

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW102323\  
 Data File : VW032561.D  
 Acq On : 23 Oct 2023 10:52  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 24 04:46:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Oct 21 02:44:24 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535  | 114   | 109831   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786  | 117   | 112829   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188 | 152   | 56759    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 34004    | 3.807    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 76.200%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 34080    | 4.700    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 94.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 15273    | 4.054    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 81.000%  |
| 20) 2-Butanone-d5             | 3.825  | 46    | 121139   | 53.611   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 107.220% |
| 24) Chloroform-d              | 4.249  | 84    | 78630    | 4.990    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 99.800%  |
| 26) 1,2-Dichloroethane-d4     | 4.944  | 65    | 40069    | 5.368    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 107.400% |
| 32) Benzene-d6                | 4.960  | 84    | 136348   | 4.107    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 82.200%  |
| 36) 1,2-Dichloropropane-d6    | 5.989  | 67    | 44377    | 4.034    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 80.600%  |
| 41) Toluene-d8                | 7.243  | 98    | 121929   | 4.016    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 80.400%  |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 18222    | 4.675    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 93.400%  |
| 46) 2-Hexanone-d5             | 8.030  | 63    | 102448   | 55.862   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 111.720% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156 | 84    | 40806    | 5.304    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 106.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 46199    | 4.386    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 87.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 54884    | 4.484    | ug/L   | 98       |
| 3) Chloromethane              | 1.214  | 50    | 55384    | 4.489    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.282  | 62    | 55327    | 4.702    | ug/L   | 99       |
| 6) Bromomethane               | 1.487  | 94    | 32724    | 4.603    | ug/L   | 99       |
| 8) Chloroethane               | 1.548  | 64    | 36310    | 5.125    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 76431    | 5.416    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066  | 101   | 46758    | 5.468    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 42568    | 5.285    | ug/L   | 89       |
| 13) Acetone                   | 2.153  | 43    | 91454    | 52.512   | ug/L   | 74       |
| 14) Carbon disulfide          | 2.240  | 76    | 114224   | 4.056    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.391  | 43    | 19675    | 5.018    | ug/L   | 96       |
| 16) Methylene chloride        | 2.445  | 84    | 46873    | 4.463    | ug/L   | 96       |
| 17) Methyl tert-butyl Ether   | 2.706  | 73    | 99312    | 4.529    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 2.693  | 96    | 41290    | 4.475    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.111  | 63    | 82192    | 4.736    | ug/L   | 99       |
| 21) 2-Butanone                | 3.902  | 43    | 112785   | 41.412   | ug/L   | 95       |
| 22) cis-1,2-Dichloroethene    | 3.815  | 96    | 45407    | 4.571    | ug/L   | 95       |
| 23) Bromochloromethane        | 4.150  | 128   | 20390    | 4.879    | ug/L   | 95       |
| 25) Chloroform                | 4.278  | 83    | 86343    | 5.070    | ug/L   | 96       |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

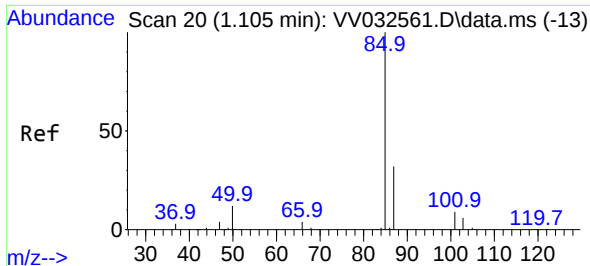
Quant Time: Oct 24 04:46:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Oct 21 02:44:24 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 51882    | 5.157  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane     | 4.510  | 97   | 72515    | 4.727  | ug/L  | 97       |
| 30) Cyclohexane               | 4.580  | 56   | 64333    | 3.816  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.732  | 117  | 61664    | 4.751  | ug/L  | 99       |
| 33) Benzene                   | 5.008  | 78   | 177076   | 4.458  | ug/L  | 100      |
| 34) Trichloroethene           | 5.834  | 95   | 48920    | 4.511  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.050  | 83   | 70869    | 4.223  | ug/L  | 95       |
| 37) 1,2-Dichloropropane       | 6.095  | 63   | 49413    | 4.651  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.432  | 83   | 62677    | 4.965  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.957  | 75   | 68562    | 4.535  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 296274   | 44.069 | ug/L  | 98       |
| 42) Toluene                   | 7.317  | 91   | 196163   | 4.632  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.583  | 75   | 56356    | 4.536  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97   | 34442    | 4.596  | ug/L  | 98       |
| 47) Tetrachloroethene         | 7.905  | 164  | 36404    | 4.427  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.079  | 43   | 223898   | 47.202 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.178  | 129  | 38197    | 4.896  | ug/L  | 95       |
| 50) 1,2-Dibromoethane         | 8.284  | 107  | 31534    | 4.449  | ug/L  | 94       |
| 51) Chlorobenzene             | 8.815  | 112  | 121699   | 4.464  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.947  | 91   | 208634   | 4.424  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.075  | 106  | 80238    | 4.588  | ug/L  | 98       |
| 54) o-Xylene                  | 9.481  | 106  | 74318    | 4.410  | ug/L  | 97       |
| 55) Styrene                   | 9.497  | 104  | 133669   | 4.697  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 40741    | 4.941  | ug/L  | 96       |
| 59) Bromoform                 | 9.667  | 173  | 20438    | 4.952  | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.870  | 105  | 204273   | 4.631  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 28881    | 4.781  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 160098   | 4.453  | ug/L  | 97       |
| 63) 1,2,4-Trimethylbenzene    | 10.853 | 105  | 160728   | 4.490  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.120 | 146  | 95623    | 4.538  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 96619    | 4.570  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 88993    | 4.630  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 6083     | 4.928  | ug/L  | 86       |
| 69) 1,3,5-Trichlorobenzene    | 12.587 | 180  | 68034    | 4.409  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 55295    | 4.040  | ug/L  | 98       |
| 71) Naphthalene               | 13.442 | 128  | 92137    | 3.962  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 51798    | 4.392  | ug/L  | 99       |

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

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QLast Update : Sat Oct 21 02:44:24 2023  
Response via : Initial Calibration

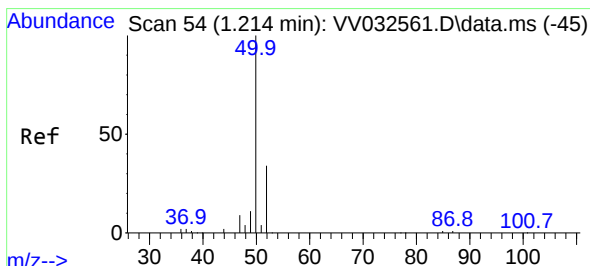
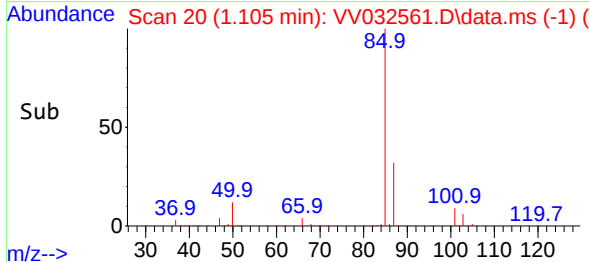
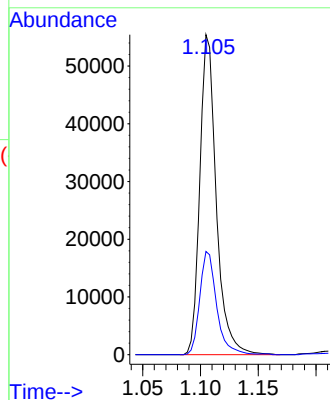
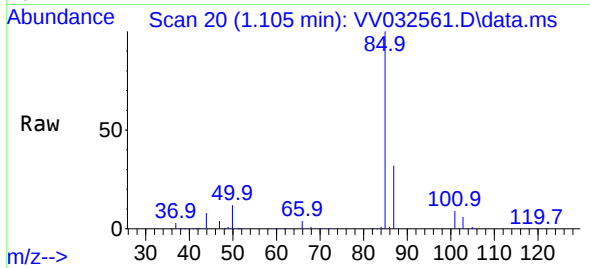




#2  
 Dichlorodifluoromethane  
 Concen: 4.484 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

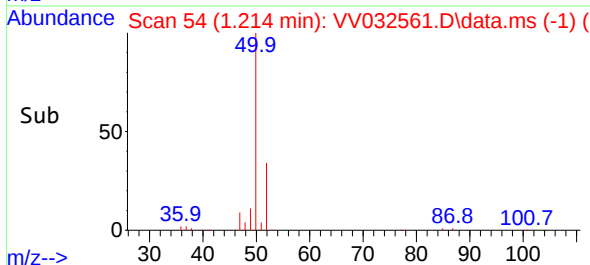
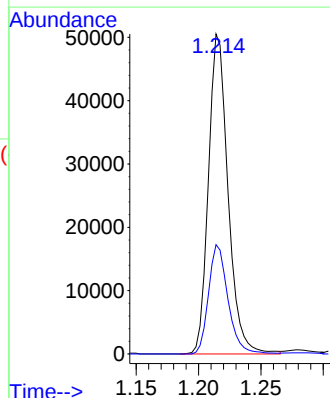
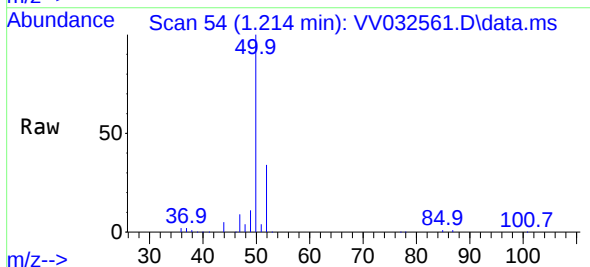
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tgt Ion: 85 Resp: 54884  
 Ion Ratio Lower Upper  
 85 100  
 87 33.0 25.5 38.3

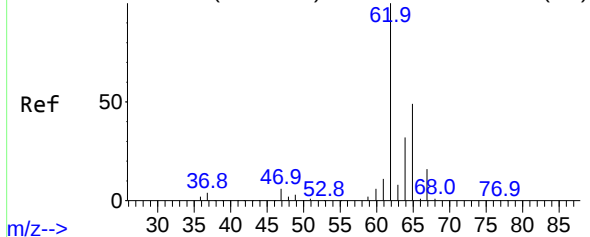


#3  
 Chloromethane  
 Concen: 4.489 ug/L  
 RT: 1.214 min Scan# 54  
 Delta R.T. -0.003 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

Tgt Ion: 50 Resp: 55384  
 Ion Ratio Lower Upper  
 50 100  
 52 34.1 23.0 42.6



Abundance Scan 75 (1.282 min): VV032561.D\data.ms (-66)



#5

Vinyl chloride

Concen: 4.702 ug/L

RT: 1.282 min Scan# 75

Delta R.T. 0.000 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

ClientSampleId :

