

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW101923\  
 Data File : VW032506.D  
 Acq On : 19 Oct 2023 18:54  
 Operator : SY/MD  
 Sample : 04950-21MS  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 20 06:25:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 20 06:17:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535  | 114   | 96761    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789  | 117   | 107170   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188 | 152   | 55783    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 35077    | 4.457    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 89.200%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 32782    | 5.132    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 102.600% |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 14407    | 4.341    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 86.800%  |
| 20) 2-Butanone-d5             | 3.802  | 46    | 92190    | 46.310   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 92.620%  |
| 24) Chloroform-d              | 4.252  | 84    | 66413    | 4.784    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.600%  |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 33485    | 5.092    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.800% |
| 32) Benzene-d6                | 4.963  | 84    | 124318   | 3.942    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 78.800%  |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 39945    | 3.823    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 76.400%  |
| 41) Toluene-d8                | 7.246  | 98    | 119688   | 4.151    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 83.000%  |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 15140    | 4.089    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 81.800%  |
| 46) 2-Hexanone-d5             | 8.027  | 63    | 80945    | 46.467   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 92.940%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156 | 84    | 34952    | 4.783    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 95.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 44661    | 4.314    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 86.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 55167    | 5.116    | ug/L   | 99       |
| 3) Chloromethane              | 1.217  | 50    | 58616    | 5.392    | ug/L   | 100      |
| 5) Vinyl chloride             | 1.282  | 62    | 56668    | 5.466    | ug/L   | 99       |
| 6) Bromomethane               | 1.487  | 94    | 29287    | 4.676    | ug/L   | 95       |
| 8) Chloroethane               | 1.548  | 64    | 36512    | 5.850    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.716  | 101   | 71241    | 5.730    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101   | 40816    | 5.418    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 38891    | 5.480    | ug/L   | 92       |
| 13) Acetone                   | 2.130  | 43    | 72160    | 47.030   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.243  | 76    | 109548   | 4.416    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.384  | 43    | 16237    | 4.701    | ug/L   | 95       |
| 16) Methylene chloride        | 2.449  | 84    | 43627    | 4.715    | ug/L   | 93       |
| 17) Methyl tert-butyl Ether   | 2.706  | 73    | 95909    | 4.964    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 39243    | 4.828    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.114  | 63    | 81756    | 5.347    | ug/L   | 99       |
| 21) 2-Butanone                | 3.880  | 43    | 112292   | 46.800   | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 3.815  | 96    | 43368    | 4.955    | ug/L   | 96       |
| 23) Bromochloromethane        | 4.150  | 128   | 19278    | 5.236    | ug/L   | 94       |
| 25) Chloroform                | 4.278  | 83    | 84181    | 5.611    | ug/L   | 100      |

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 Sample : 04950-21MS  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

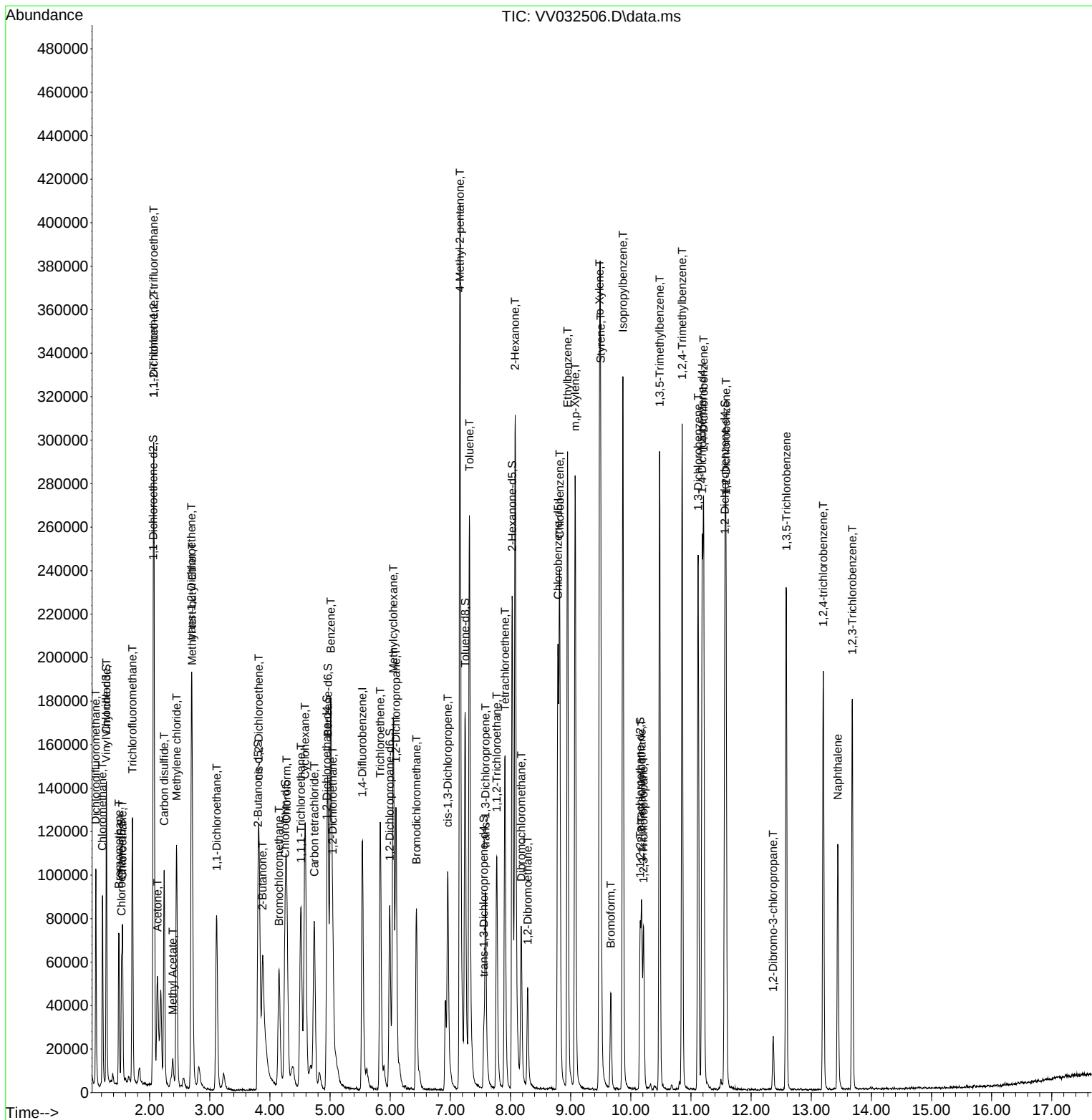
Instrument :  
 MSVOA\_V  
 ClientSampleId :

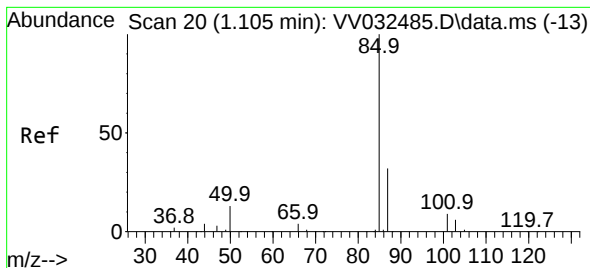
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 20 06:17:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 49230    | 5.554  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 4.516  | 97   | 68243    | 4.683  | ug/L  | 97       |
| 30) Cyclohexane               | 4.584  | 56   | 61879    | 3.865  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.738  | 117  | 58139    | 4.716  | ug/L  | 96       |
| 33) Benzene                   | 5.011  | 78   | 175956   | 4.663  | ug/L  | 100      |
| 34) Trichloroethene           | 5.834  | 95   | 43459    | 4.219  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.053  | 83   | 66755    | 4.188  | ug/L  | 96       |
| 37) 1,2-Dichloropropane       | 6.095  | 63   | 51588    | 5.112  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.436  | 83   | 61682    | 5.144  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.957  | 75   | 64199    | 4.471  | ug/L  | 95       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 300205   | 47.011 | ug/L  | 97       |
| 42) Toluene                   | 7.317  | 91   | 199625   | 4.963  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.584  | 75   | 53286    | 4.515  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97   | 35109    | 4.932  | ug/L  | 98       |
| 47) Tetrachloroethene         | 7.908  | 164  | 34876    | 4.465  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.079  | 43   | 212585   | 47.184 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.178  | 129  | 36959    | 4.987  | ug/L  | 91       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 32232    | 4.787  | ug/L  | 93       |
| 51) Chlorobenzene             | 8.818  | 112  | 123216   | 4.758  | ug/L  | 100      |
| 52) Ethylbenzene              | 8.950  | 91   | 205236   | 4.582  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.075  | 106  | 77609    | 4.672  | ug/L  | 98       |
| 54) o-Xylene                  | 9.481  | 106  | 75432    | 4.713  | ug/L  | 96       |
| 55) Styrene                   | 9.500  | 104  | 131366   | 4.860  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.182 | 83   | 40406    | 5.159  | ug/L  | 97       |
| 59) Bromoform                 | 9.667  | 173  | 19457    | 4.797  | ug/L  | 97       |
| 60) Isopropylbenzene          | 9.870  | 105  | 202818   | 4.678  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 29224    | 4.922  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.481 | 105  | 153074   | 4.332  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.854 | 105  | 158275   | 4.499  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.120 | 146  | 96159    | 4.643  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 98049    | 4.719  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 89285    | 4.727  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 5850     | 4.822  | ug/L  | 90       |
| 69) 1,3,5-Trichlorobenzene    | 12.587 | 180  | 66295    | 4.371  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 55094    | 4.095  | ug/L  | 99       |
| 71) Naphthalene               | 13.442 | 128  | 86270    | 3.775  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 49417    | 4.263  | ug/L  | 99       |

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

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QLast Update : Fri Oct 20 06:17:42 2023  
Response via : Initial Calibration

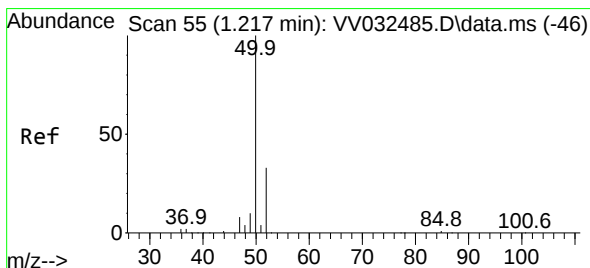
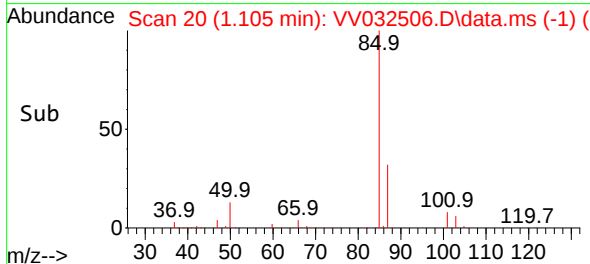
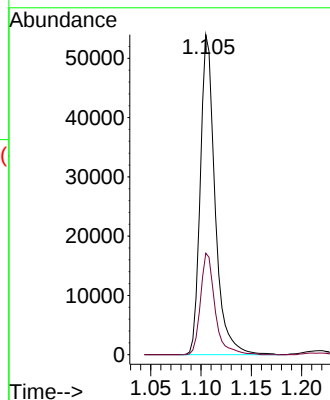
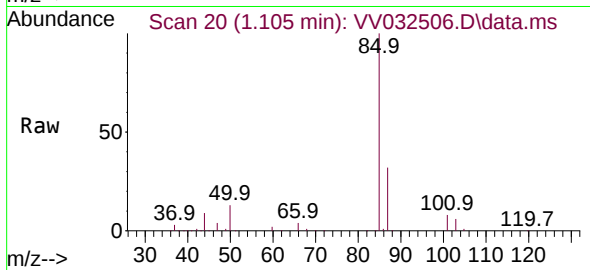




#2  
 Dichlorodifluoromethane  
 Concen: 5.116 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

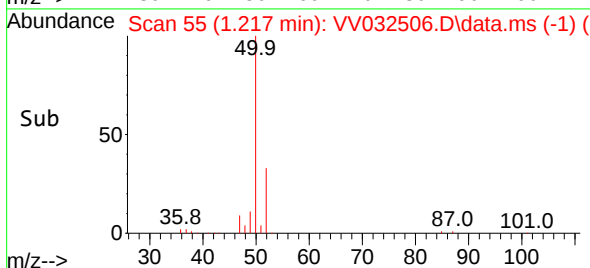
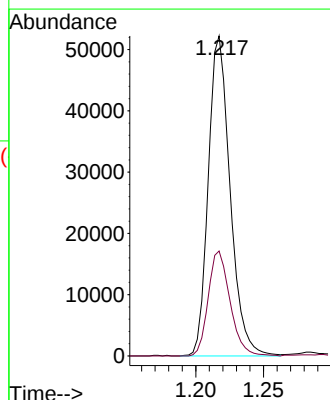
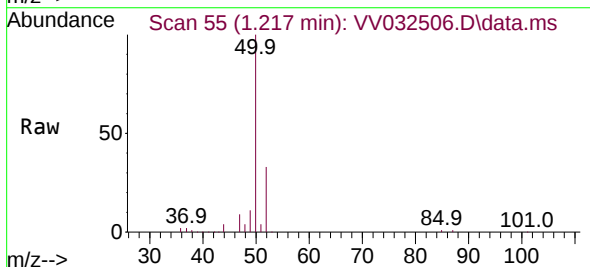
Instrument :  
 MSVOA\_V  
 ClientSampleId :

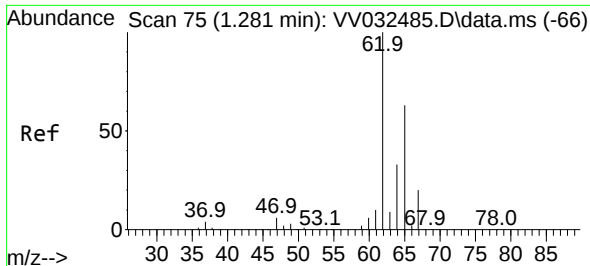
Tgt Ion: 85 Resp: 55167  
 Ion Ratio Lower Upper  
 85 100  
 87 31.2 25.5 38.3



#3  
 Chloromethane  
 Concen: 5.392 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Tgt Ion: 50 Resp: 58616  
 Ion Ratio Lower Upper  
 50 100  
 52 32.8 23.0 42.6

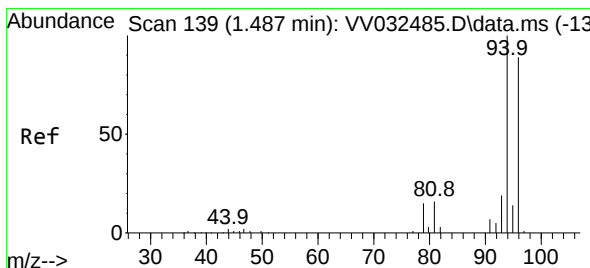
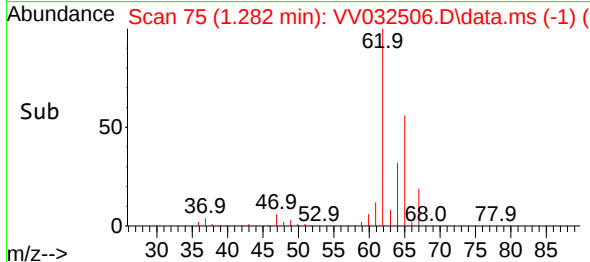
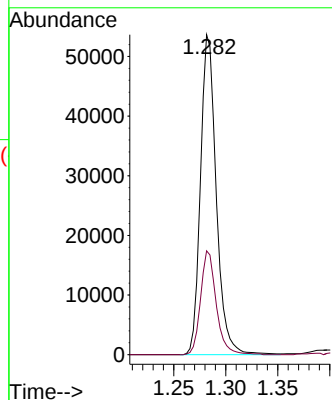
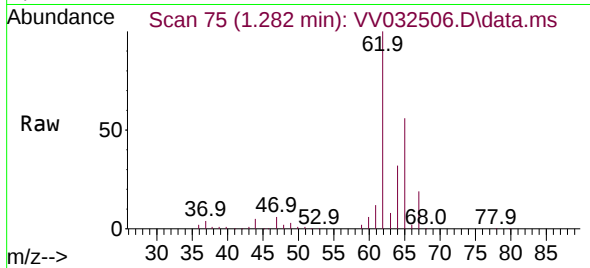




#5  
 Vinyl chloride  
 Concen: 5.466 ug/L  
 RT: 1.282 min Scan# 75  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

