

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081324\  
 Data File : VU060414.D  
 Acq On : 13 Aug 2024 09:48  
 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 14 01:15:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Aug 13 16:28:40 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 90224    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 94277    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 50114    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 23486    | 3.316    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 66.400%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 23602    | 3.696    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 74.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 10293    | 3.415    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 68.200%  |
| 20) 2-Butanone-d5             | 4.637  | 46    | 77771    | 51.744   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 103.480% |
| 24) Chloroform-d              | 5.055  | 84    | 61688    | 4.399    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 88.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 30871    | 4.747    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 95.000%  |
| 32) Benzene-d6                | 5.721  | 84    | 109186   | 3.840    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 76.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 36797    | 4.172    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 83.400%  |
| 41) Toluene-d8                | 7.891  | 98    | 100610   | 3.964    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 79.200%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 11735    | 4.116    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 82.400%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 63225    | 49.969   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 99.940%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 33287    | 4.600    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 92.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 38981    | 4.223    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 84.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 25177    | 5.173    | ug/L   | 100      |
| 3) Chloromethane              | 1.518  | 50    | 27559    | 4.552    | ug/L   | 96       |
| 5) Vinyl chloride             | 1.602  | 62    | 33701    | 4.755    | ug/L   | 98       |
| 6) Bromomethane               | 1.856  | 94    | 23042    | 4.591    | ug/L   | 97       |
| 8) Chloroethane               | 1.930  | 64    | 22715    | 4.725    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 54219    | 5.456    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 33095    | 5.054    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 28157    | 4.733    | ug/L   | 84       |
| 13) Acetone                   | 2.657  | 43    | 55150    | 53.734   | ug/L   | 94       |
| 14) Carbon disulfide          | 2.788  | 76    | 67047    | 4.467    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.956  | 43    | 14738    | 6.930    | ug/L   | 96       |
| 16) Methylene chloride        | 3.039  | 84    | 57911    | 6.848    | ug/L   | 96       |
| 17) Methyl tert-butyl Ether   | 3.358  | 73    | 74685    | 5.325    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 28474    | 4.879    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 63260    | 5.250    | ug/L   | 98       |
| 21) 2-Butanone                | 4.714  | 43    | 78782    | 51.500   | ug/L   | 100      |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96    | 34613    | 4.913    | ug/L   | 95       |
| 23) Bromochloromethane        | 4.968  | 128   | 17164    | 5.279    | ug/L   | 97       |
| 25) Chloroform                | 5.081  | 83    | 67474    | 5.148    | ug/L   | 97       |

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 Data File : VU060414.D  
 Acq On : 13 Aug 2024 09:48  
 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 14 01:15:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Aug 13 16:28:40 2024  
 Response via : Initial Calibration

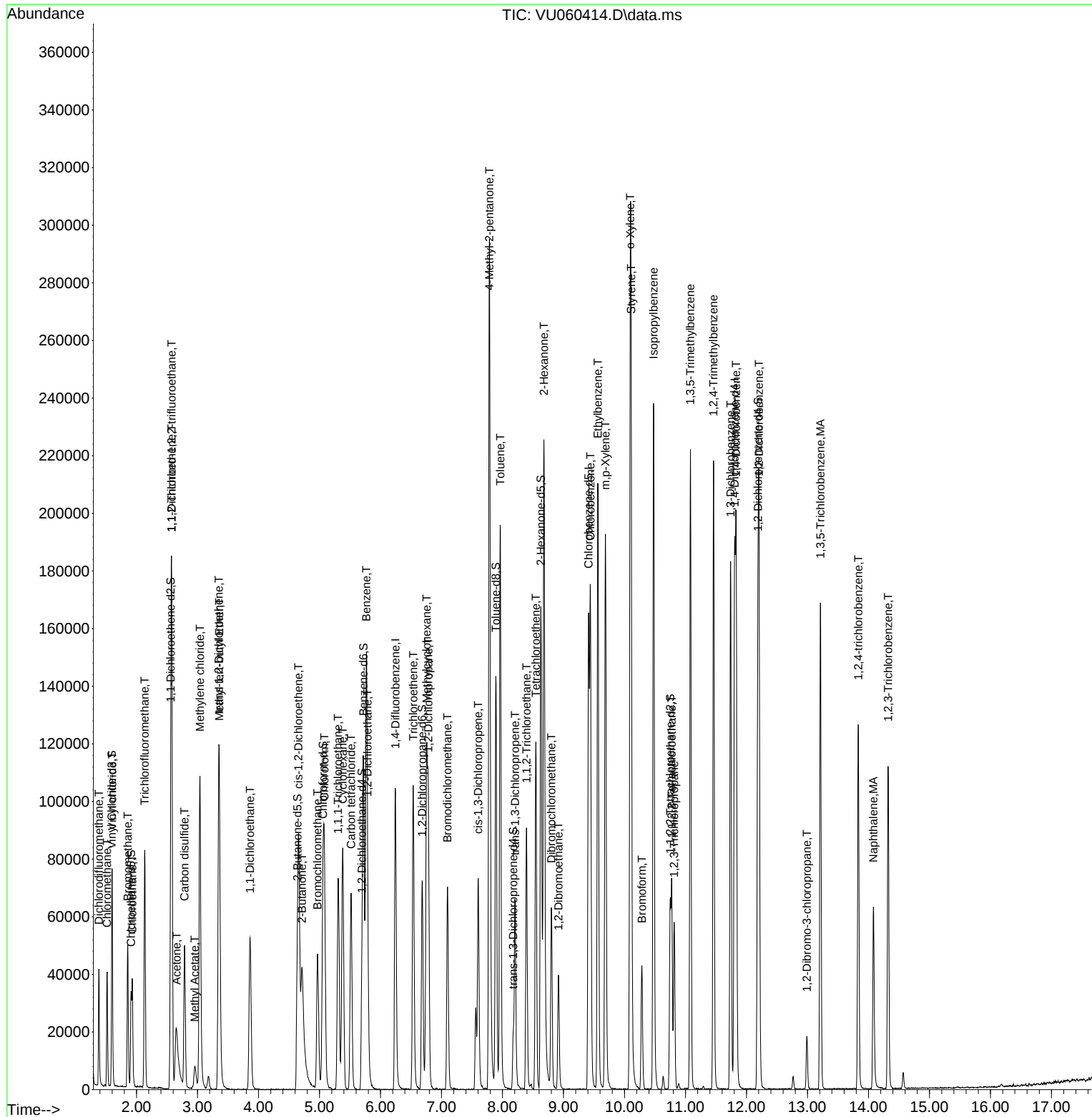
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 39401    | 5.652  | ug/L  | 94       |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97   | 56081    | 5.434  | ug/L  | 99       |
| 30) Cyclohexane               | 5.380  | 56   | 39246    | 4.697  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 49665    | 5.491  | ug/L  | 98       |
| 33) Benzene                   | 5.766  | 78   | 139098   | 5.125  | ug/L  | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 36926    | 5.197  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.756  | 83   | 42872    | 4.621  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 39203    | 5.307  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.097  | 83   | 49143    | 5.382  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 47952    | 4.779  | ug/L  | 95       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 196806   | 57.073 | ug/L  | 98       |
| 42) Toluene                   | 7.965  | 91   | 149841   | 5.224  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 40853    | 4.929  | ug/L  | 93       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 28991    | 5.124  | ug/L  | 98       |
| 47) Tetrachloroethene         | 8.547  | 164  | 27656    | 4.976  | ug/L  | 94       |
| 48) 2-Hexanone                | 8.679  | 43   | 145984   | 55.845 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.801  | 129  | 33163    | 5.512  | ug/L  | 93       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 26432    | 5.248  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.441  | 112  | 99723    | 5.154  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.563  | 91   | 151922   | 5.028  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.688  | 106  | 58649    | 5.107  | ug/L  | 94       |
| 54) o-Xylene                  | 10.094 | 106  | 58455    | 5.319  | ug/L  | 97       |
| 55) Styrene                   | 10.110 | 104  | 101493   | 5.338  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 35453    | 5.039  | ug/L  | 97       |
| 59) Bromoform                 | 10.287 | 173  | 20717    | 5.444  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.476 | 105  | 155767   | 5.148  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.814 | 75   | 25843    | 5.326  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 120870   | 5.189  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 118430   | 5.159  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 80292    | 5.207  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 78435    | 5.046  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 75568    | 5.190  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 5330     | 5.860  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 54594    | 4.685  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 41051    | 4.487  | ug/L  | 97       |
| 71) Naphthalene               | 14.081 | 128  | 56451    | 4.339  | ug/L  | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 36216    | 4.418  | ug/L  | 94       |

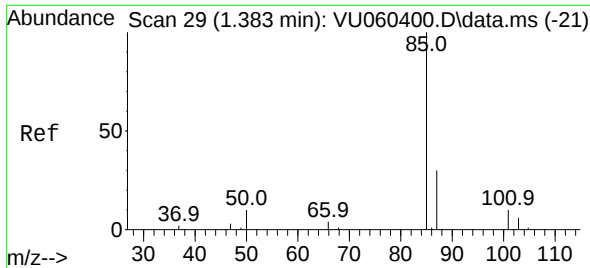
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081324\  
Data File : VU060414.D  
Acq On : 13 Aug 2024 09:48  
Operator : MD/SY  
Sample : VSTDCCC005  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Aug 14 01:15:20 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Aug 13 16:28:40 2024  
Response via : Initial Calibration

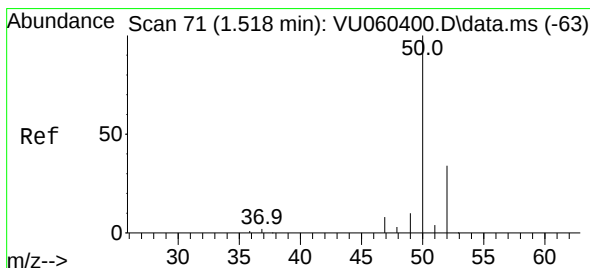
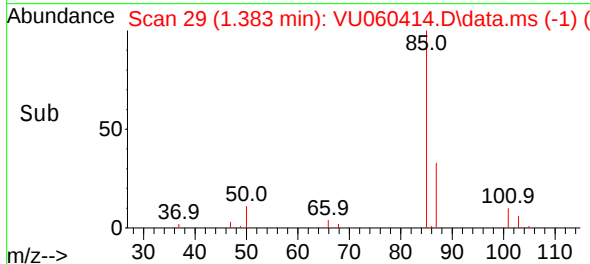
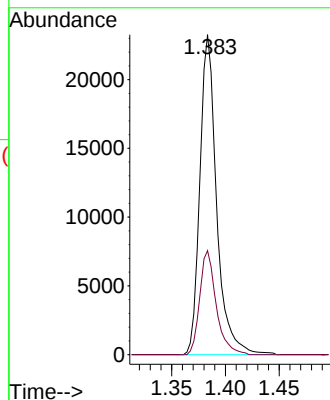
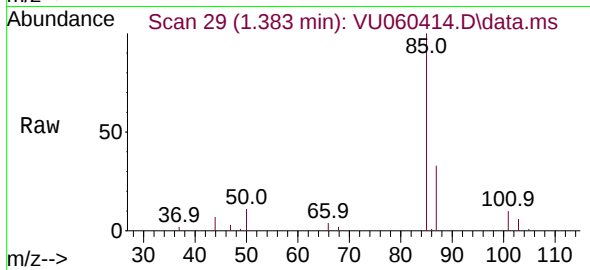




#2  
 Dichlorodifluoromethane  
 Concen: 5.173 ug/L  
 RT: 1.383 min Scan# 29  
 Delta R.T. 0.000 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

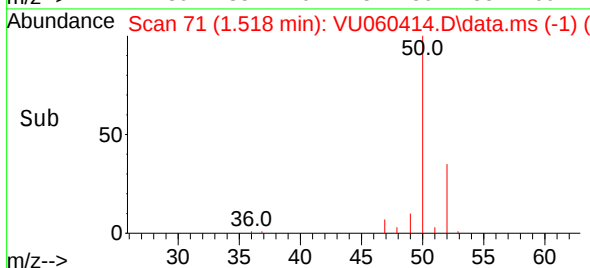
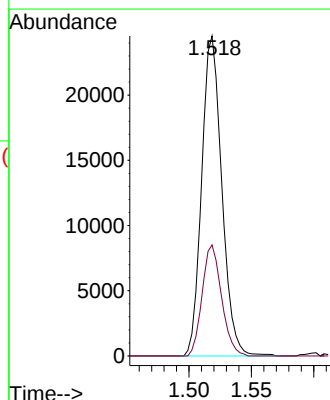
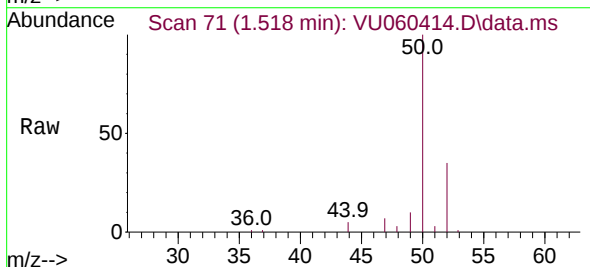
Instrument :  
 MSVOA\_U  
 ClientSampleId :

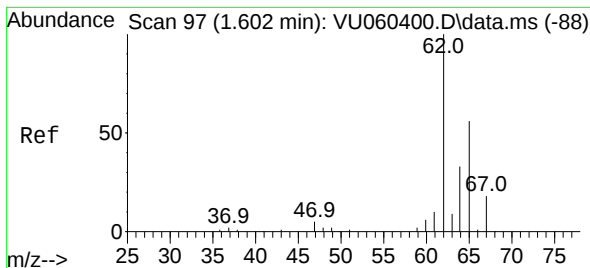
Tgt Ion: 85 Resp: 25177  
 Ion Ratio Lower Upper  
 85 100  
 87 32.0 25.7 38.5



#3  
 Chloromethane  
 Concen: 4.552 ug/L  
 RT: 1.518 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

Tgt Ion: 50 Resp: 27559  
 Ion Ratio Lower Upper  
 50 100  
 52 34.7 22.8 42.4





#5

Vinyl chloride

Concen: 4.755 ug/L

RT: 1.602 min Scan# 97

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

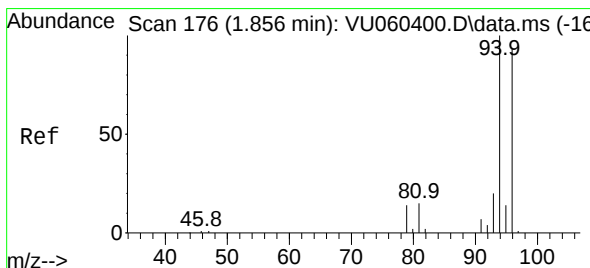
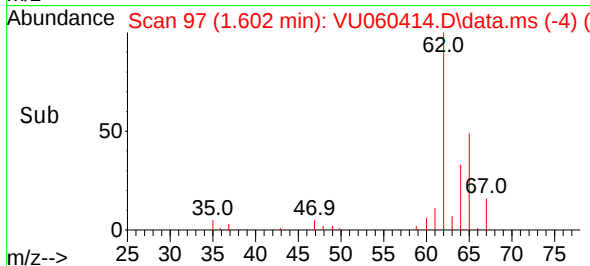
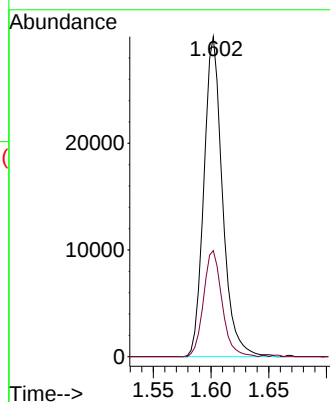
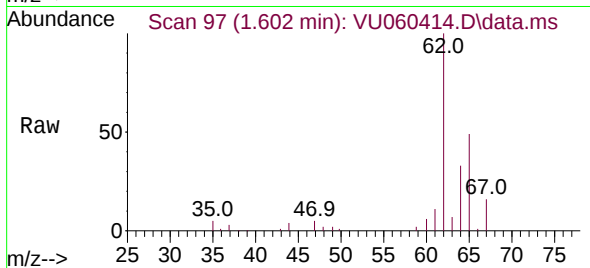
ClientSampleId :

Tgt Ion: 62 Resp: 33701

Ion Ratio Lower Upper

62 100

64 33.1 24.1 44.7



#6

Bromomethane

Concen: 4.591 ug/L

RT: 1.856 min Scan# 176

Delta R.T. 0.000 min

Lab File: VU060414.D

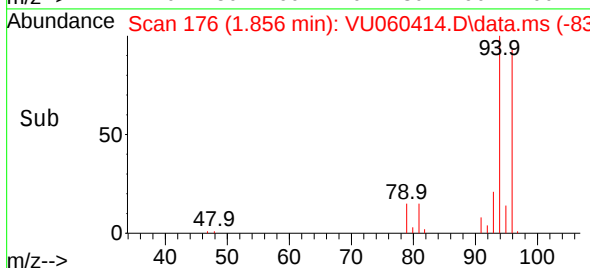
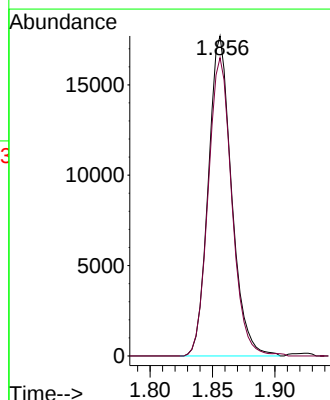
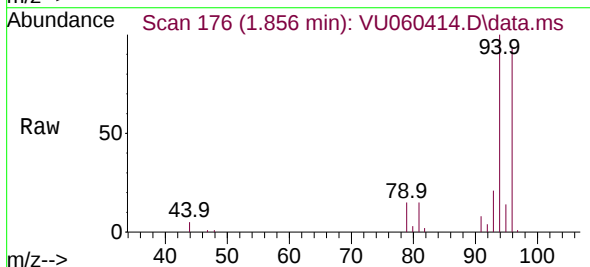
Acq: 13 Aug 2024 09:48