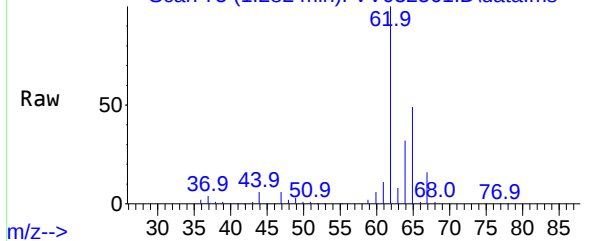
Tgt Ion: 62 Resp: 55327

Ion Ratio Lower Upper

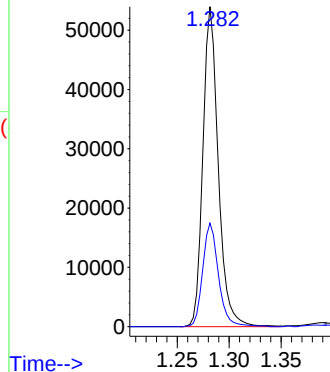
62 100

64 32.4 23.1 42.9

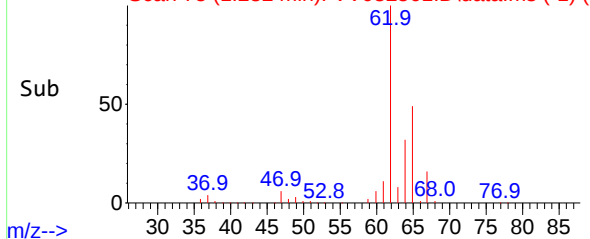
Abundance Scan 75 (1.282 min): VV032561.D\data.ms



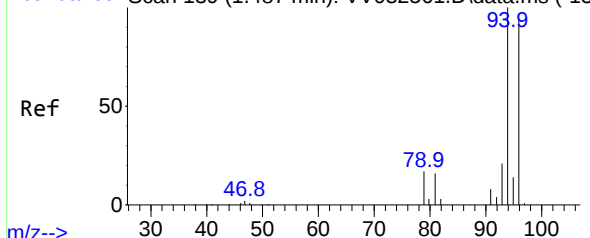
Abundance



Abundance Scan 75 (1.282 min): VV032561.D\data.ms (-1)



Abundance Scan 139 (1.487 min): VV032561.D\data.ms (-13)



#6

Bromomethane

Concen: 4.603 ug/L

RT: 1.487 min Scan# 139

Delta R.T. 0.000 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

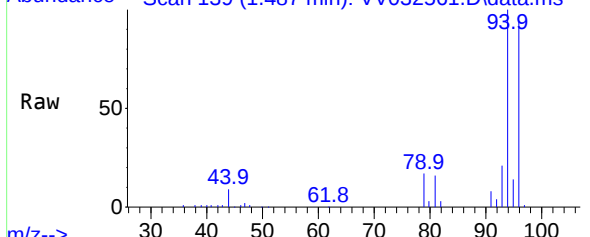
Tgt Ion: 94 Resp: 32724

Ion Ratio Lower Upper

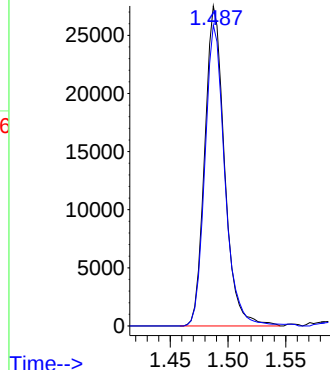
94 100

96 94.0 66.8 124.2

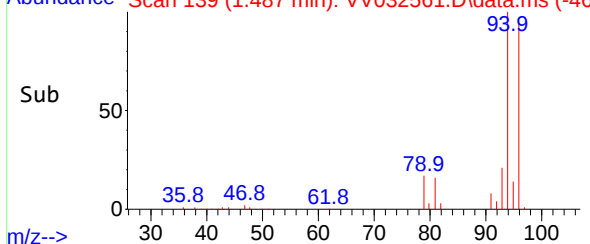
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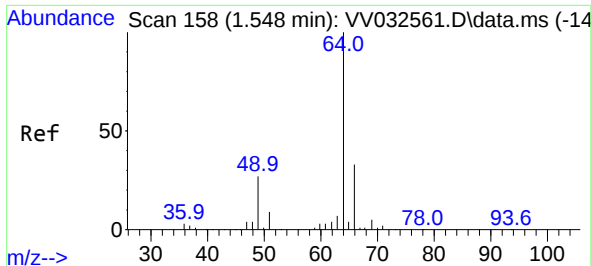


Abundance



Abundance Scan 139 (1.487 min): VV032561.D\data.ms (-46)

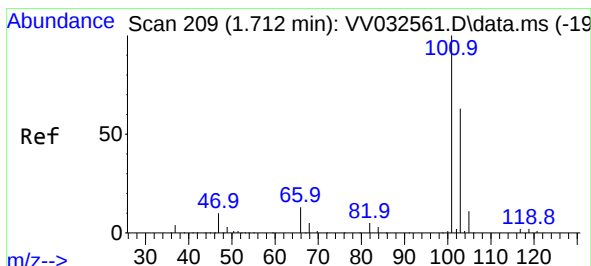
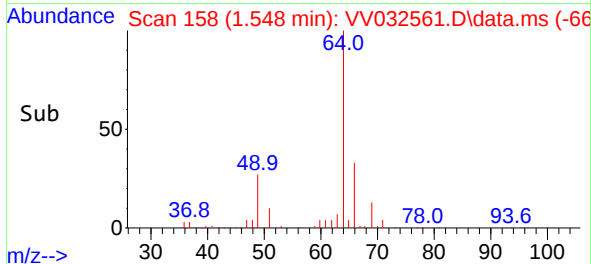
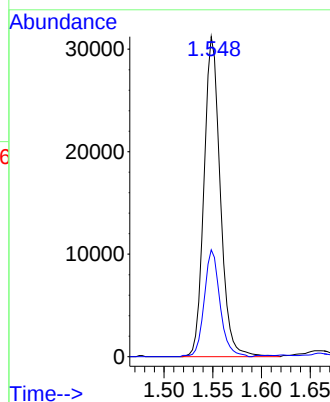
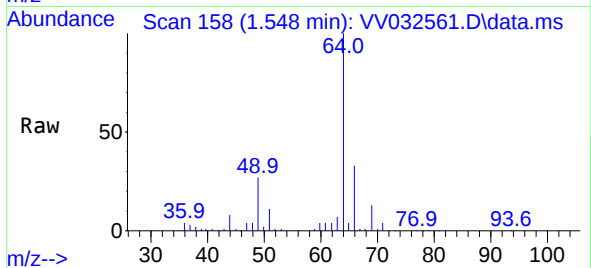




#8  
Chloroethane  
Concen: 5.125 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

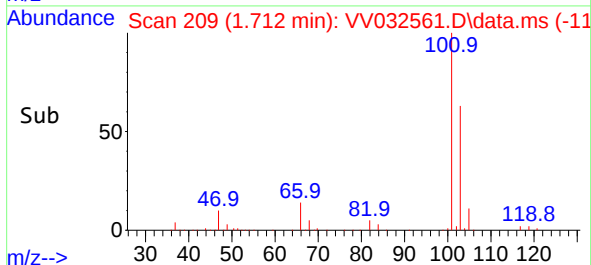
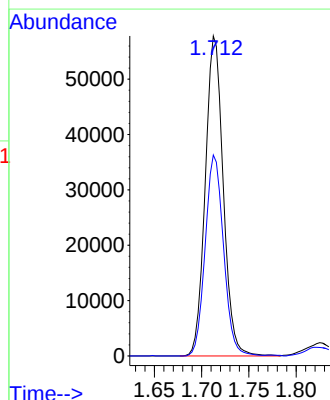
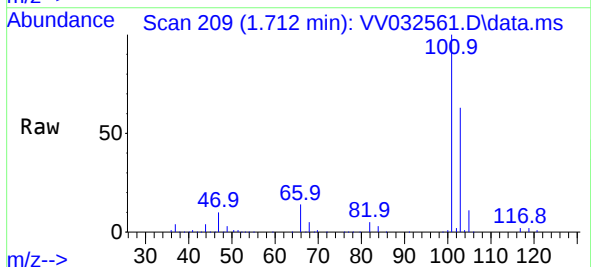
Instrument :  
MSVOA\_V  
ClientSampleId :

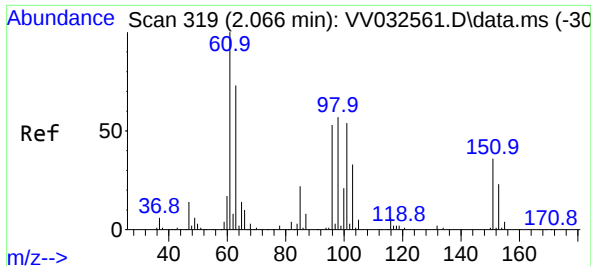
Tgt Ion: 64 Resp: 36310  
Ion Ratio Lower Upper  
64 100  
66 33.4 22.6 42.0



#9  
Trichlorofluoromethane  
Concen: 5.416 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion:101 Resp: 76431  
Ion Ratio Lower Upper  
101 100  
103 64.1 51.4 77.2

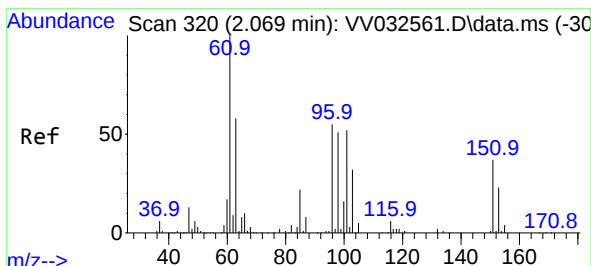
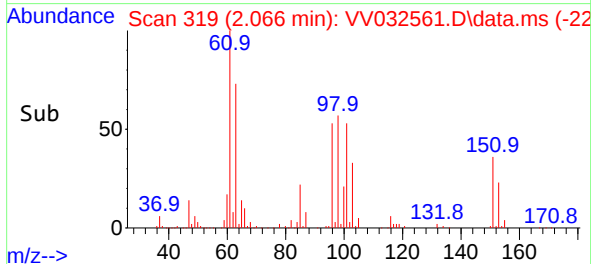
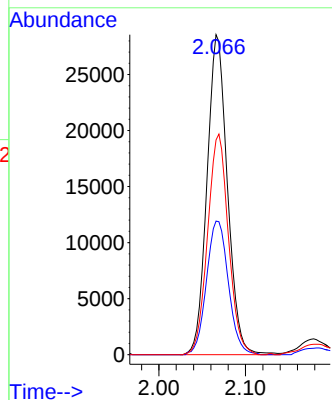
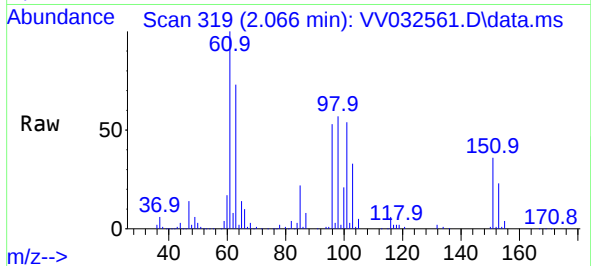