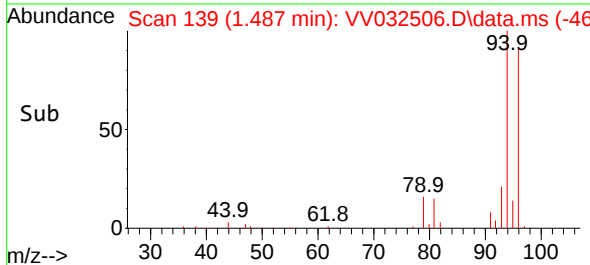
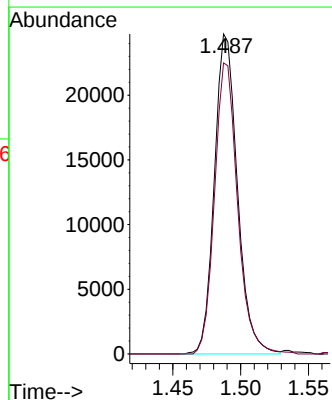
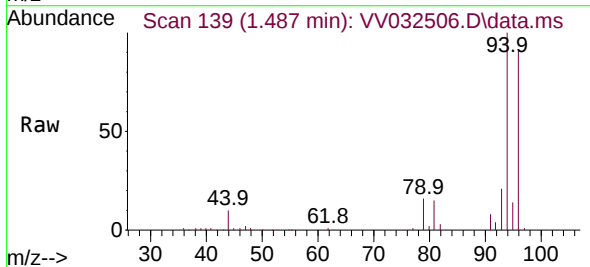
Instrument :  
 MSVOA\_V  
 ClientSampleId :

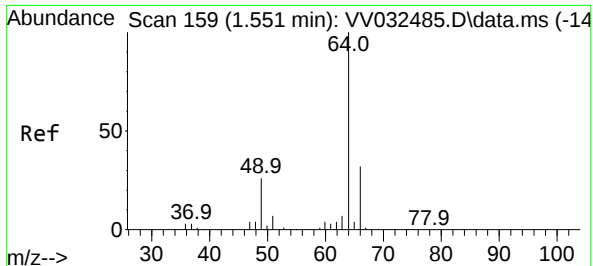
Tgt Ion: 62 Resp: 56668  
 Ion Ratio Lower Upper  
 62 100  
 64 32.5 23.1 42.9



#6  
 Bromomethane  
 Concen: 4.676 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Tgt Ion: 94 Resp: 29287  
 Ion Ratio Lower Upper  
 94 100  
 96 90.9 66.8 124.2

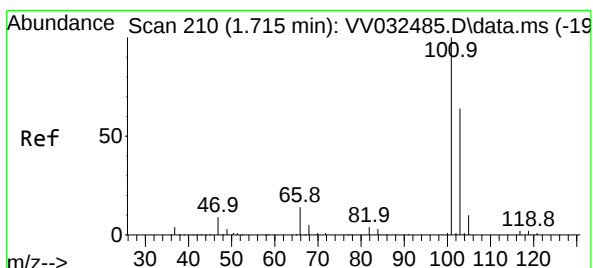
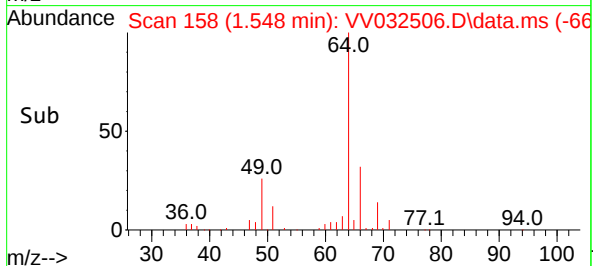
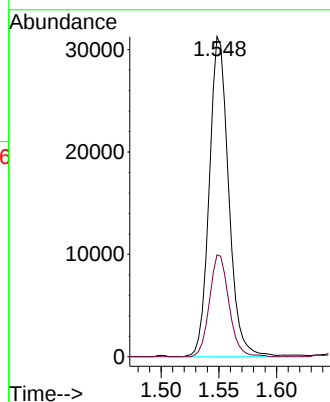
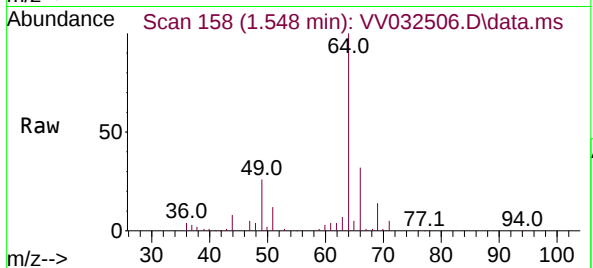




#8  
Chloroethane  
Concen: 5.850 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

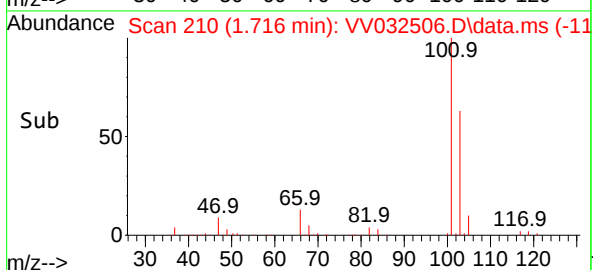
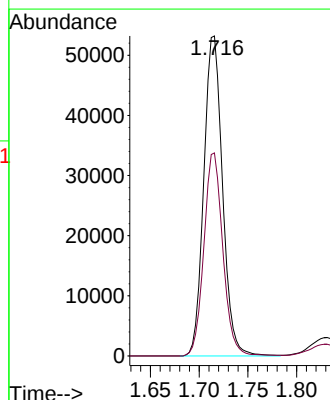
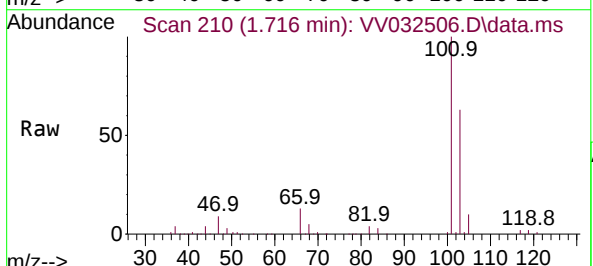
Instrument :  
MSVOA\_V  
ClientSampleId :

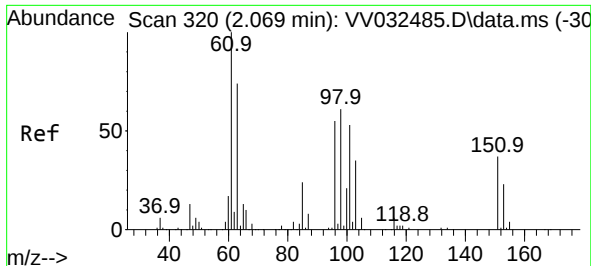
Tgt Ion: 64 Resp: 36512  
Ion Ratio Lower Upper  
64 100  
66 31.8 22.6 42.0



#9  
Trichlorofluoromethane  
Concen: 5.730 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Tgt Ion:101 Resp: 71241  
Ion Ratio Lower Upper  
101 100  
103 64.1 51.4 77.2

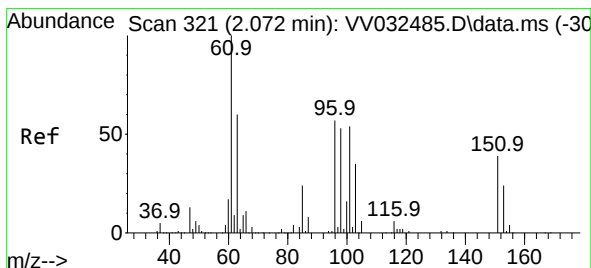
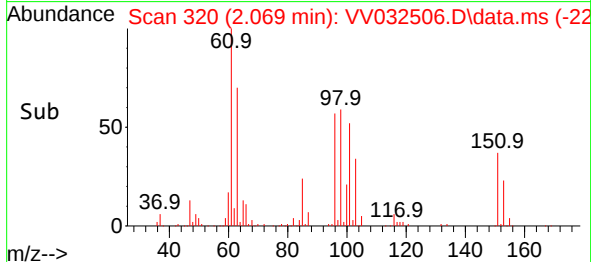
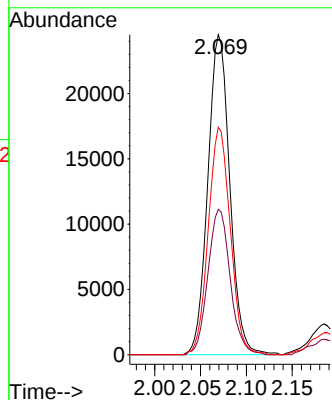
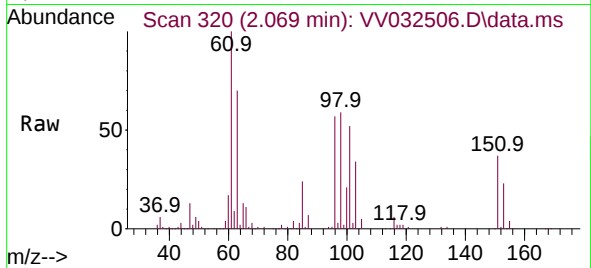




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.418 ug/L  
 RT: 2.069 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

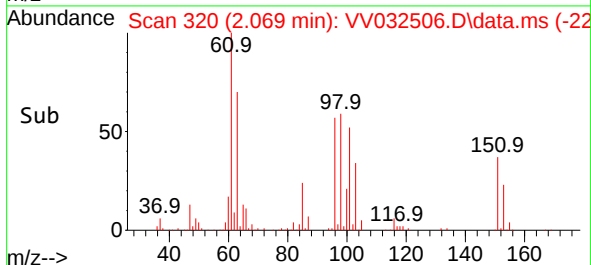
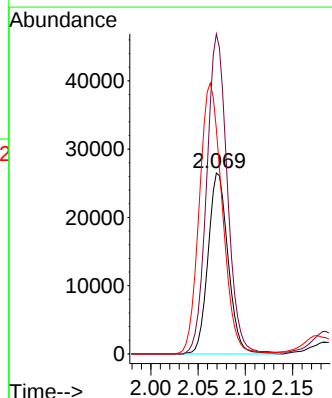
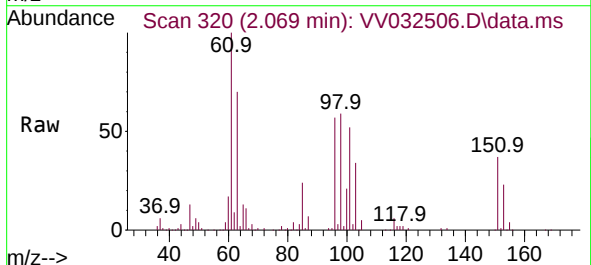
Instrument :  
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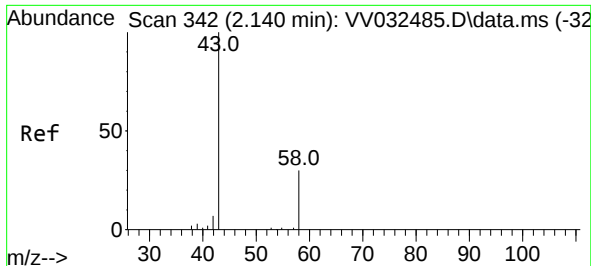
Tgt Ion:101 Resp: 40816  
 Ion Ratio Lower Upper  
 101 100  
 85 46.0 35.0 52.6  
 151 71.1 56.6 84.8



#12  
 1,1-Dichloroethene  
 Concen: 5.480 ug/L  
 RT: 2.069 min Scan# 320  
 Delta R.T. -0.003 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Tgt Ion: 96 Resp: 38891  
 Ion Ratio Lower Upper  
 96 100  
 61 176.8 127.3 236.3  
 63 124.2 98.3 182.7





#13

Acetone

Concen: 47.030 ug/L

RT: 2.130 min Scan# 31

Delta R.T. -0.010 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

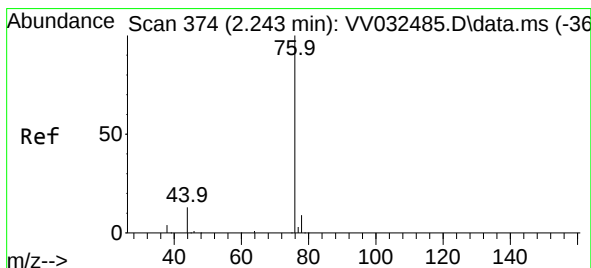
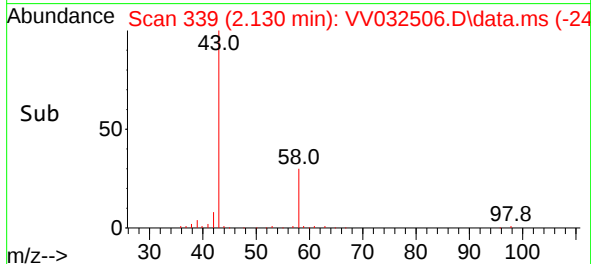
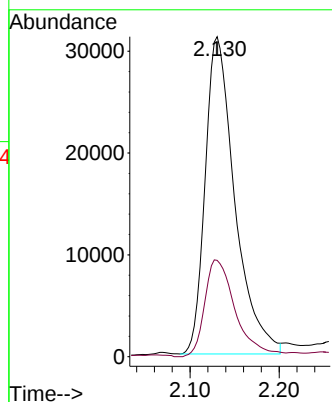
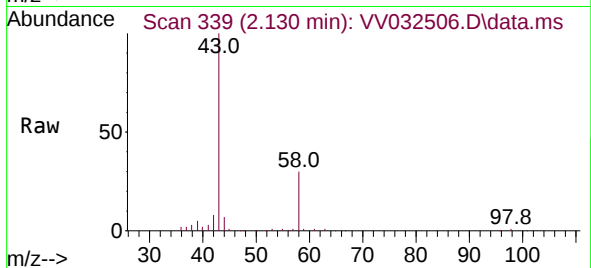
ClientSampleId :

Tgt Ion: 43 Resp: 72160

Ion Ratio Lower Upper

43 100

58 31.6 0.0 66.0



#14

Carbon disulfide

Concen: 4.416 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.000 min

Lab File: VV032506.D

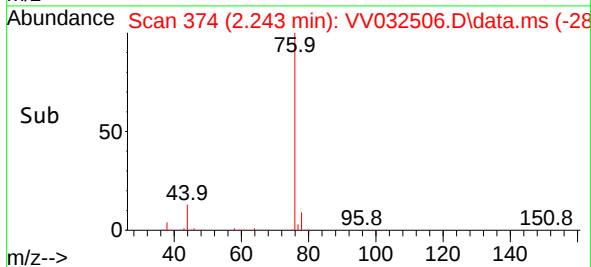
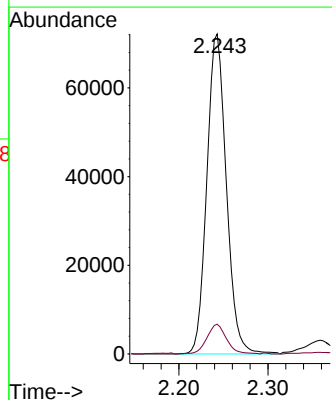
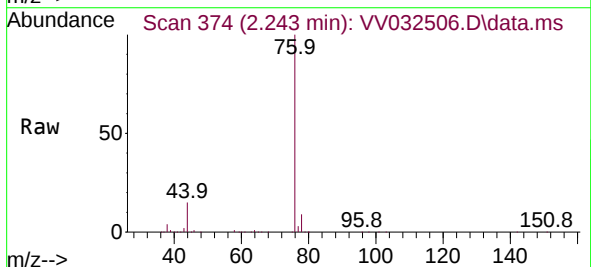
Acq: 19 Oct 2023 18:54

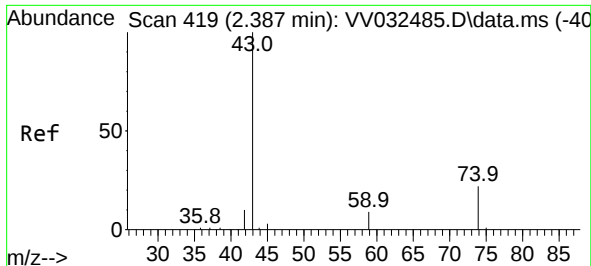
Tgt Ion: 76 Resp: 109548

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2

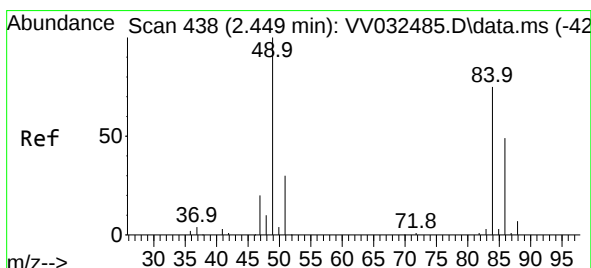
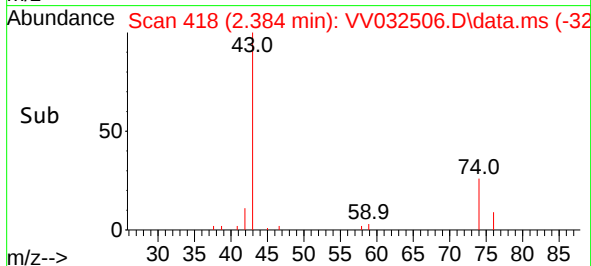
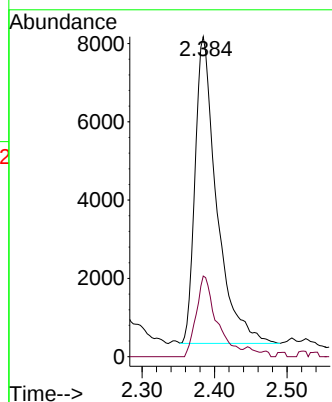
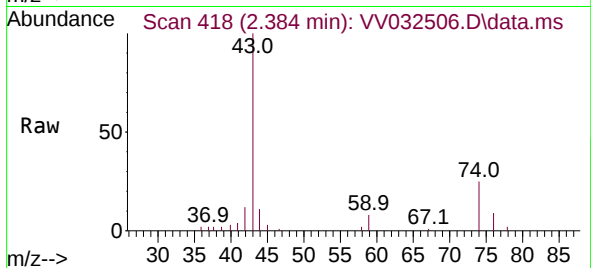