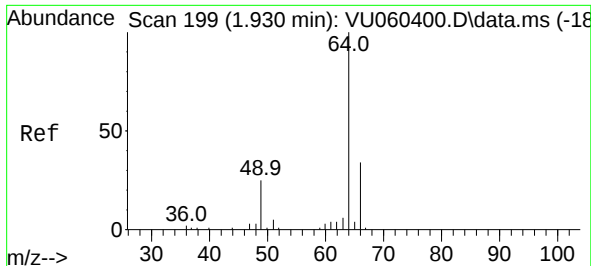
Tgt Ion: 94 Resp: 23042

Ion Ratio Lower Upper

94 100

96 93.2 63.2 117.4

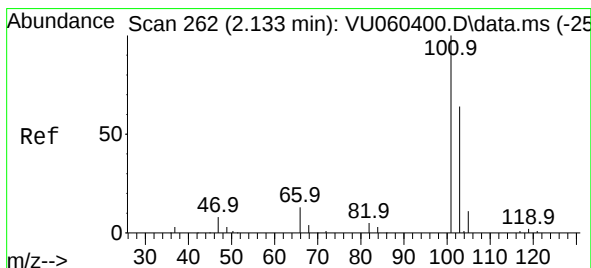
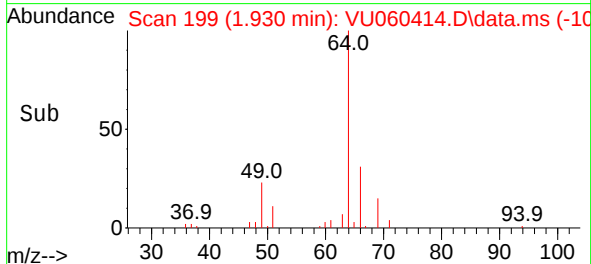
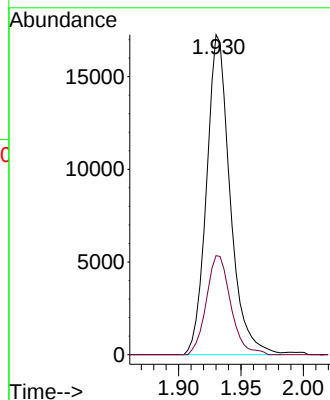
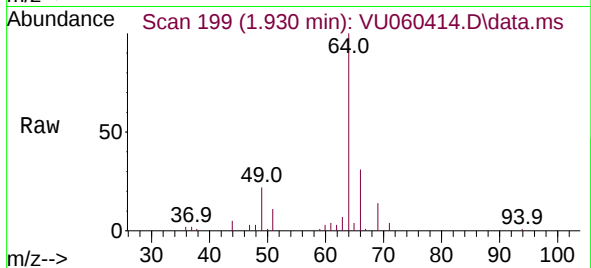




#8  
Chloroethane  
Concen: 4.725 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

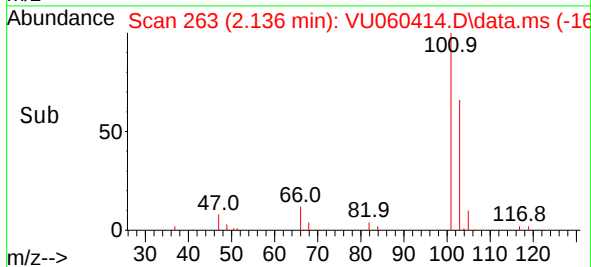
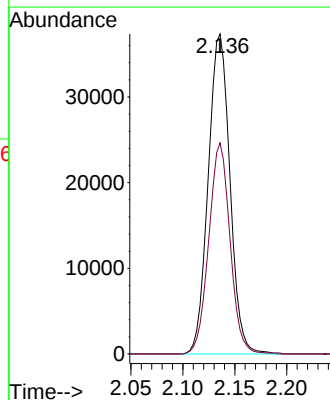
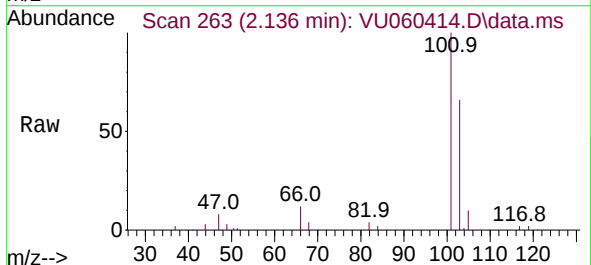
Instrument :  
MSVOA\_U  
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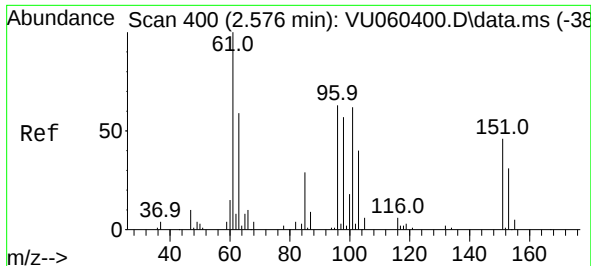
Tgt Ion: 64 Resp: 22715  
Ion Ratio Lower Upper  
64 100  
66 30.9 22.2 41.2



#9  
Trichlorofluoromethane  
Concen: 5.456 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. 0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion:101 Resp: 54219  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.7 77.5

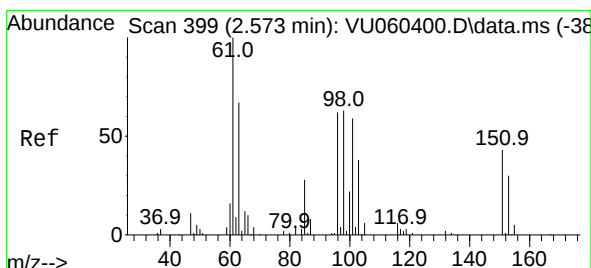
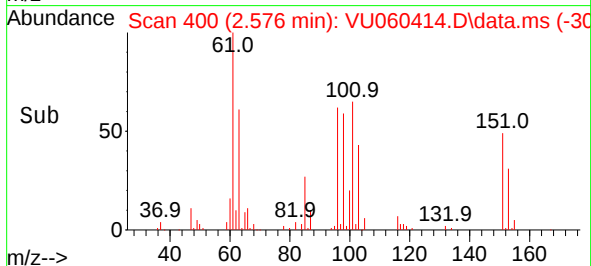
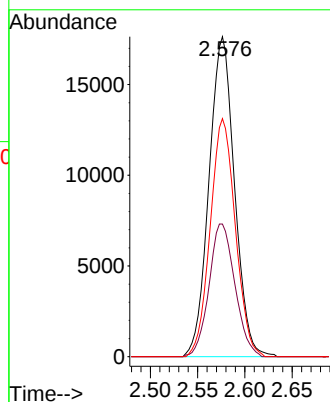
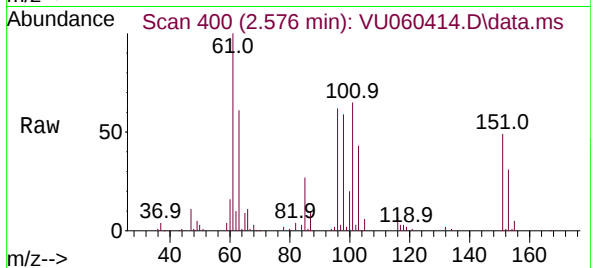




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.054 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

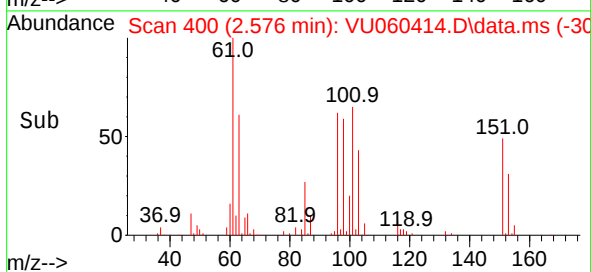
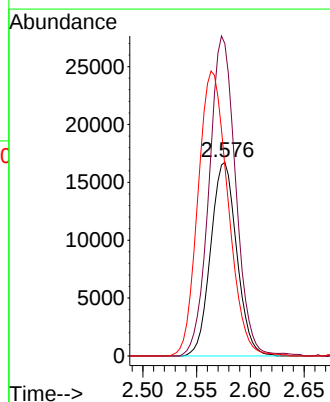
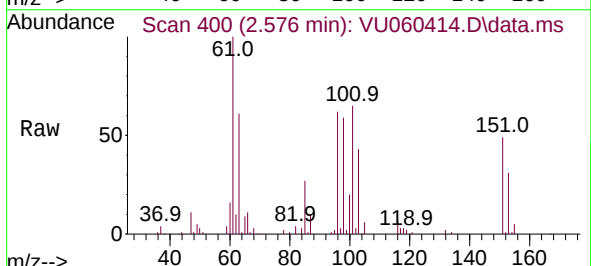
Instrument :  
 MSVOA\_U  
 ClientSampleId :

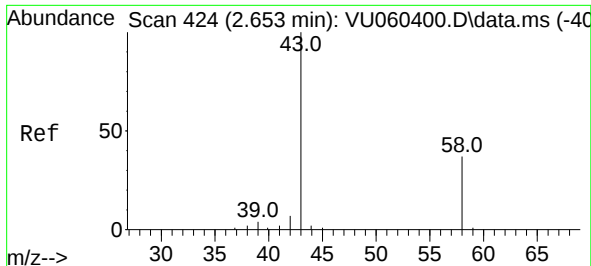
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 Ion Ratio Lower Upper  
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 151 73.2 59.7 89.5



#12  
 1,1-Dichloroethene  
 Concen: 4.733 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.003 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

Tgt Ion: 96 Resp: 28157  
 Ion Ratio Lower Upper  
 96 100  
 61 161.2 114.4 212.4  
 63 98.1 96.0 178.4





#13

Acetone

Concen: 53.734 ug/L

RT: 2.657 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

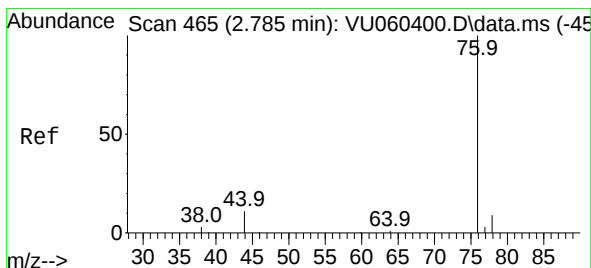
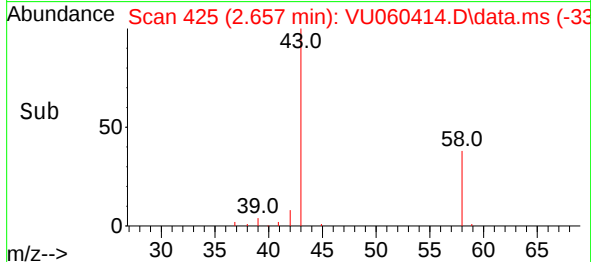
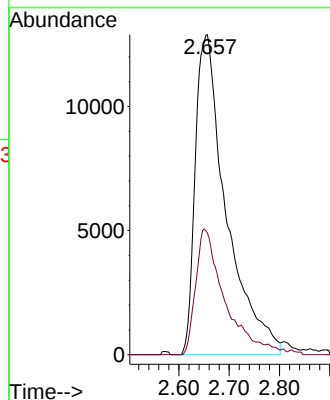
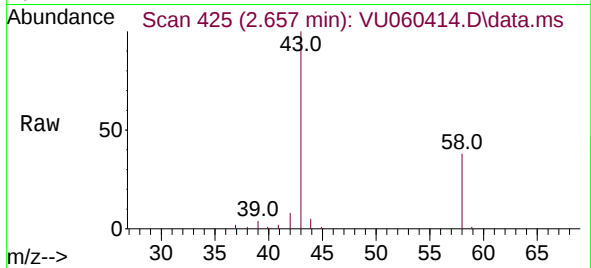
ClientSampleId :

Tgt Ion: 43 Resp: 55150

Ion Ratio Lower Upper

43 100

58 35.9 0.0 78.8



#14

Carbon disulfide

Concen: 4.467 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.003 min

Lab File: VU060414.D

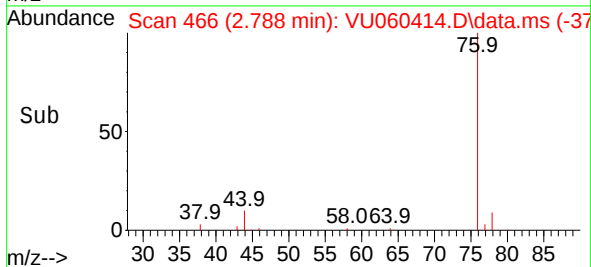
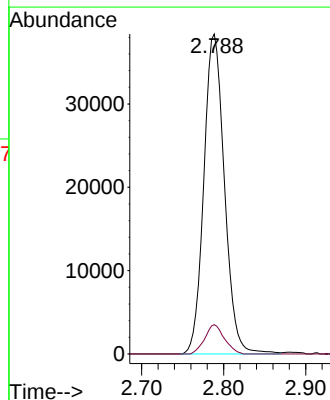
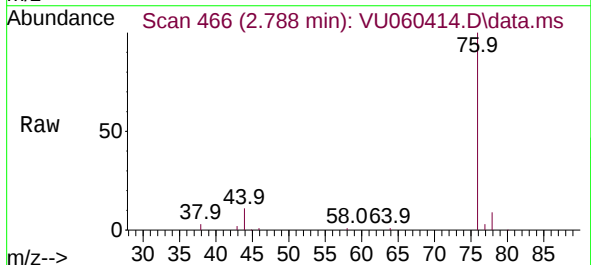
Acq: 13 Aug 2024 09:48

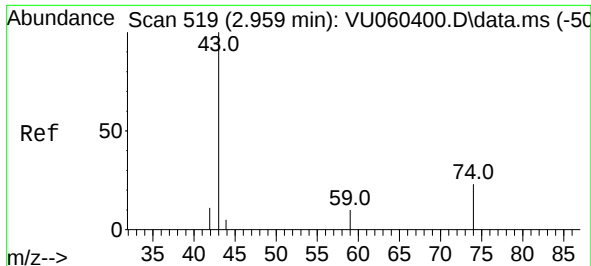
Tgt Ion: 76 Resp: 67047

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0





#15

Methyl Acetate

Concen: 6.930 ug/L

RT: 2.956 min Scan# 519

Delta R.T. -0.003 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

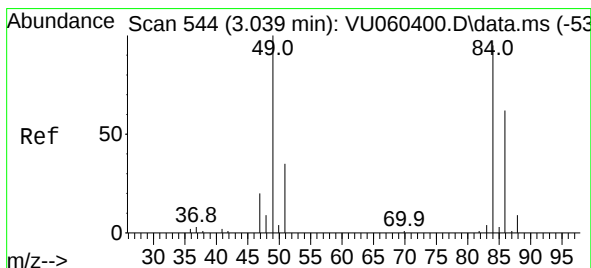
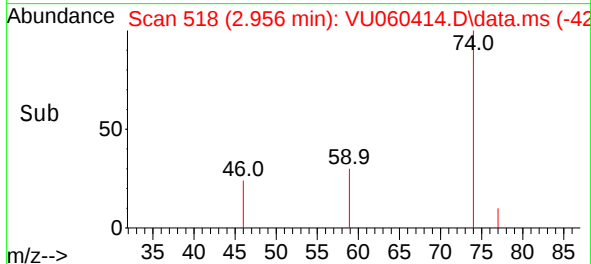
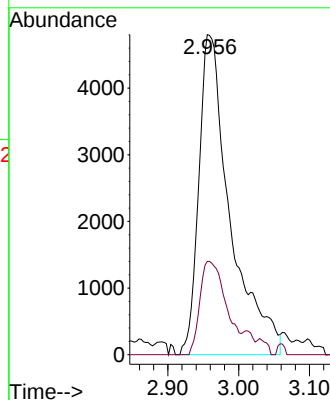
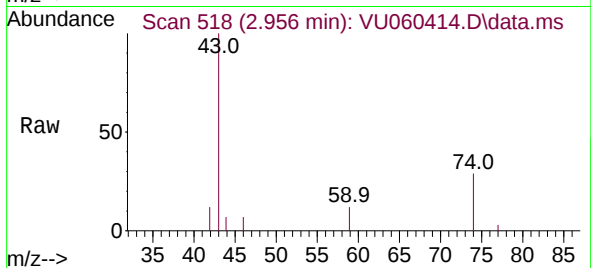
ClientSampleId :