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.468 ug/L  
RT: 2.066 min Scan# 319  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

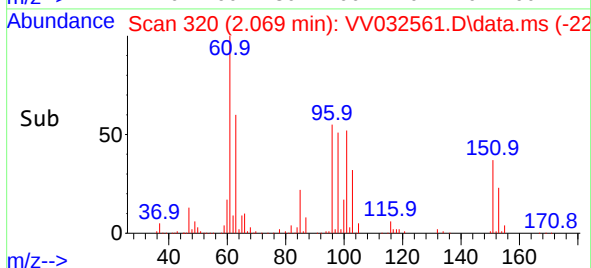
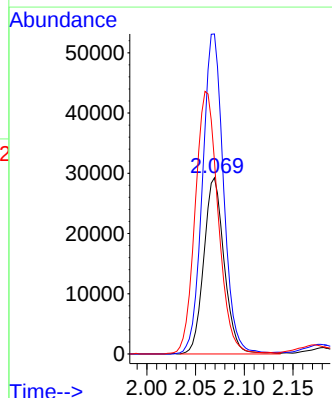
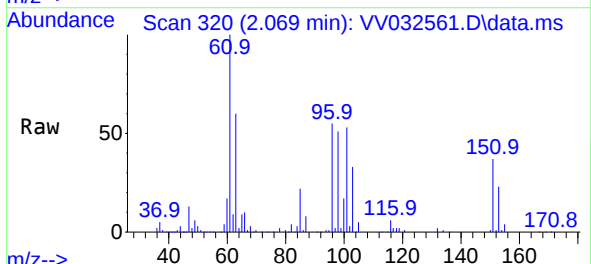
Instrument :  
MSVOA\_V  
ClientSampleId :

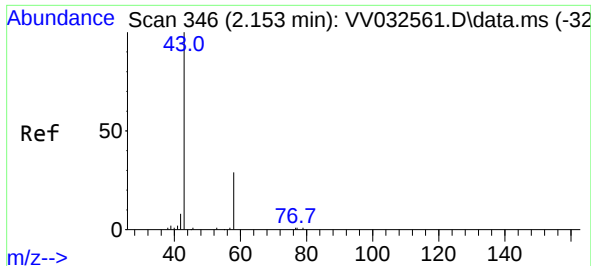
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Ion Ratio Lower Upper  
101 100  
85 44.7 35.0 52.6  
151 70.4 56.6 84.8



#12  
1,1-Dichloroethene  
Concen: 5.285 ug/L  
RT: 2.069 min Scan# 320  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 96 Resp: 42568  
Ion Ratio Lower Upper  
96 100  
61 181.6 127.3 236.3  
63 109.6 98.3 182.7





#13

Acetone

Concen: 52.512 ug/L

RT: 2.153 min Scan# 346

Delta R.T. 0.010 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

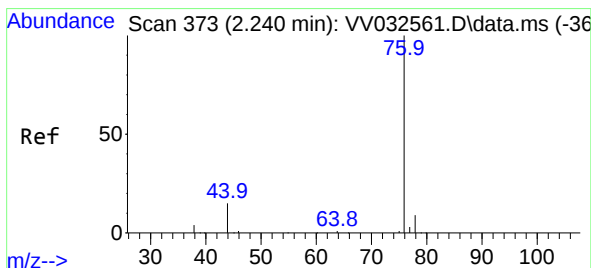
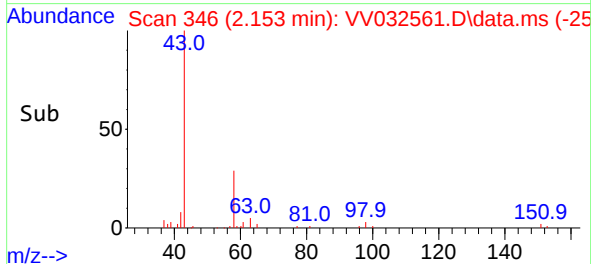
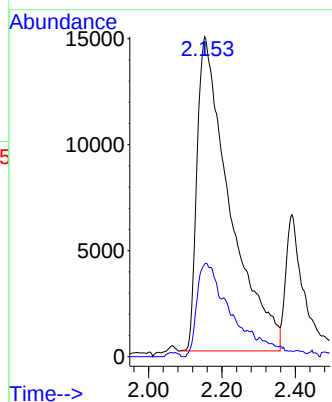
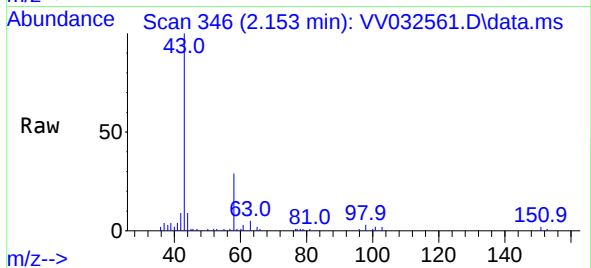
ClientSampleId :

Tgt Ion: 43 Resp: 91454

Ion Ratio Lower Upper

43 100

58 18.5 0.0 66.0



#14

Carbon disulfide

Concen: 4.056 ug/L

RT: 2.240 min Scan# 373

Delta R.T. -0.003 min

Lab File: VV032561.D

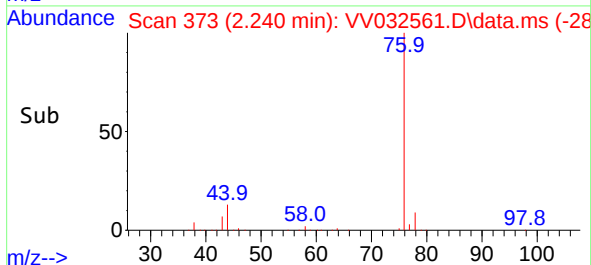
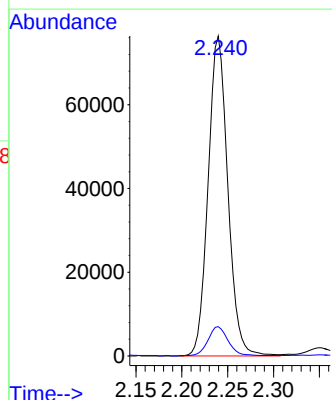
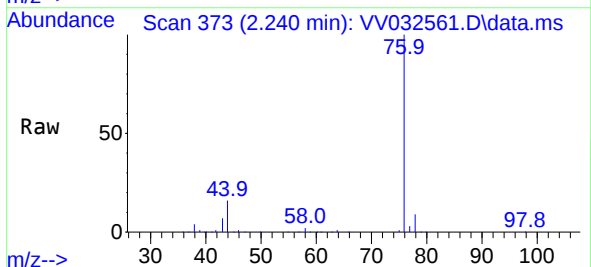
Acq: 23 Oct 2023 10:52

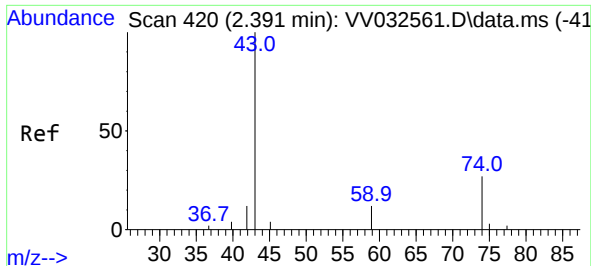
Tgt Ion: 76 Resp: 114224

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2

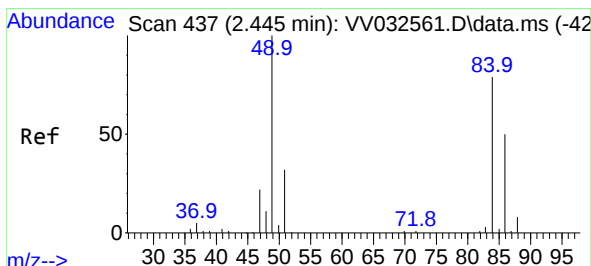
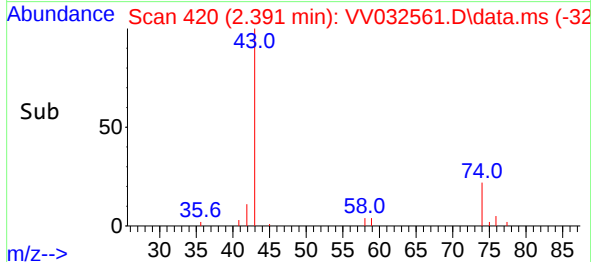
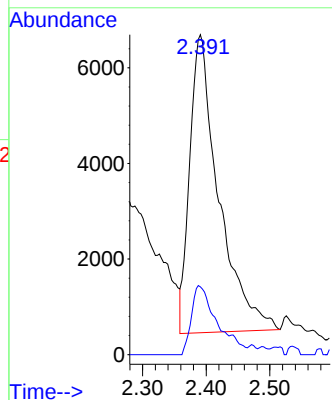
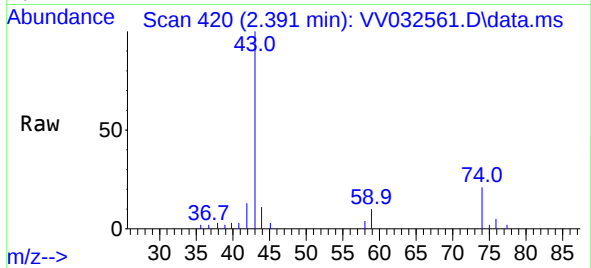




#15  
Methyl Acetate  
Concen: 5.018 ug/L  
RT: 2.391 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

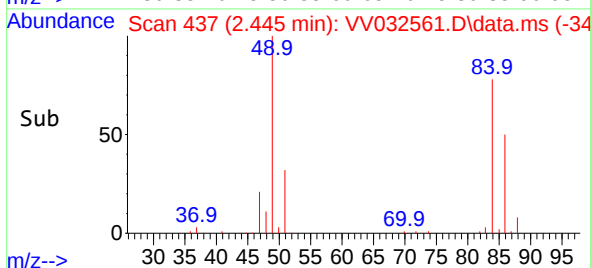
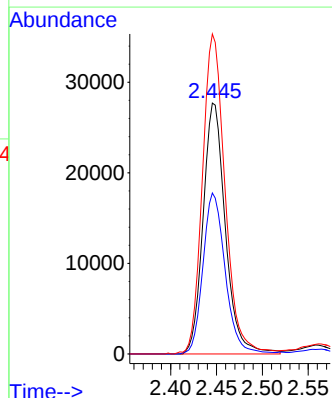
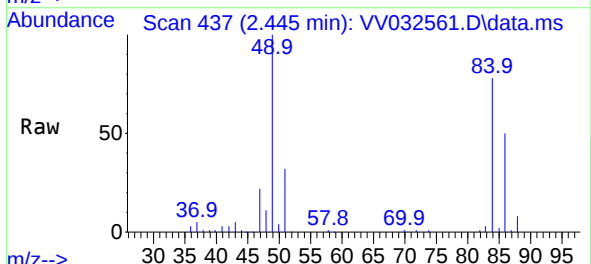
Instrument :  
MSVOA\_V  
ClientSampleId :