#15  
Methyl Acetate  
Concen: 4.701 ug/L  
RT: 2.384 min Scan# 419  
Delta R.T. -0.003 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

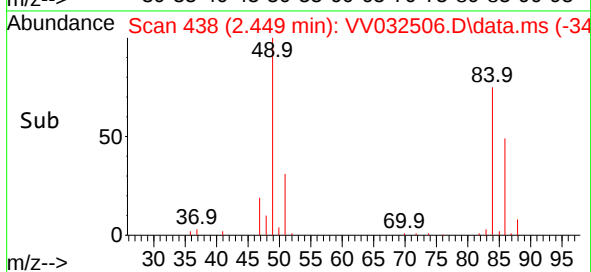
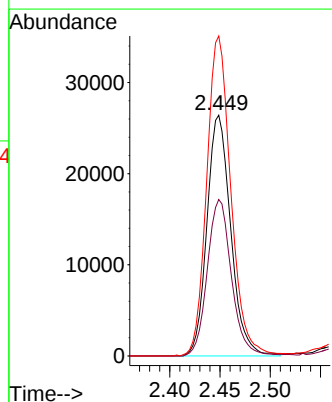
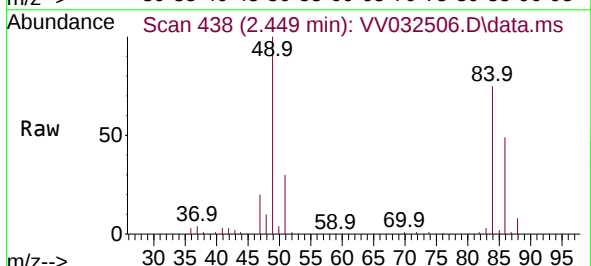
Instrument :  
MSVOA\_V  
ClientSampleId :

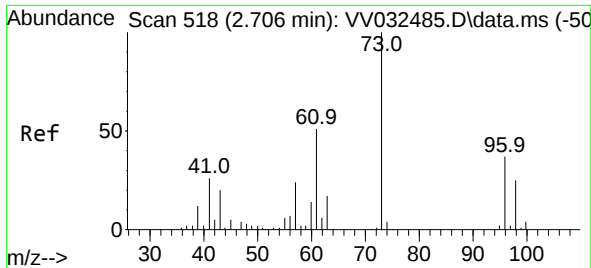
Tgt Ion: 43 Resp: 16237  
Ion Ratio Lower Upper  
43 100  
74 24.8 18.0 27.0



#16  
Methylene chloride  
Concen: 4.715 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Tgt Ion: 84 Resp: 43627  
Ion Ratio Lower Upper  
84 100  
86 65.0 43.2 80.2  
49 132.9 86.3 160.3

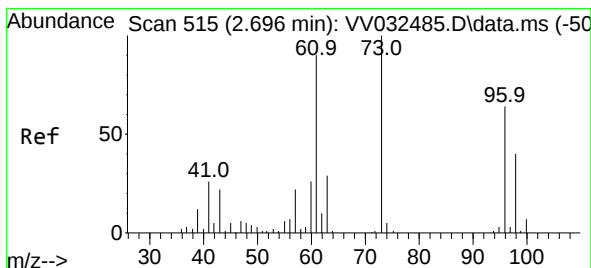
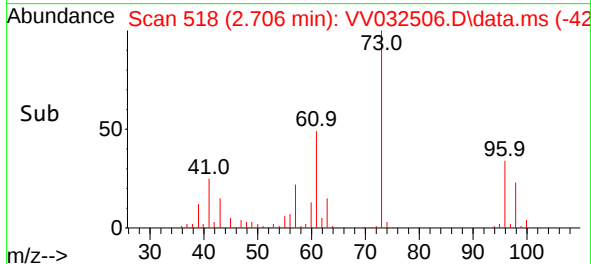
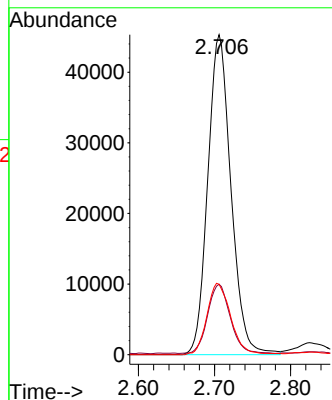
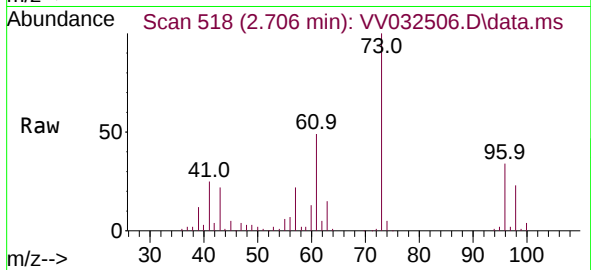




#17  
Methyl tert-butyl Ether  
Concen: 4.964 ug/L  
RT: 2.706 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

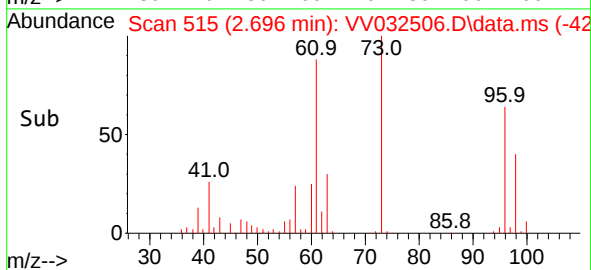
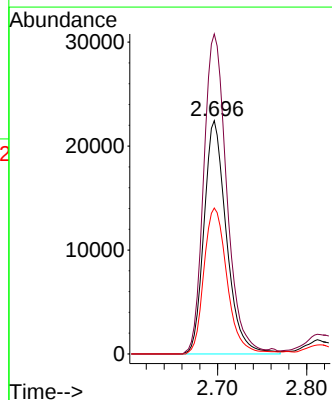
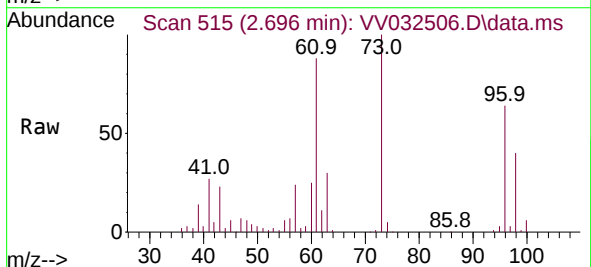
Instrument :  
MSVOA\_V  
ClientSampleId :

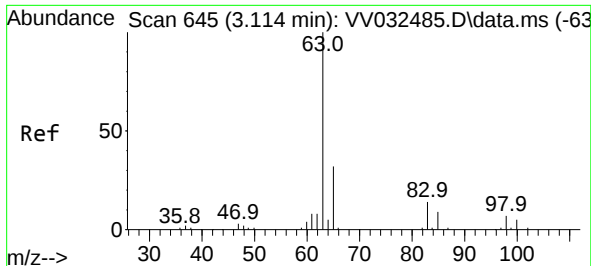
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 73 | Resp: | 95909       |
| Ion         | Ratio | Lower Upper |
| 73          | 100   |             |
| 43          | 21.0  | 15.1 22.7   |
| 57          | 22.9  | 18.3 27.5   |



#18  
trans-1,2-Dichloroethene  
Concen: 4.828 ug/L  
RT: 2.696 min Scan# 515  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 96 | Resp: | 39243       |
| Ion         | Ratio | Lower Upper |
| 96          | 100   |             |
| 61          | 137.2 | 96.9 180.1  |
| 98          | 62.6  | 45.3 84.1   |





#19

1,1-Dichloroethane

Concen: 5.347 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :

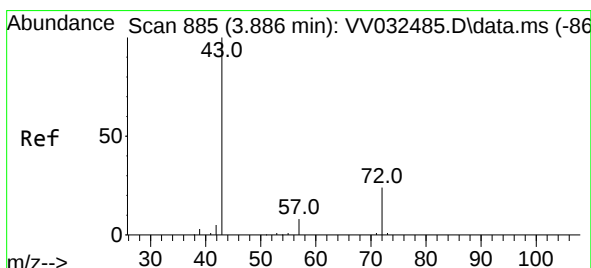
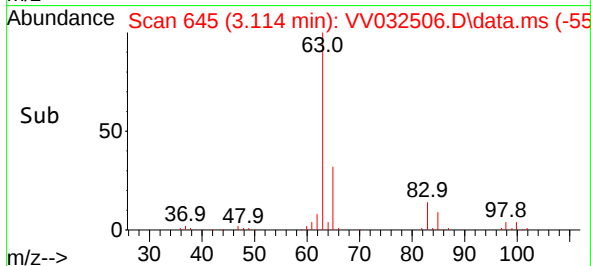
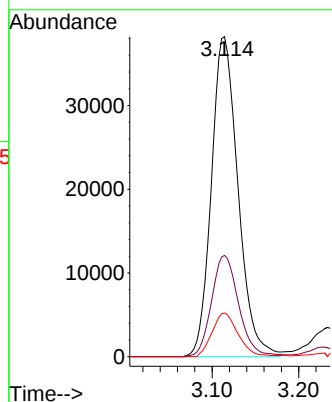
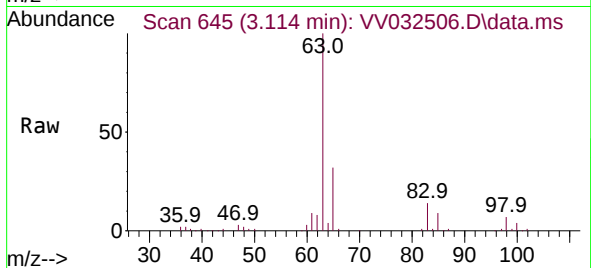
Tgt Ion: 63 Resp: 81756

Ion Ratio Lower Upper

63 100

65 31.6 22.3 41.5

83 13.6 9.0 16.6



#21

2-Butanone

Concen: 46.800 ug/L

RT: 3.880 min Scan# 883

Delta R.T. -0.006 min

Lab File: VV032506.D

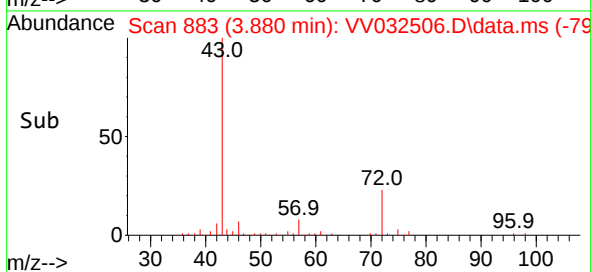
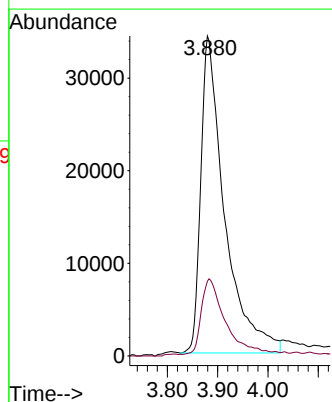
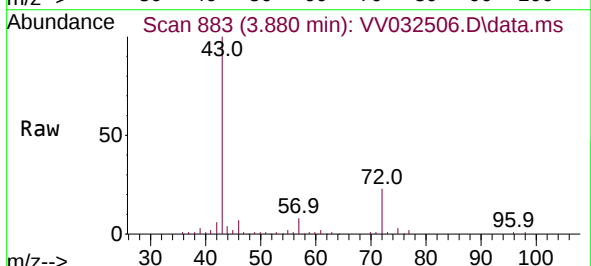
Acq: 19 Oct 2023 18:54

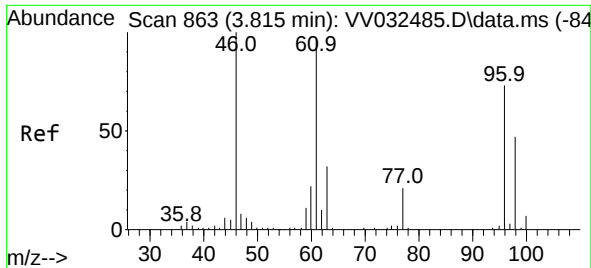
Tgt Ion: 43 Resp: 112292

Ion Ratio Lower Upper

43 100

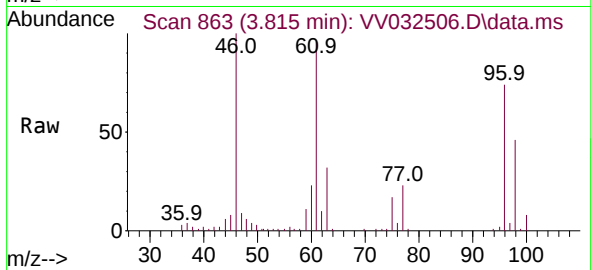
72 24.2 11.6 34.8





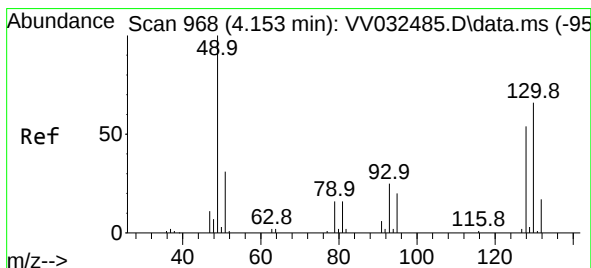
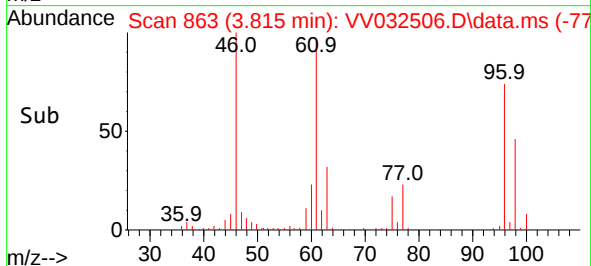
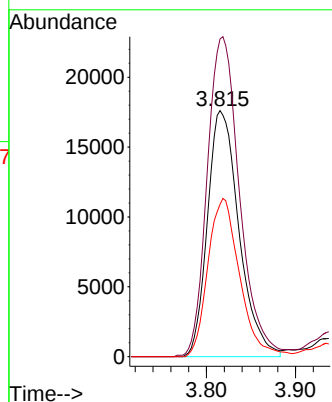
#22  
 cis-1,2-Dichloroethene  
 Concen: 4.955 ug/L  
 RT: 3.815 min Scan# 863  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 96 Resp: 43368

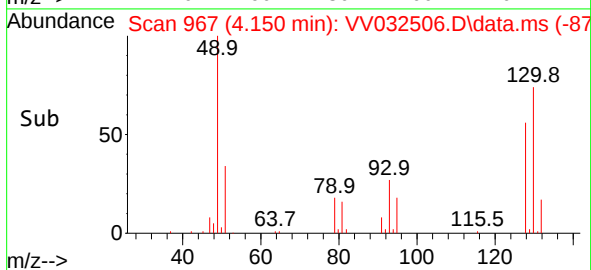
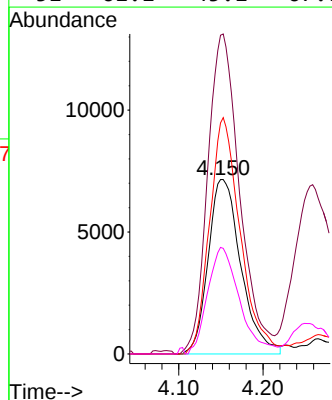
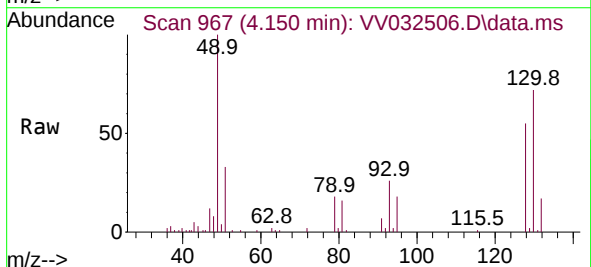
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 129.1 | 85.8  | 159.4 |
| 98  | 61.9  | 44.0  | 81.6  |

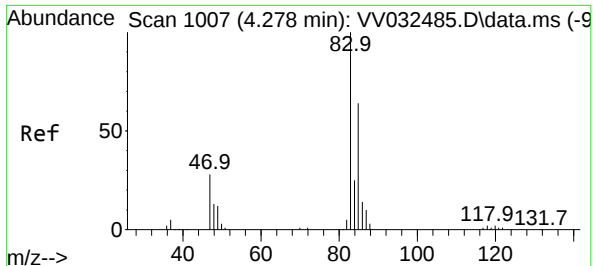


#23  
 Bromochloromethane  
 Concen: 5.236 ug/L  
 RT: 4.150 min Scan# 967  
 Delta R.T. -0.003 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Tgt Ion: 128 Resp: 19278

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 182.7 | 121.2 | 225.0 |
| 130 | 132.5 | 88.2  | 163.8 |
| 51  | 61.1  | 45.1  | 67.7  |