Tgt Ion: 43 Resp: 14738

Ion Ratio Lower Upper

43 100

74 24.4 21.3 31.9



#16

Methylene chloride

Concen: 6.848 ug/L

RT: 3.039 min Scan# 544

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

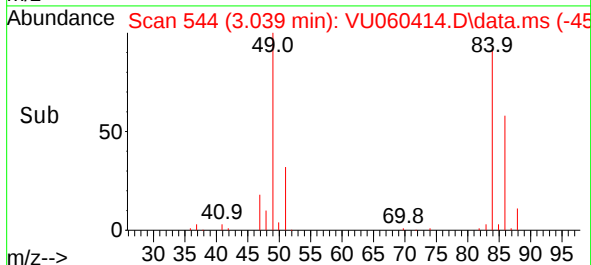
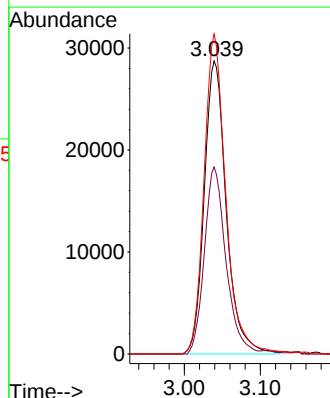
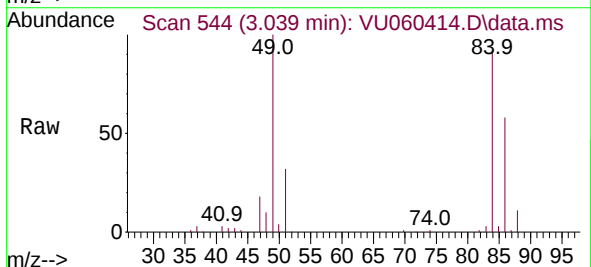
Tgt Ion: 84 Resp: 57911

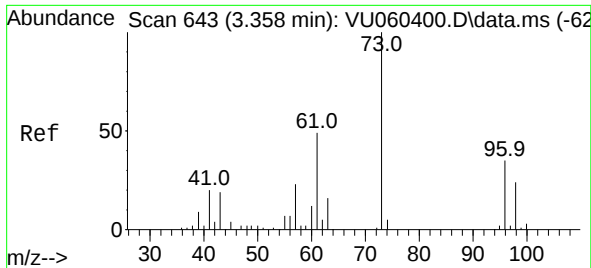
Ion Ratio Lower Upper

84 100

86 63.8 47.1 87.5

49 109.2 73.9 137.3

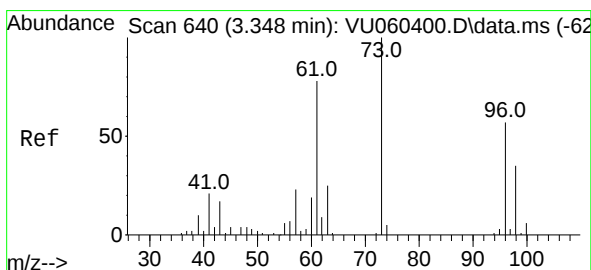
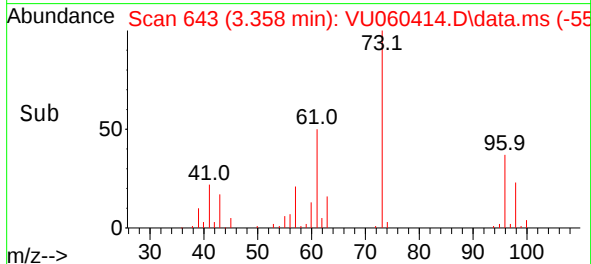
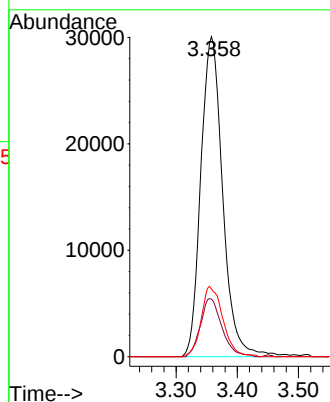
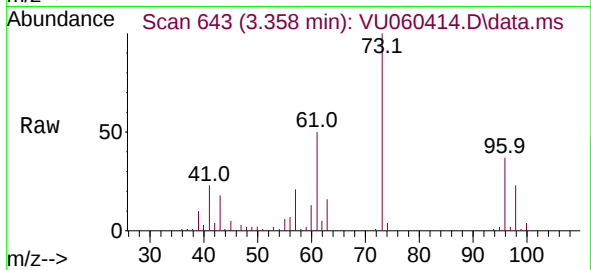




#17  
Methyl tert-butyl Ether  
Concen: 5.325 ug/L  
RT: 3.358 min Scan# 643  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

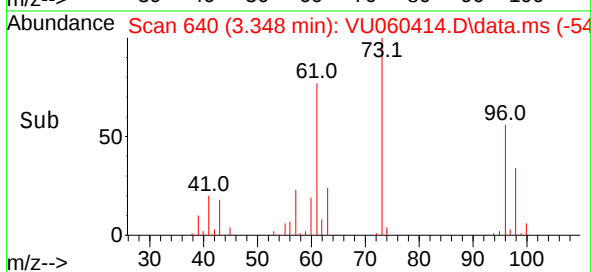
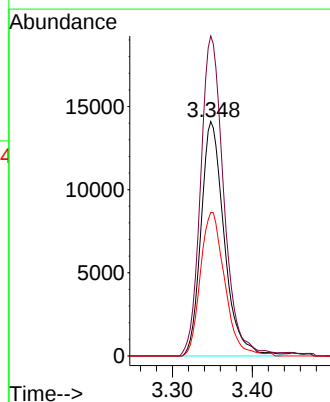
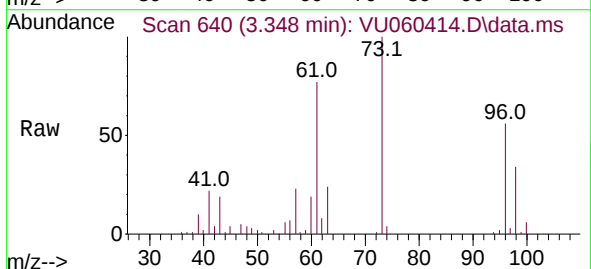
Instrument :  
MSVOA\_U  
ClientSampleId :

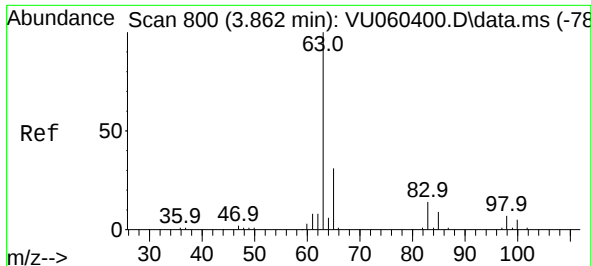
|             |             |
|-------------|-------------|
| Tgt Ion: 73 | Resp: 74685 |
| Ion Ratio   | Lower Upper |
| 73 100      |             |
| 43 17.8     | 12.8 19.2   |
| 57 21.8     | 17.5 26.3   |



#18  
trans-1,2-Dichloroethene  
Concen: 4.879 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 28474 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 136.6    | 93.7 174.1  |
| 98 61.2     | 44.7 82.9   |

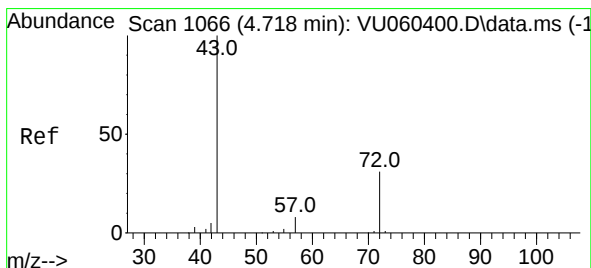
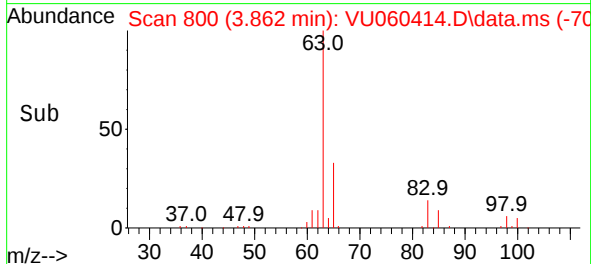
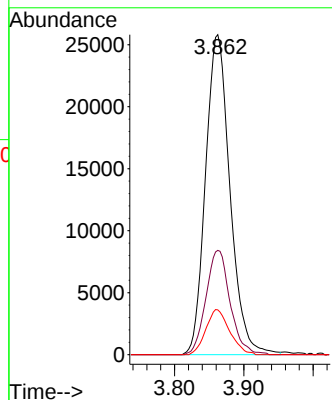
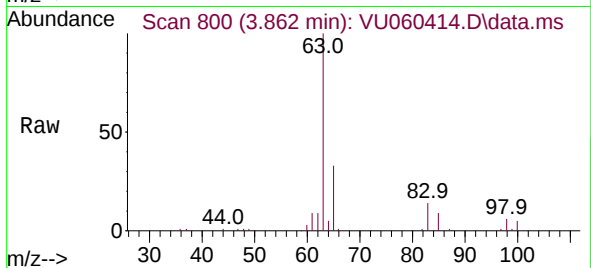




#19  
1,1-Dichloroethane  
Concen: 5.250 ug/L  
RT: 3.862 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

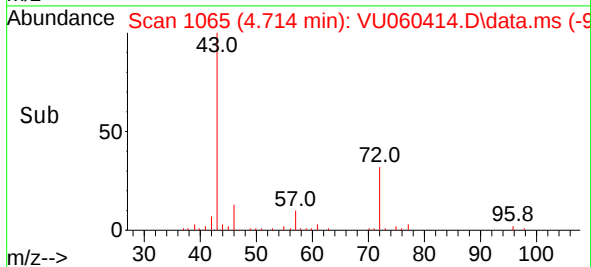
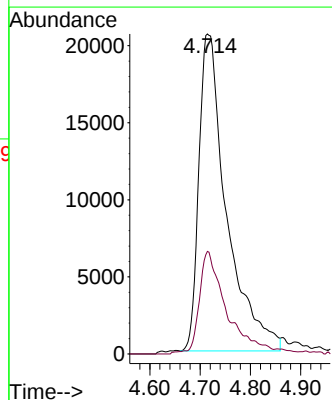
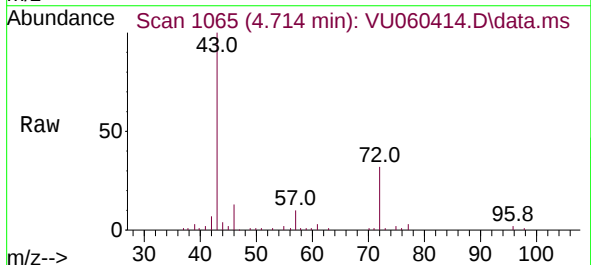
Instrument :  
MSVOA\_U  
ClientSampleId :

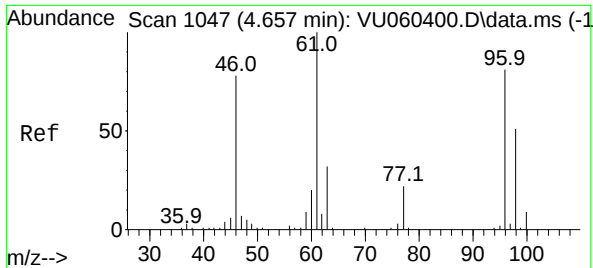
Tgt Ion: 63 Resp: 63260  
Ion Ratio Lower Upper  
63 100  
65 32.6 22.2 41.2  
83 14.0 9.1 16.9



#21  
2-Butanone  
Concen: 51.500 ug/L  
RT: 4.714 min Scan# 1065  
Delta R.T. -0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 43 Resp: 78782  
Ion Ratio Lower Upper  
43 100  
72 31.6 15.9 47.6

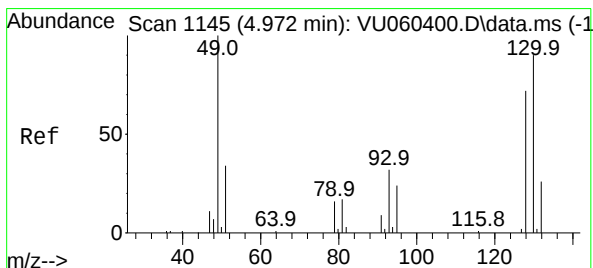
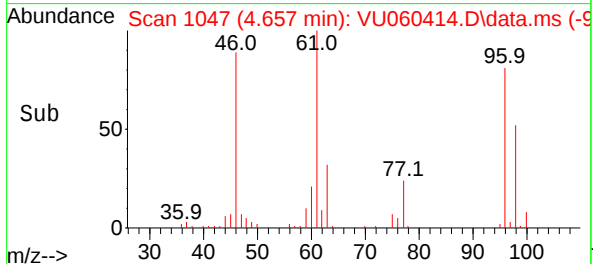
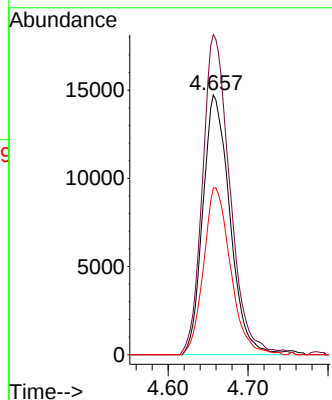
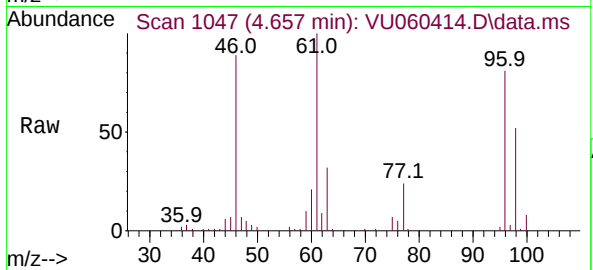




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.913 ug/L  
 RT: 4.657 min Scan# 1047  
 Delta R.T. 0.000 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

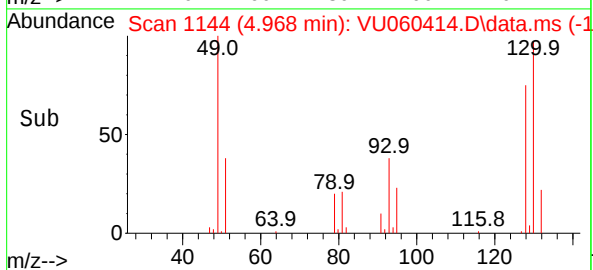
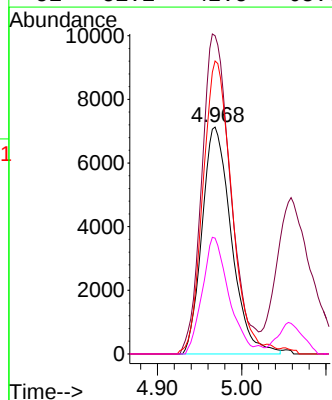
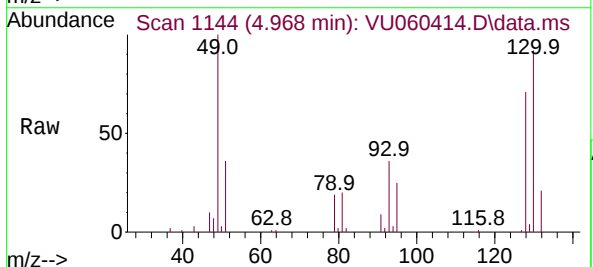
Instrument :  
 MSVOA\_U  
 ClientSampleId :

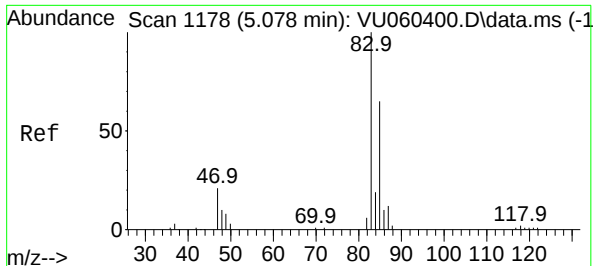
Tgt Ion: 96 Resp: 34613  
 Ion Ratio Lower Upper  
 96 100  
 61 123.1 81.5 151.5  
 98 64.1 43.5 80.7



#23  
 Bromochloromethane  
 Concen: 5.279 ug/L  
 RT: 4.968 min Scan# 1144  
 Delta R.T. -0.003 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

Tgt Ion:128 Resp: 17164  
 Ion Ratio Lower Upper  
 128 100  
 49 140.3 101.0 187.6  
 130 129.2 92.7 172.1  
 51 51.1 42.5 63.7