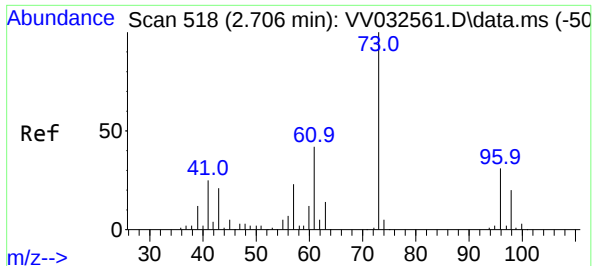
Tgt Ion: 43 Resp: 19675  
Ion Ratio Lower Upper  
43 100  
74 20.7 18.0 27.0



#16  
Methylene chloride  
Concen: 4.463 ug/L  
RT: 2.445 min Scan# 437  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 84 Resp: 46873  
Ion Ratio Lower Upper  
84 100  
86 64.2 43.2 80.2  
49 127.6 86.3 160.3

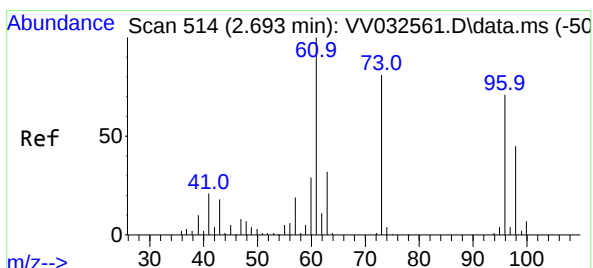
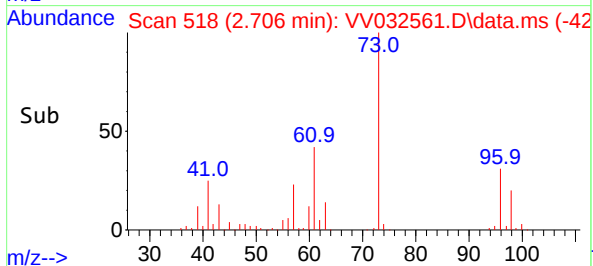
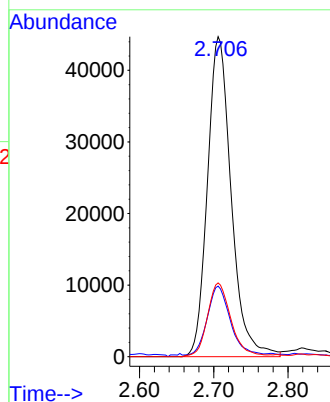
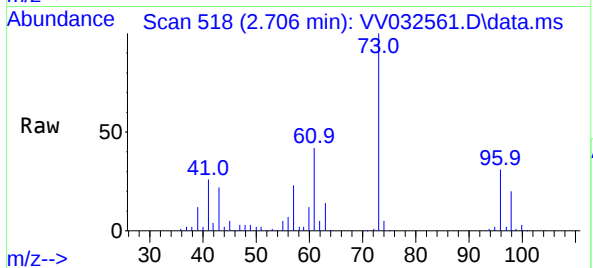




#17  
Methyl tert-butyl Ether  
Concen: 4.529 ug/L  
RT: 2.706 min Scan# 518  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

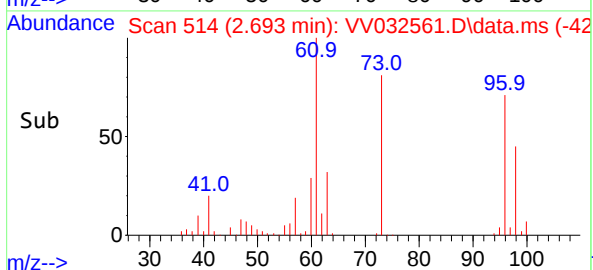
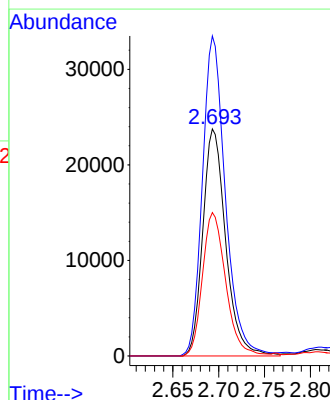
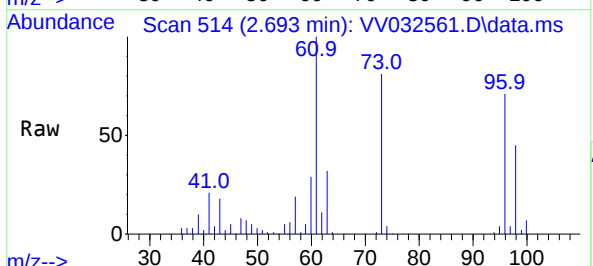
Instrument :  
MSVOA\_V  
ClientSampleId :

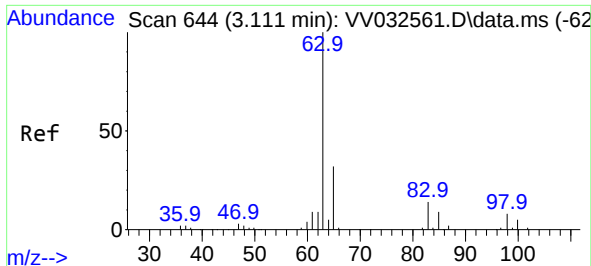
Tgt Ion: 73 Resp: 99312  
Ion Ratio Lower Upper  
73 100  
43 20.9 15.1 22.7  
57 22.8 18.3 27.5



#18  
trans-1,2-Dichloroethene  
Concen: 4.475 ug/L  
RT: 2.693 min Scan# 514  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

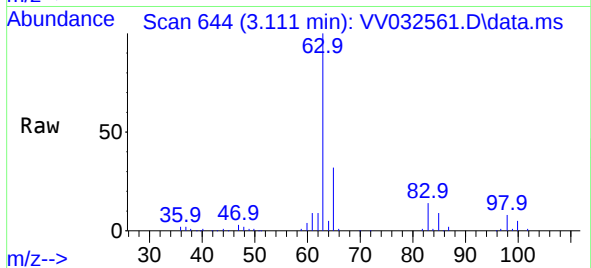
Tgt Ion: 96 Resp: 41290  
Ion Ratio Lower Upper  
96 100  
61 140.9 96.9 180.1  
98 63.1 45.3 84.1



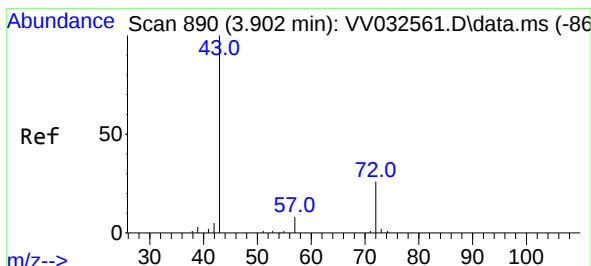
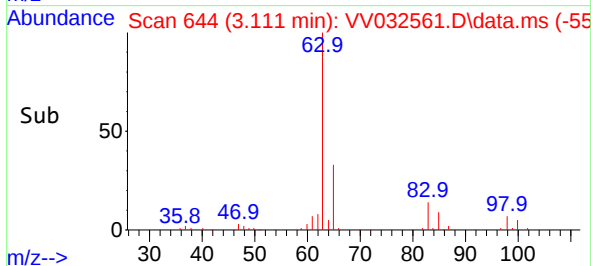
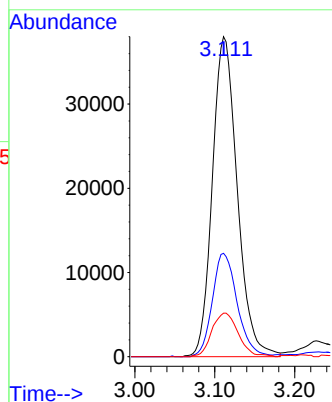


#19  
1,1-Dichloroethane  
Concen: 4.736 ug/L  
RT: 3.111 min Scan# 644  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Instrument :  
MSVOA\_V  
ClientSampleId :

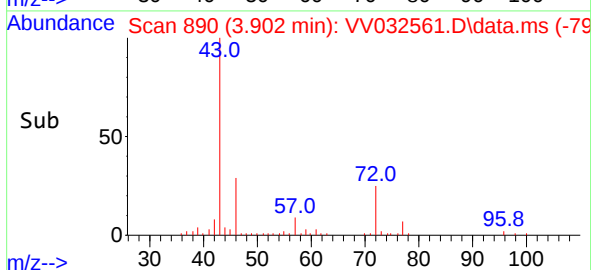
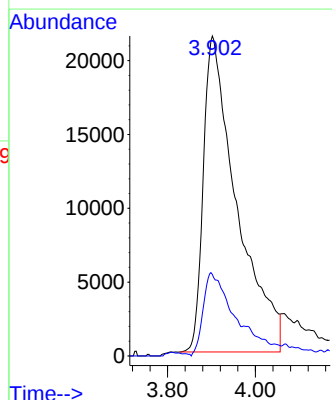
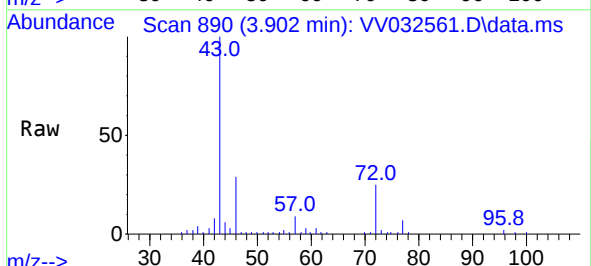


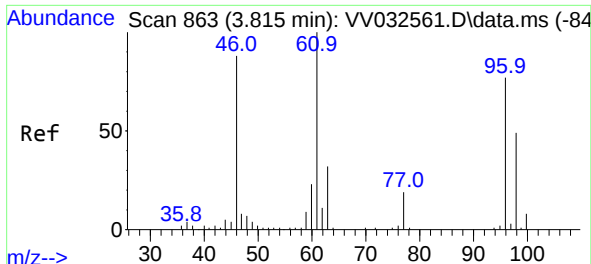
Tgt Ion: 63 Resp: 82192  
Ion Ratio Lower Upper  
63 100  
65 32.3 22.3 41.5  
83 13.6 9.0 16.6



#21  
2-Butanone  
Concen: 41.412 ug/L  
RT: 3.902 min Scan# 890  
Delta R.T. 0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

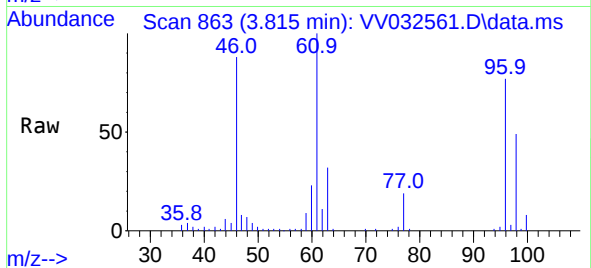
Tgt Ion: 43 Resp: 112785  
Ion Ratio Lower Upper  
43 100  
72 20.5 11.6 34.8