#25

Chloroform

Concen: 5.611 ug/L

RT: 4.278 min Scan# 1007

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

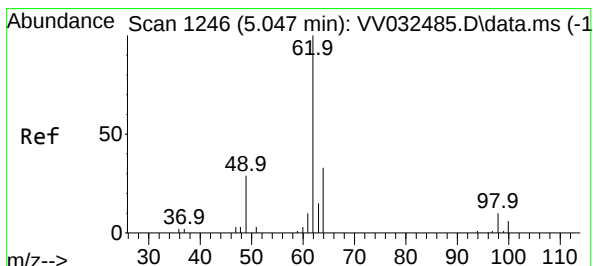
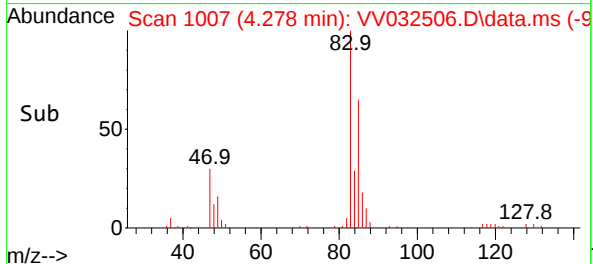
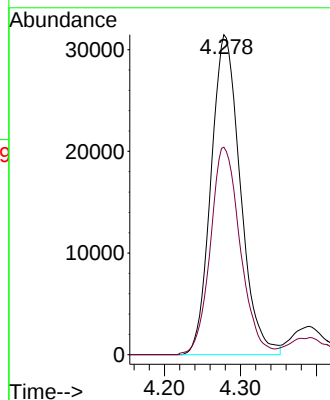
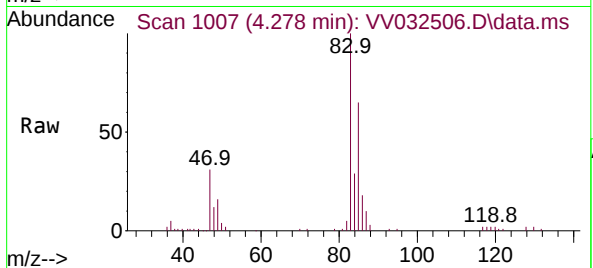
ClientSampleId :

Tgt Ion: 83 Resp: 84181

Ion Ratio Lower Upper

83 100

85 64.9 45.4 84.4



#27

1,2-Dichloroethane

Concen: 5.554 ug/L

RT: 5.043 min Scan# 1245

Delta R.T. -0.003 min

Lab File: VV032506.D

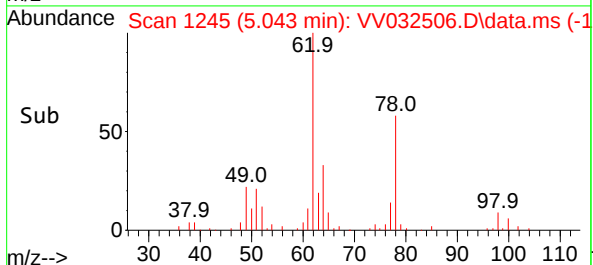
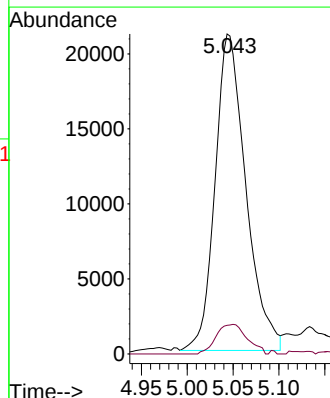
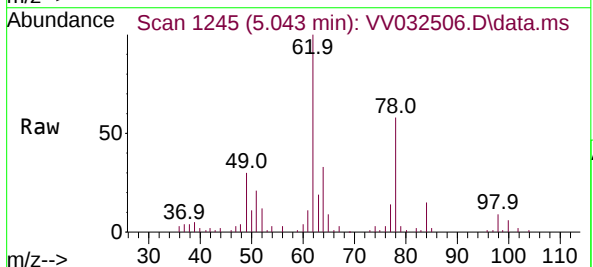
Acq: 19 Oct 2023 18:54

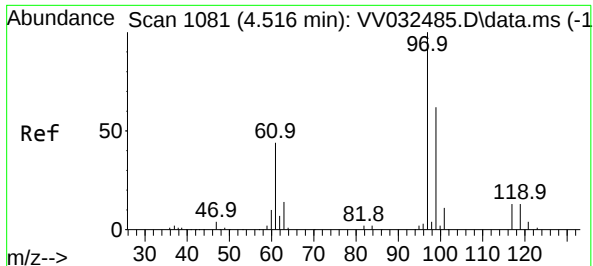
Tgt Ion: 62 Resp: 49230

Ion Ratio Lower Upper

62 100

98 9.0 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 4.683 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :

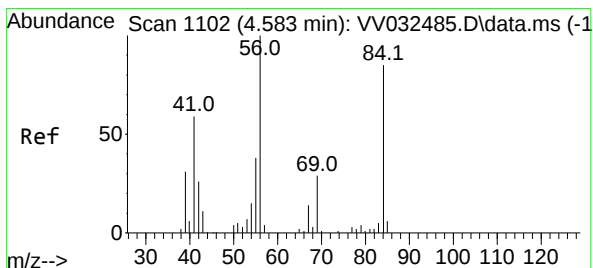
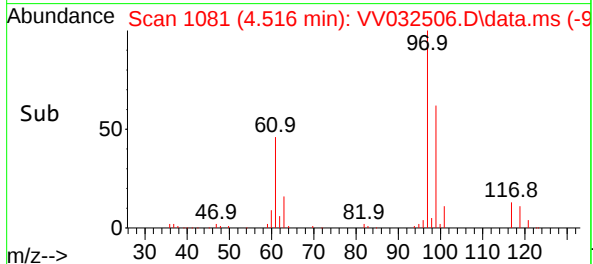
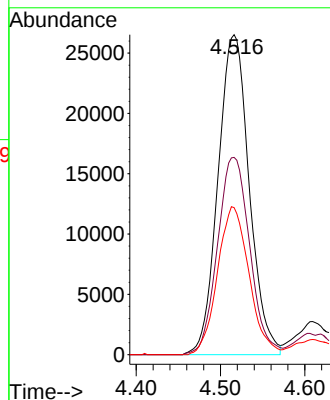
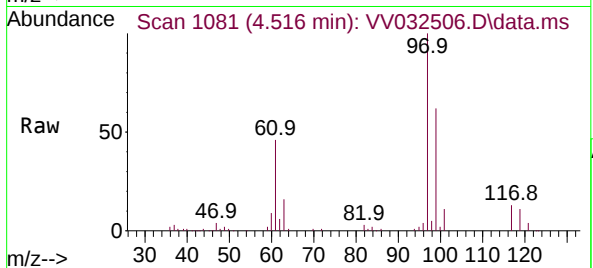
Tgt Ion: 97 Resp: 68243

Ion Ratio Lower Upper

97 100

99 63.8 50.1 75.1

61 46.7 35.1 52.7



#30

Cyclohexane

Concen: 3.865 ug/L

RT: 4.584 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

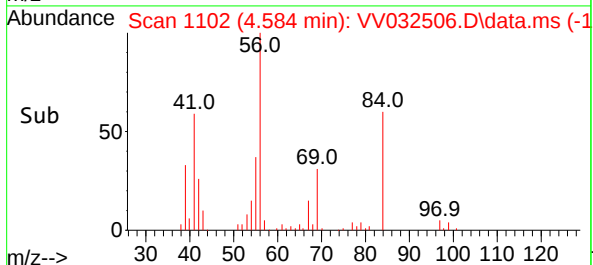
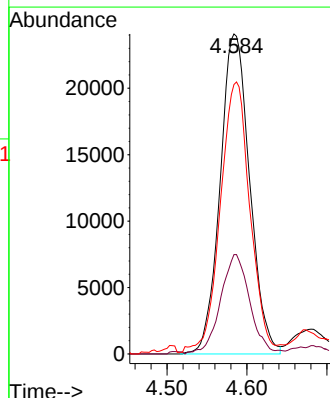
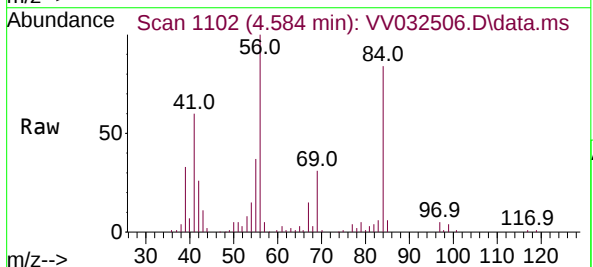
Tgt Ion: 56 Resp: 61879

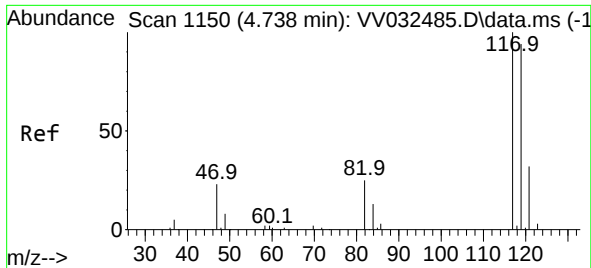
Ion Ratio Lower Upper

56 100

69 30.8 24.2 36.2

84 84.7 68.1 102.1

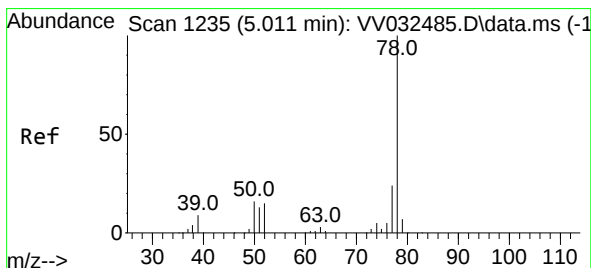
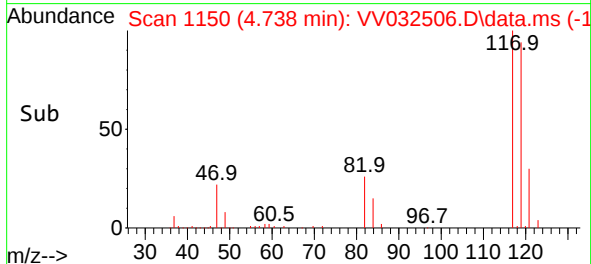
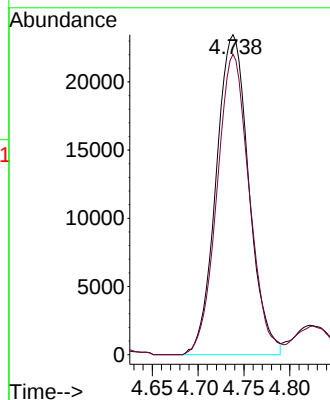
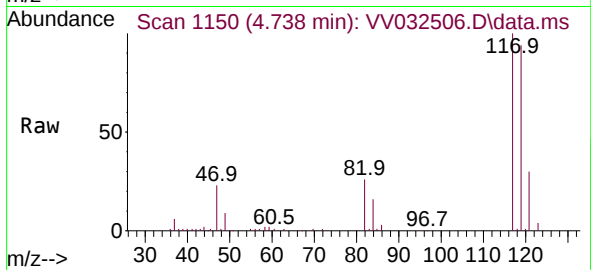




#31  
Carbon tetrachloride  
Concen: 4.716 ug/L  
RT: 4.738 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

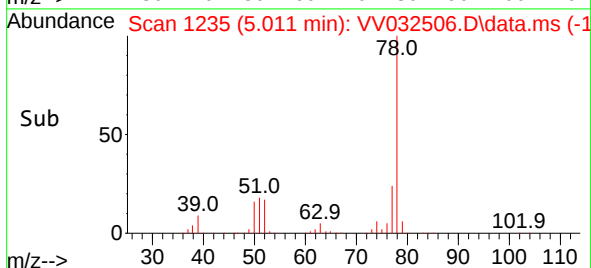
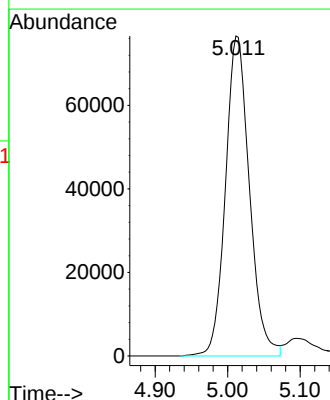
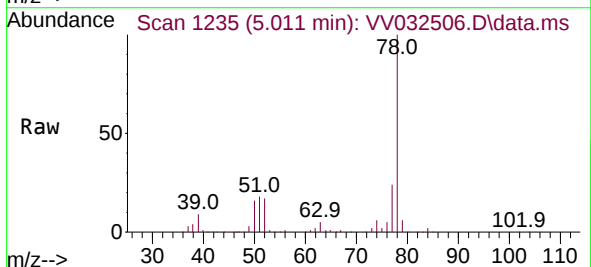
Instrument :  
MSVOA\_V  
ClientSampleId :

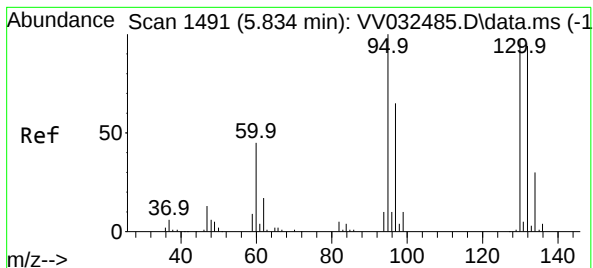
Tgt Ion:117 Resp: 58139  
Ion Ratio Lower Upper  
117 100  
119 93.1 77.6 116.4



#33  
Benzene  
Concen: 4.663 ug/L  
RT: 5.011 min Scan# 1235  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Tgt Ion: 78 Resp: 175956





#34

Trichloroethene

Concen: 4.219 ug/L

RT: 5.834 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 43459

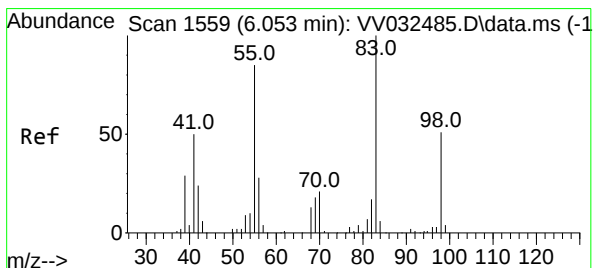
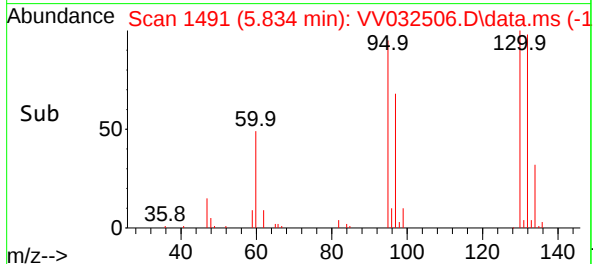
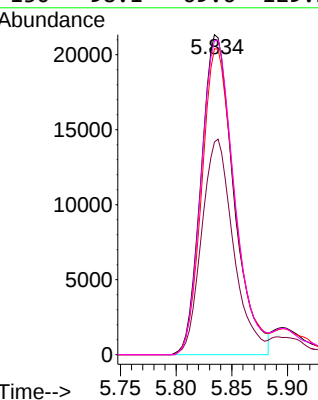
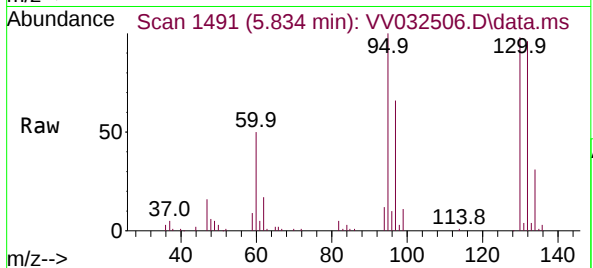
Ion Ratio Lower Upper

95 100

97 66.5 45.7 84.9

132 95.6 70.3 130.5

130 98.1 69.6 129.2



#35

Methylcyclohexane

Concen: 4.188 ug/L

RT: 6.053 min Scan# 1559

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

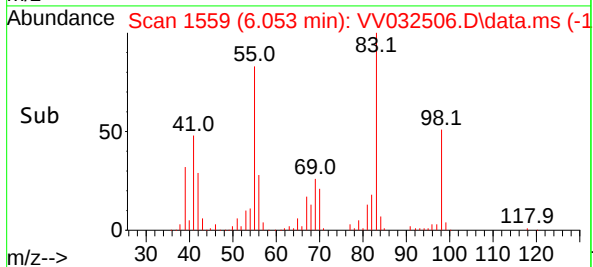
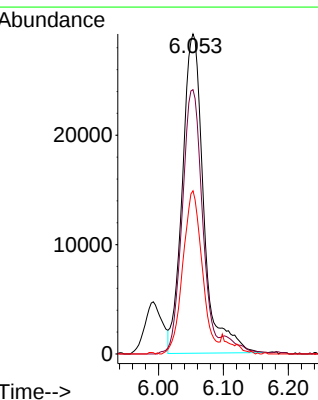
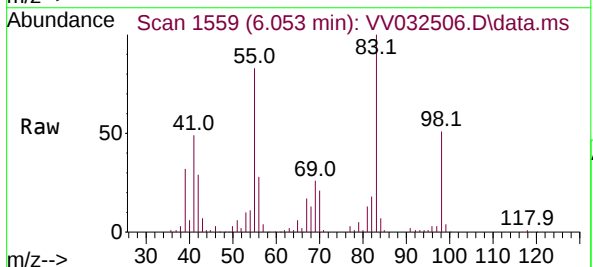
Tgt Ion: 83 Resp: 66755

