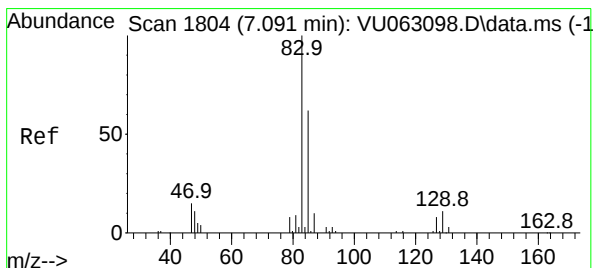
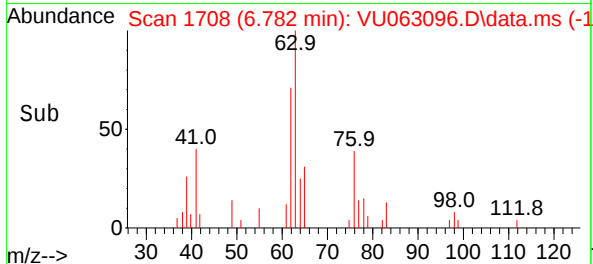
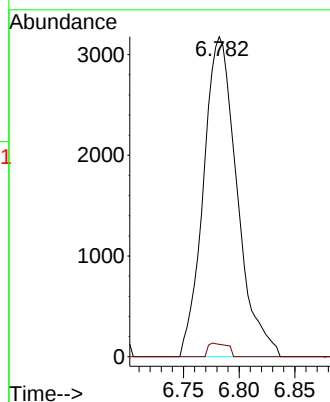
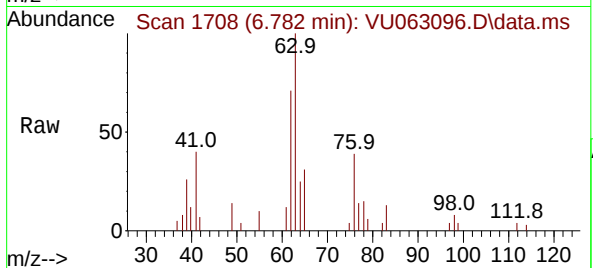




#37  
1,2-Dichloropropane  
Concen: 6.785 ug/L  
RT: 6.782 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

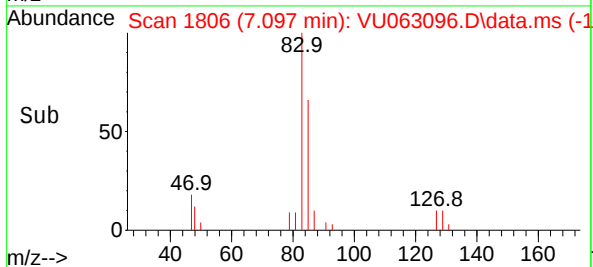
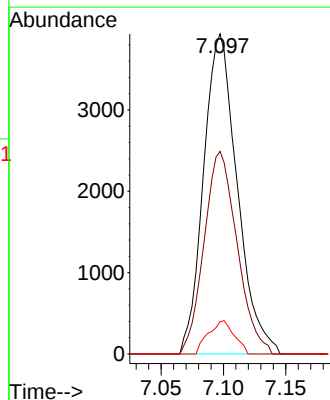
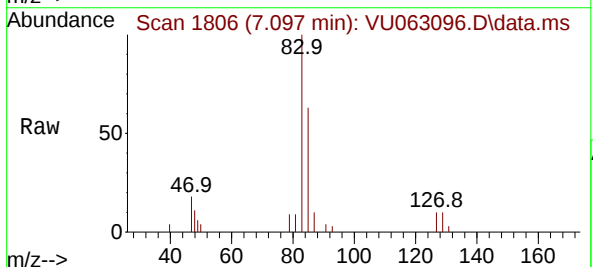
Instrument :  
MSVOA\_U  
ClientSampleId :

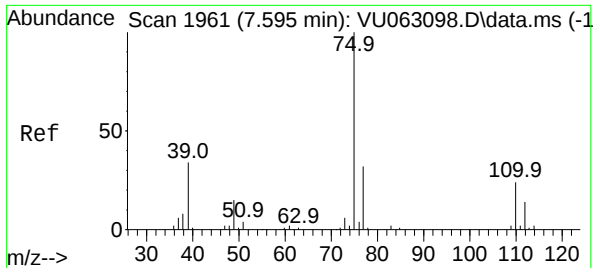
Tgt Ion: 63 Resp: 6660  
Ion Ratio Lower Upper  
63 100  
112 2.1 2.6 4.0#



#38  
Bromodichloromethane  
Concen: 4.765 ug/L  
RT: 7.097 min Scan# 1806  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 83 Resp: 7396  
Ion Ratio Lower Upper  
83 100  
85 63.3 43.5 80.9  
127 10.0 6.5 9.7#

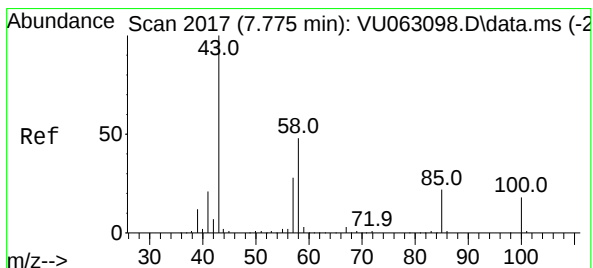
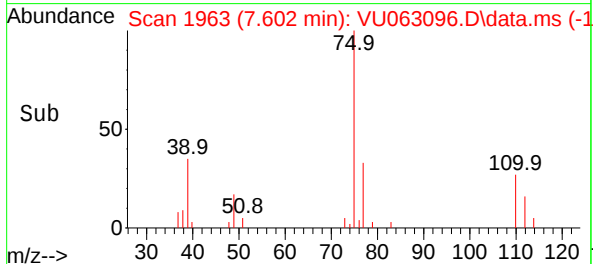
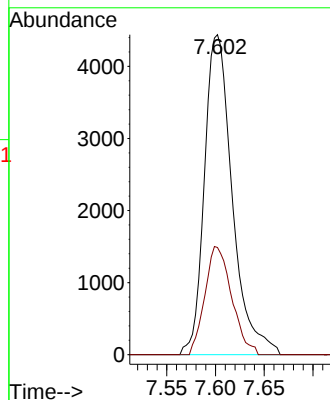
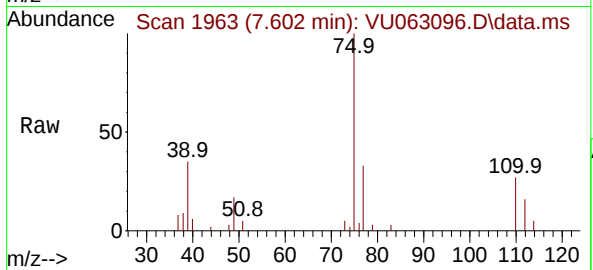




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.156 ug/L  
 RT: 7.602 min Scan# 1961  
 Delta R.T. 0.007 min  
 Lab File: VU063096.D  
 Acq: 30 Jan 2025 13:29

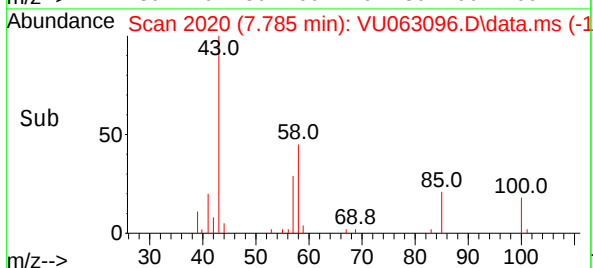
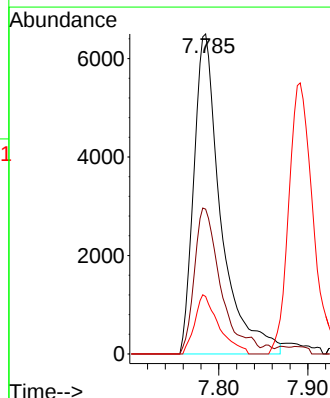
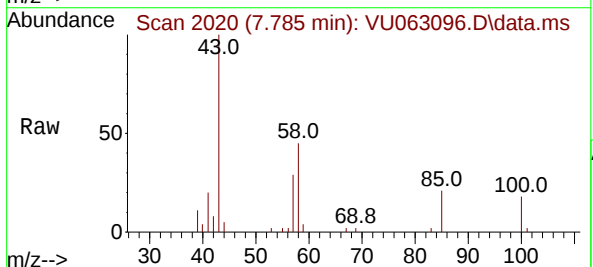
Instrument :  
 MSVOA\_U  
 ClientSampleId :