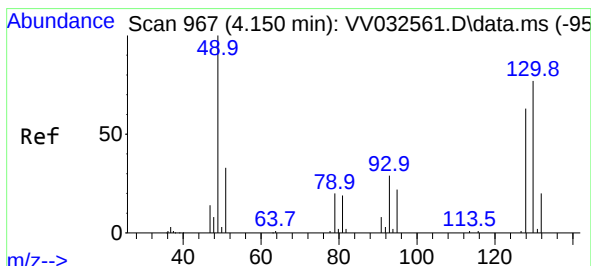
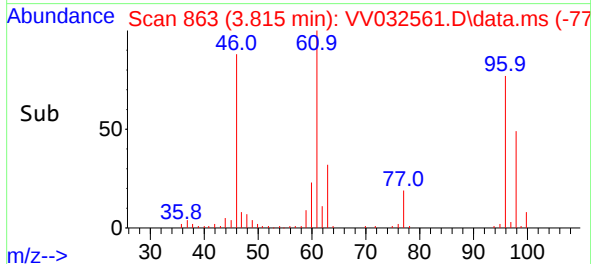
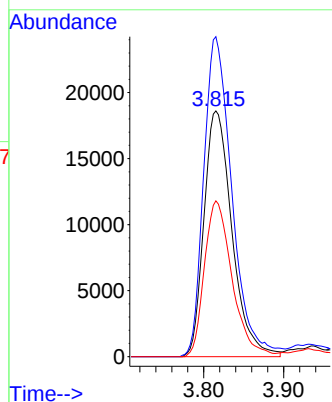
#22  
 cis-1,2-Dichloroethene  
 Concen: 4.571 ug/L  
 RT: 3.815 min Scan# 863  
 Delta R.T. -0.003 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 96 Resp: 45407

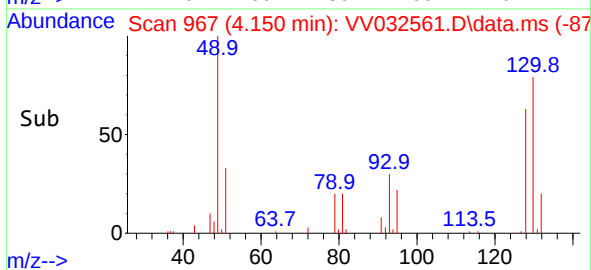
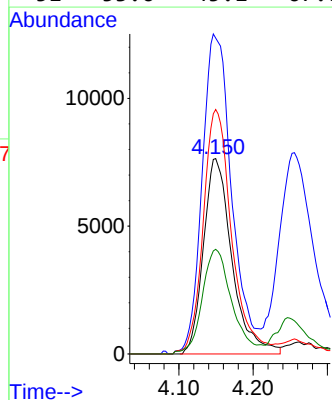
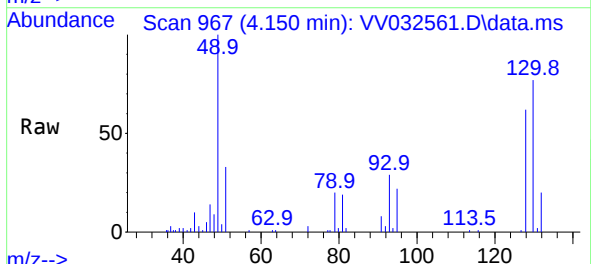
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 130.2 | 85.8  | 159.4 |
| 98  | 63.5  | 44.0  | 81.6  |

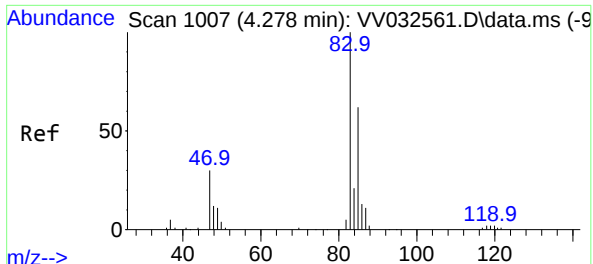


#23  
 Bromochloromethane  
 Concen: 4.879 ug/L  
 RT: 4.150 min Scan# 967  
 Delta R.T. -0.003 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

Tgt Ion: 128 Resp: 20390

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 161.7 | 121.2 | 225.0 |
| 130 | 125.2 | 88.2  | 163.8 |
| 51  | 53.6  | 45.1  | 67.7  |

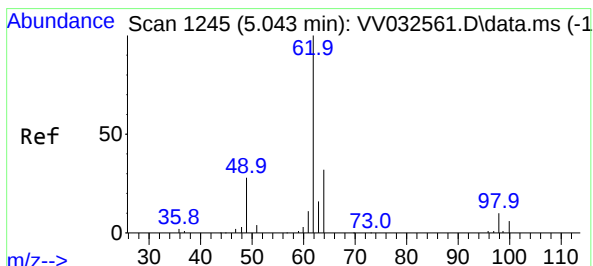
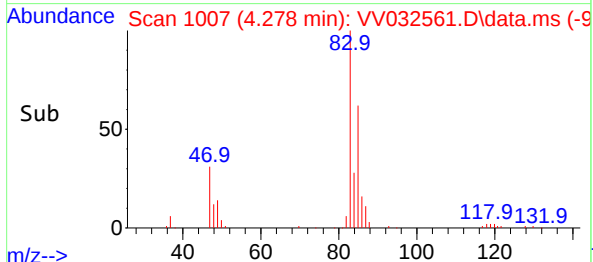
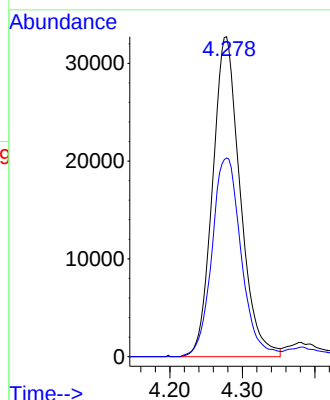
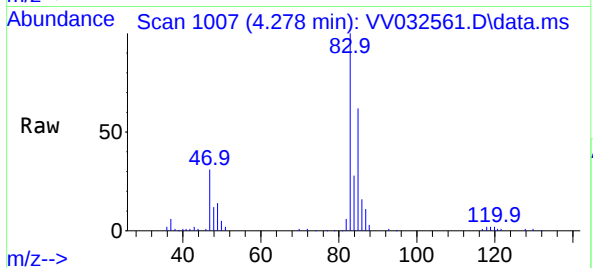




#25  
Chloroform  
Concen: 5.070 ug/L  
RT: 4.278 min Scan# 1007  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

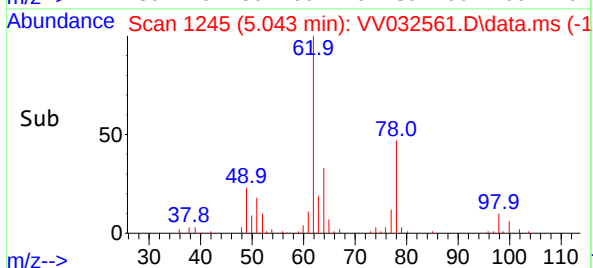
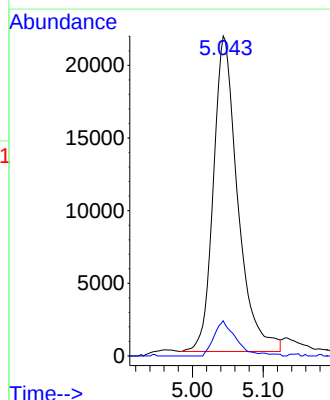
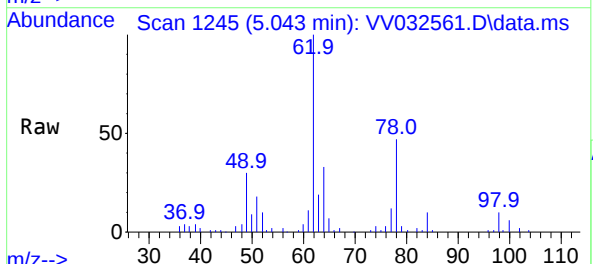
Instrument :  
MSVOA\_V  
ClientSampleId :

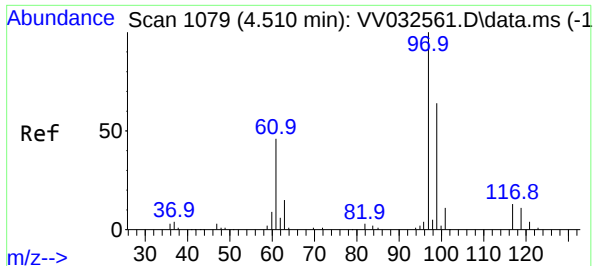
Tgt Ion: 83 Resp: 86343  
Ion Ratio Lower Upper  
83 100  
85 62.1 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 5.157 ug/L  
RT: 5.043 min Scan# 1245  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 62 Resp: 51882  
Ion Ratio Lower Upper  
62 100  
98 11.0 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 4.727 ug/L

RT: 4.510 min Scan# 1079

Delta R.T. -0.006 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

ClientSampleId :

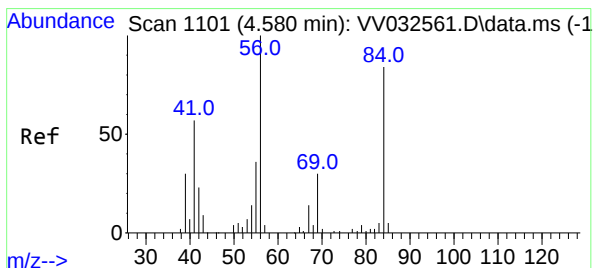
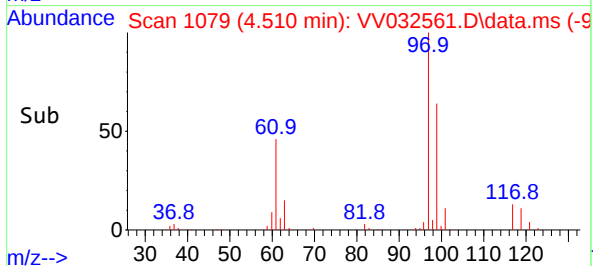
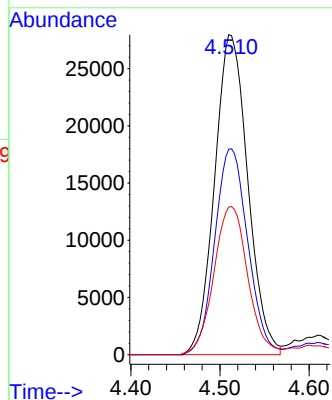
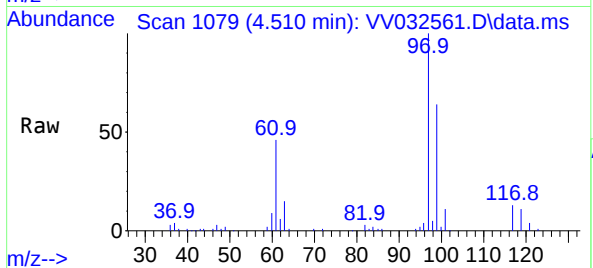
Tgt Ion: 97 Resp: 72515