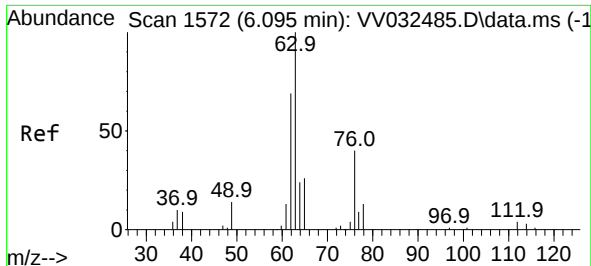
Ion Ratio Lower Upper

83 100

55 77.4 64.2 96.2

98 46.1 39.6 59.4





#37

1,2-Dichloropropane

Concen: 5.112 ug/L

RT: 6.095 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

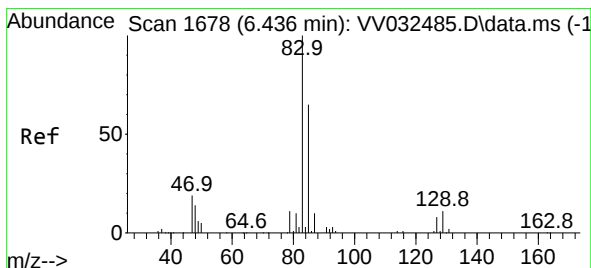
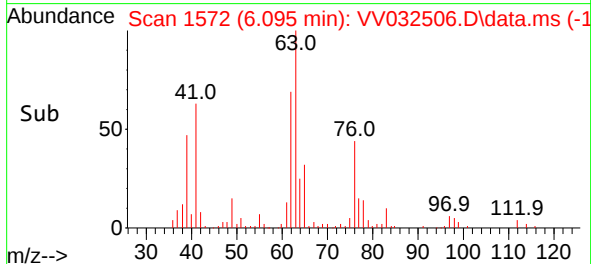
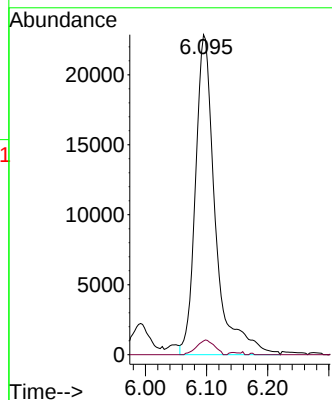
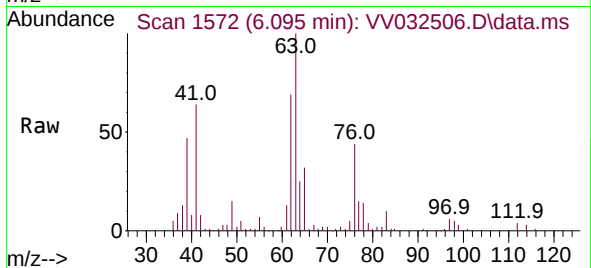
ClientSampleId :

Tgt Ion: 63 Resp: 51588

Ion Ratio Lower Upper

63 100

112 4.1 3.4 5.2



#38

Bromodichloromethane

Concen: 5.144 ug/L

RT: 6.436 min Scan# 1678

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

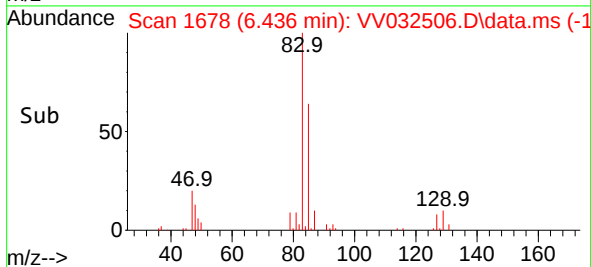
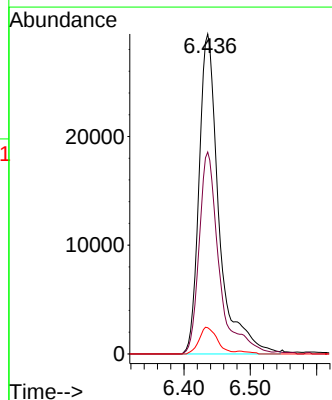
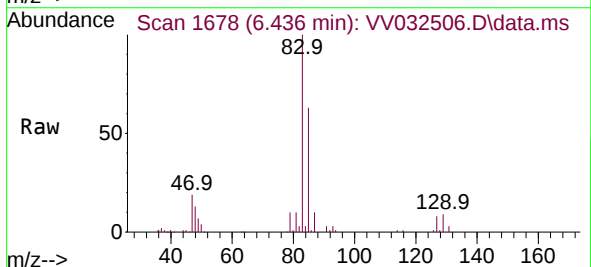
Tgt Ion: 83 Resp: 61682

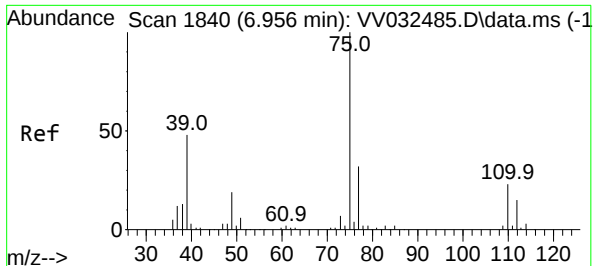
Ion Ratio Lower Upper

83 100

85 63.1 44.9 83.3

127 8.2 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 4.471 ug/L

RT: 6.957 min Scan# 1840

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

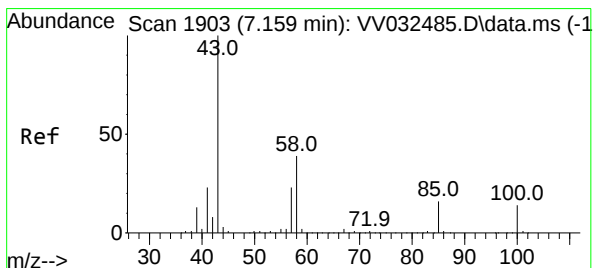
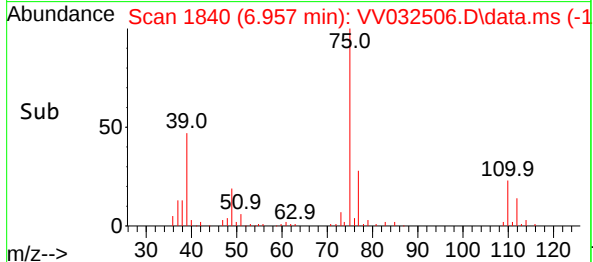
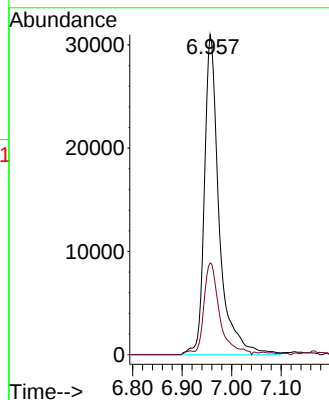
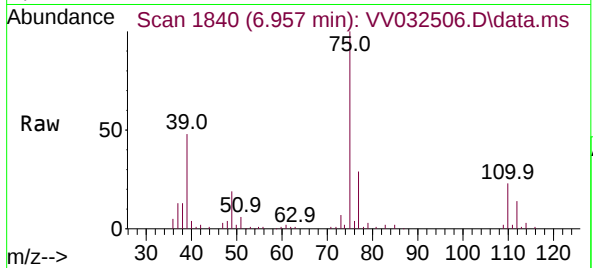
ClientSampleId :

Tgt Ion: 75 Resp: 64199

Ion Ratio Lower Upper

75 100

77 28.7 22.2 41.2



#40

4-Methyl-2-pentanone

Concen: 47.011 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

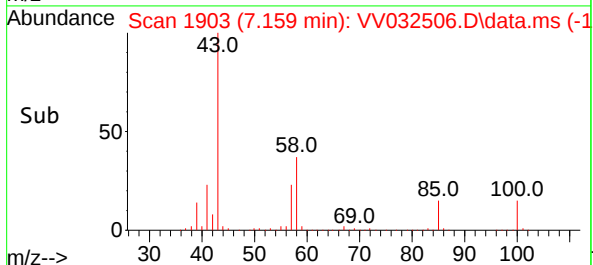
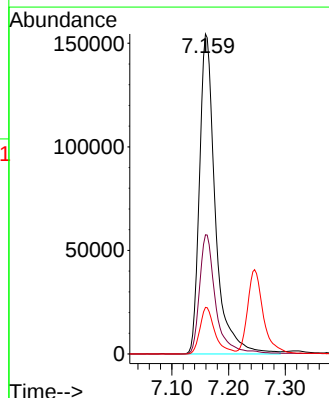
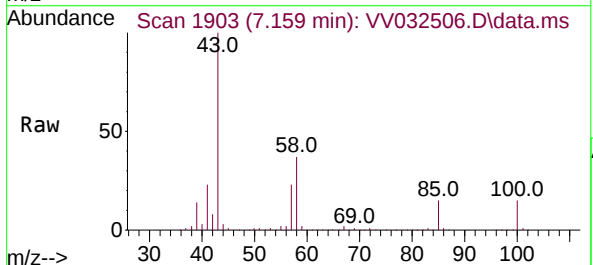
Tgt Ion: 43 Resp: 300205

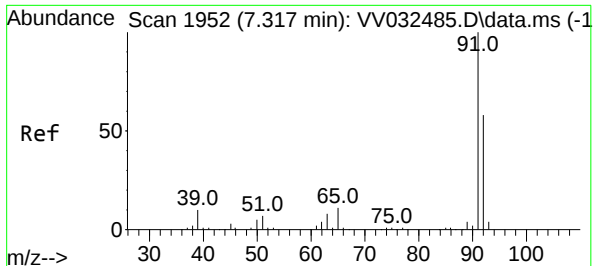
Ion Ratio Lower Upper

43 100

58 37.9 31.9 47.9

100 13.9 11.3 16.9





#42

Toluene

Concen: 4.963 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

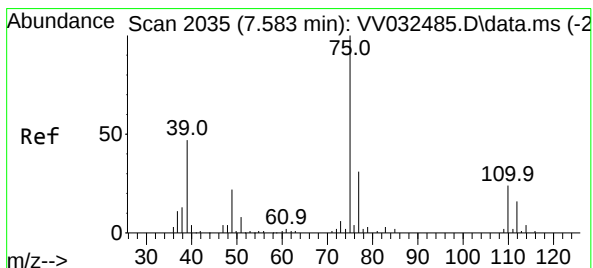
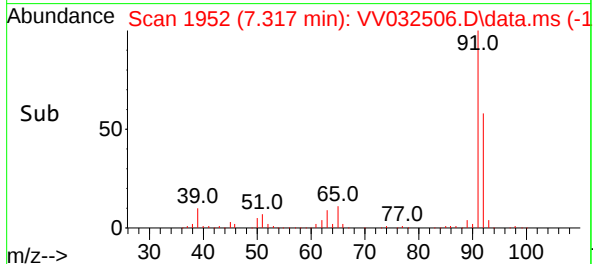
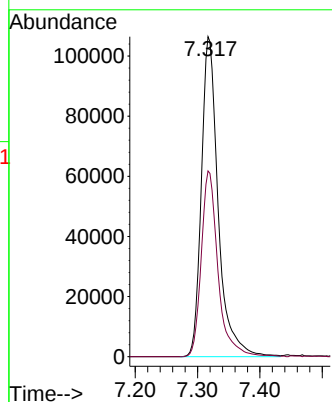
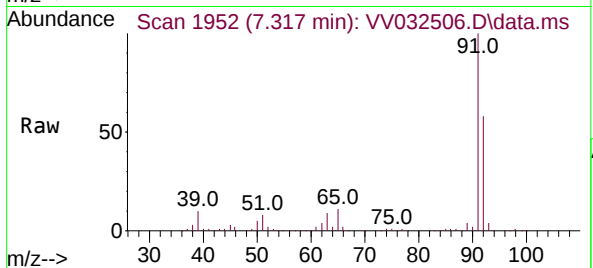
ClientSampleId :

Tgt Ion: 91 Resp: 199625

Ion Ratio Lower Upper

91 100

92 58.1 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 4.515 ug/L

RT: 7.584 min Scan# 2035

Delta R.T. 0.000 min

Lab File: VV032506.D

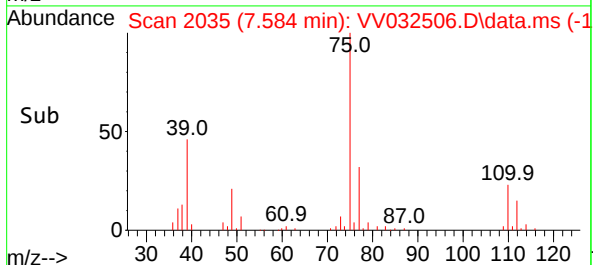
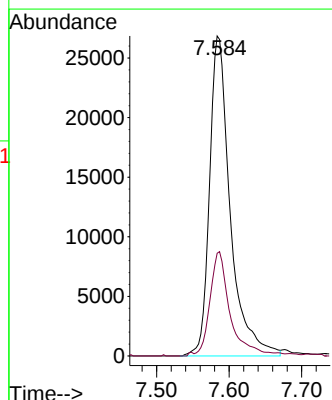
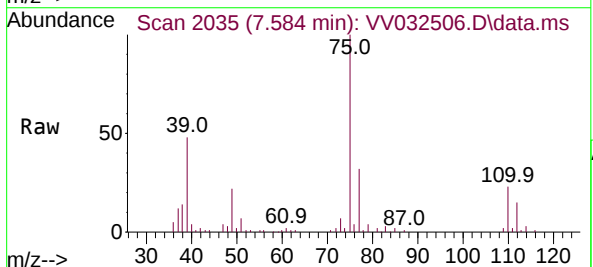
Acq: 19 Oct 2023 18:54

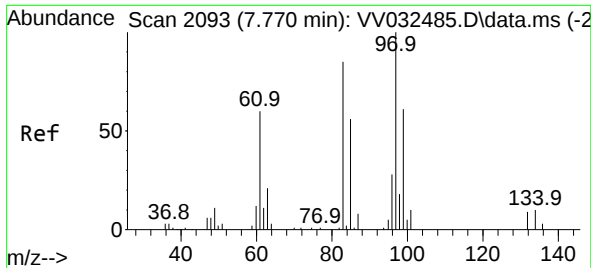
Tgt Ion: 75 Resp: 53286

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7

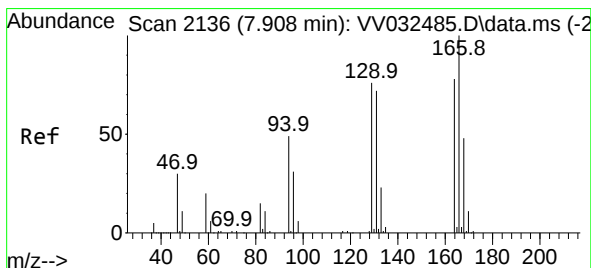
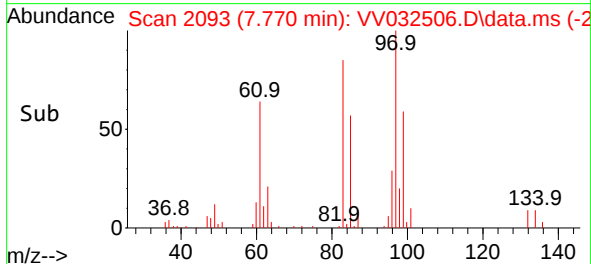
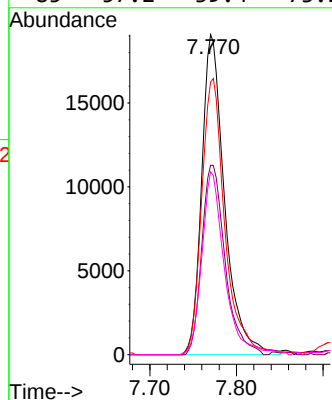
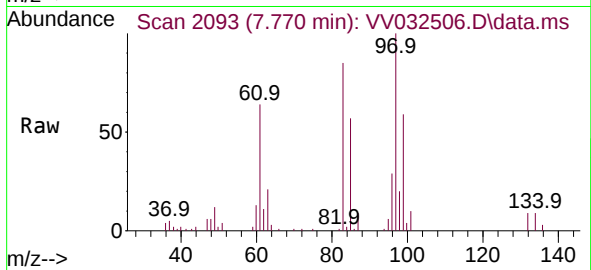




#45  
1,1,2-Trichloroethane  
Concen: 4.932 ug/L  
RT: 7.770 min Scan# 2093  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