#25

Chloroform

Concen: 5.148 ug/L

RT: 5.081 min Scan# 1178

Delta R.T. 0.003 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

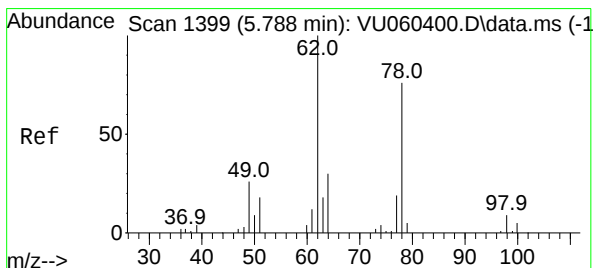
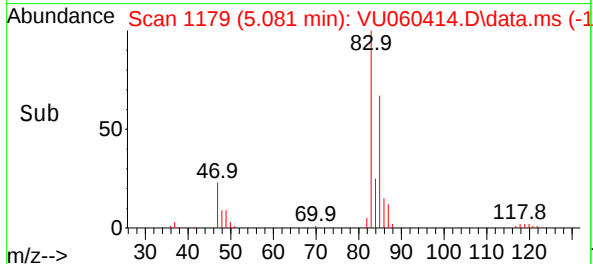
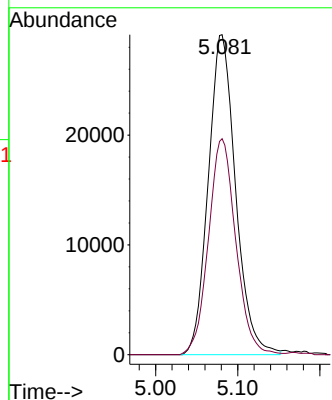
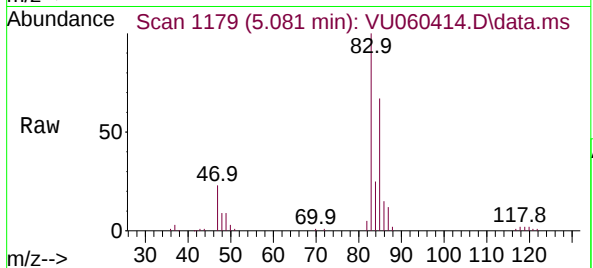
ClientSampleId :

Tgt Ion: 83 Resp: 67474

Ion Ratio Lower Upper

83 100

85 67.5 45.6 84.6



#27

1,2-Dichloroethane

Concen: 5.652 ug/L

RT: 5.788 min Scan# 1399

Delta R.T. 0.000 min

Lab File: VU060414.D

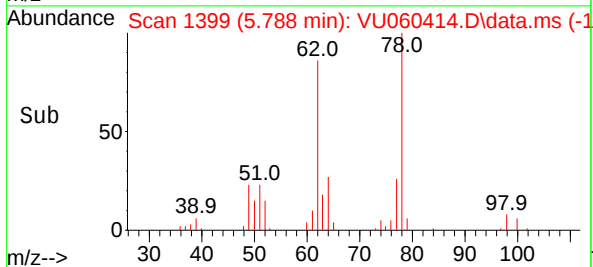
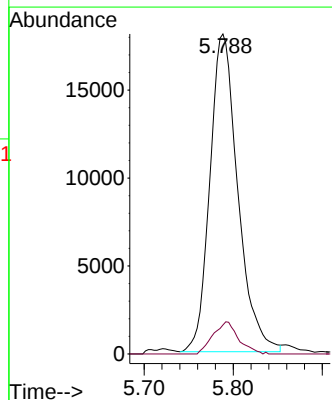
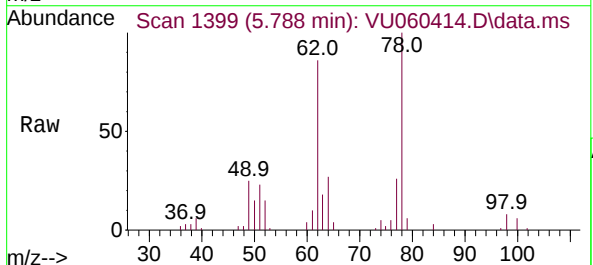
Acq: 13 Aug 2024 09:48

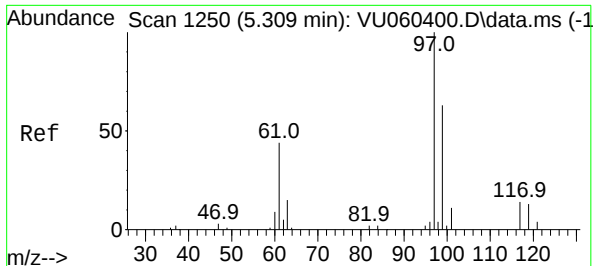
Tgt Ion: 62 Resp: 39401

Ion Ratio Lower Upper

62 100

98 9.1 9.0 13.6

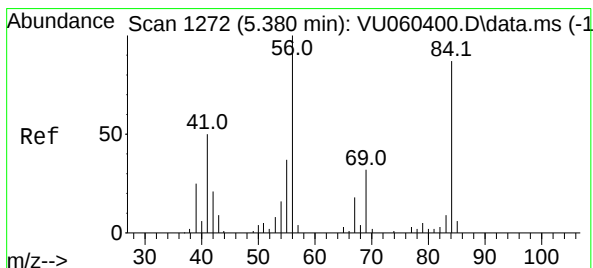
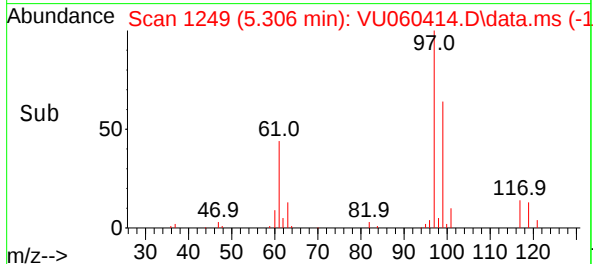
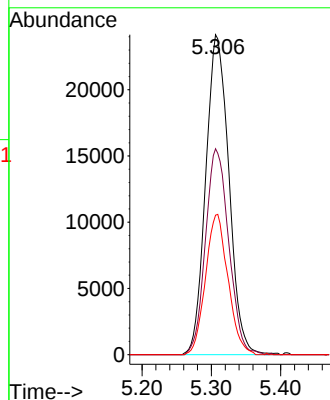
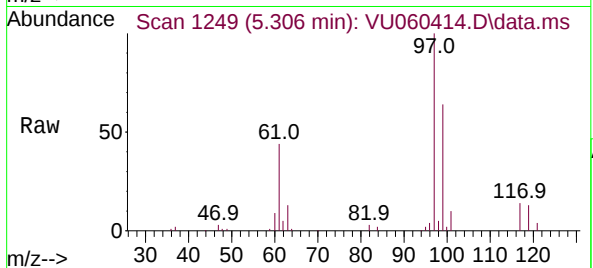




#29  
1,1,1-Trichloroethane  
Concen: 5.434 ug/L  
RT: 5.306 min Scan# 1249  
Delta R.T. -0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

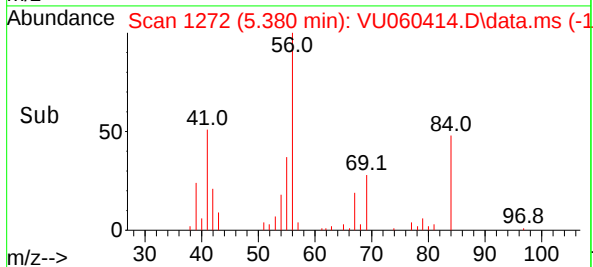
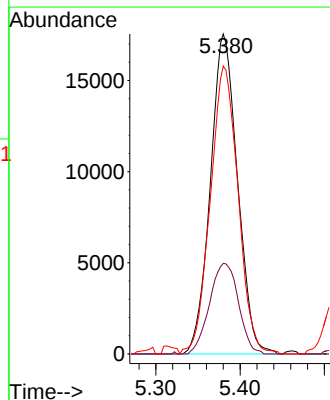
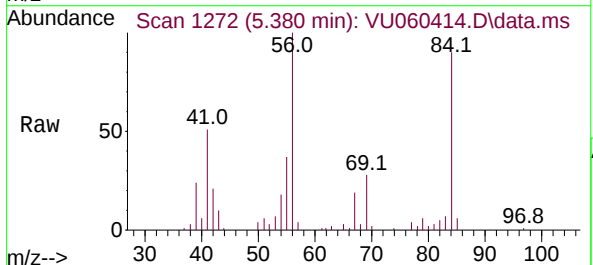
Instrument :  
MSVOA\_U  
ClientSampleId :

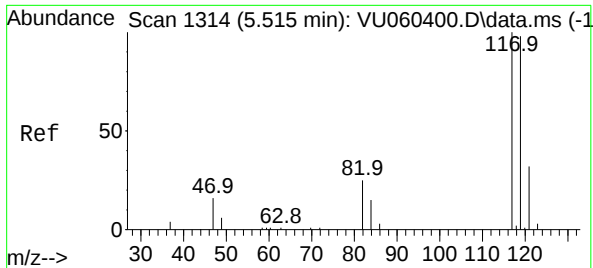
Tgt Ion: 97 Resp: 56081  
Ion Ratio Lower Upper  
97 100  
99 64.7 51.4 77.2  
61 42.6 33.0 49.6



#30  
Cyclohexane  
Concen: 4.697 ug/L  
RT: 5.380 min Scan# 1272  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 56 Resp: 39246  
Ion Ratio Lower Upper  
56 100  
69 30.1 24.7 37.1  
84 91.9 70.7 106.1

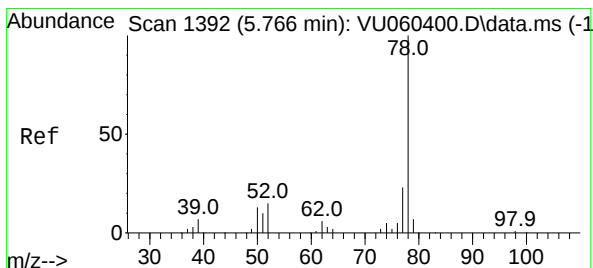
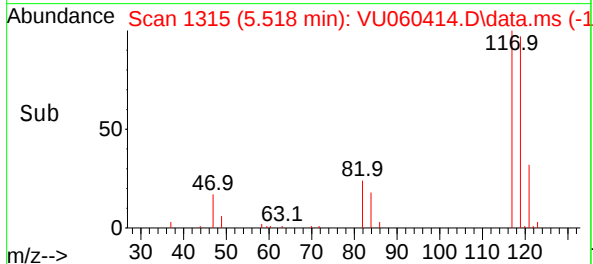
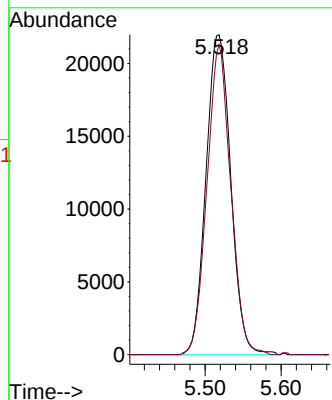
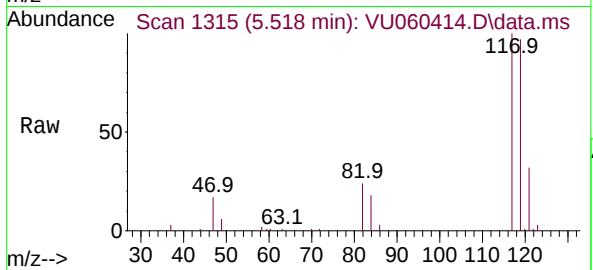




#31  
Carbon tetrachloride  
Concen: 5.491 ug/L  
RT: 5.518 min Scan# 1314  
Delta R.T. 0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

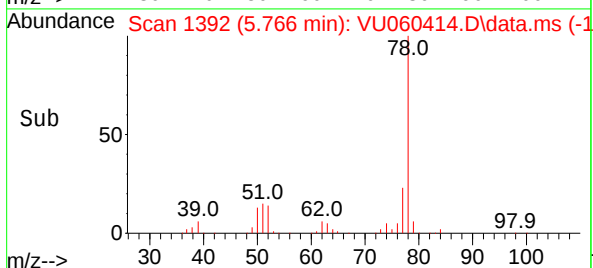
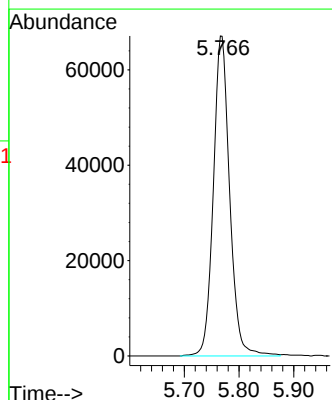
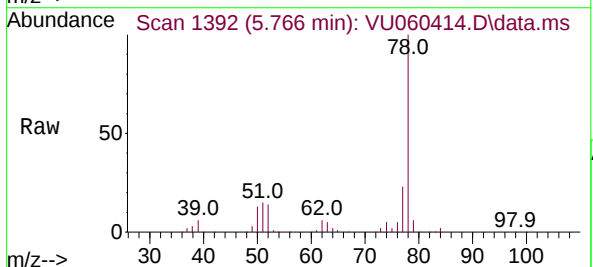
Instrument :  
MSVOA\_U  
ClientSampleId :

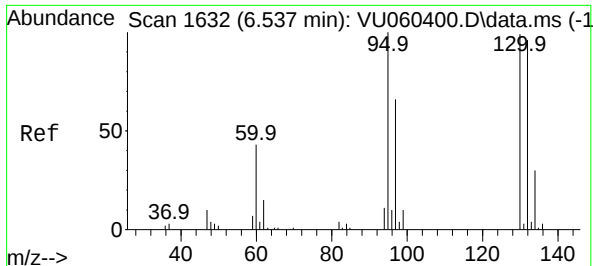
Tgt Ion:117 Resp: 49665  
Ion Ratio Lower Upper  
117 100  
119 93.0 75.8 113.8



#33  
Benzene  
Concen: 5.125 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 78 Resp: 139098





#34

Trichloroethene

Concen: 5.197 ug/L

RT: 6.537 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 95 Resp: 36926

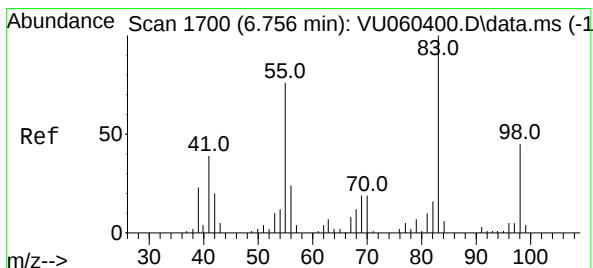
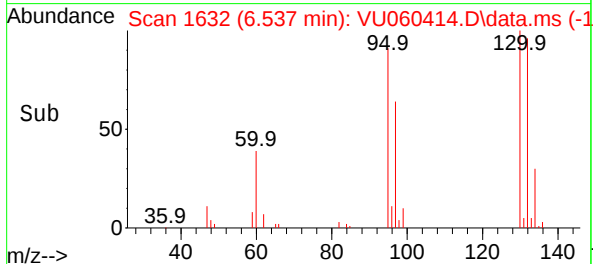
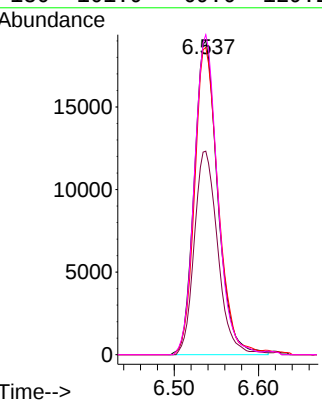
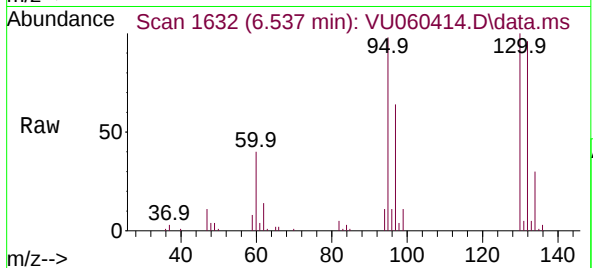
Ion Ratio Lower Upper

95 100

97 64.9 43.6 81.0

132 97.9 67.1 124.5

130 101.9 69.6 129.2



#35

Methylcyclohexane

Concen: 4.621 ug/L

RT: 6.756 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

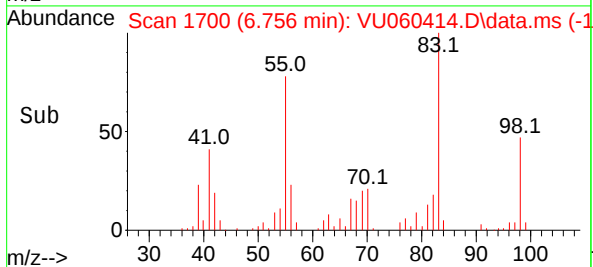
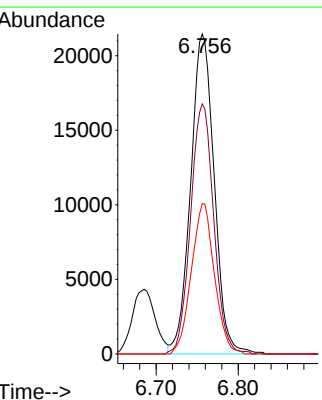
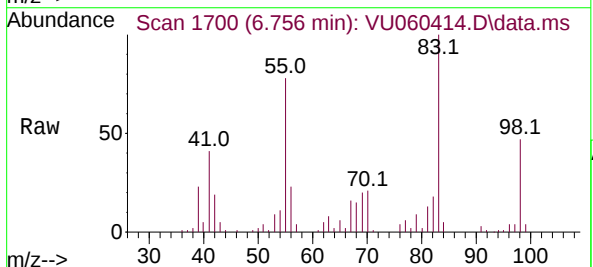
Tgt Ion: 83 Resp: 42872