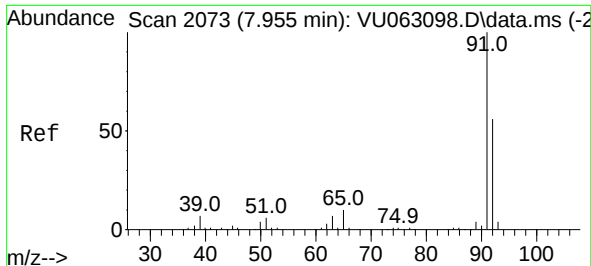
Tgt Ion: 75 Resp: 8845  
 Ion Ratio Lower Upper  
 75 100  
 77 33.5 22.5 41.9



#40  
 4-Methyl-2-pentanone  
 Concen: 12.591 ug/L  
 RT: 7.785 min Scan# 2020  
 Delta R.T. 0.010 min  
 Lab File: VU063096.D  
 Acq: 30 Jan 2025 13:29

Tgt Ion: 43 Resp: 13706  
 Ion Ratio Lower Upper  
 43 100  
 58 43.0 37.5 56.3  
 100 16.4 14.3 21.5





#42

Toluene

Concen: 5.418 ug/L

RT: 7.962 min Scan# 2071

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

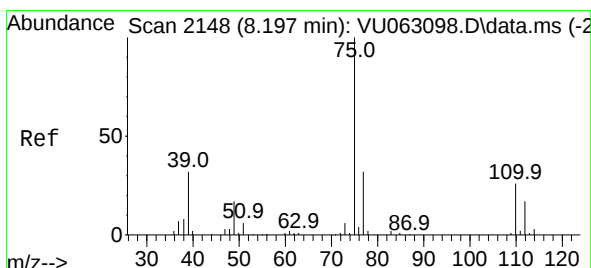
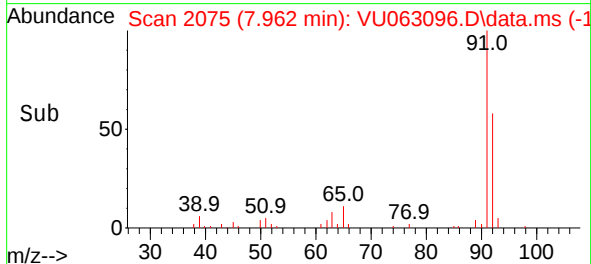
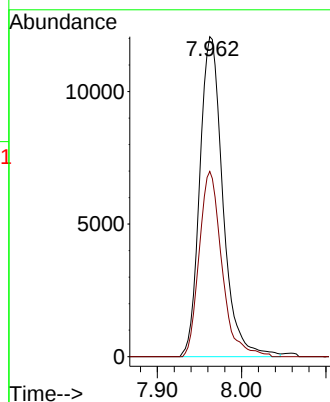
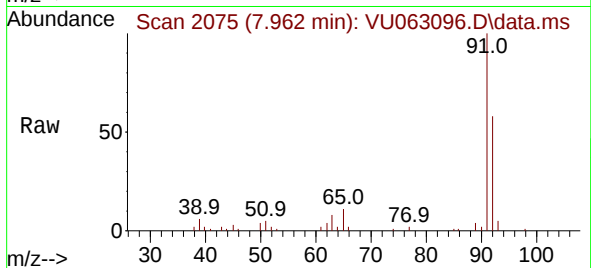
ClientSampleId :

Tgt Ion: 91 Resp: 23071

Ion Ratio Lower Upper

91 100

92 57.9 39.3 73.1



#44

trans-1,3-Dichloropropene

Concen: 4.769 ug/L

RT: 8.207 min Scan# 2151

Delta R.T. 0.010 min

Lab File: VU063096.D

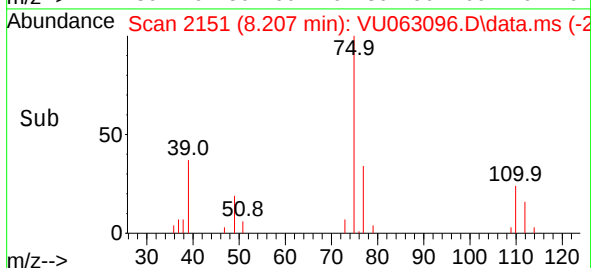
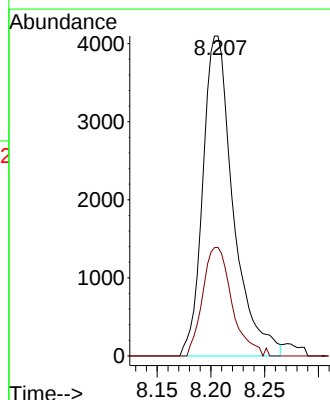
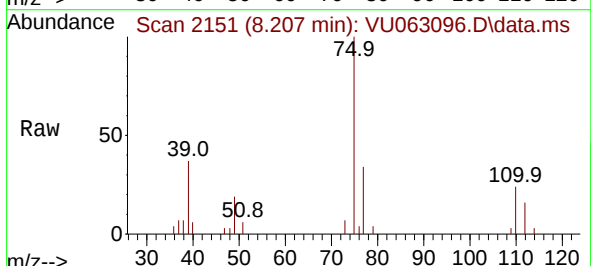
Acq: 30 Jan 2025 13:29

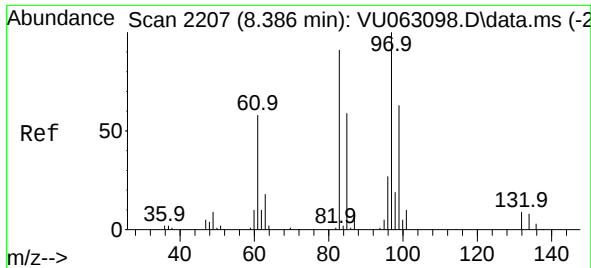
Tgt Ion: 75 Resp: 8046

Ion Ratio Lower Upper

75 100

77 33.9 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 5.869 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 97 Resp: 6127

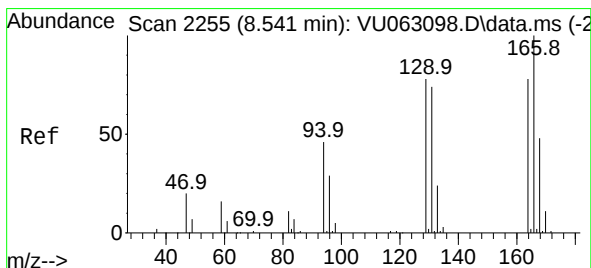
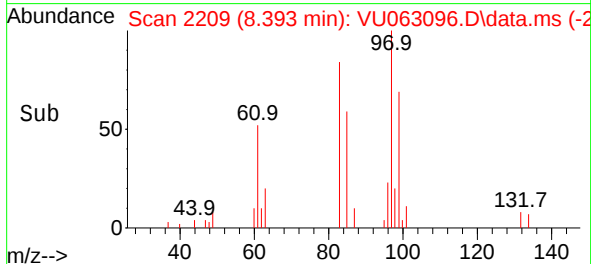
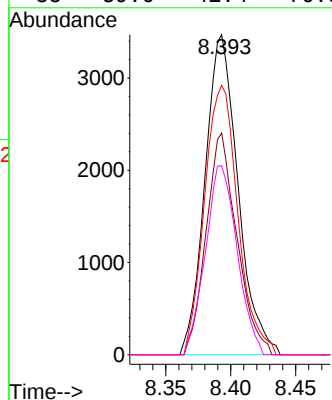
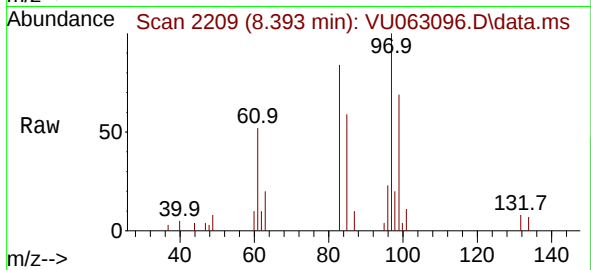
Ion Ratio Lower Upper

97 100

99 69.2 44.2 82.2

83 84.2 64.0 118.8

85 59.0 41.4 76.8



#46

Tetrachloroethene

Concen: 4.903 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Tgt Ion:164 Resp: 4290