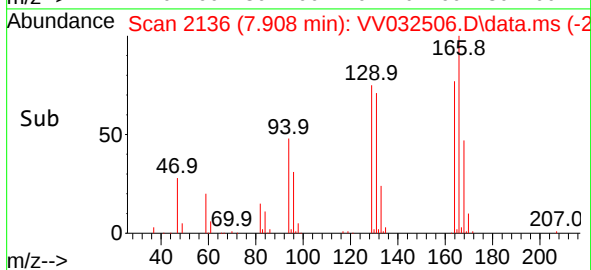
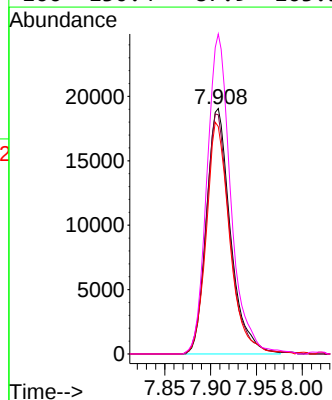
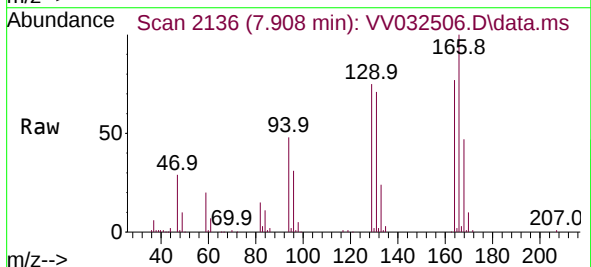
Instrument :  
MSVOA\_V  
ClientSampleId :

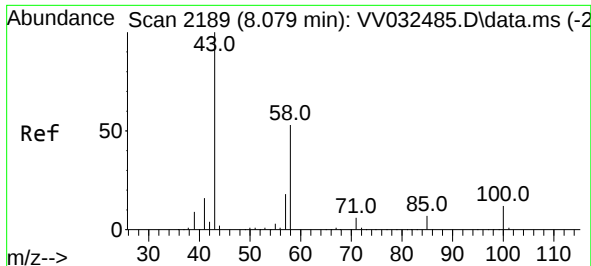
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 35109 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 59.2  | 42.8  | 79.4  |
| 83       | 85.2  | 60.9  | 113.1 |
| 85       | 57.2  | 39.4  | 73.2  |



#47  
Tetrachloroethene  
Concen: 4.465 ug/L  
RT: 7.908 min Scan# 2136  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 34876 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 97.5  | 66.4  | 123.4 |
| 131      | 92.7  | 63.7  | 118.3 |
| 166      | 130.4 | 87.9  | 163.3 |



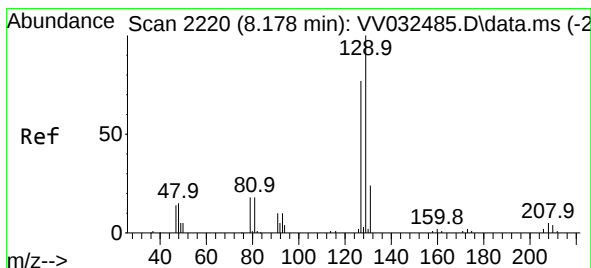
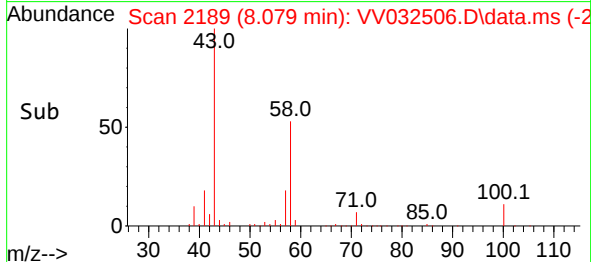
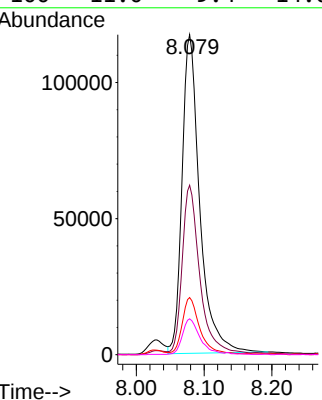
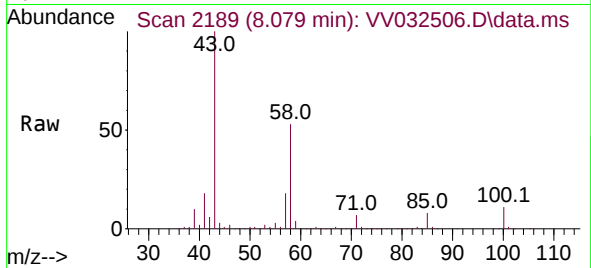


#48  
2-Hexanone  
Concen: 47.184 ug/L  
RT: 8.079 min Scan# 2189  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 43 Resp: 212585

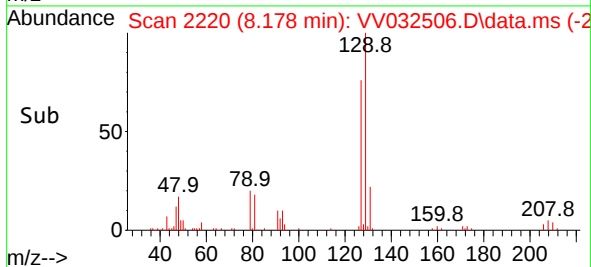
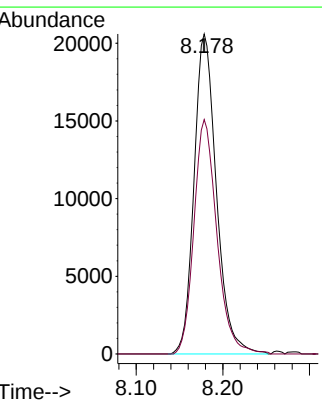
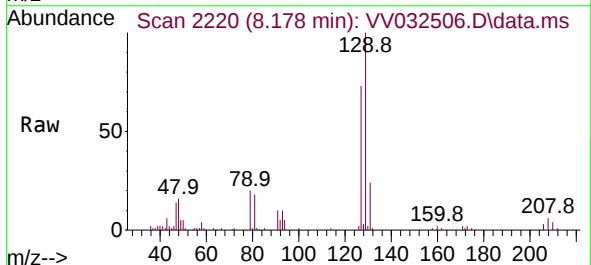
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 52.0  | 43.6  | 65.4  |
| 57  | 17.5  | 14.6  | 22.0  |
| 100 | 11.0  | 9.4   | 14.0  |

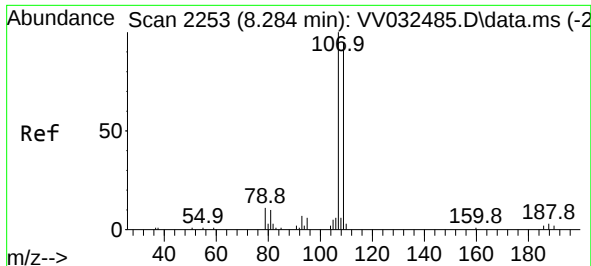


#49  
Dibromochloromethane  
Concen: 4.987 ug/L  
RT: 8.178 min Scan# 2220  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Tgt Ion: 129 Resp: 36959

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 73.3  | 57.2  | 106.2 |





#50

1,2-Dibromoethane

Concen: 4.787 ug/L

RT: 8.288 min Scan# 21

Delta R.T. 0.003 min

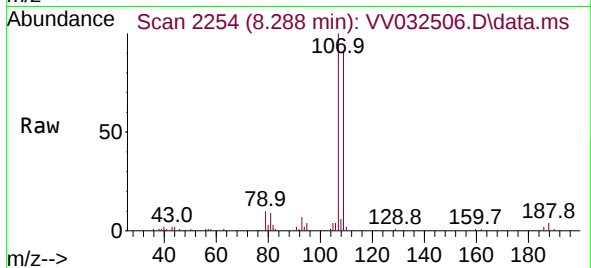
Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :



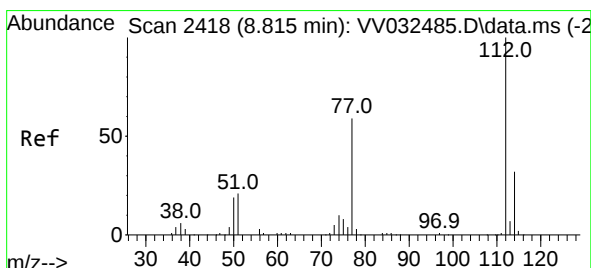
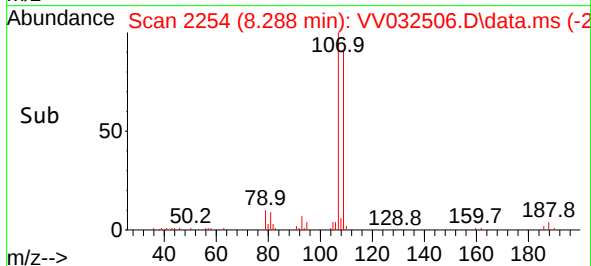
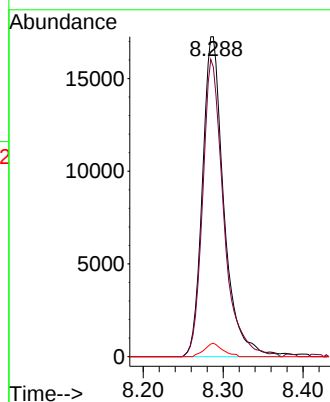
Tgt Ion:107 Resp: 32232

Ion Ratio Lower Upper

107 100

109 90.5 68.4 127.0

188 4.2 3.2 4.8



#51

Chlorobenzene

Concen: 4.758 ug/L

RT: 8.818 min Scan# 2419

Delta R.T. 0.003 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

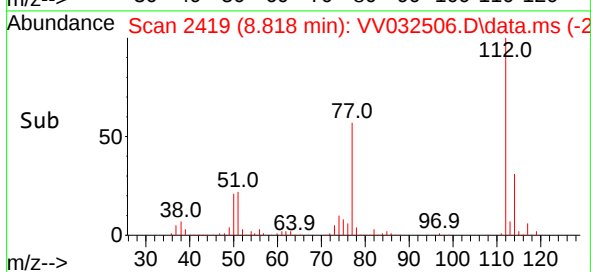
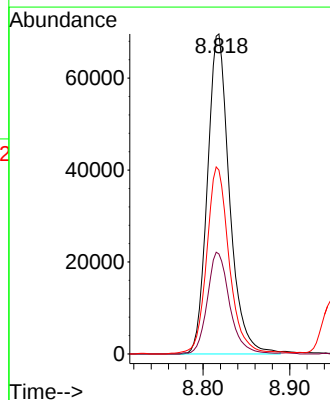
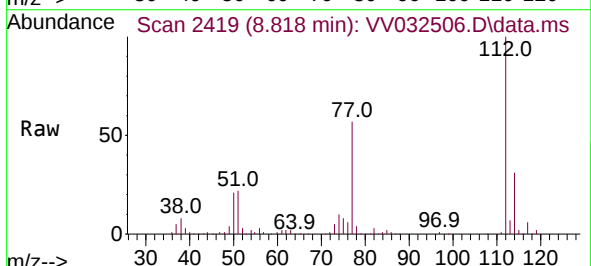
Tgt Ion:112 Resp: 123216

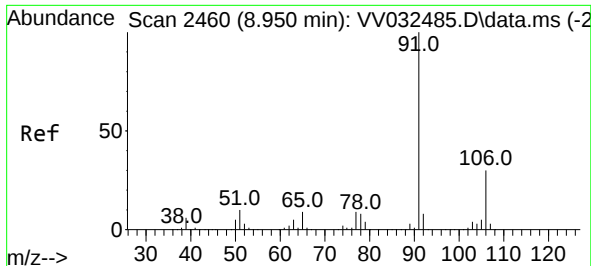
Ion Ratio Lower Upper

112 100

114 31.2 22.1 41.1

77 57.5 46.1 69.1





#52

Ethylbenzene

Concen: 4.582 ug/L

RT: 8.950 min Scan# 2460

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

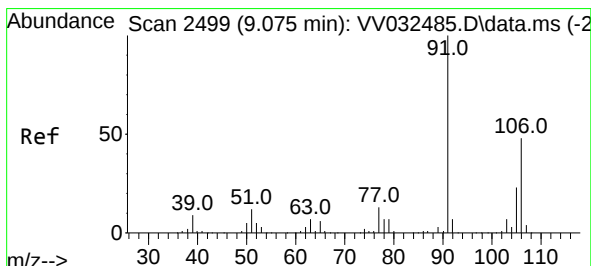
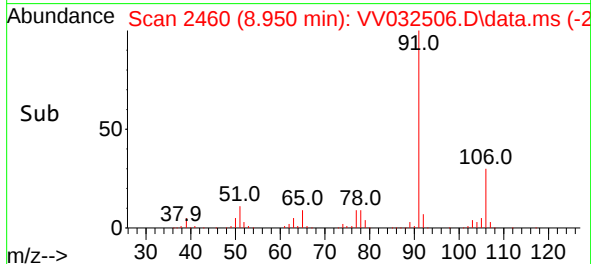
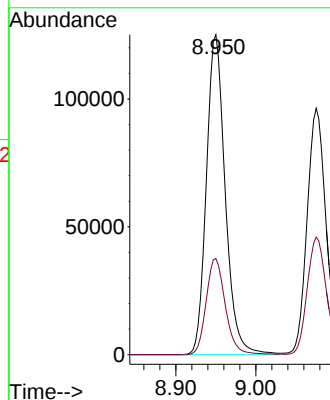
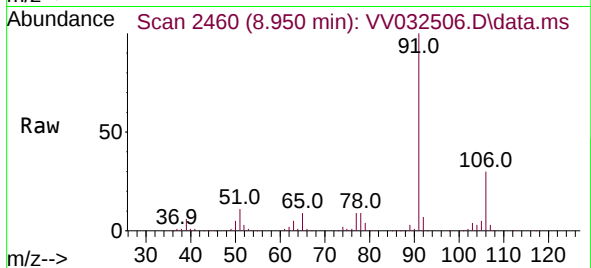
ClientSampleId :

Tgt Ion: 91 Resp: 205236

Ion Ratio Lower Upper

91 100

106 30.1 21.3 39.5



#53

m,p-Xylene

Concen: 4.672 ug/L

RT: 9.075 min Scan# 2499

Delta R.T. 0.000 min

Lab File: VV032506.D

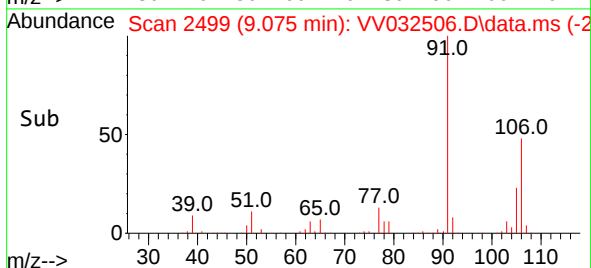
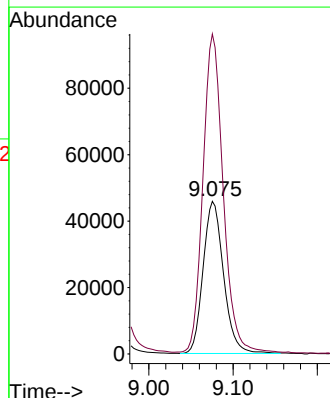
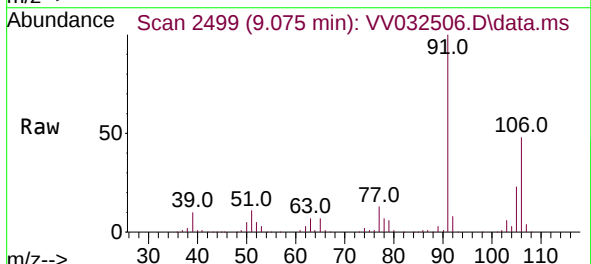
Acq: 19 Oct 2023 18:54

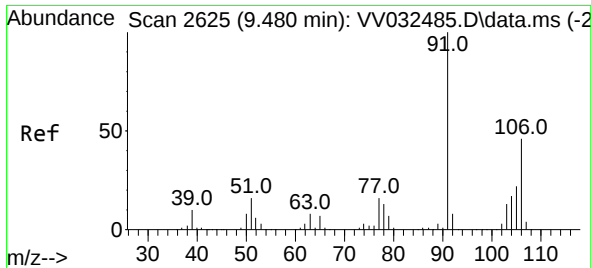
Tgt Ion: 106 Resp: 77609

Ion Ratio Lower Upper

106 100

91 209.5 144.5 268.3

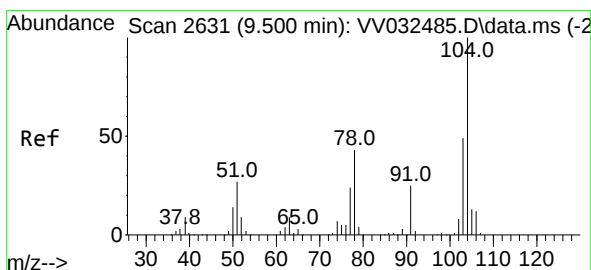
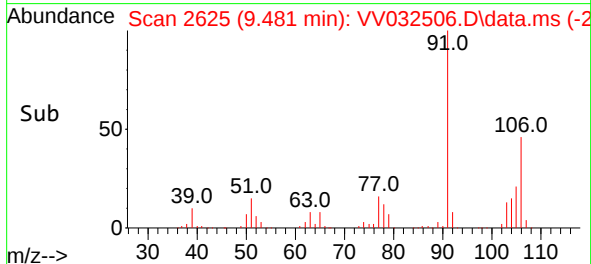
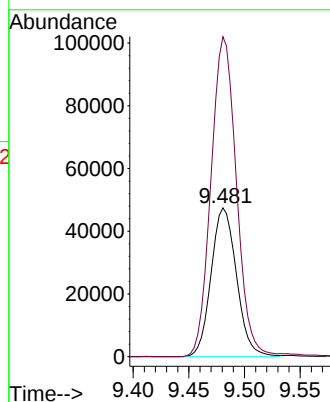
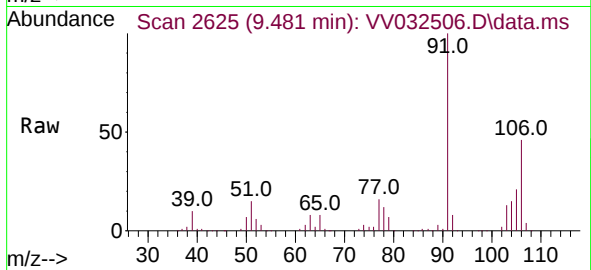