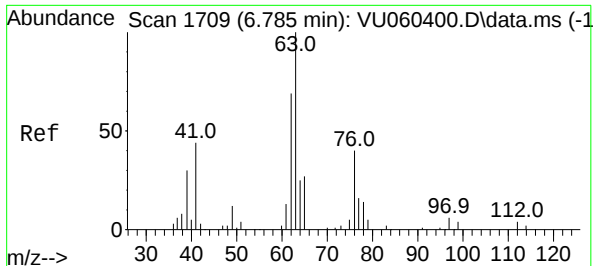
Ion Ratio Lower Upper

83 100

55 76.6 62.4 93.6

98 46.0 37.3 55.9

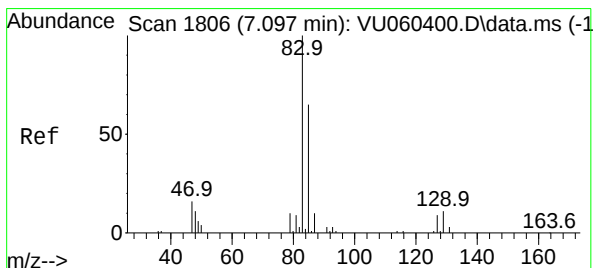
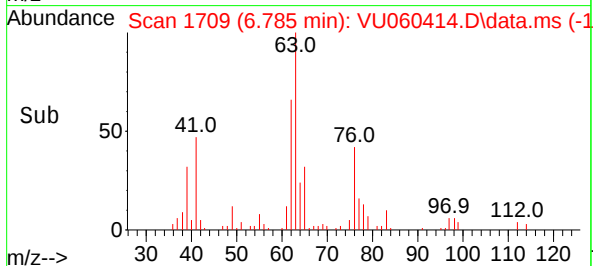
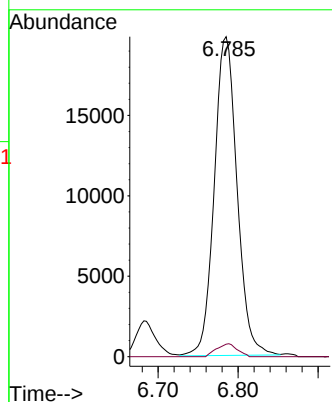
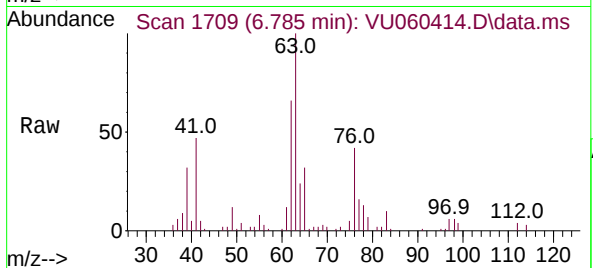




#37  
1,2-Dichloropropane  
Concen: 5.307 ug/L  
RT: 6.785 min Scan# 1709  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

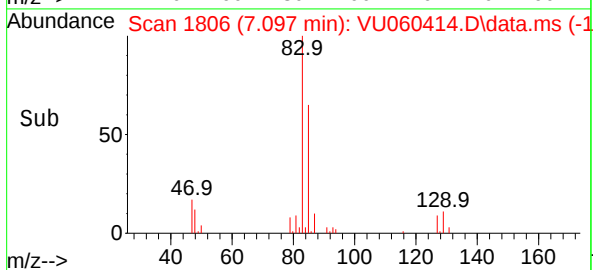
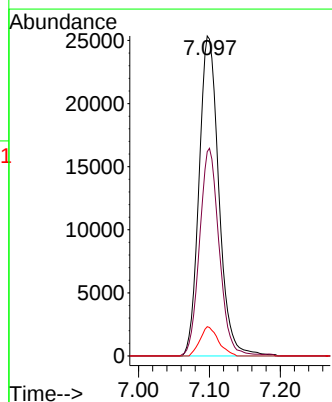
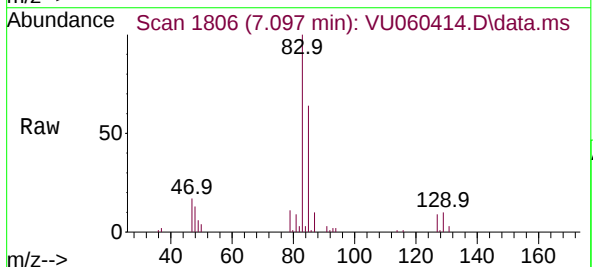
Instrument :  
MSVOA\_U  
ClientSampleId :

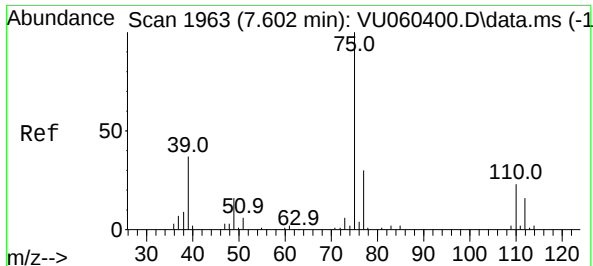
Tgt Ion: 63 Resp: 39203  
Ion Ratio Lower Upper  
63 100  
112 3.7 3.3 4.9



#38  
Bromodichloromethane  
Concen: 5.382 ug/L  
RT: 7.097 min Scan# 1806  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 83 Resp: 49143  
Ion Ratio Lower Upper  
83 100  
85 63.9 42.4 78.8  
127 9.2 7.0 10.4

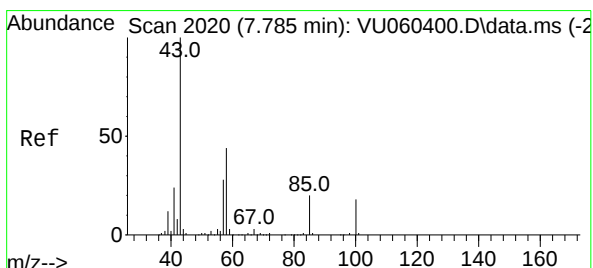
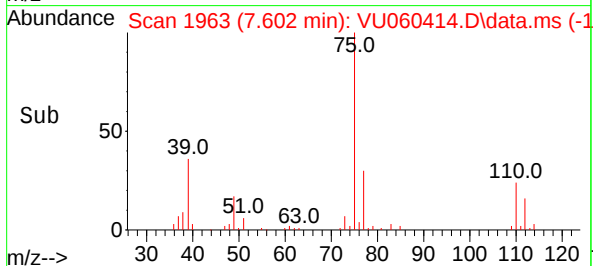
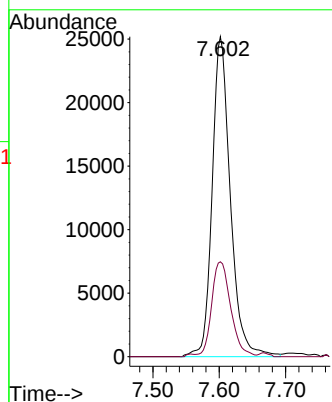
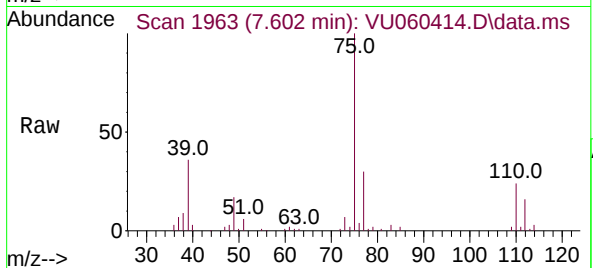




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.779 ug/L  
 RT: 7.602 min Scan# 1963  
 Delta R.T. 0.000 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

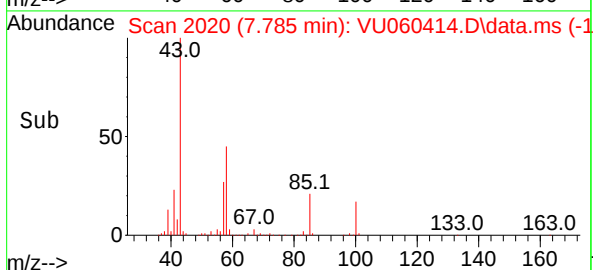
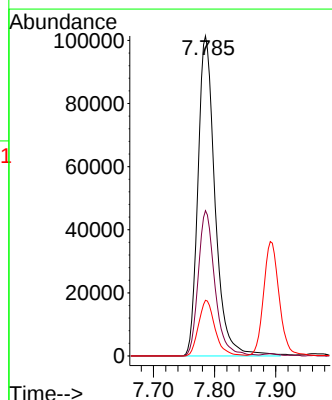
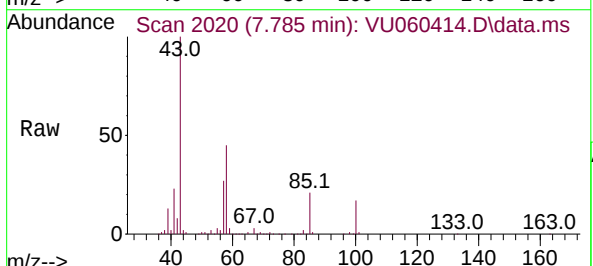
Instrument :  
 MSVOA\_U  
 ClientSampleId :

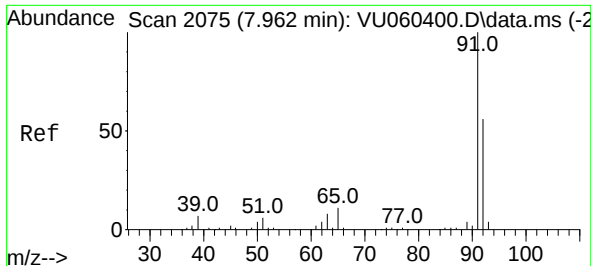
Tgt Ion: 75 Resp: 47952  
 Ion Ratio Lower Upper  
 75 100  
 77 29.6 22.5 41.9



#40  
 4-Methyl-2-pentanone  
 Concen: 57.073 ug/L  
 RT: 7.785 min Scan# 2020  
 Delta R.T. 0.000 min  
 Lab File: VU060414.D  
 Acq: 13 Aug 2024 09:48

Tgt Ion: 43 Resp: 196806  
 Ion Ratio Lower Upper  
 43 100  
 58 44.3 36.6 55.0  
 100 16.8 14.1 21.1





#42

Toluene

Concen: 5.224 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

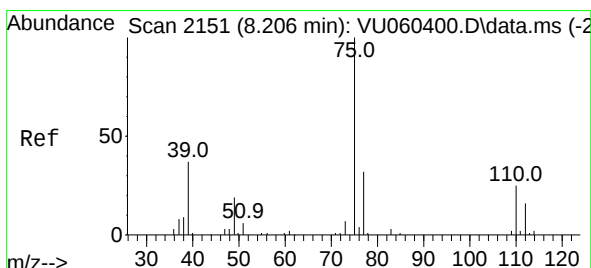
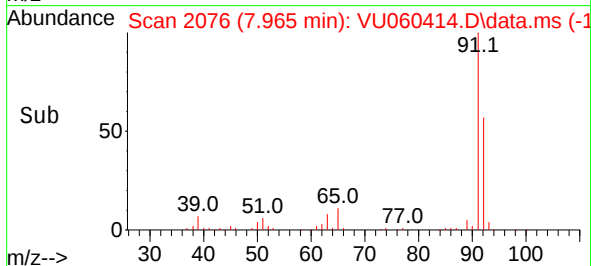
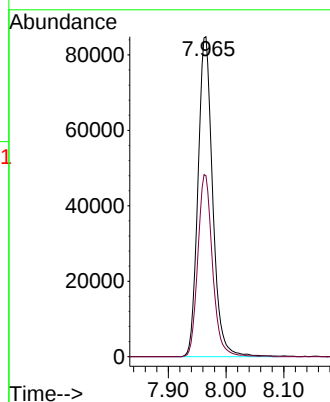
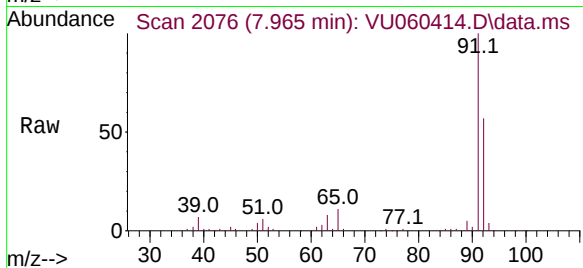
ClientSampleId :

Tgt Ion: 91 Resp: 149841

Ion Ratio Lower Upper

91 100

92 56.6 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 4.929 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. 0.000 min

Lab File: VU060414.D

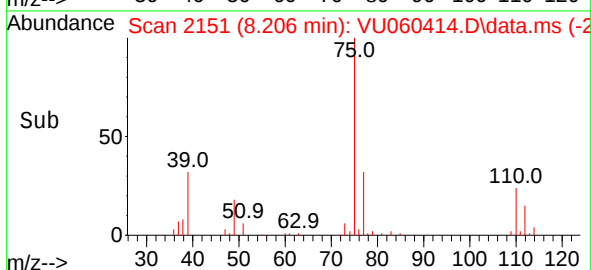
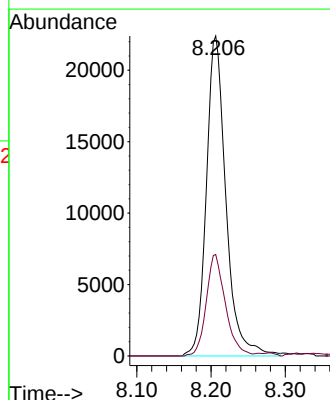
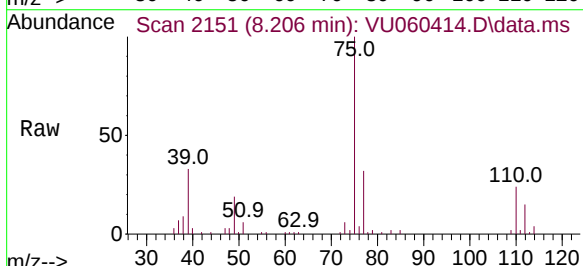
Acq: 13 Aug 2024 09:48

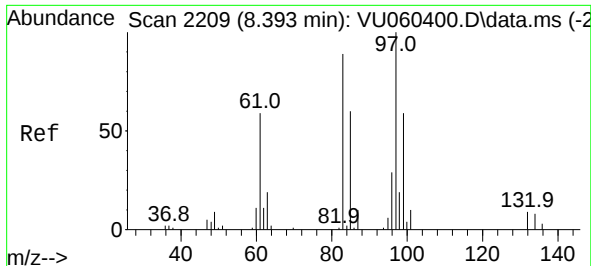
Tgt Ion: 75 Resp: 40853

Ion Ratio Lower Upper

75 100

77 31.7 25.0 46.4





#45

1,1,2-Trichloroethane

Concen: 5.124 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 97 Resp: 28991

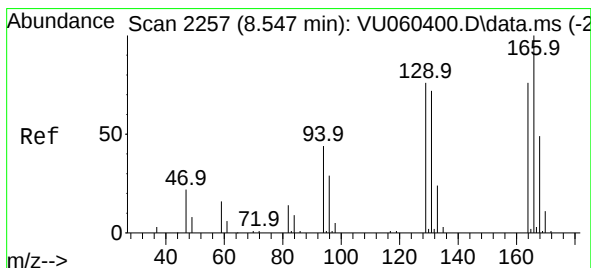
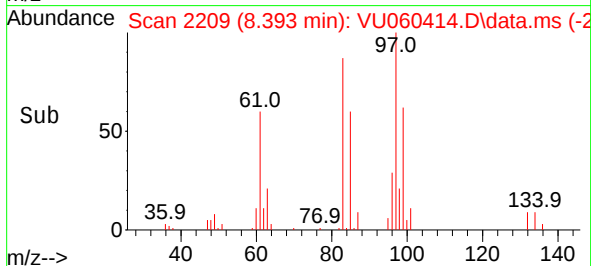
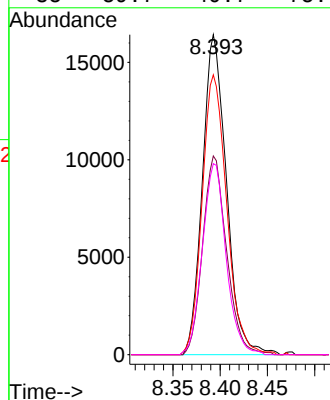
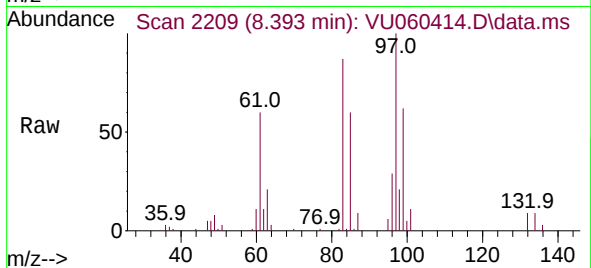
Ion Ratio Lower Upper