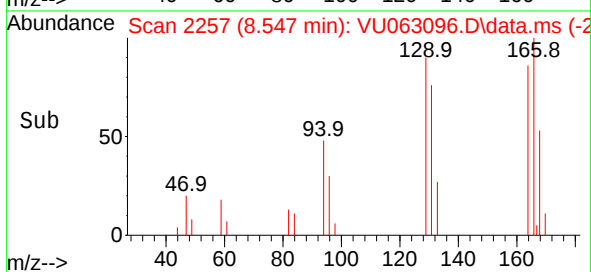
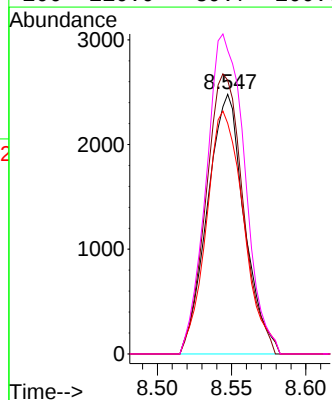
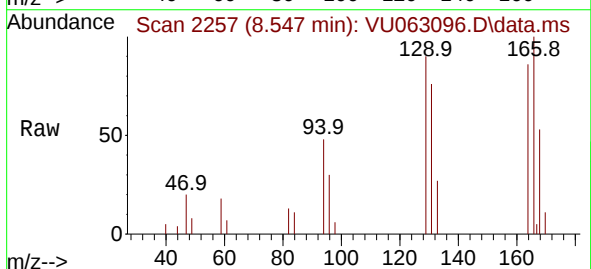
Ion Ratio Lower Upper

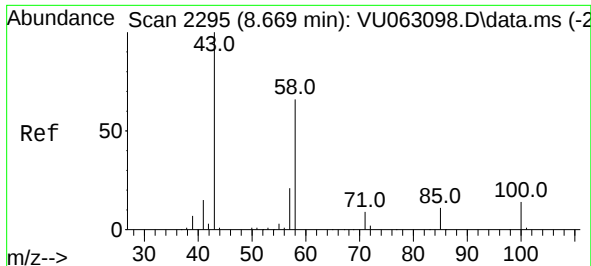
164 100

129 105.4 69.9 129.7

131 88.8 66.3 123.1

166 116.9 89.7 166.7

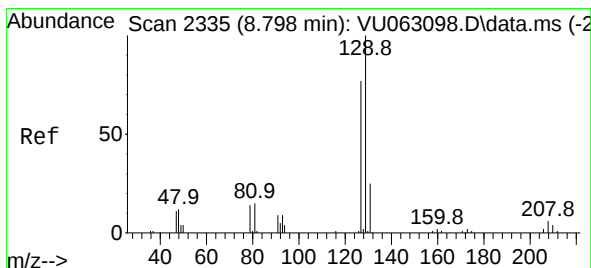
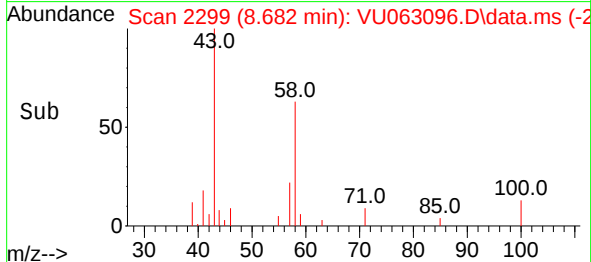
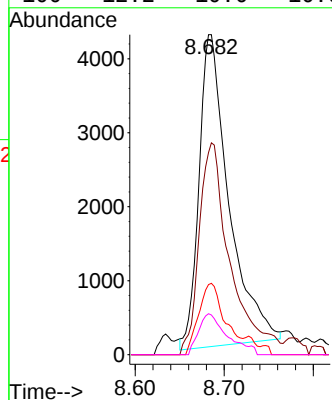
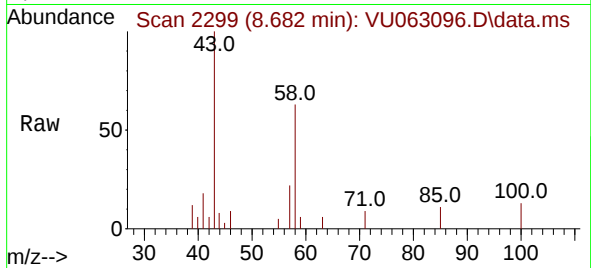




#48  
2-Hexanone  
Concen: 11.862 ug/L  
RT: 8.682 min Scan# 2295  
Delta R.T. 0.013 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

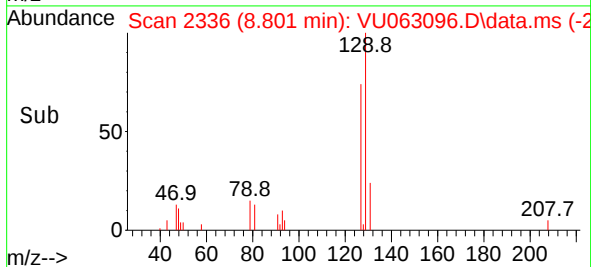
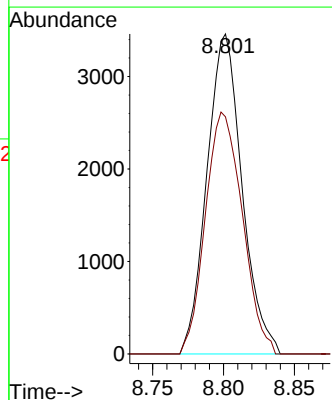
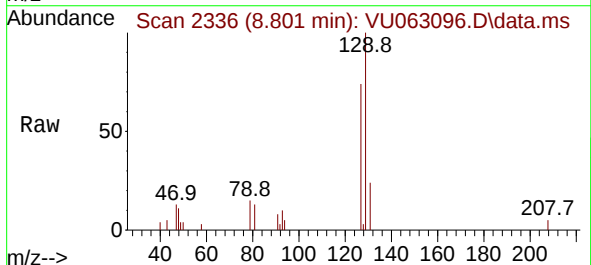
Instrument :  
MSVOA\_U  
ClientSampleId :

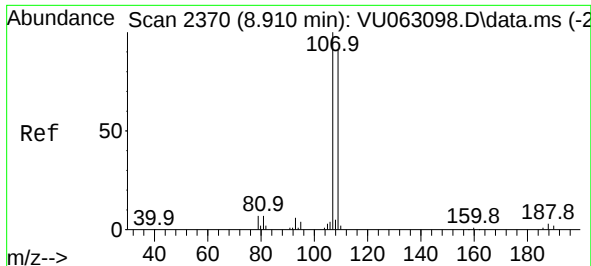
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 9805  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 70.9     | 52.6 78.8   |
| 57 20.3     | 17.9 26.9   |
| 100 12.2    | 10.6 16.0   |



#49  
Dibromochloromethane  
Concen: 4.882 ug/L  
RT: 8.801 min Scan# 2336  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

|              |             |
|--------------|-------------|
| Tgt Ion: 129 | Resp: 5973  |
| Ion Ratio    | Lower Upper |
| 129 100      |             |
| 127 74.1     | 54.1 100.5  |





#50

1,2-Dibromoethane

Concen: 5.508 ug/L

RT: 8.914 min Scan# 2371

Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

ClientSampleId :

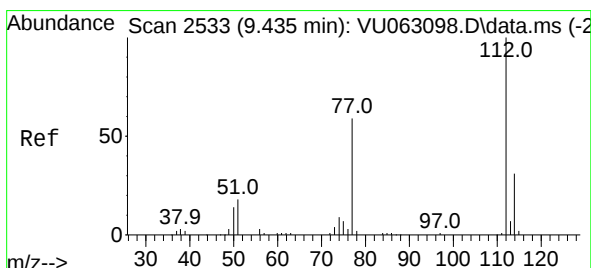
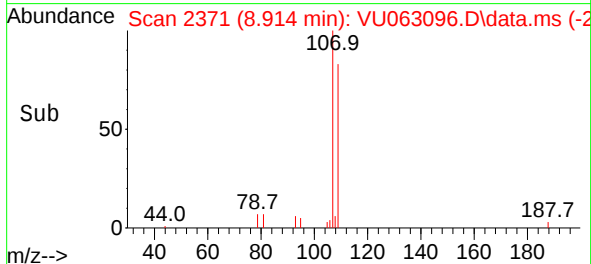
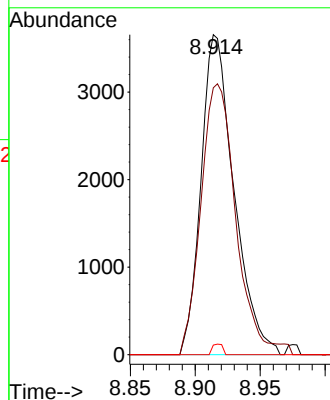
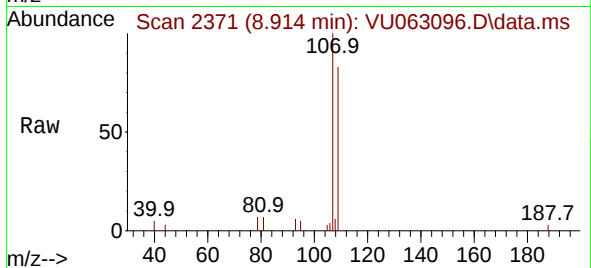
Tgt Ion:107 Resp: 6461