#54  
o-Xylene  
Concen: 4.713 ug/L  
RT: 9.481 min Scan# 2625  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

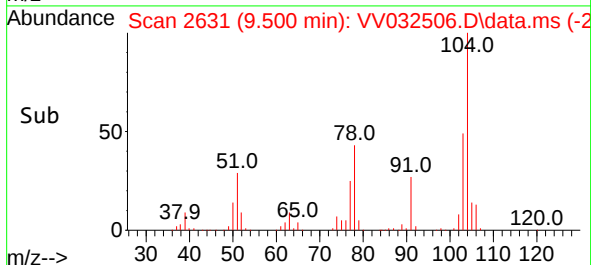
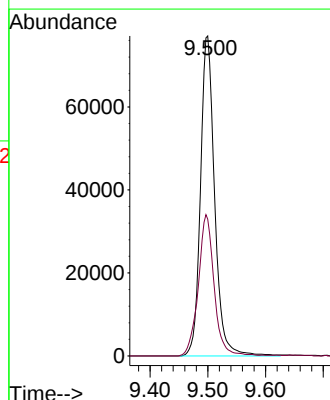
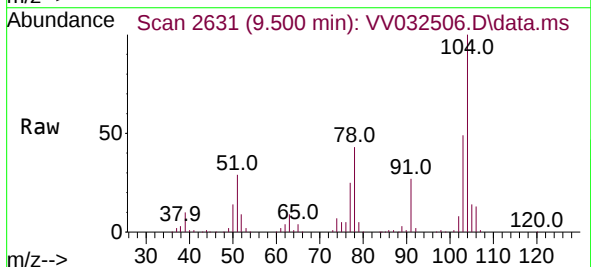
Instrument :  
MSVOA\_V  
ClientSampleId :

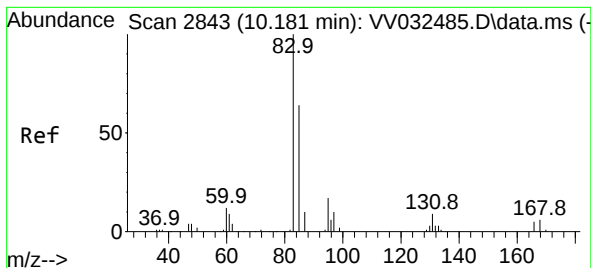
Tgt Ion:106 Resp: 75432  
Ion Ratio Lower Upper  
106 100  
91 215.1 154.8 287.4



#55  
Styrene  
Concen: 4.860 ug/L  
RT: 9.500 min Scan# 2631  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Tgt Ion:104 Resp: 131366  
Ion Ratio Lower Upper  
104 100  
78 42.8 29.9 55.5





#57

1,1,2,2-Tetrachloroethane

Concen: 5.159 ug/L

RT: 10.182 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :

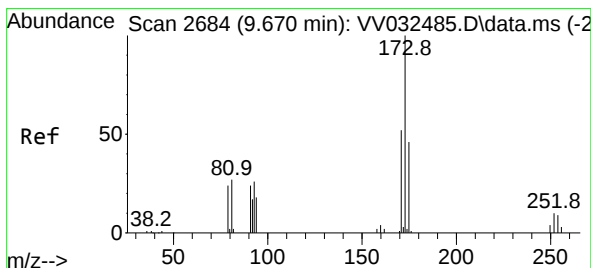
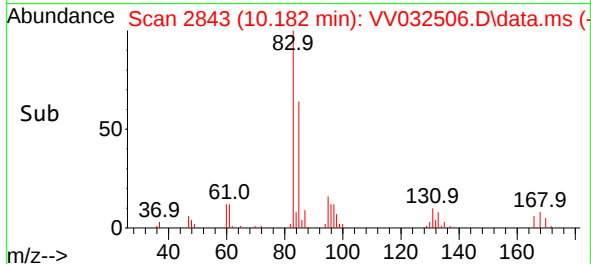
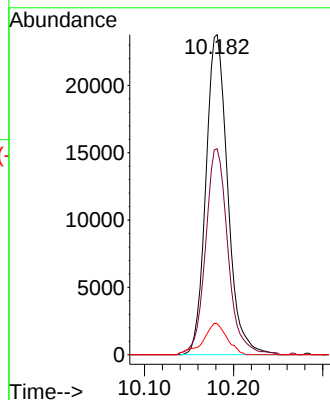
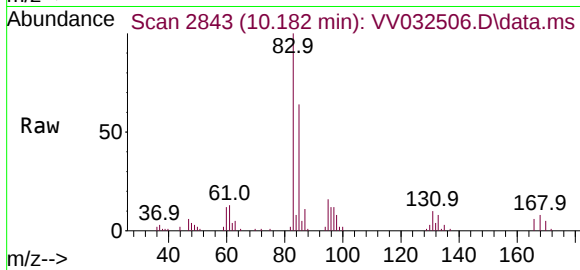
Tgt Ion: 83 Resp: 40406

Ion Ratio Lower Upper

83 100

85 64.3 43.6 81.0

131 9.7 7.0 10.6



#59

Bromoform

Concen: 4.797 ug/L

RT: 9.667 min Scan# 2683

Delta R.T. -0.003 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

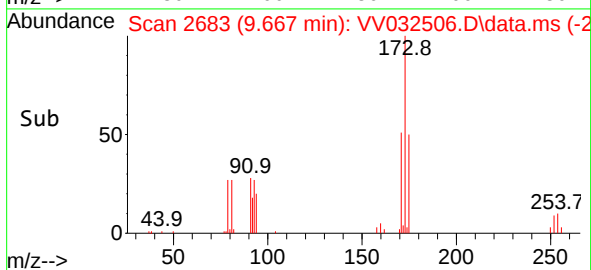
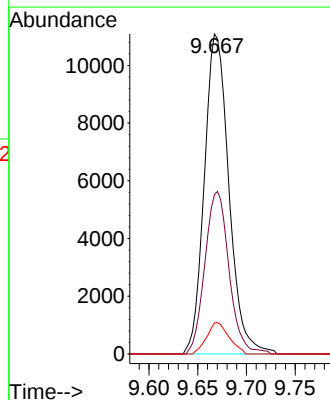
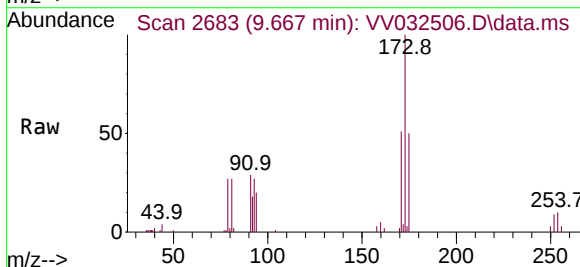
Tgt Ion: 173 Resp: 19457

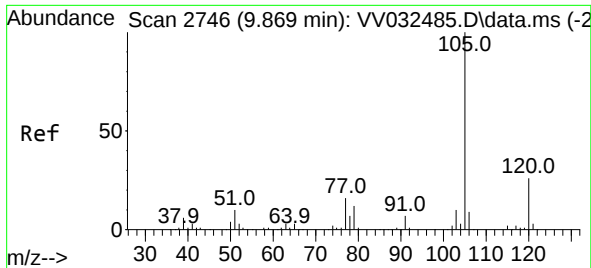
Ion Ratio Lower Upper

173 100

175 49.9 38.2 57.2

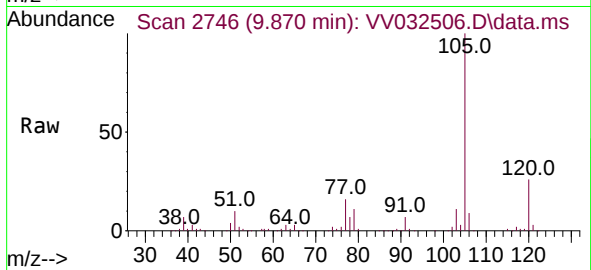
254 8.9 7.0 10.4



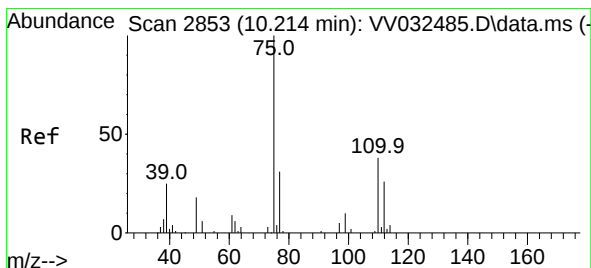
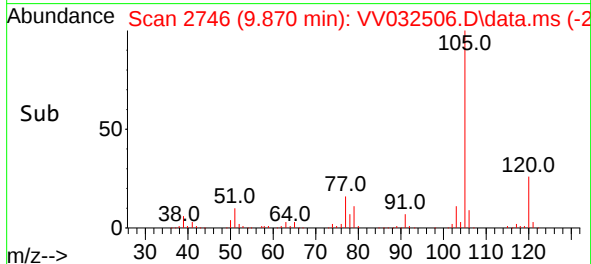
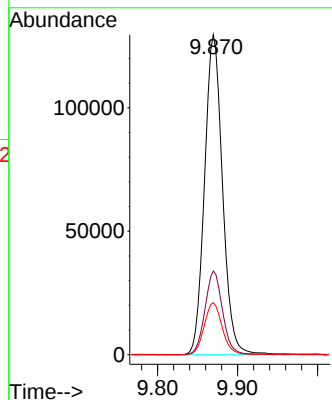


#60  
Isopropylbenzene  
Concen: 4.678 ug/L  
RT: 9.870 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :

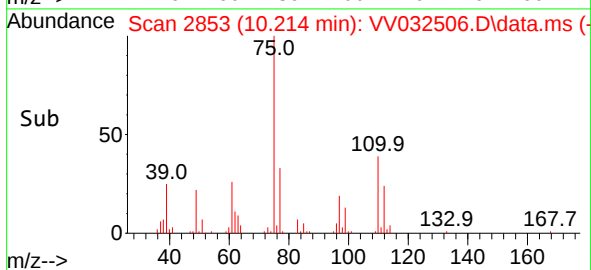
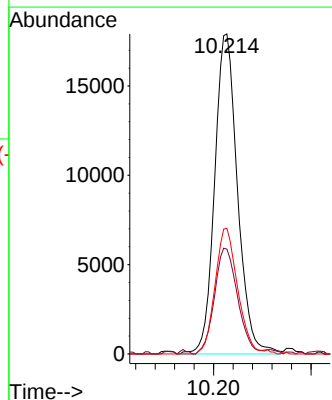
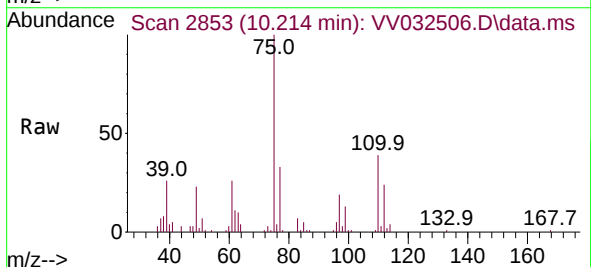


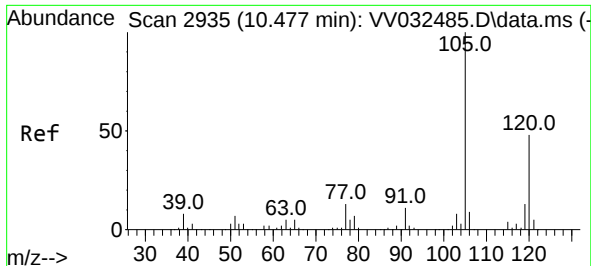
Tgt Ion:105 Resp: 202818  
Ion Ratio Lower Upper  
105 100  
120 25.6 21.0 31.6  
77 16.2 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 4.922 ug/L  
RT: 10.214 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

Tgt Ion: 75 Resp: 29224  
Ion Ratio Lower Upper  
75 100  
77 33.4 26.2 39.2  
110 38.9 30.6 46.0





#62

1,3,5-Trimethylbenzene

Concen: 4.332 ug/L

RT: 10.481 min Scan# 2935

Delta R.T. 0.003 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

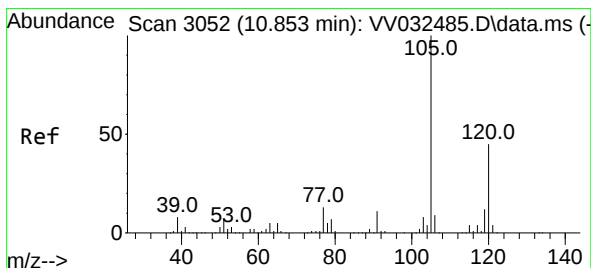
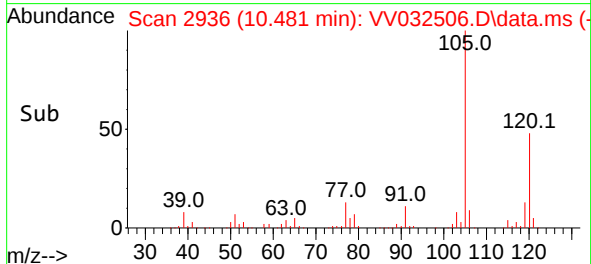
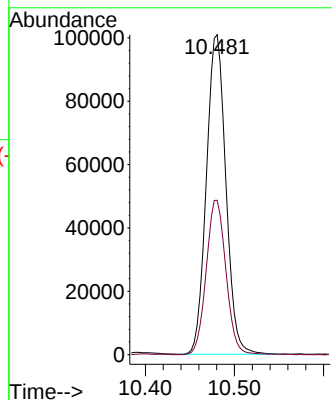
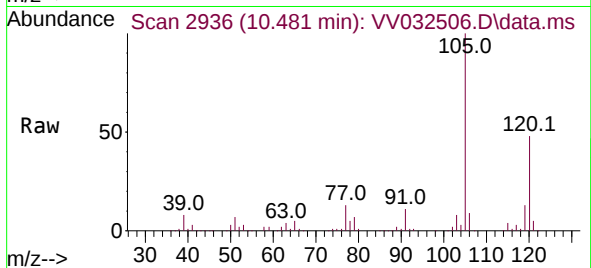
ClientSampleId :

Tgt Ion:105 Resp: 153074

Ion Ratio Lower Upper

105 100

120 49.0 39.9 59.9



#63

1,2,4-Trimethylbenzene

Concen: 4.499 ug/L

RT: 10.854 min Scan# 3052

Delta R.T. 0.000 min

Lab File: VV032506.D

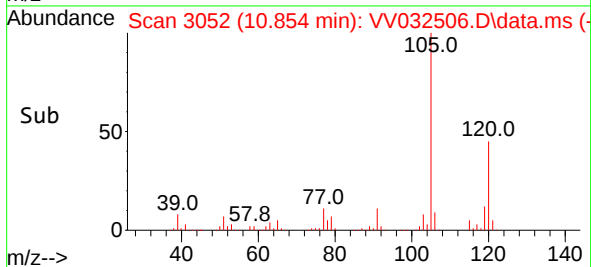
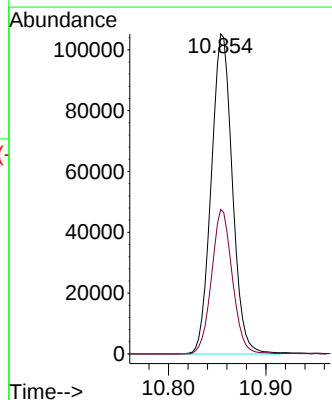
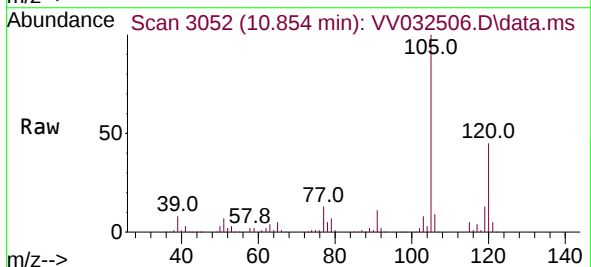
Acq: 19 Oct 2023 18:54