97 100

99 62.1 45.8 85.0

83 87.4 61.7 114.5

85 59.7 40.7 75.7



#47

Tetrachloroethene

Concen: 4.976 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Tgt Ion:164 Resp: 27656

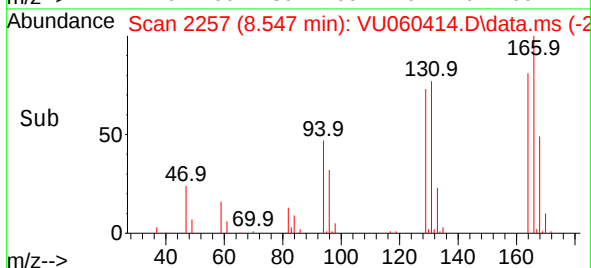
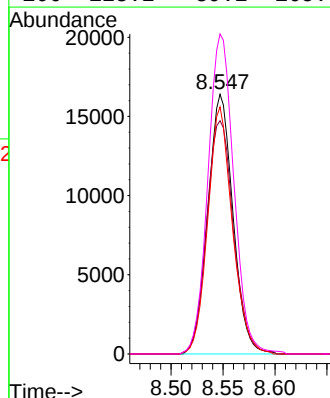
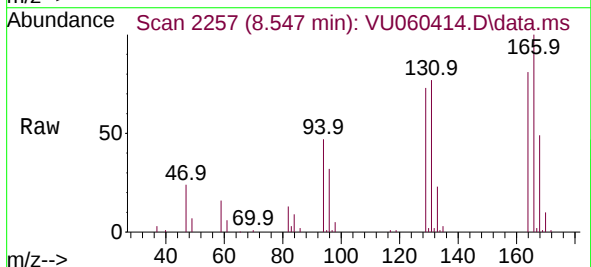
Ion Ratio Lower Upper

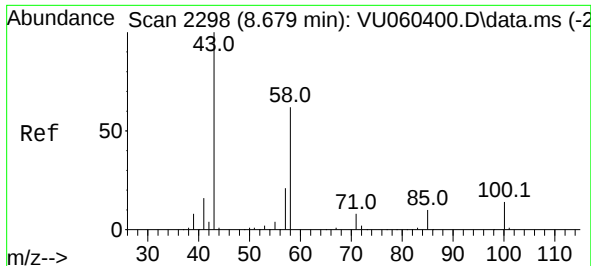
164 100

129 89.8 69.0 128.1

131 95.1 62.6 116.3

166 123.2 89.2 165.8





#48

2-Hexanone

Concen: 55.845 ug/L

RT: 8.679 min Scan# 2298

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 43 Resp: 145984

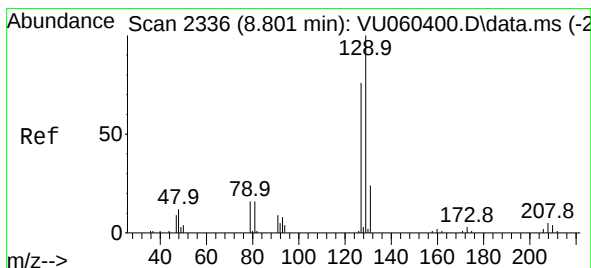
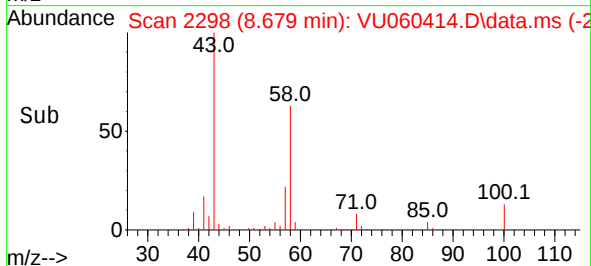
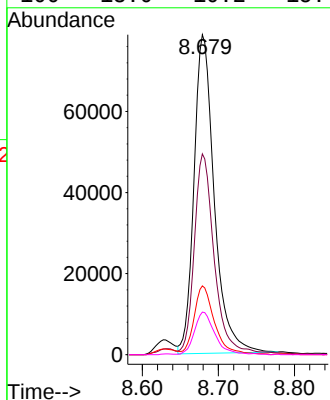
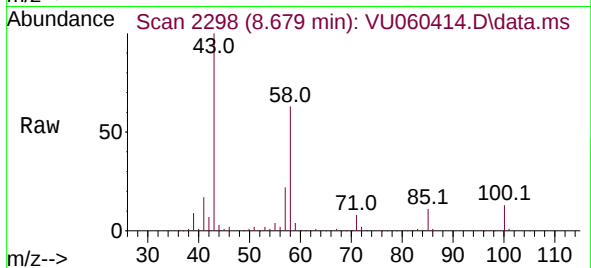
Ion Ratio Lower Upper

43 100

58 63.1 50.9 76.3

57 21.8 17.4 26.0

100 13.0 10.2 15.4



#49

Dibromochloromethane

Concen: 5.512 ug/L

RT: 8.801 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VU060414.D

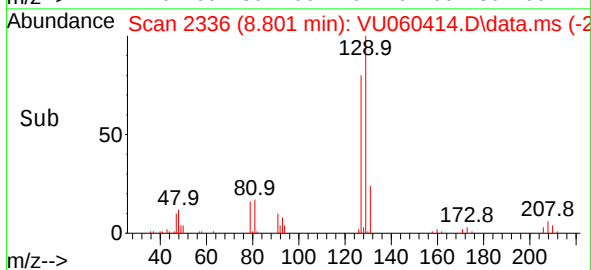
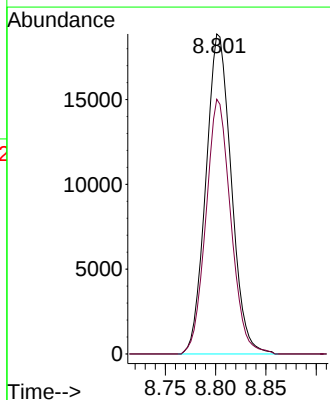
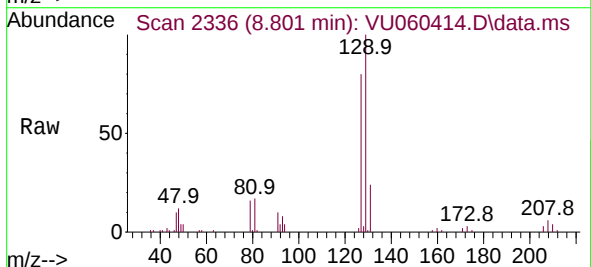
Acq: 13 Aug 2024 09:48

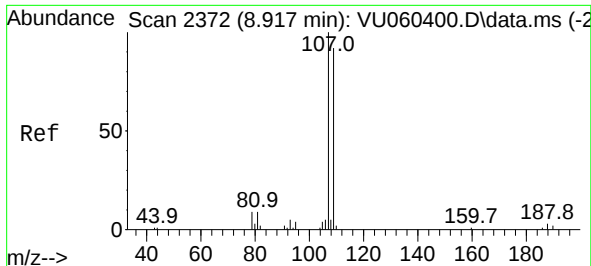
Tgt Ion: 129 Resp: 33163

Ion Ratio Lower Upper

129 100

127 79.6 51.9 96.3

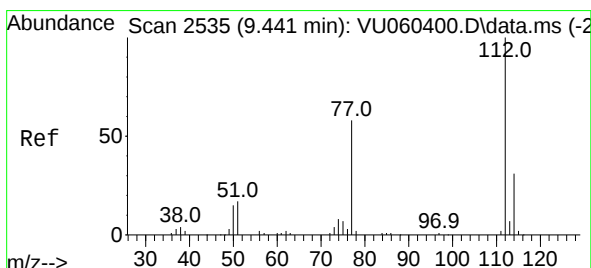
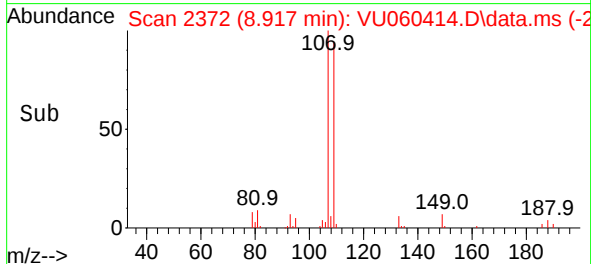
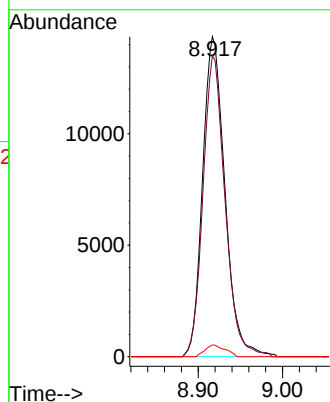
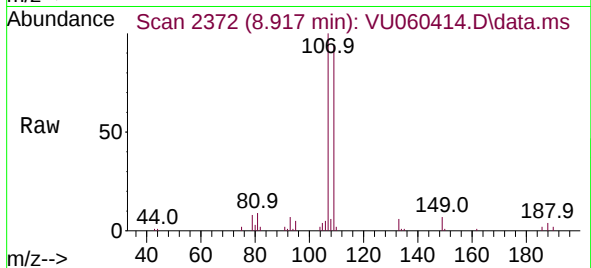




#50  
1,2-Dibromoethane  
Concen: 5.248 ug/L  
RT: 8.917 min Scan# 2372  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

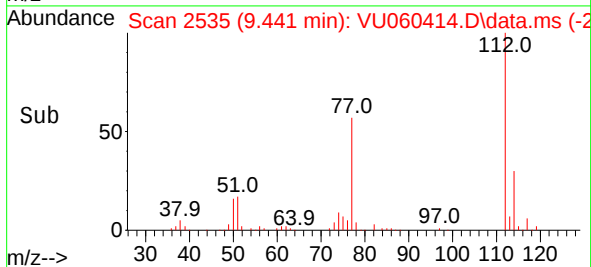
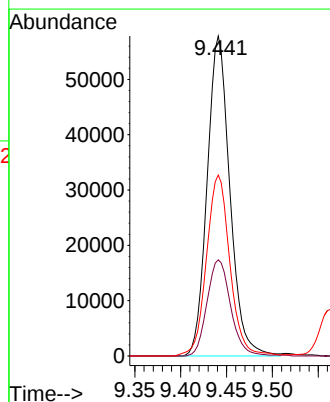
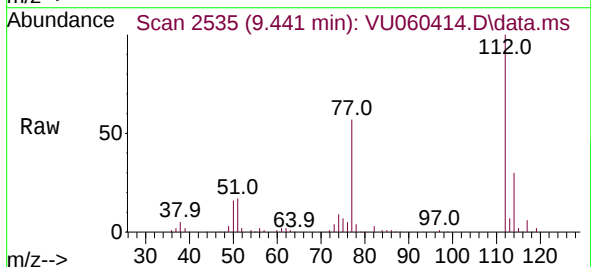
Instrument :  
MSVOA\_U  
ClientSampleId :

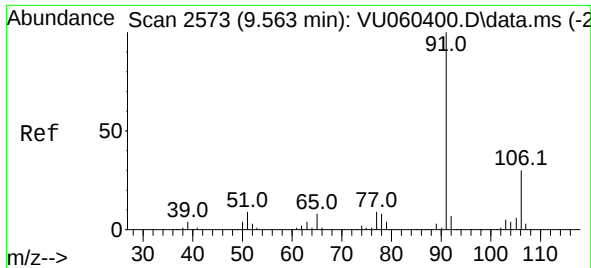
Tgt Ion:107 Resp: 26432  
Ion Ratio Lower Upper  
107 100  
109 94.0 64.8 120.3  
188 3.6 2.6 3.8



#51  
Chlorobenzene  
Concen: 5.154 ug/L  
RT: 9.441 min Scan# 2535  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion:112 Resp: 99723  
Ion Ratio Lower Upper  
112 100  
114 30.1 21.3 39.5  
77 56.5 44.6 67.0

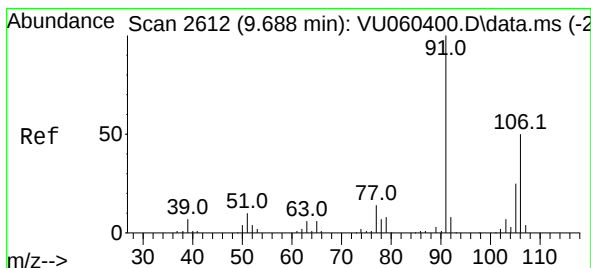
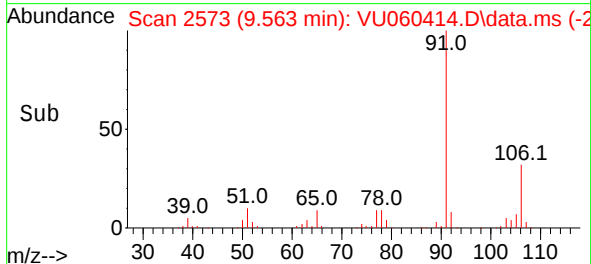
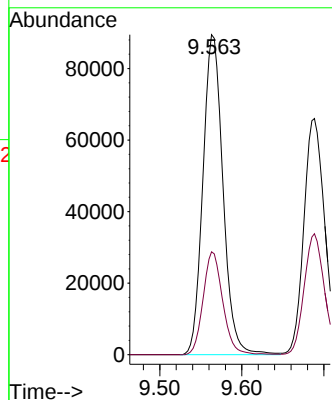
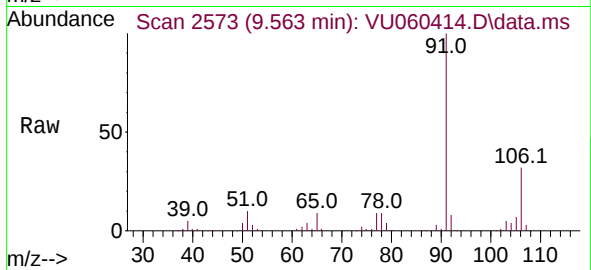




#52  
Ethylbenzene  
Concen: 5.028 ug/L  
RT: 9.563 min Scan# 2573  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

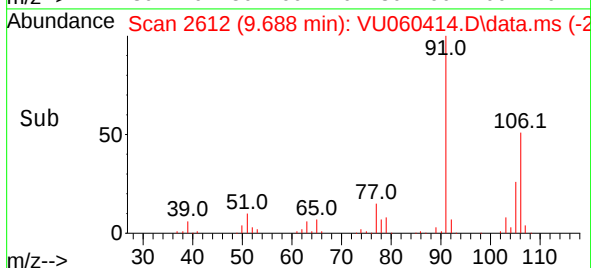
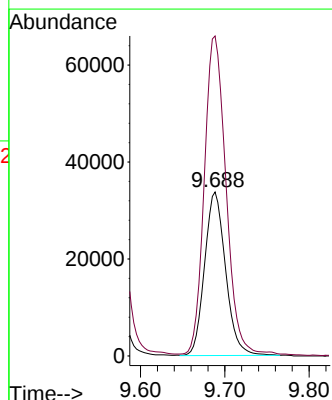
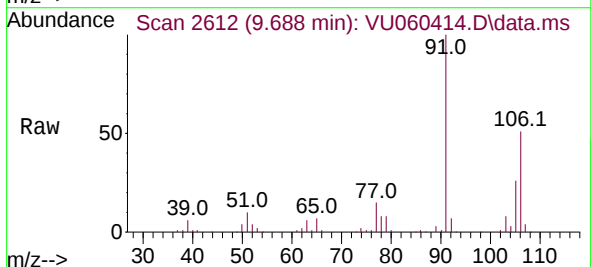
Instrument :  
MSVOA\_U  
ClientSampleId :

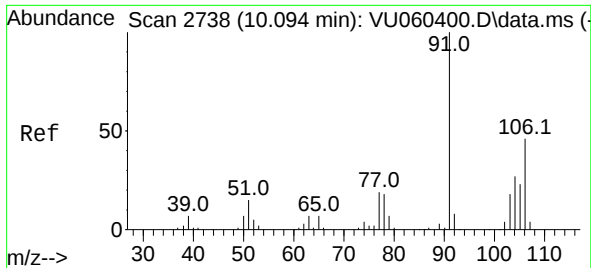
Tgt Ion: 91 Resp: 151922  
Ion Ratio Lower Upper  
91 100  
106 32.1 21.6 40.2



#53  
m,p-Xylene  
Concen: 5.107 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 106 Resp: 58649  
Ion Ratio Lower Upper  
106 100  
91 195.2 143.2 266.0