Ion Ratio Lower Upper

107 100

109 83.4 63.7 118.3

188 3.0 2.7 4.1



#51

Chlorobenzene

Concen: 5.593 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

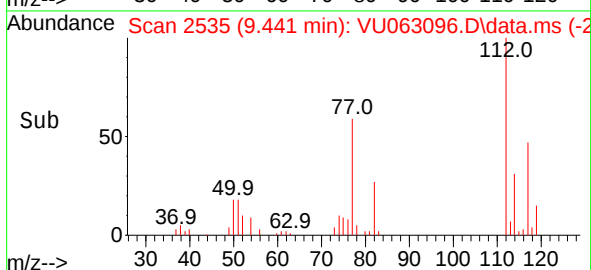
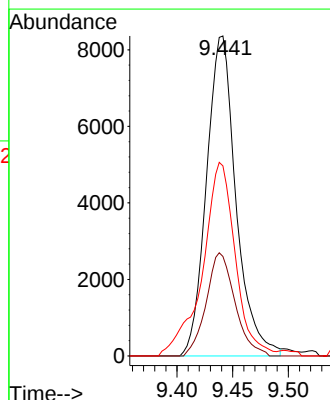
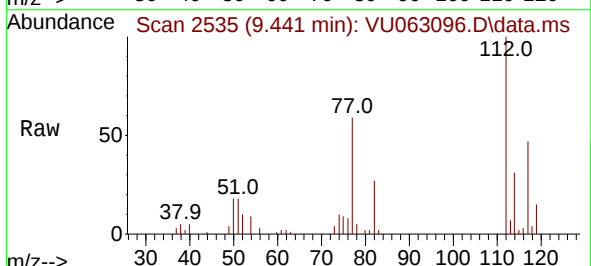
Tgt Ion:112 Resp: 15429

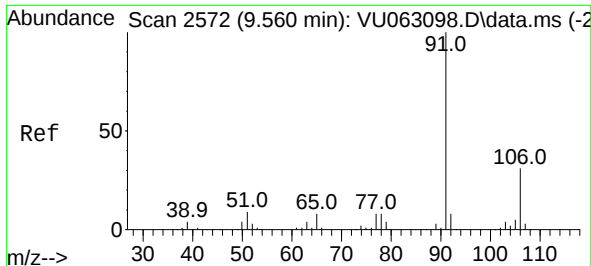
Ion Ratio Lower Upper

112 100

114 31.1 21.9 40.7

77 59.4 47.5 71.3





#52

Ethylbenzene

Concen: 5.516 ug/L

RT: 9.563 min Scan# 2

Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

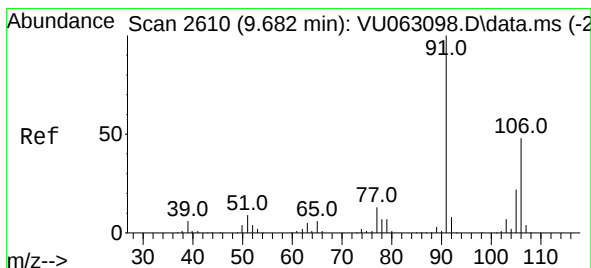
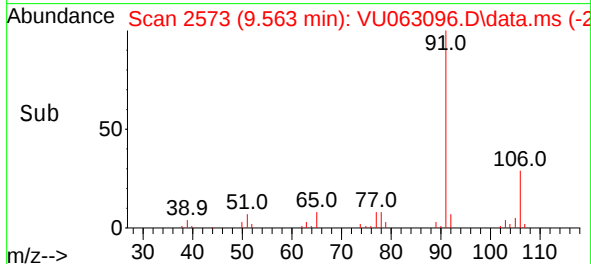
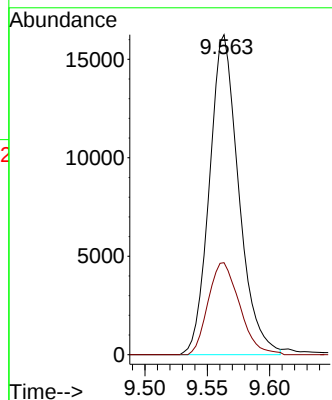
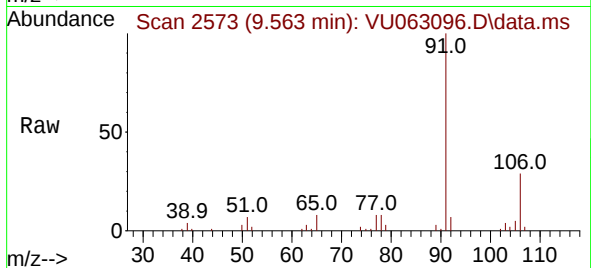
ClientSampleId :

Tgt Ion: 91 Resp: 26574

Ion Ratio Lower Upper

91 100

106 30.9 22.0 40.8



#53

m,p-Xylene

Concen: 5.150 ug/L

RT: 9.689 min Scan# 2612

Delta R.T. 0.007 min

Lab File: VU063096.D

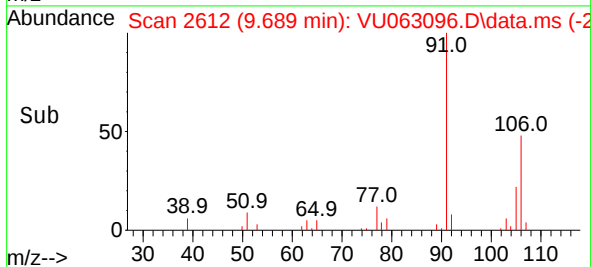
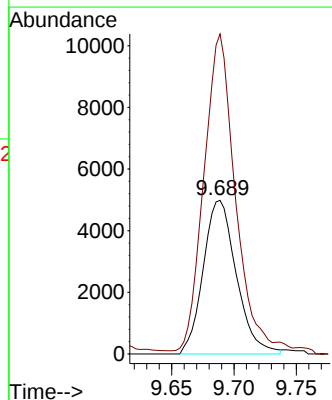
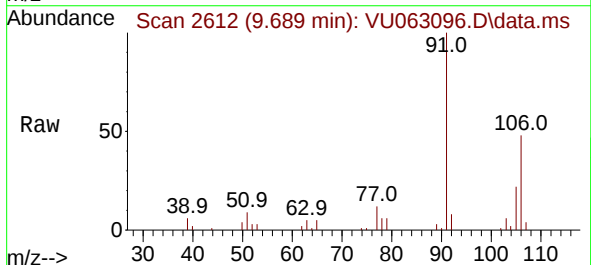
Acq: 30 Jan 2025 13:29

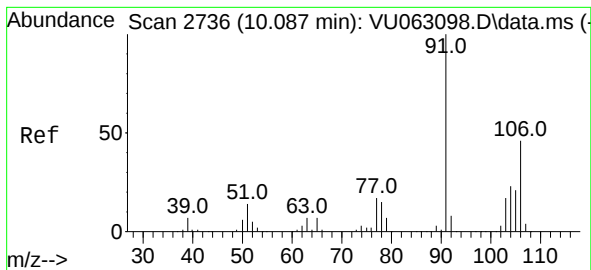
Tgt Ion:106 Resp: 9222

Ion Ratio Lower Upper

106 100

91 208.2 145.5 270.1





#54

o-Xylene

Concen: 4.944 ug/L

RT: 10.094 min Scan# 2736

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

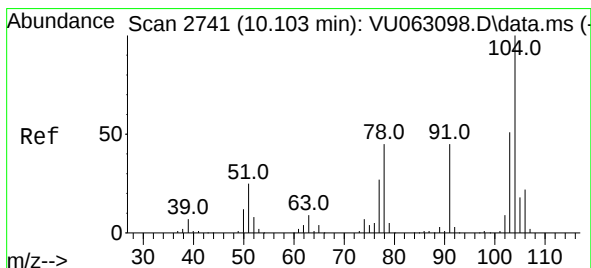
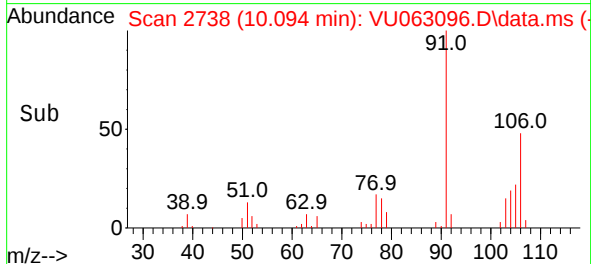
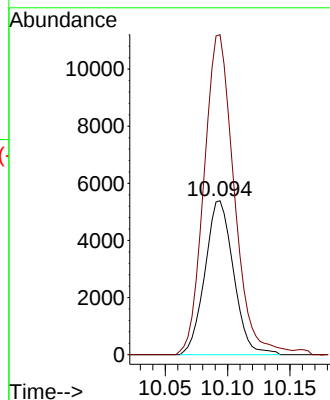
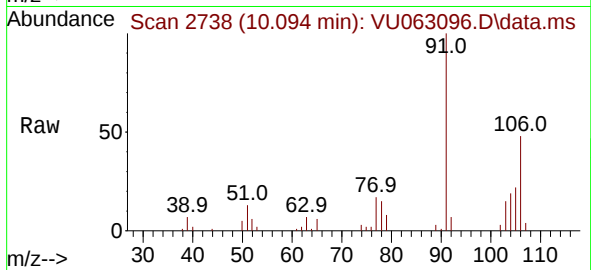
ClientSampleId :