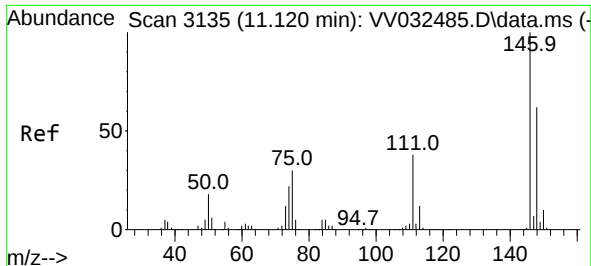
Tgt Ion:105 Resp: 158275

Ion Ratio Lower Upper

105 100

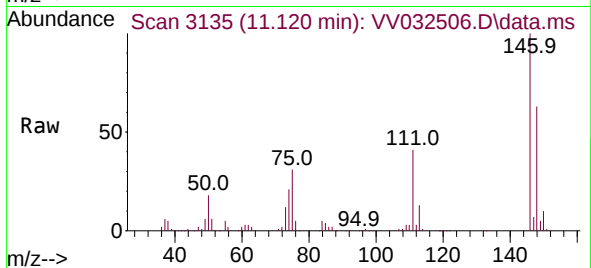
120 44.4 36.2 54.4



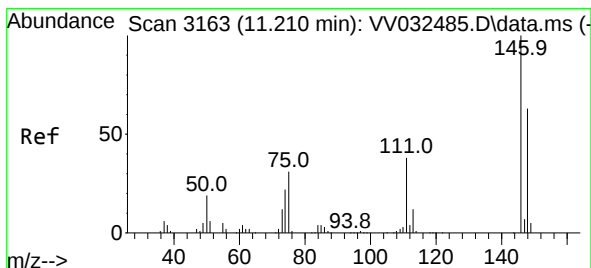
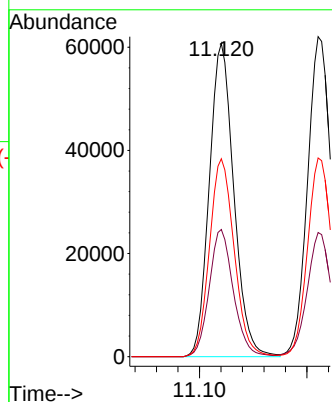
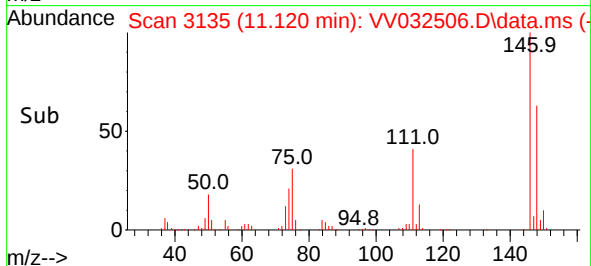


#64  
1,3-Dichlorobenzene  
Concen: 4.643 ug/L  
RT: 11.120 min Scan# 3135  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54

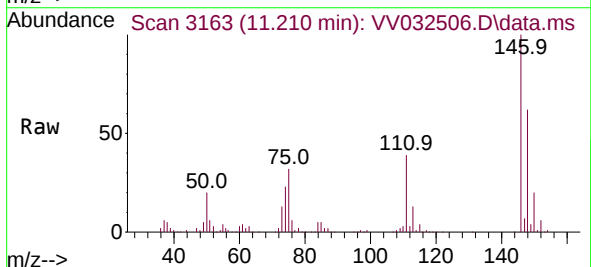
Instrument :  
MSVOA\_V  
ClientSampleId :



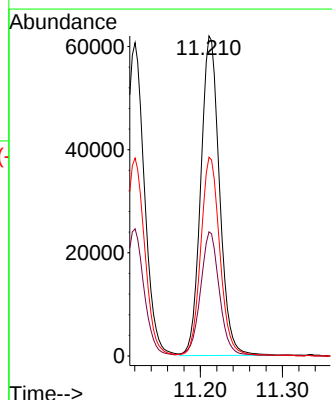
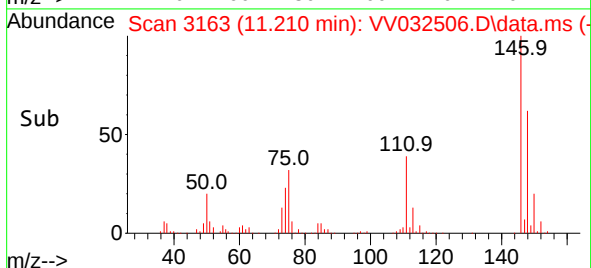
Tgt Ion:146 Resp: 96159  
Ion Ratio Lower Upper  
146 100  
111 40.6 27.8 51.6  
148 63.2 43.7 81.1

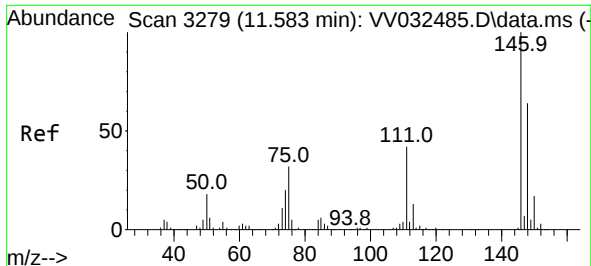


#65  
1,4-Dichlorobenzene  
Concen: 4.719 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. 0.000 min  
Lab File: VV032506.D  
Acq: 19 Oct 2023 18:54



Tgt Ion:146 Resp: 98049  
Ion Ratio Lower Upper  
146 100  
111 38.8 26.9 49.9  
148 62.1 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 4.727 ug/L

RT: 11.583 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :

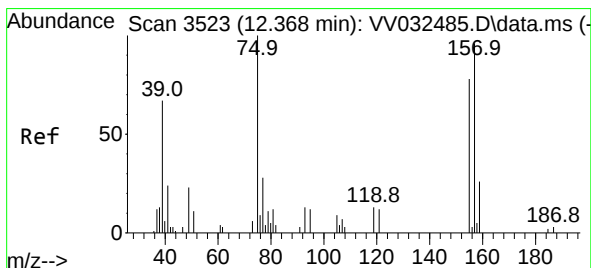
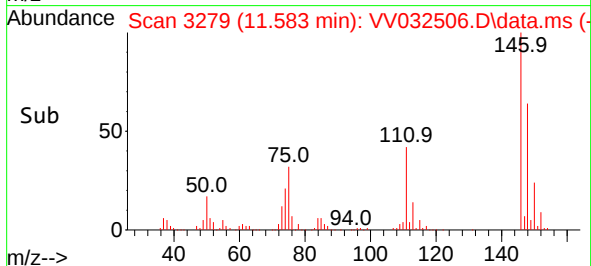
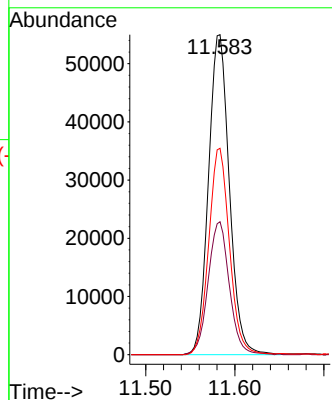
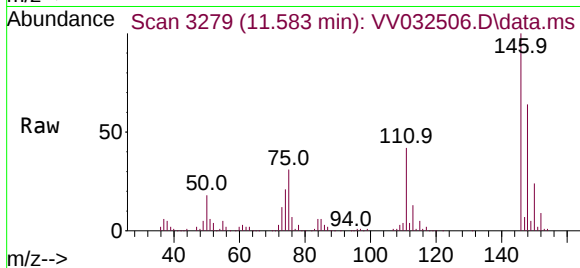
Tgt Ion:146 Resp: 89285

Ion Ratio Lower Upper

146 100

111 41.5 32.8 49.2

148 64.5 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 4.822 ug/L

RT: 12.368 min Scan# 3523

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

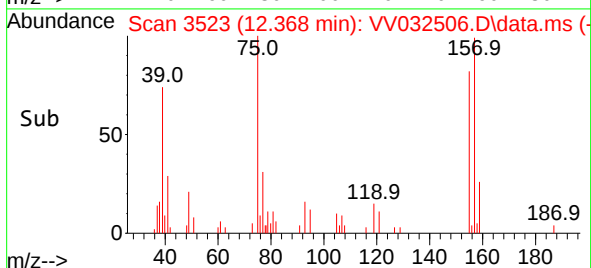
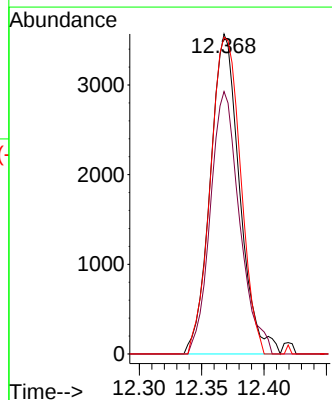
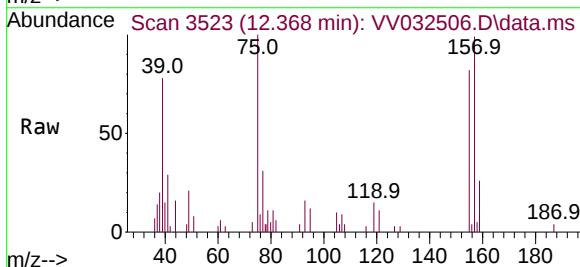
Tgt Ion: 75 Resp: 5850

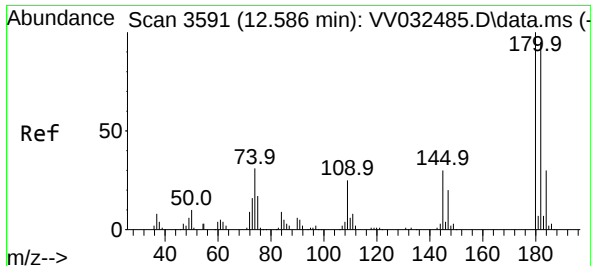
Ion Ratio Lower Upper

75 100

155 82.0 70.2 105.4

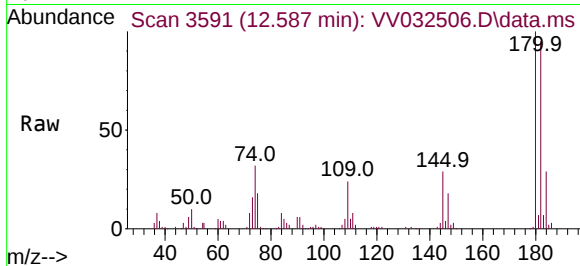
157 99.0 90.6 135.8



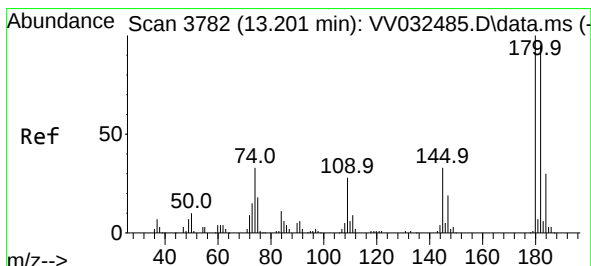
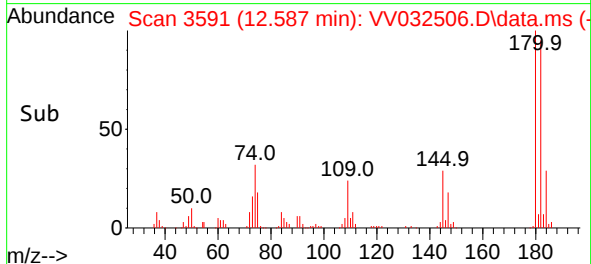
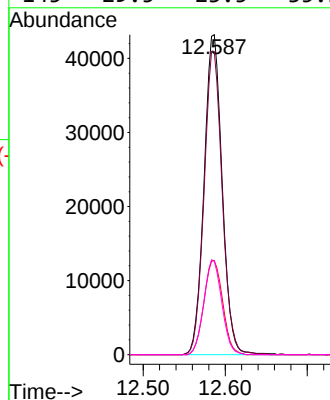


#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.371 ug/L  
 RT: 12.587 min Scan# 3591  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :

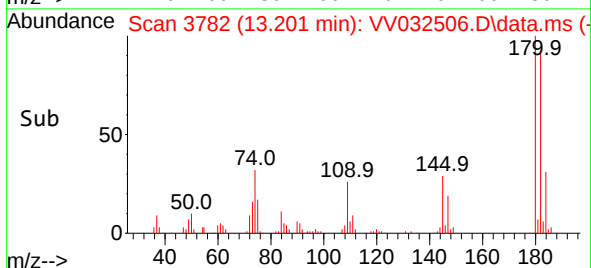
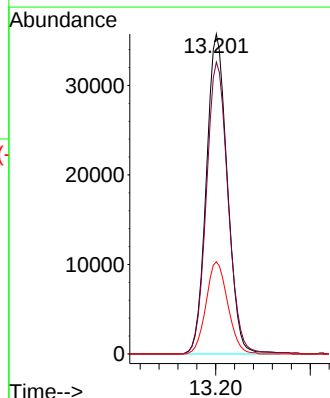
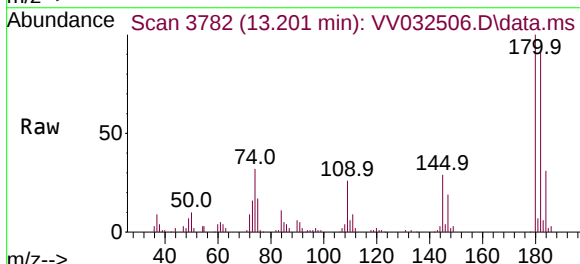


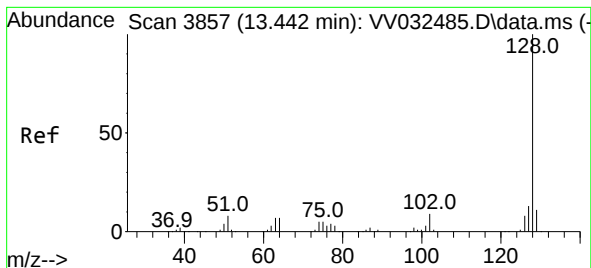
Tgt Ion:180 Resp: 66295  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 74.6 112.0  
 184 30.5 24.1 36.1  
 145 29.5 23.5 35.3



#70  
 1,2,4-trichlorobenzene  
 Concen: 4.095 ug/L  
 RT: 13.201 min Scan# 3782  
 Delta R.T. 0.000 min  
 Lab File: VV032506.D  
 Acq: 19 Oct 2023 18:54

Tgt Ion:180 Resp: 55094  
 Ion Ratio Lower Upper  
 180 100  
 182 94.1 76.5 114.7  
 145 29.8 24.3 36.5





#71

Naphthalene

Concen: 3.775 ug/L

RT: 13.442 min Scan# 3857

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Instrument :

MSVOA\_V

ClientSampleId :

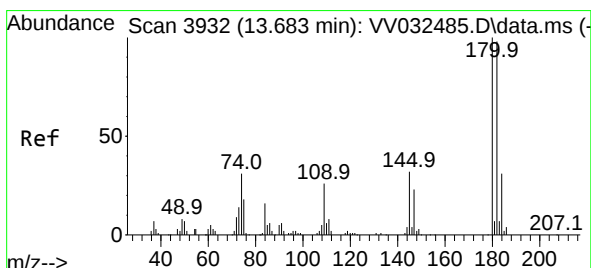
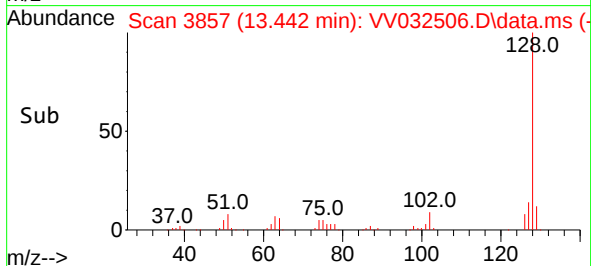
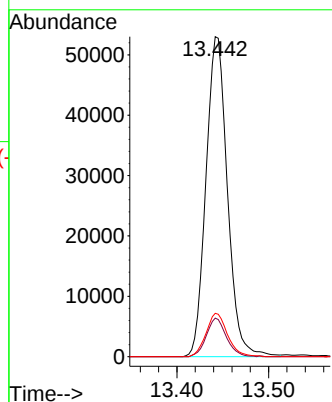
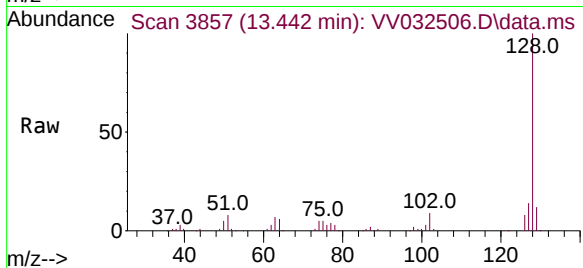
Tgt Ion:128 Resp: 86270

Ion Ratio Lower Upper

128 100

129 11.2 9.0 13.4

127 13.5 10.2 15.2



#72

1,2,3-Trichlorobenzene

Concen: 4.263 ug/L

RT: 13.683 min Scan# 3932

Delta R.T. 0.000 min

Lab File: VV032506.D

Acq: 19 Oct 2023 18:54

Tgt Ion:180 Resp: 49417

Ion Ratio Lower Upper

180 100

182 96.7 77.0 115.4

145 33.8 25.7 38.5