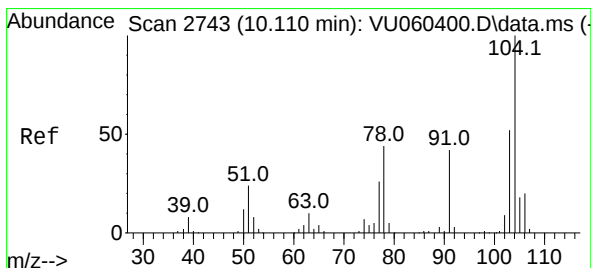
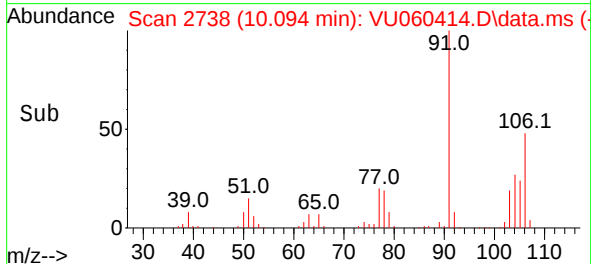
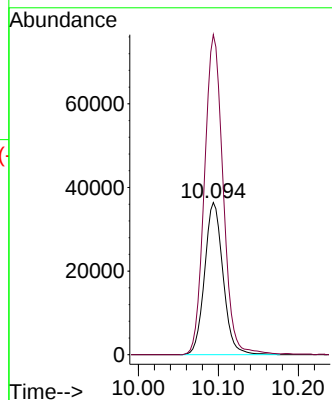
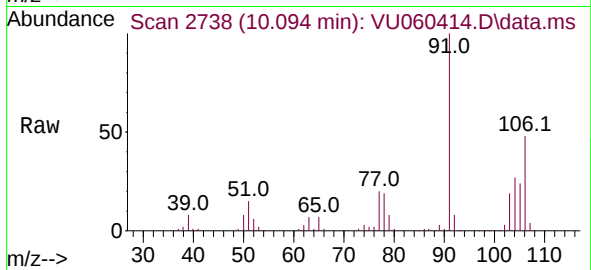




#54  
o-Xylene  
Concen: 5.319 ug/L  
RT: 10.094 min Scan# 2738  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

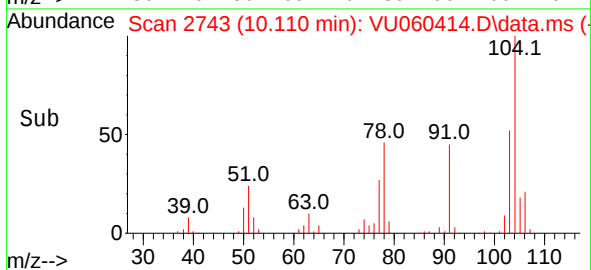
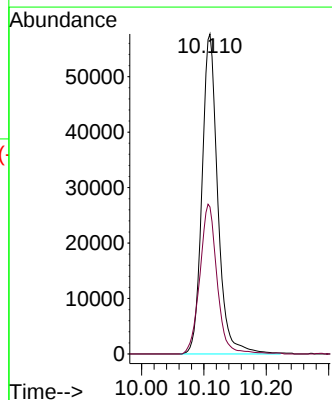
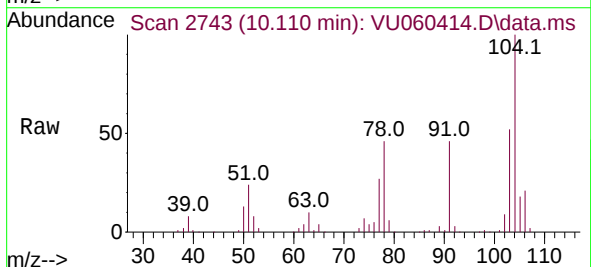
Instrument :  
MSVOA\_U  
ClientSampleId :

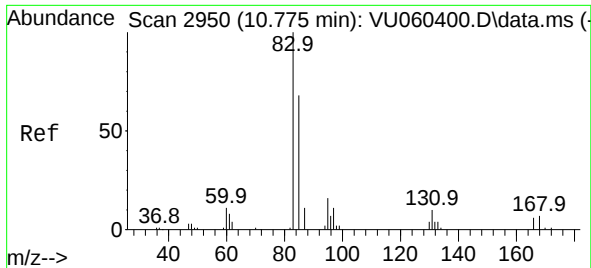
Tgt Ion:106 Resp: 58455  
Ion Ratio Lower Upper  
106 100  
91 210.4 150.2 279.0



#55  
Styrene  
Concen: 5.338 ug/L  
RT: 10.110 min Scan# 2743  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion:104 Resp: 101493  
Ion Ratio Lower Upper  
104 100  
78 45.9 32.1 59.7





#57

1,1,2,2-Tetrachloroethane

Concen: 5.039 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. 0.000 min

Lab File: VU060414.D

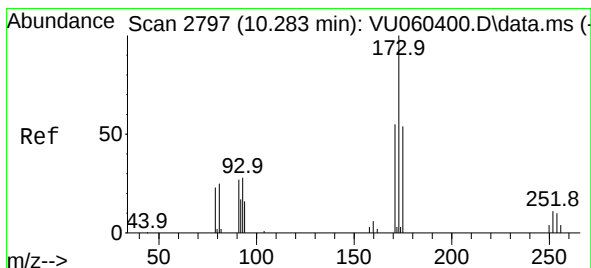
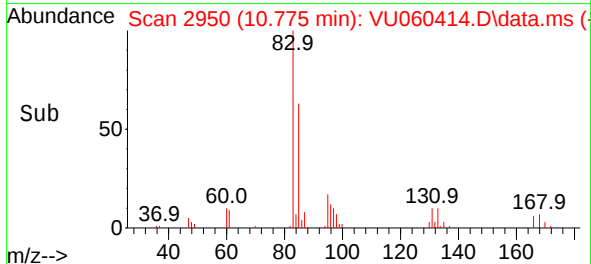
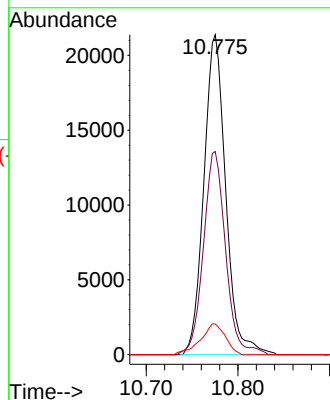
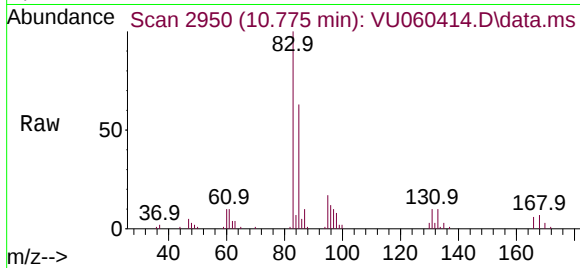
Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 35453 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.5  | 46.1  | 85.5  |
| 131      | 9.6   | 7.6   | 11.4  |



#59

Bromoform

Concen: 5.444 ug/L

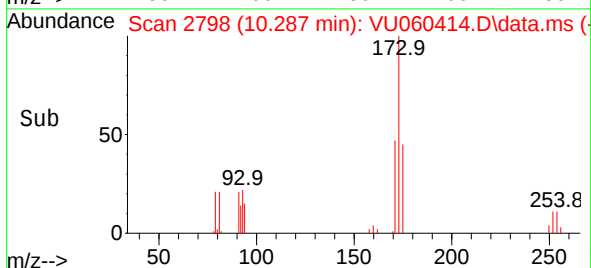
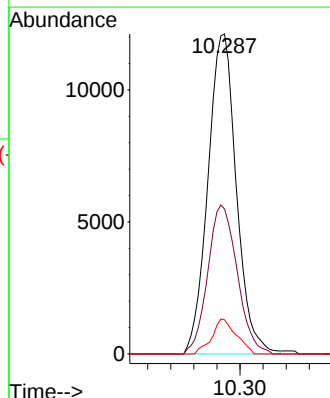
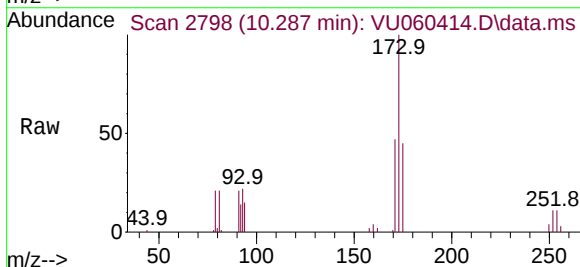
RT: 10.287 min Scan# 2798

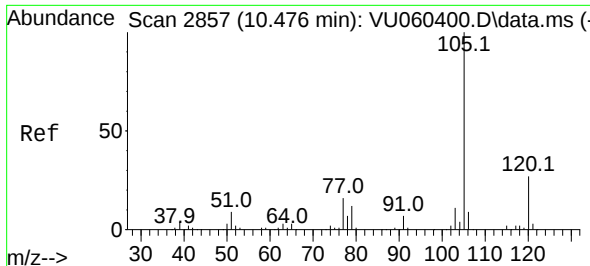
Delta R.T. 0.003 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 20717 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 48.3  | 39.7  | 59.5  |
| 254      | 9.3   | 8.2   | 12.4  |

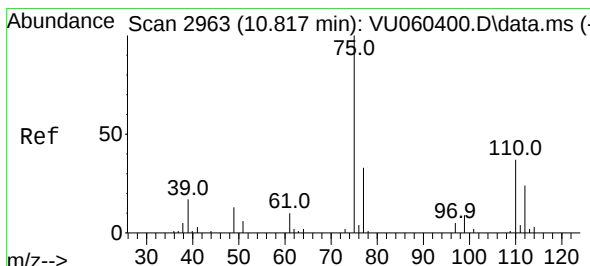
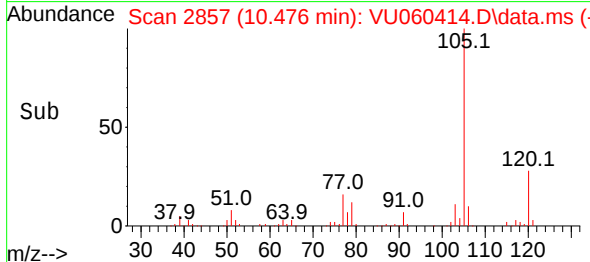
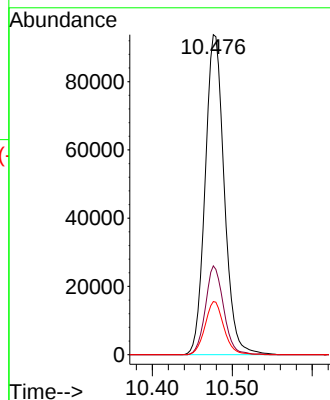
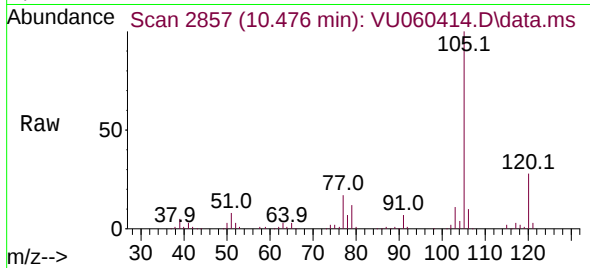




#60  
Isopropylbenzene  
Concen: 5.148 ug/L  
RT: 10.476 min Scan# 2857  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

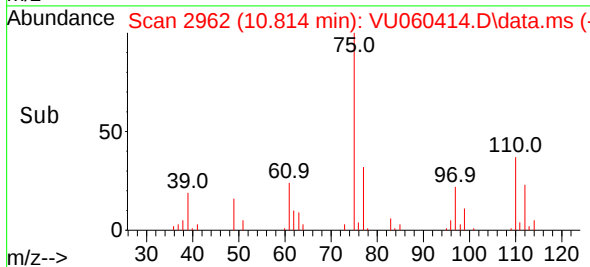
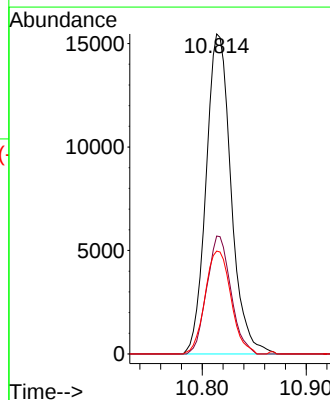
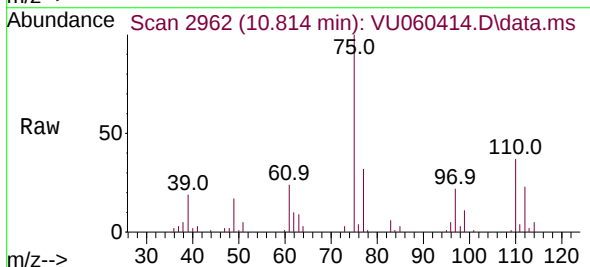
Instrument :  
MSVOA\_U  
ClientSampleId :

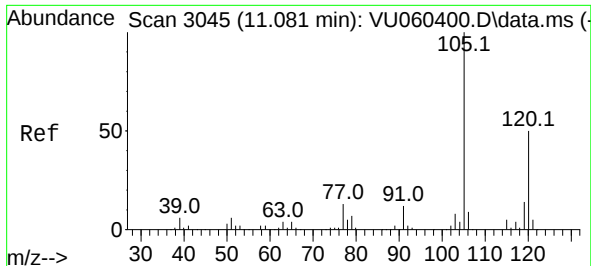
Tgt Ion:105 Resp: 155767  
Ion Ratio Lower Upper  
105 100  
120 26.4 21.0 31.6  
77 16.4 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 5.326 ug/L  
RT: 10.814 min Scan# 2962  
Delta R.T. -0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 75 Resp: 25843  
Ion Ratio Lower Upper  
75 100  
110 35.5 29.9 44.9  
77 33.2 27.0 40.6





#62

1,3,5-Trimethylbenzene

Concen: 5.189 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

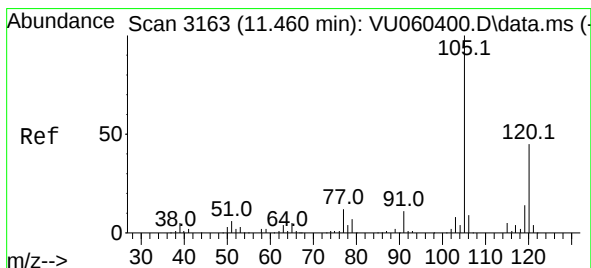
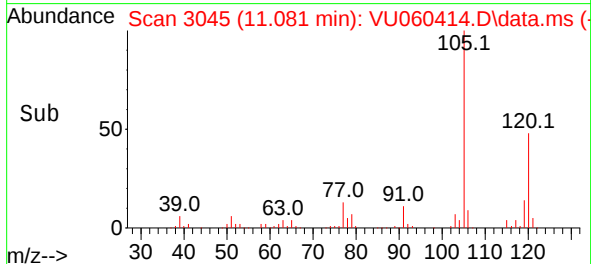
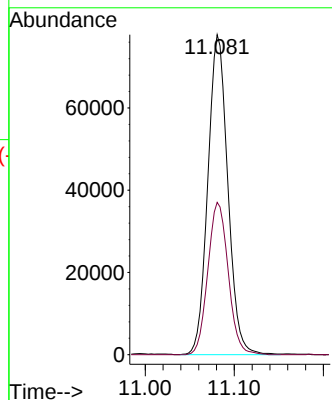
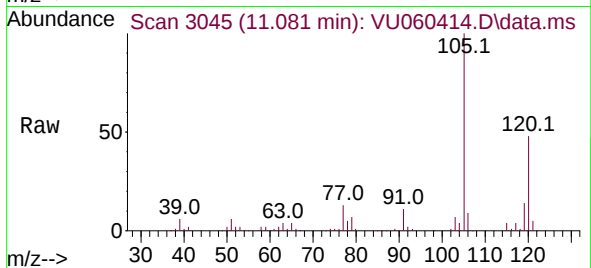
ClientSampleId :

Tgt Ion:105 Resp: 120870

Ion Ratio Lower Upper

105 100

120 48.6 39.3 58.9



#63

1,2,4-Trimethylbenzene

Concen: 5.159 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VU060414.D

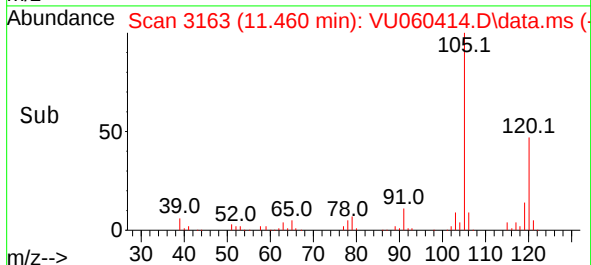
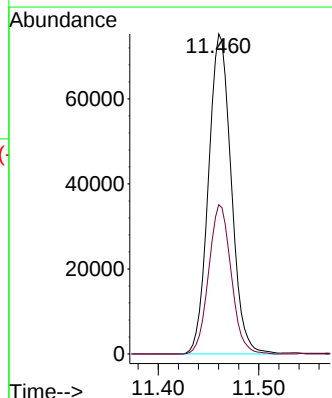
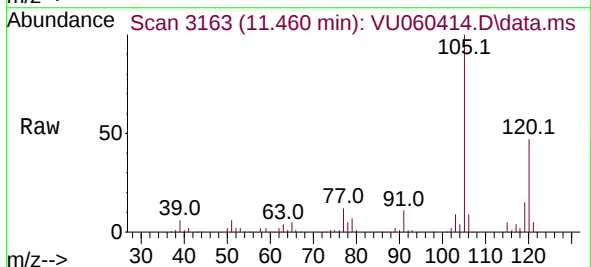
Acq: 13 Aug 2024 09:48