Tgt Ion:106 Resp: 8619

Ion Ratio Lower Upper

106 100

91 207.8 152.8 283.8



#55

Styrene

Concen: 4.727 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. 0.007 min

Lab File: VU063096.D

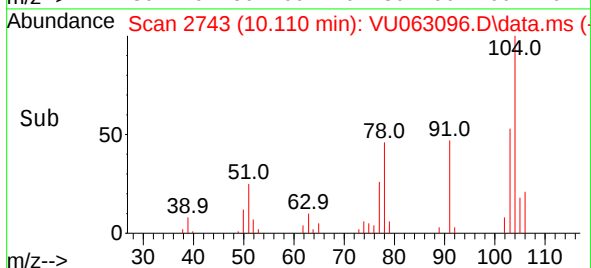
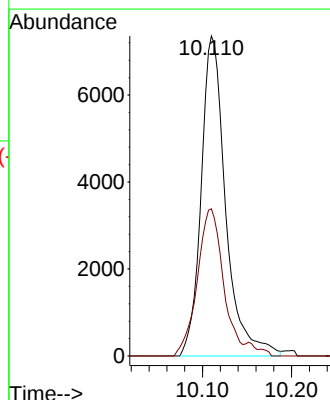
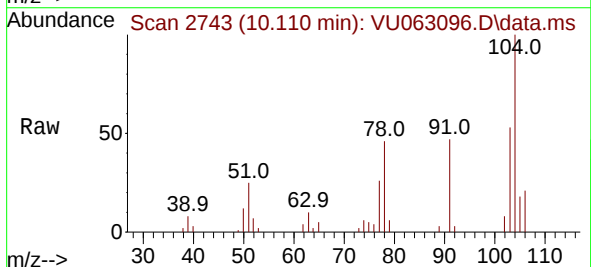
Acq: 30 Jan 2025 13:29

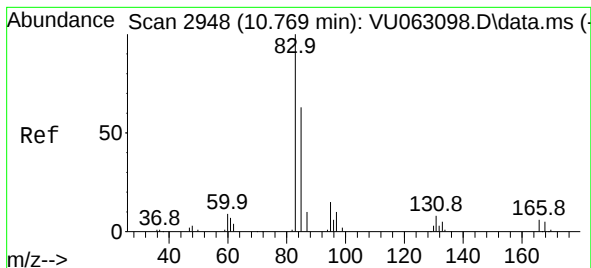
Tgt Ion:104 Resp: 14041

Ion Ratio Lower Upper

104 100

78 46.0 31.4 58.2





#57

1,1,2,2-Tetrachloroethane

Concen: 5.983 ug/L

RT: 10.772 min Scan# 2949

Delta R.T. 0.003 min

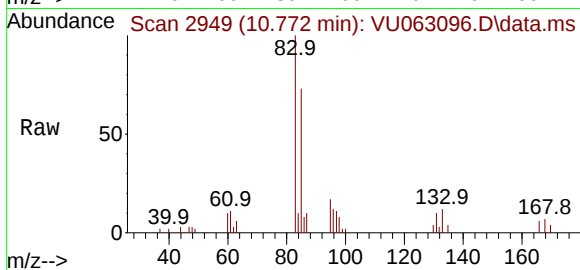
Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

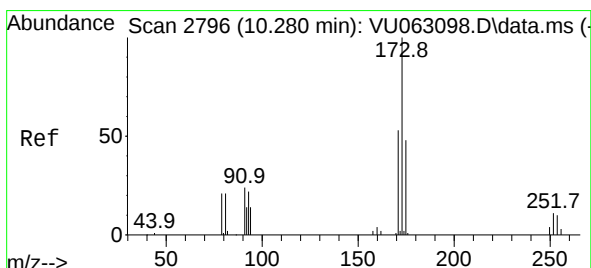
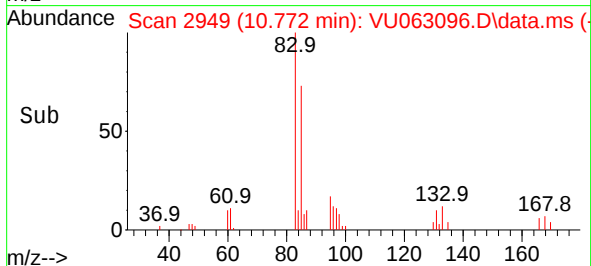
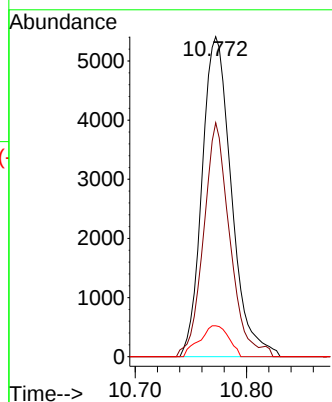
Instrument :

MSVOA\_U

ClientSampleId :



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 9905 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 85        | 73.1  | 44.9  | 83.3 |
| 131       | 9.7   | 7.1   | 10.7 |



#59

Bromoform

Concen: 5.184 ug/L

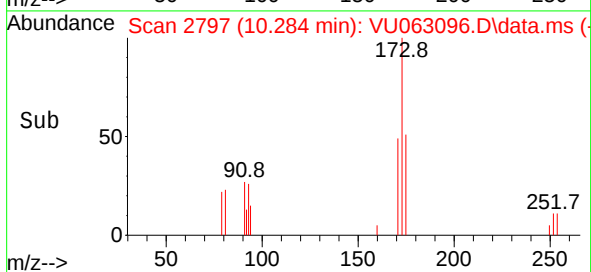
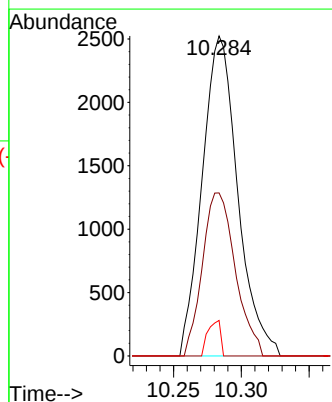
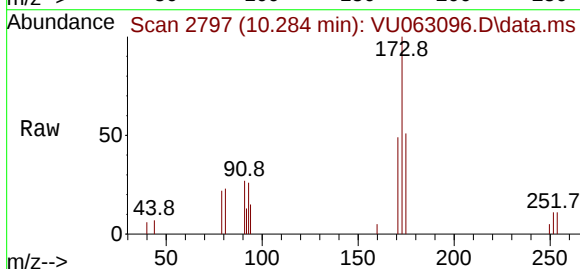
RT: 10.284 min Scan# 2797

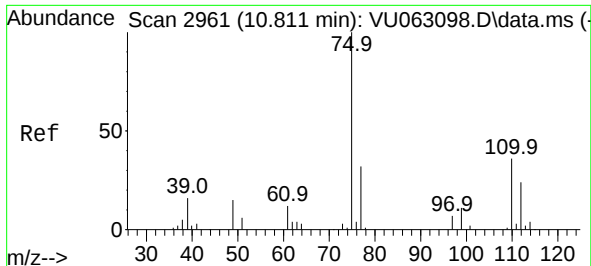
Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 173   | Resp: | 4597 |
| Ion Ratio | Lower | Upper |      |
| 173       | 100   |       |      |
| 175       | 47.2  | 38.6  | 57.8 |
| 254       | 3.9   | 7.6   | 11.4 |