Ion Ratio Lower Upper

97 100

99 64.2 50.1 75.1

61 47.3 35.1 52.7



#30

Cyclohexane

Concen: 3.816 ug/L

RT: 4.580 min Scan# 1101

Delta R.T. -0.006 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

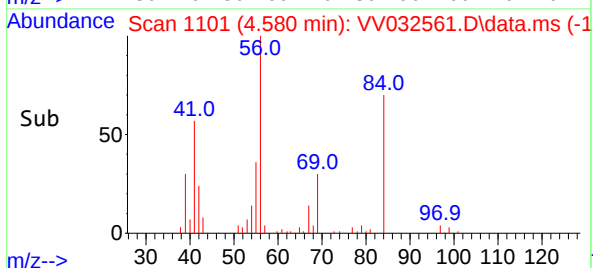
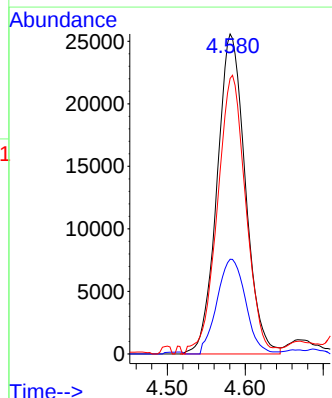
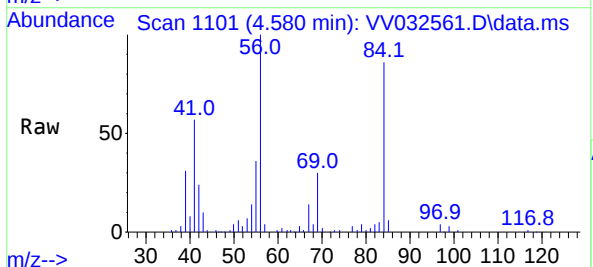
Tgt Ion: 56 Resp: 64333

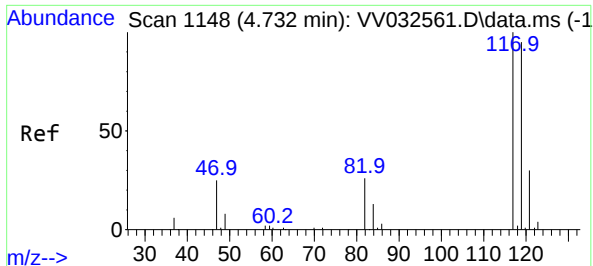
Ion Ratio Lower Upper

56 100

69 29.9 24.2 36.2

84 87.8 68.1 102.1

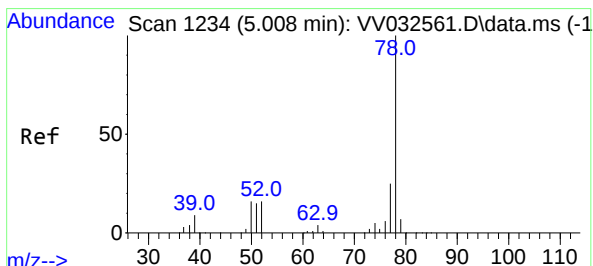
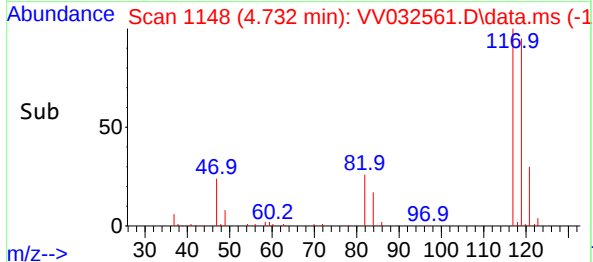
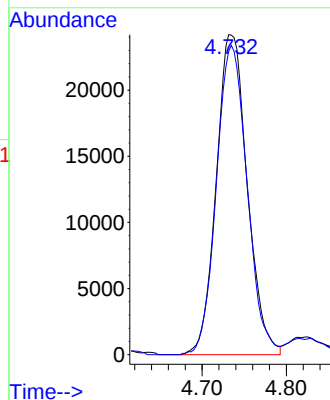
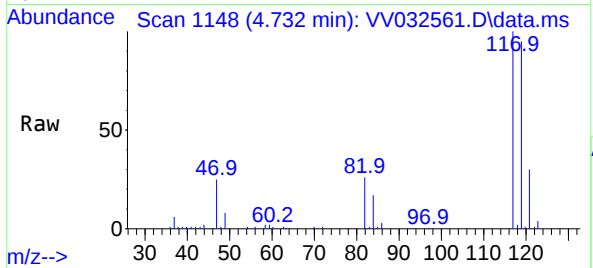




#31  
Carbon tetrachloride  
Concen: 4.751 ug/L  
RT: 4.732 min Scan# 1148  
Delta R.T. -0.010 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

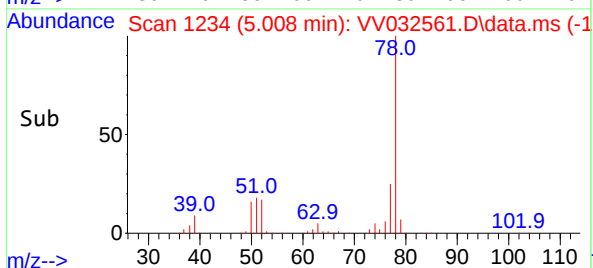
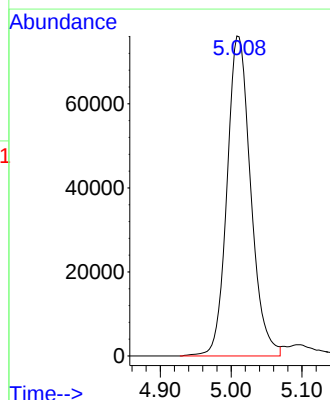
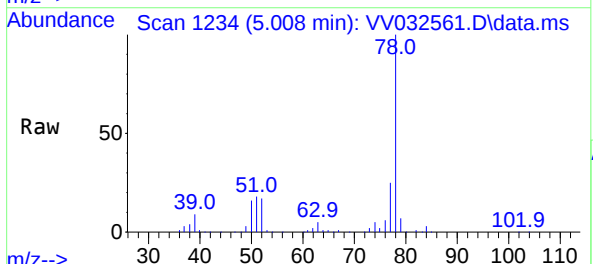
Instrument :  
MSVOA\_V  
ClientSampleId :

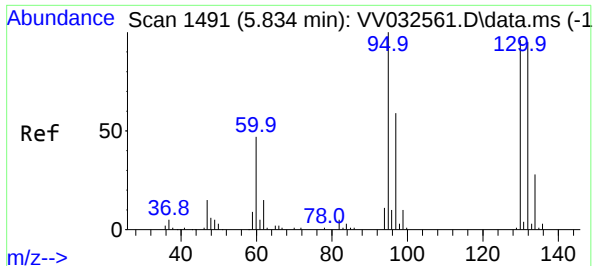
Tgt Ion:117 Resp: 61664  
Ion Ratio Lower Upper  
117 100  
119 96.0 77.6 116.4



#33  
Benzene  
Concen: 4.458 ug/L  
RT: 5.008 min Scan# 1234  
Delta R.T. -0.006 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

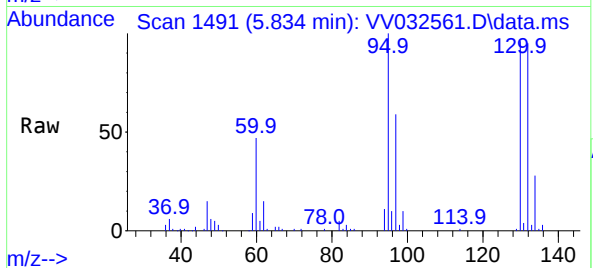
Tgt Ion: 78 Resp: 177076





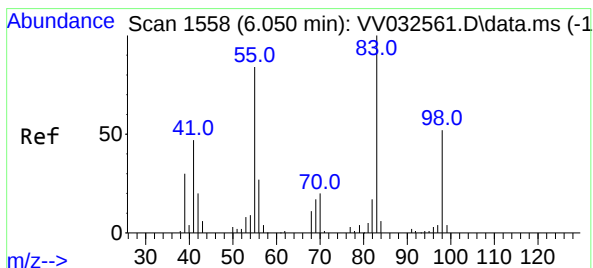
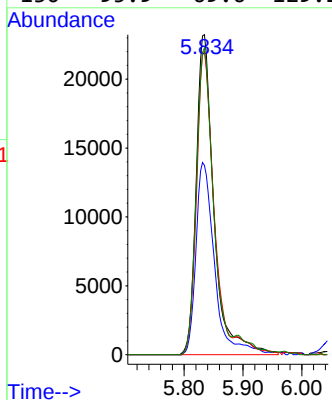
#34  
 Trichloroethene  
 Concen: 4.511 ug/L  
 RT: 5.834 min Scan# 1491  
 Delta R.T. -0.003 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 95 Resp: 48920

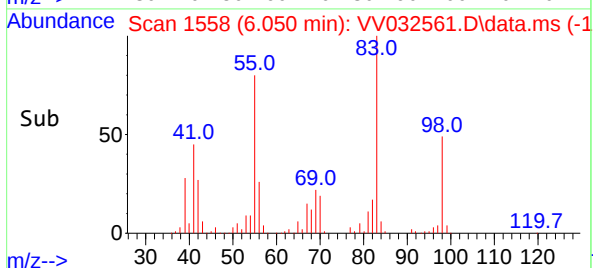
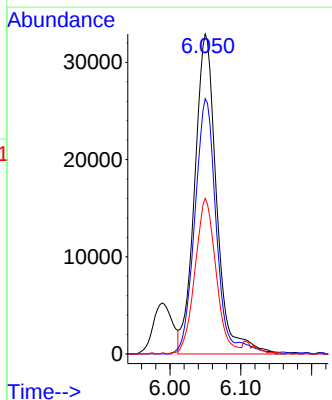
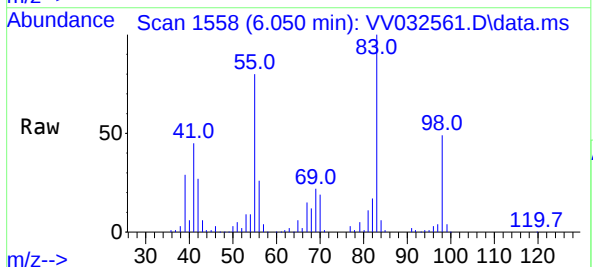
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 59.2  | 45.7  | 84.9  |
| 132 | 94.7  | 70.3  | 130.5 |
| 130 | 95.9  | 69.6  | 129.2 |