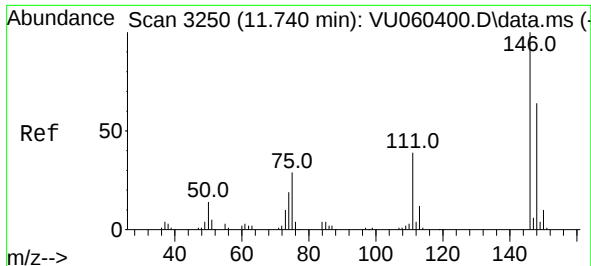
Tgt Ion:105 Resp: 118430

Ion Ratio Lower Upper

105 100

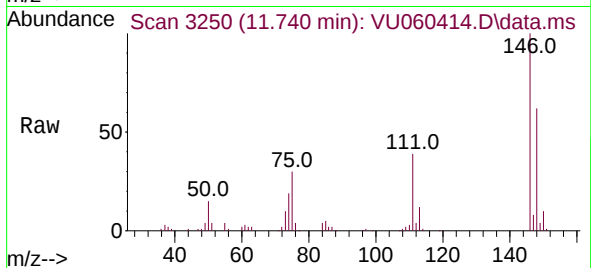
120 46.1 36.1 54.1



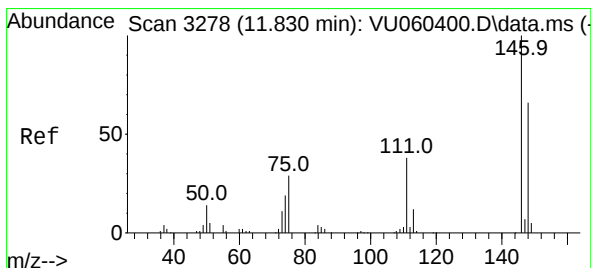
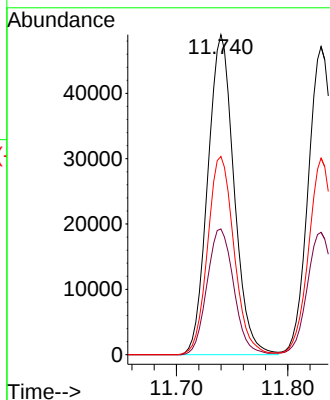
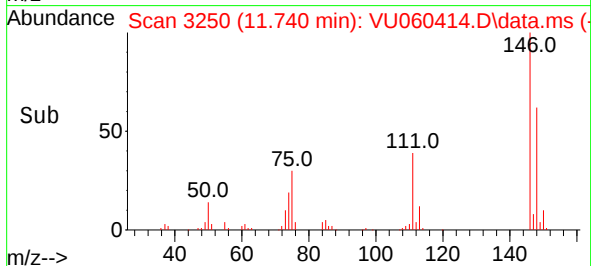


#64  
1,3-Dichlorobenzene  
Concen: 5.207 ug/L  
RT: 11.740 min Scan# 3250  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

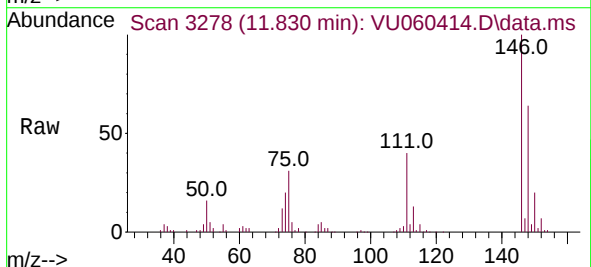
Instrument :  
MSVOA\_U  
ClientSampleId :



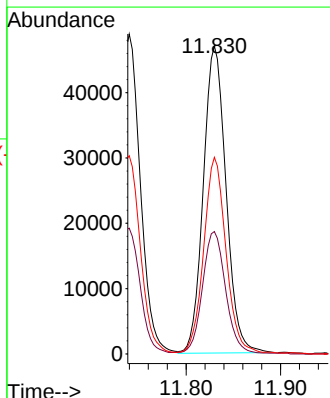
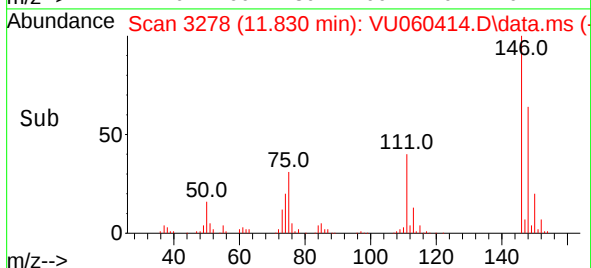
Tgt Ion:146 Resp: 80292  
Ion Ratio Lower Upper  
146 100  
111 39.3 29.2 54.2  
148 61.9 44.9 83.3

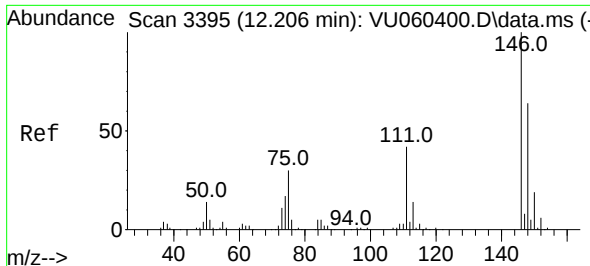


#65  
1,4-Dichlorobenzene  
Concen: 5.046 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48



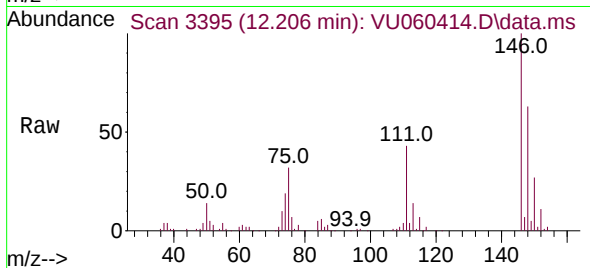
Tgt Ion:146 Resp: 78435  
Ion Ratio Lower Upper  
146 100  
111 39.7 25.8 48.0  
148 63.8 44.0 81.6



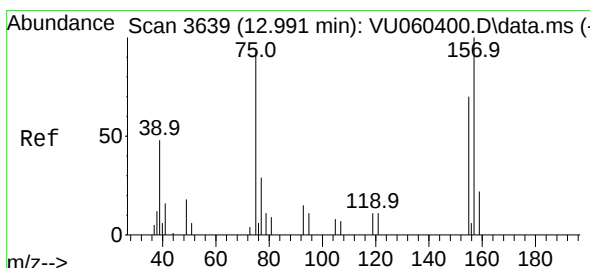
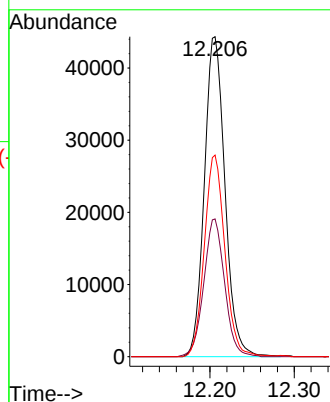
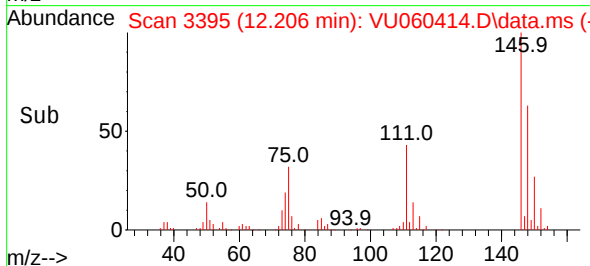


#67  
1,2-Dichlorobenzene  
Concen: 5.190 ug/L  
RT: 12.206 min Scan# 3395  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Instrument :  
MSVOA\_U  
ClientSampleId :

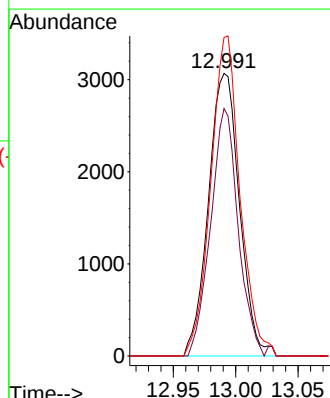
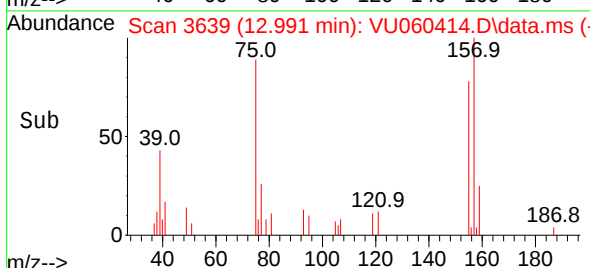
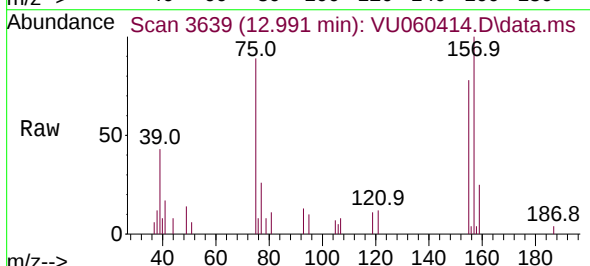


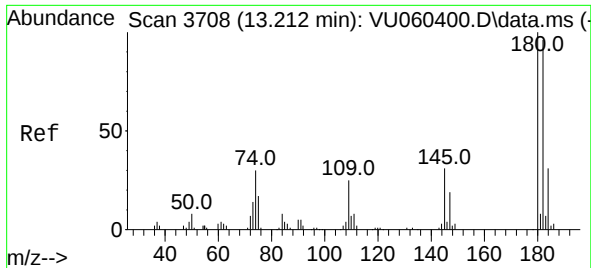
Tgt Ion:146 Resp: 75568  
Ion Ratio Lower Upper  
146 100  
111 43.0 32.0 48.0  
148 63.0 51.8 77.8



#68  
1,2-Dibromo-3-chloropropane  
Concen: 5.860 ug/L  
RT: 12.991 min Scan# 3639  
Delta R.T. 0.000 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion: 75 Resp: 5330  
Ion Ratio Lower Upper  
75 100  
155 87.6 64.3 96.5  
157 112.7 88.0 132.0





#69

1,3,5-Trichlorobenzene

Concen: 4.685 ug/L

RT: 13.212 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion:180 Resp: 54594

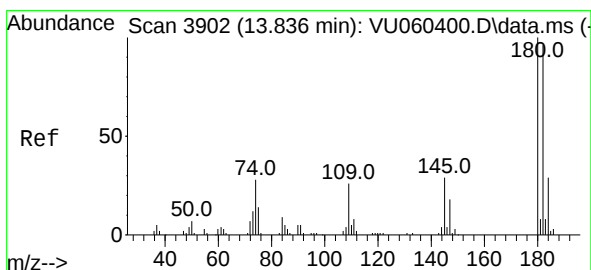
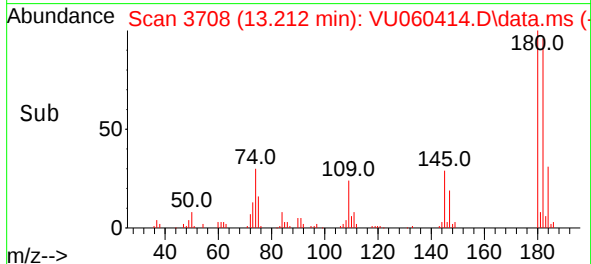
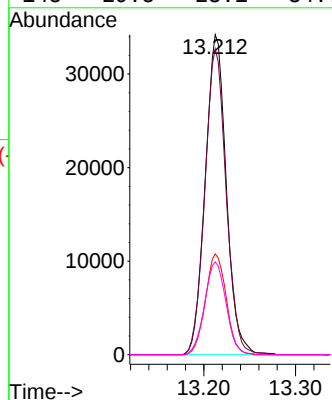
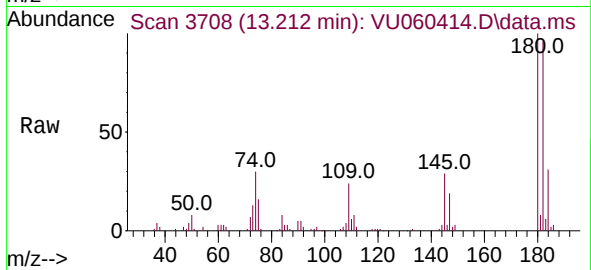
Ion Ratio Lower Upper

180 100

182 96.3 76.0 114.0

184 31.0 23.8 35.8

145 29.5 23.1 34.7



#70

1,2,4-trichlorobenzene

Concen: 4.487 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. -0.003 min

Lab File: VU060414.D

Acq: 13 Aug 2024 09:48

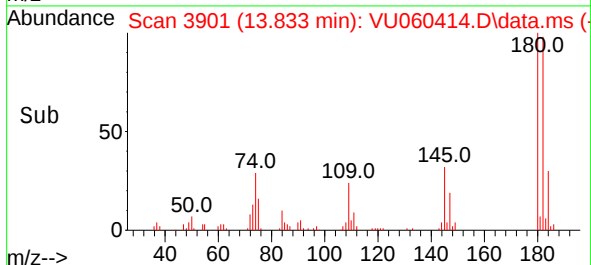
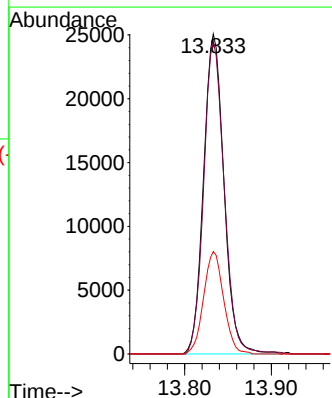
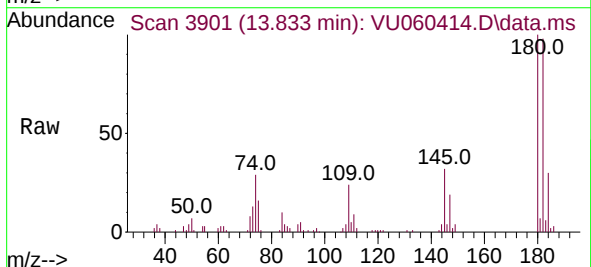
Tgt Ion:180 Resp: 41051

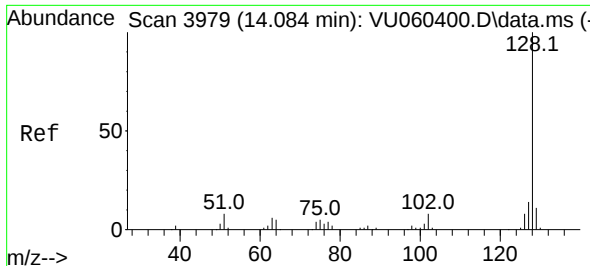
Ion Ratio Lower Upper

180 100

182 97.5 76.0 114.0

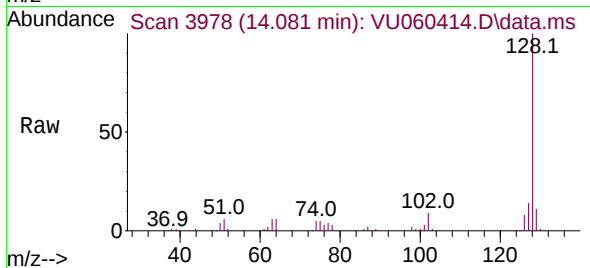
145 31.4 23.7 35.5



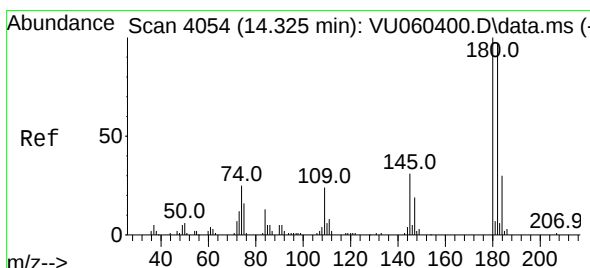
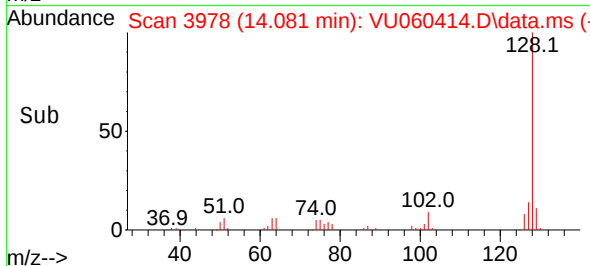
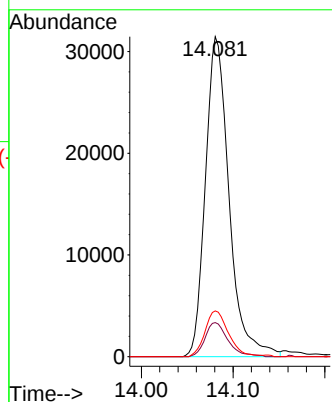


#71  
Naphthalene  
Concen: 4.339 ug/L  
RT: 14.081 min Scan# 3979  
Delta R.T. -0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 56451  
Ion Ratio Lower Upper  
128 100  
129 10.3 8.6 12.8  
127 14.2 10.6 16.0



#72  
1,2,3-Trichlorobenzene  
Concen: 4.418 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. -0.003 min  
Lab File: VU060414.D  
Acq: 13 Aug 2024 09:48

Tgt Ion:180 Resp: 36216  
Ion Ratio Lower Upper  
180 100  
182 100.1 75.7 113.5  
145 33.4 23.7 35.5