#60

1,2,3-Trichloropropane

Concen: 6.199 ug/L

RT: 10.814 min Scan# 2961

Delta R.T. 0.003 min

Lab File: VU063096.D

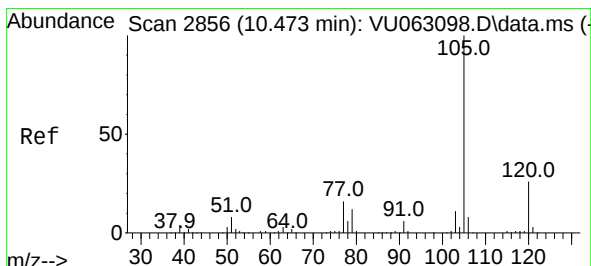
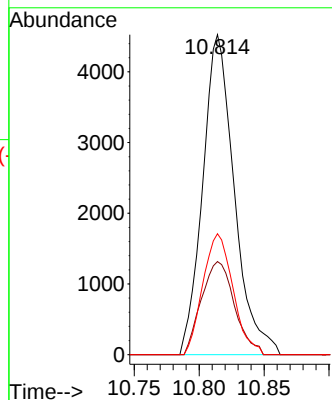
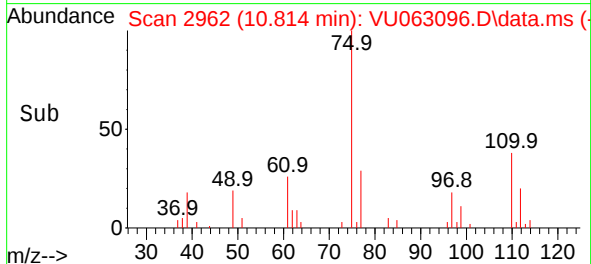
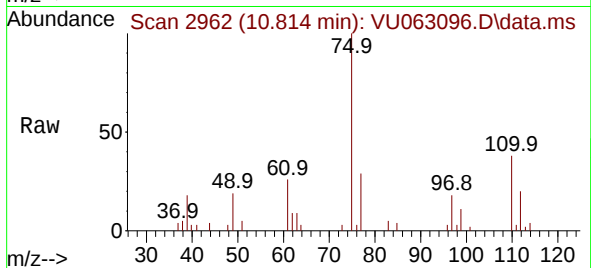
Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 75 | Resp: | 7653      |
| Ion Ratio   | Lower | Upper     |
| 75          | 100   |           |
| 77          | 30.4  | 25.6 38.4 |
| 110         | 36.0  | 29.1 43.7 |



#61

Isopropylbenzene

Concen: 5.421 ug/L

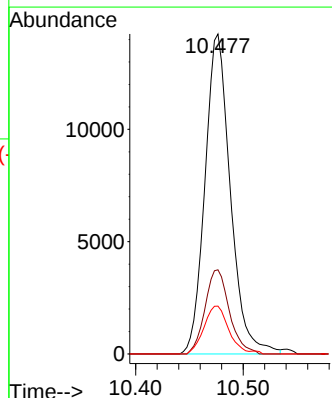
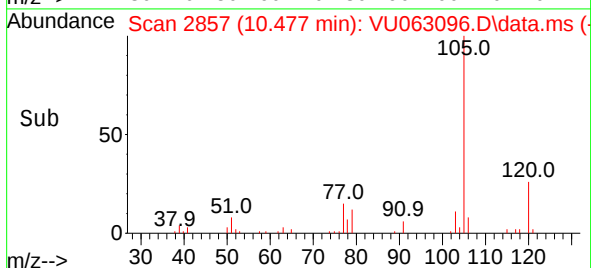
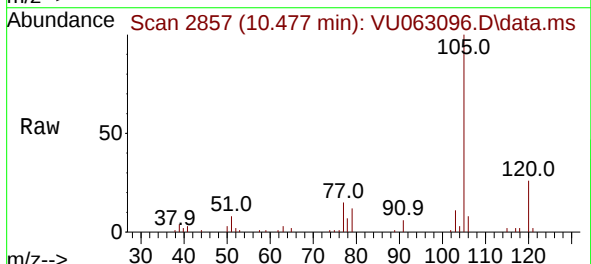
RT: 10.477 min Scan# 2857

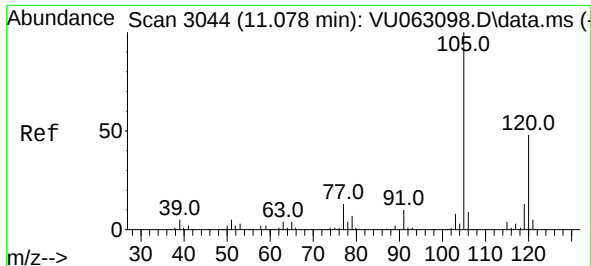
Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

|              |       |           |
|--------------|-------|-----------|
| Tgt Ion: 105 | Resp: | 23411     |
| Ion Ratio    | Lower | Upper     |
| 105          | 100   |           |
| 120          | 25.2  | 20.9 31.3 |
| 77           | 14.5  | 12.5 18.7 |





#62

1,3,5-Trimethylbenzene

Concen: 4.678 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.003 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

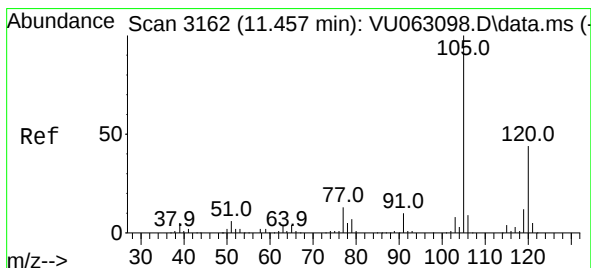
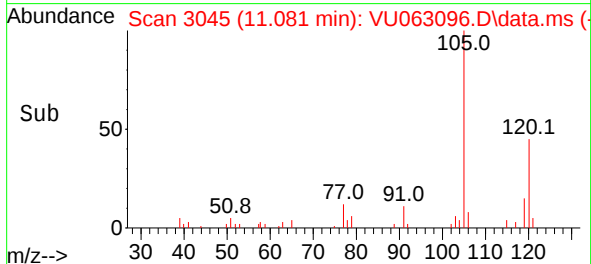
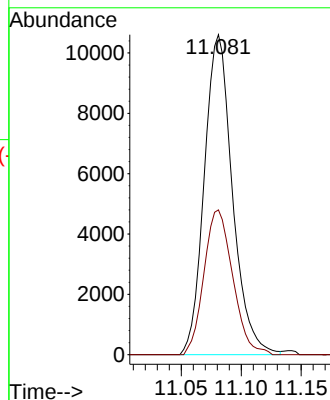
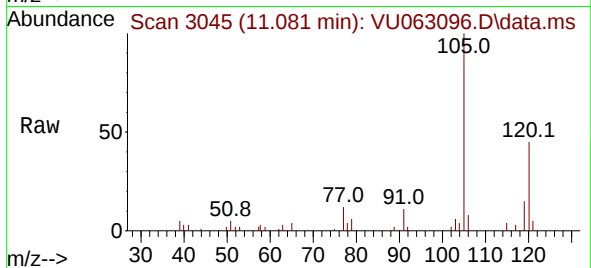
ClientSampleId :

Tgt Ion:105 Resp: 17324

Ion Ratio Lower Upper

105 100

120 46.2 38.2 57.2



#63

1,2,4-Trimethylbenzene

Concen: 4.661 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VU063096.D

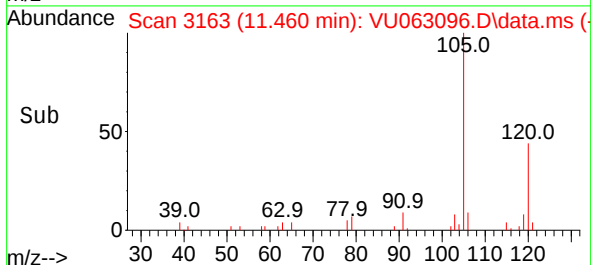
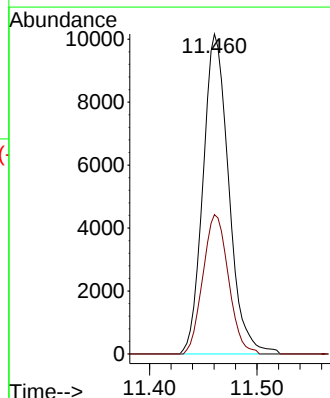
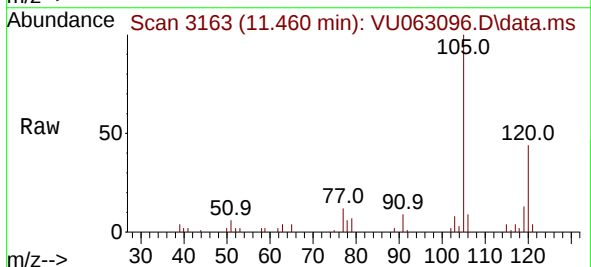
Acq: 30 Jan 2025 13:29