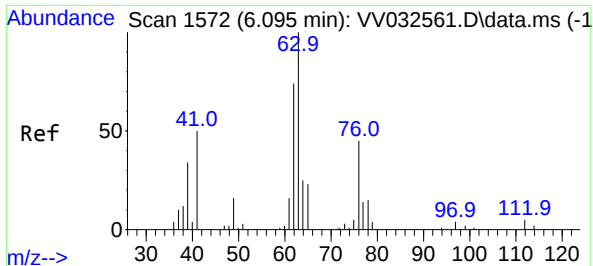


#35  
 Methylcyclohexane  
 Concen: 4.223 ug/L  
 RT: 6.050 min Scan# 1558  
 Delta R.T. -0.003 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

Tgt Ion: 83 Resp: 70869

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 76.0  | 64.2  | 96.2  |
| 98  | 46.6  | 39.6  | 59.4  |

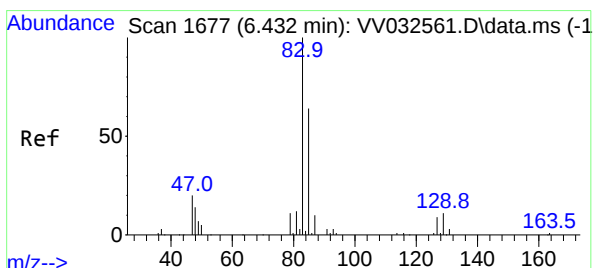
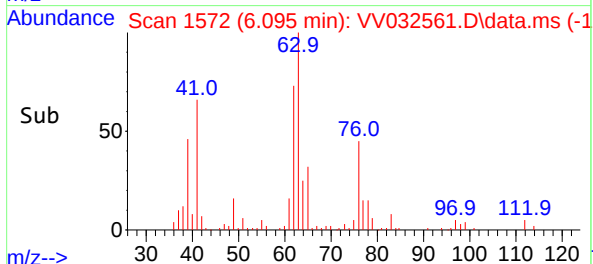
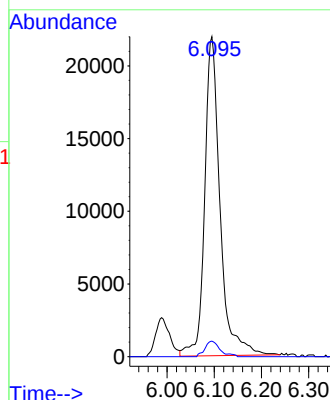
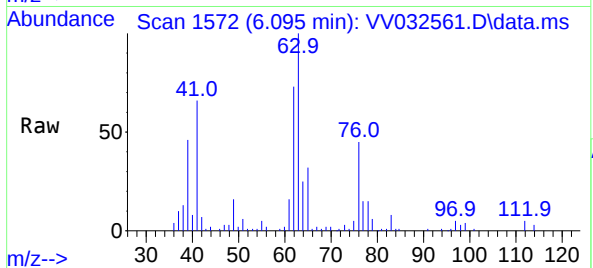




#37  
1,2-Dichloropropane  
Concen: 4.651 ug/L  
RT: 6.095 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

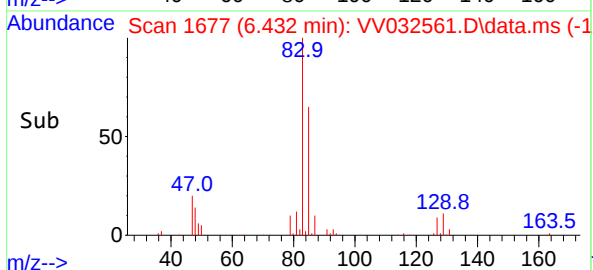
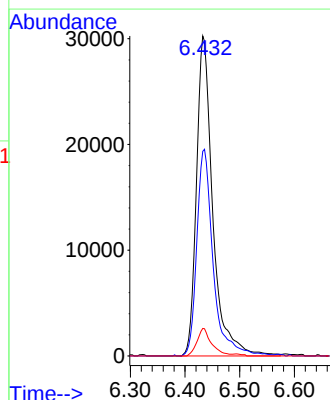
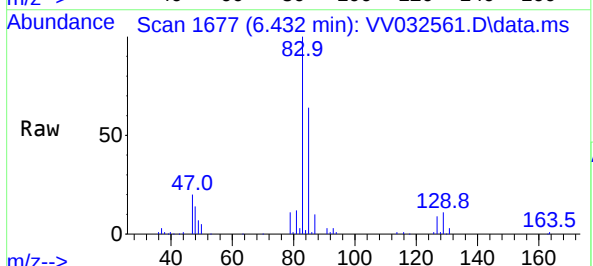
Instrument :  
MSVOA\_V  
ClientSampleId :

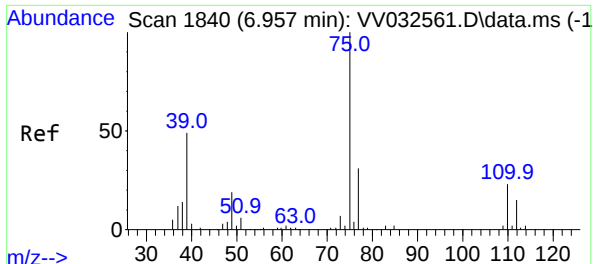
Tgt Ion: 63 Resp: 49413  
Ion Ratio Lower Upper  
63 100  
112 4.5 3.4 5.2



#38  
Bromodichloromethane  
Concen: 4.965 ug/L  
RT: 6.432 min Scan# 1677  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 83 Resp: 62677  
Ion Ratio Lower Upper  
83 100  
85 63.9 44.9 83.3  
127 8.6 6.9 10.3

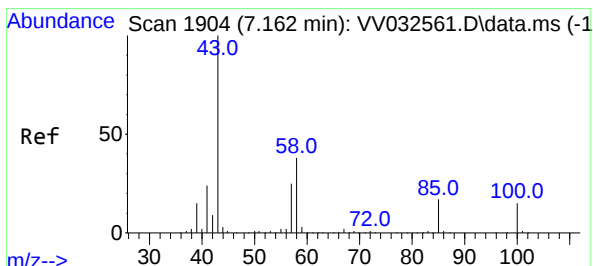
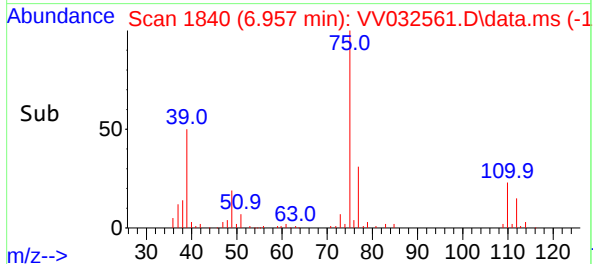
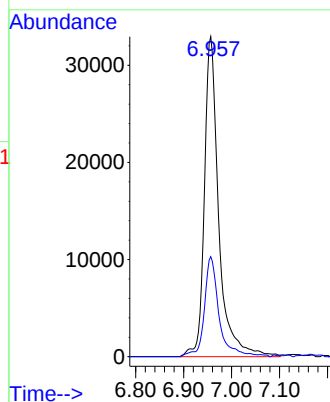
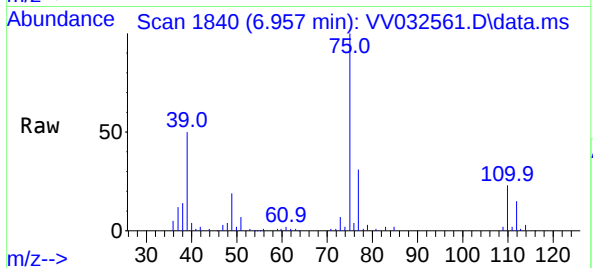




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.535 ug/L  
 RT: 6.957 min Scan# 1840  
 Delta R.T. -0.003 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

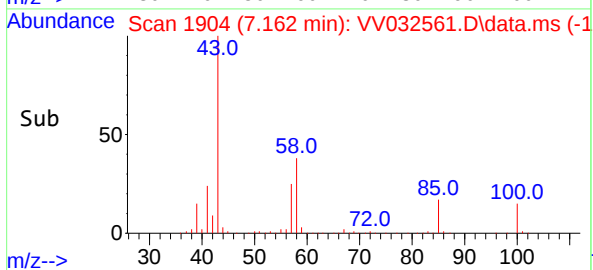
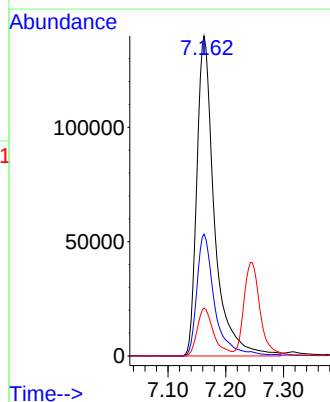
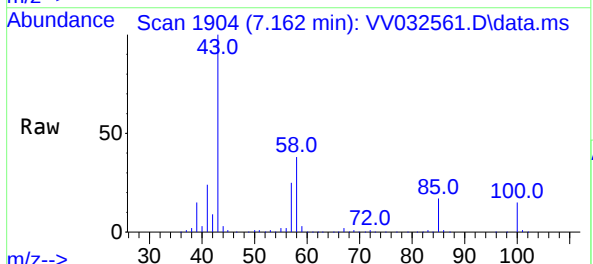
Instrument :  
 MSVOA\_V  
 ClientSampleId :

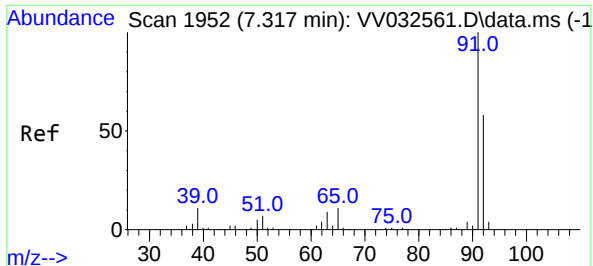
Tgt Ion: 75 Resp: 68562  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 22.2 41.2



#40  
 4-Methyl-2-pentanone  
 Concen: 44.069 ug/L  
 RT: 7.162 min Scan# 1904  
 Delta R.T. 0.000 min  
 Lab File: VV032561.D  
 Acq: 23 Oct 2023 10:52

Tgt Ion: 43 Resp: 296274  
 Ion Ratio Lower Upper  
 43 100  
 58 38.4 31.9 47.9  
 100 14.1 11.3 16.9