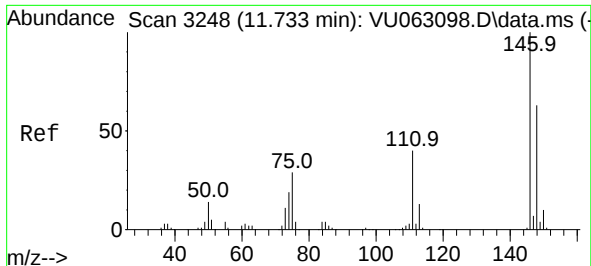
Tgt Ion:105 Resp: 16918

Ion Ratio Lower Upper

105 100

120 43.2 35.8 53.6





#64

1,3-Dichlorobenzene

Concen: 5.600 ug/L

RT: 11.740 min Scan# 3248

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

ClientSampleId :

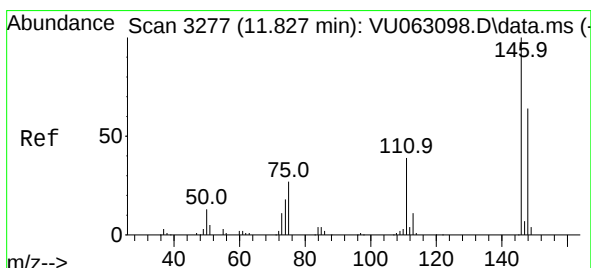
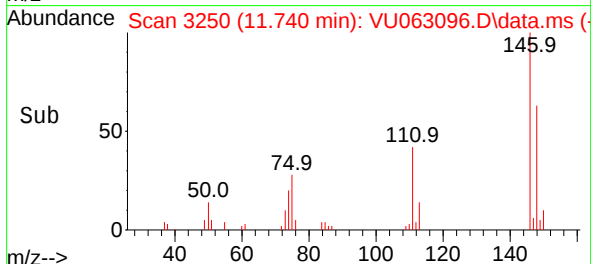
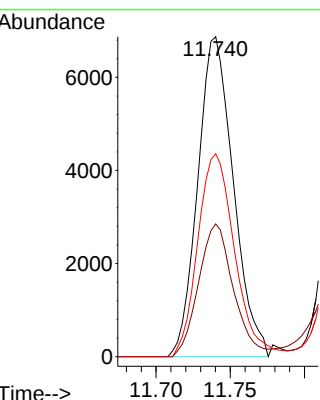
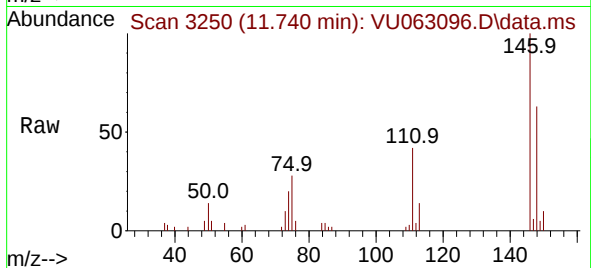
Tgt Ion:146 Resp: 11452

Ion Ratio Lower Upper

146 100

111 41.5 28.1 52.3

148 63.4 43.9 81.5



#65

1,4-Dichlorobenzene

Concen: 6.085 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

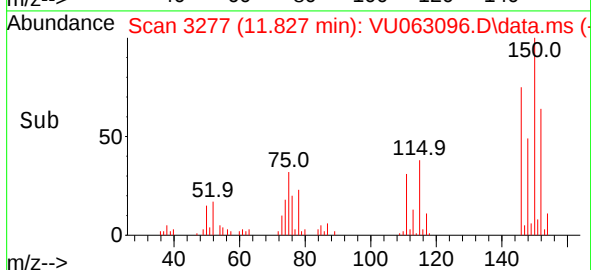
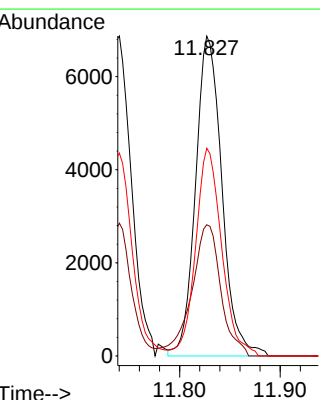
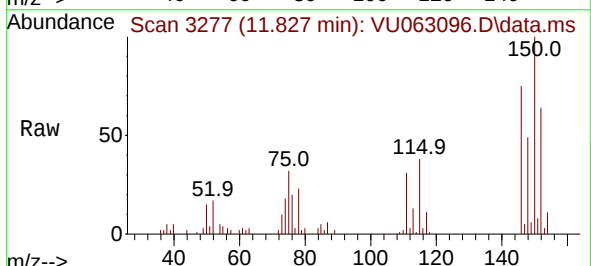
Tgt Ion:146 Resp: 12532

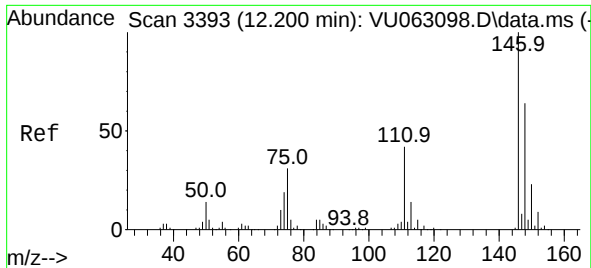
Ion Ratio Lower Upper

146 100

111 41.0 27.2 50.6

148 64.9 44.9 83.5

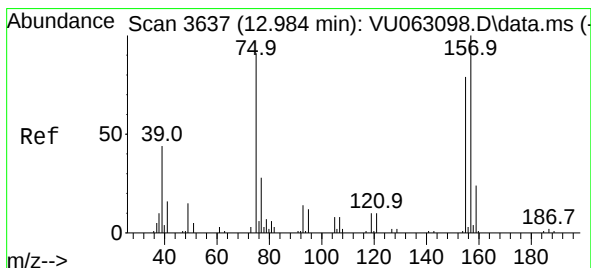
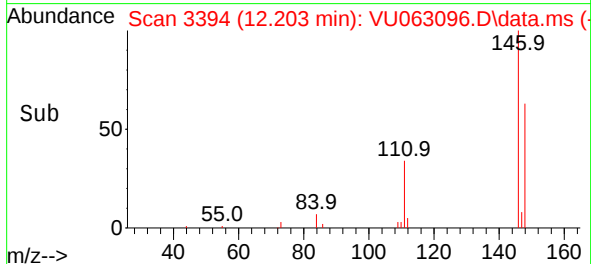
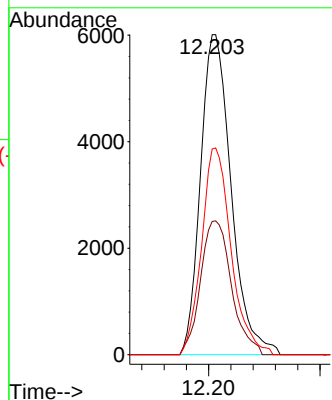
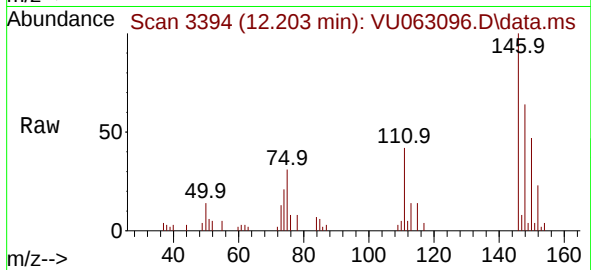




#67  
1,2-Dichlorobenzene  
Concen: 5.762 ug/L  
RT: 12.203 min Scan# 3393  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

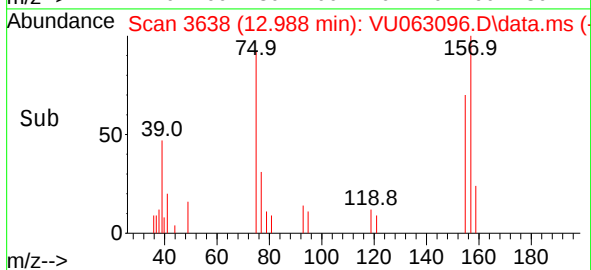
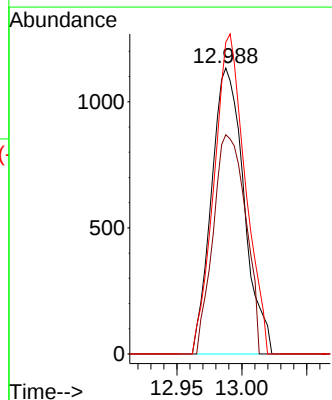
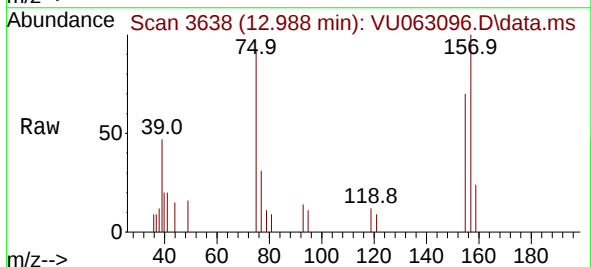
Instrument :  
MSVOA\_U  
ClientSampleId :

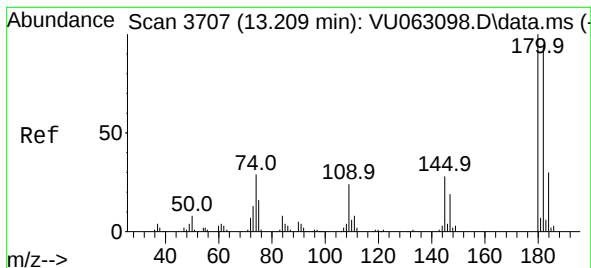
Tgt Ion:146 Resp: 11497  
Ion Ratio Lower Upper  
146 100  
111 41.6 33.6 50.4  
148 64.3 51.2 76.8



#68  
1,2-Dibromo-3-chloropropane  
Concen: 5.394 ug/L  
RT: 12.988 min Scan# 3638  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion: 75 Resp: 1972  
Ion Ratio Lower Upper  
75 100  
155 76.6 69.4 104.0  
157 109.0 91.4 137.0





#69

1,3,5-Trichlorobenzene

Concen: 5.397 ug/L

RT: 13.213 min Scan# 31

Delta R.T. 0.003 min

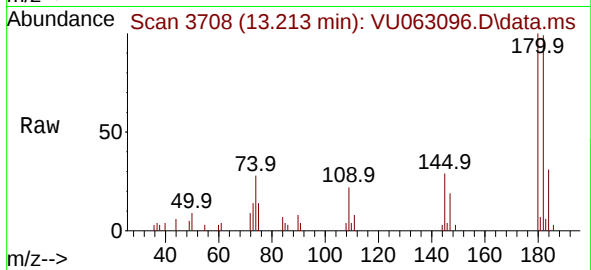
Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 7407

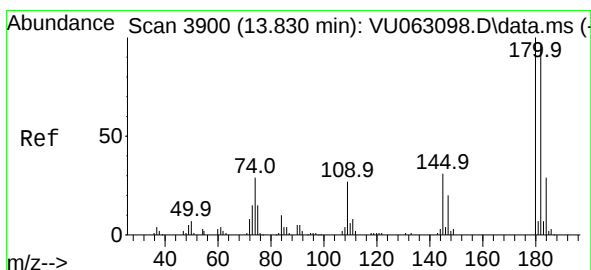
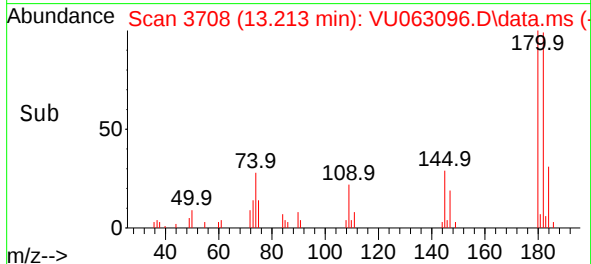
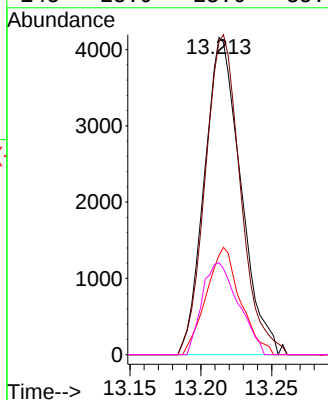
Ion Ratio Lower Upper

180 100

182 97.6 76.3 114.5

184 31.8 24.5 36.7

145 28.9 23.6 35.4



#70

1,2,4-trichlorobenzene

Concen: 6.523 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.007 min

Lab File: VU063096.D

Acq: 30 Jan 2025 13:29

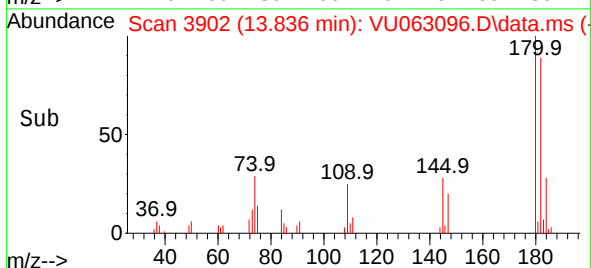
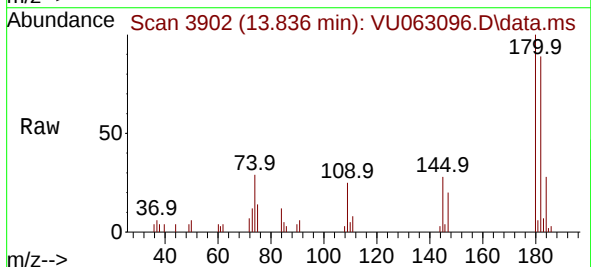
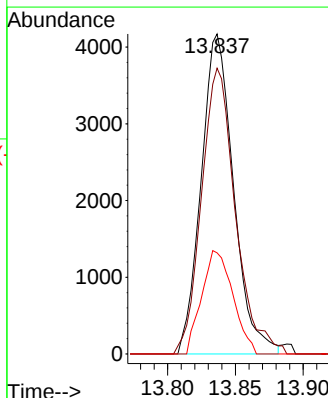
Tgt Ion:180 Resp: 6934

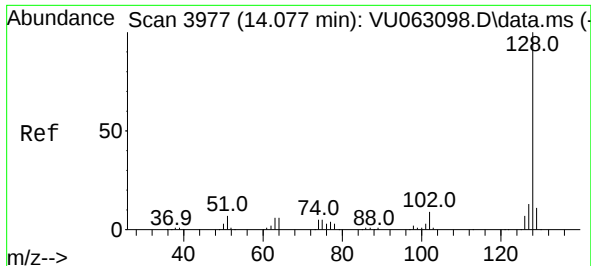
Ion Ratio Lower Upper

180 100

182 90.9 75.5 113.3

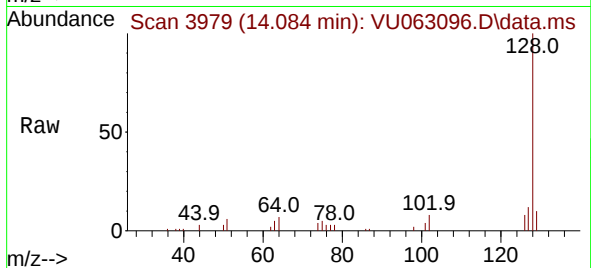
145 31.0 24.6 36.8



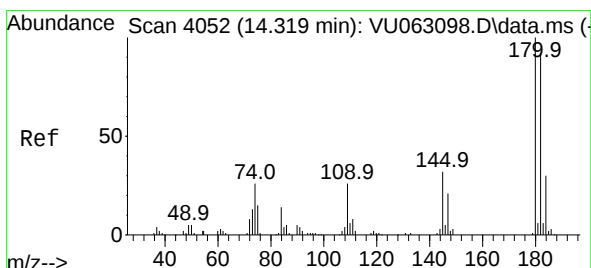
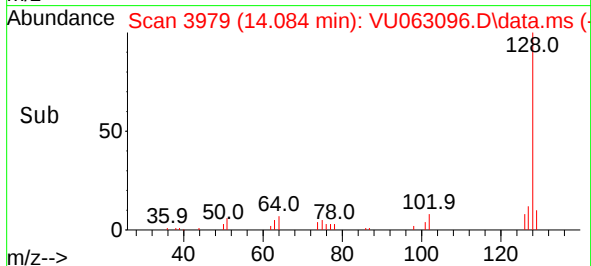
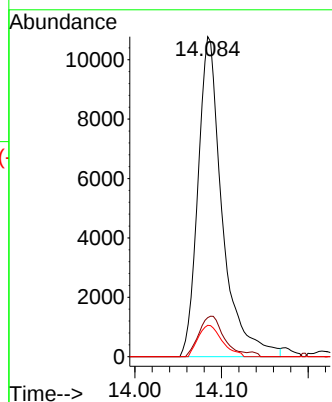


#71  
Naphthalene  
Concen: 7.312 ug/L  
RT: 14.084 min Scan# 3977  
Delta R.T. 0.007 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 20959  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.1 15.1  
129 9.6 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 6.689 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. 0.003 min  
Lab File: VU063096.D  
Acq: 30 Jan 2025 13:29

Tgt Ion:180 Resp: 6744  
Ion Ratio Lower Upper  
180 100  
182 101.3 75.2 112.8  
145 31.9 25.6 38.4