#42

Toluene

Concen: 4.632 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

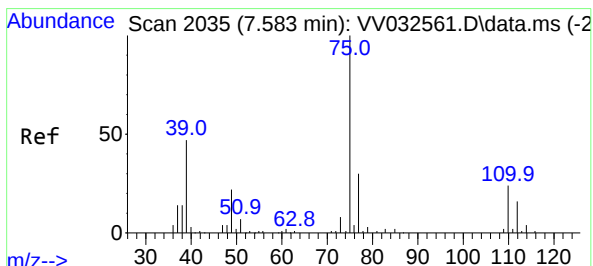
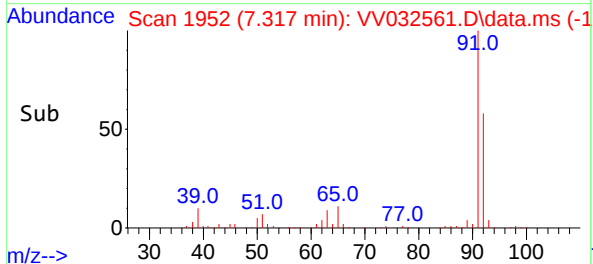
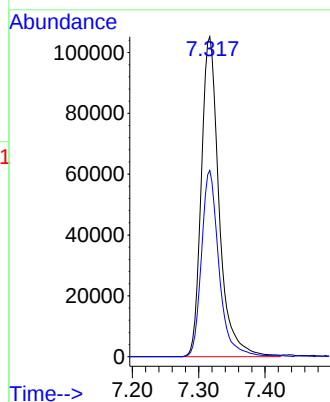
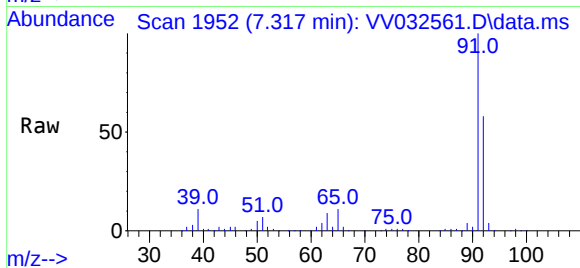
ClientSampleId :

Tgt Ion: 91 Resp: 196163

Ion Ratio Lower Upper

91 100

92 58.2 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 4.536 ug/L

RT: 7.583 min Scan# 2035

Delta R.T. -0.003 min

Lab File: VV032561.D

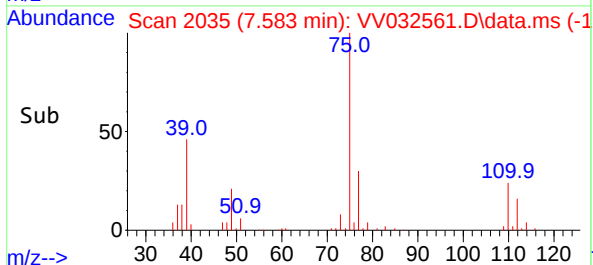
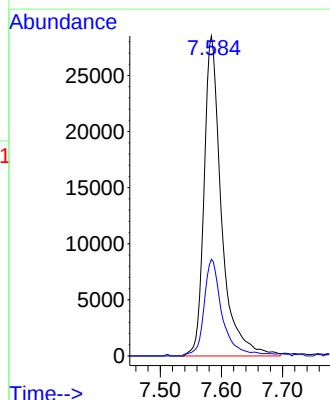
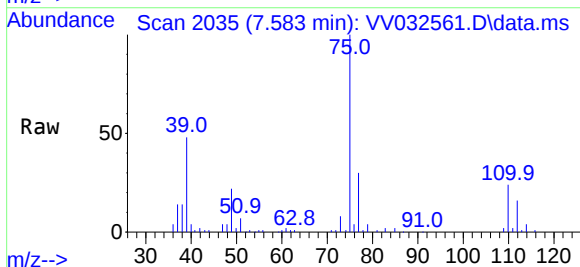
Acq: 23 Oct 2023 10:52

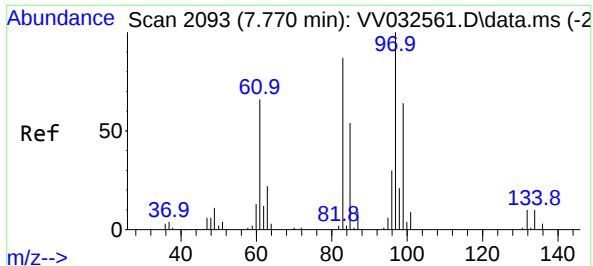
Tgt Ion: 75 Resp: 56356

Ion Ratio Lower Upper

75 100

77 30.2 22.5 41.7



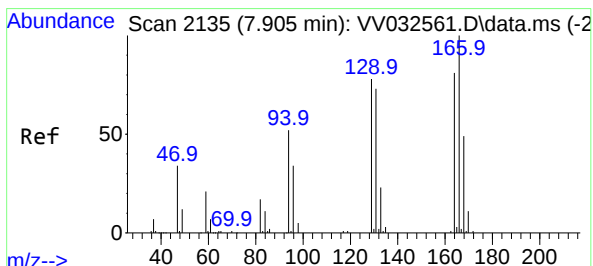
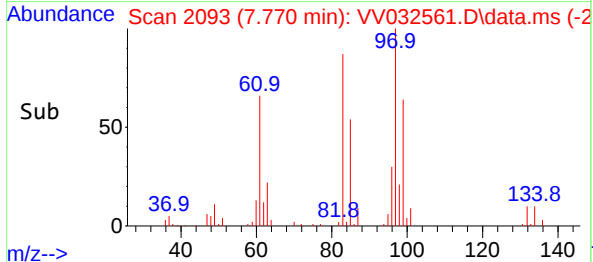
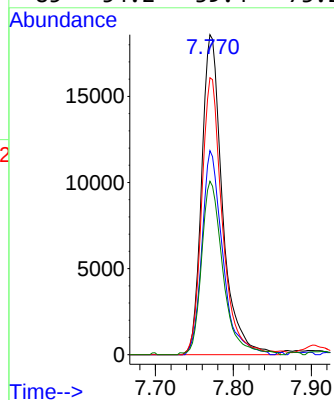
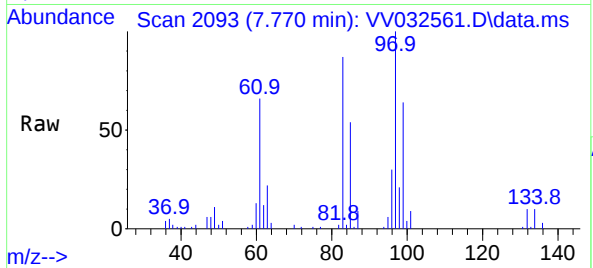


#45  
1,1,2-Trichloroethane  
Concen: 4.596 ug/L  
RT: 7.770 min Scan# 2093  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 97 Resp: 34442

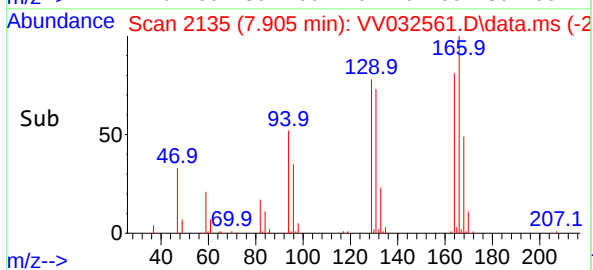
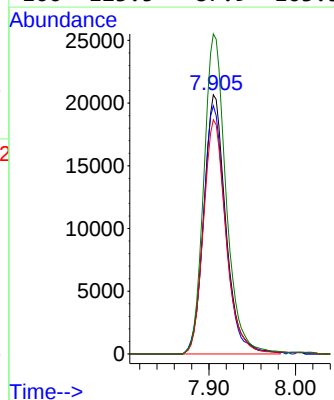
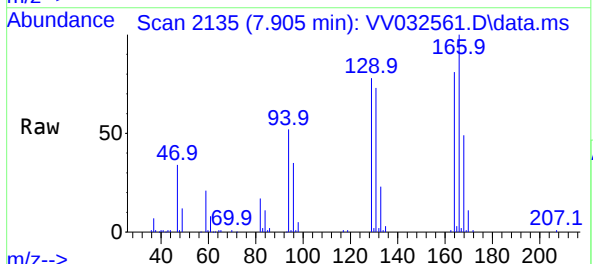
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.8  | 42.8  | 79.4  |
| 83  | 86.5  | 60.9  | 113.1 |
| 85  | 54.2  | 39.4  | 73.2  |

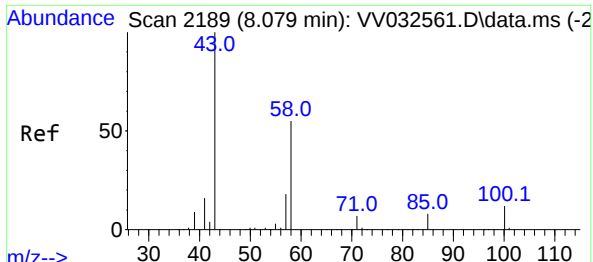


#47  
Tetrachloroethene  
Concen: 4.427 ug/L  
RT: 7.905 min Scan# 2135  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 164 Resp: 36404

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 95.7  | 66.4  | 123.4 |
| 131 | 90.4  | 63.7  | 118.3 |
| 166 | 123.5 | 87.9  | 163.3 |



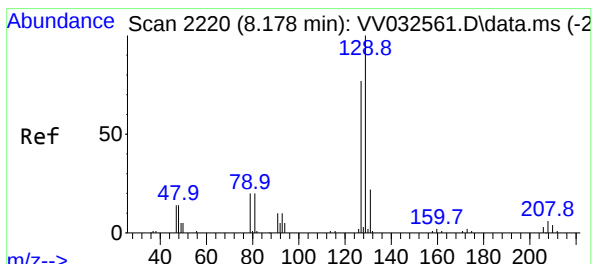
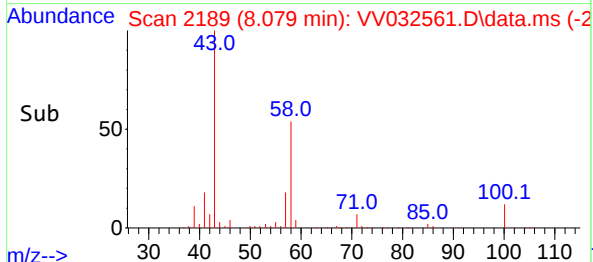
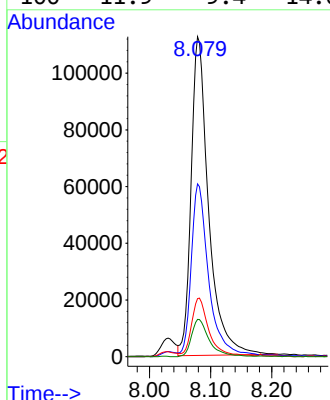
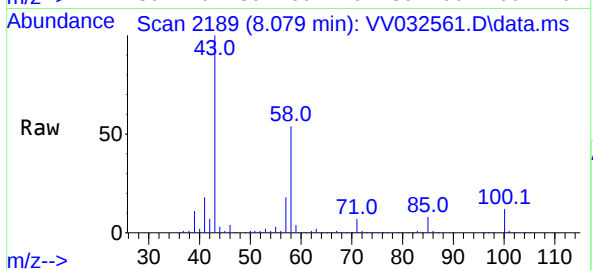


#48  
2-Hexanone  
Concen: 47.202 ug/L  
RT: 8.079 min Scan# 2189  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 43 Resp: 223898

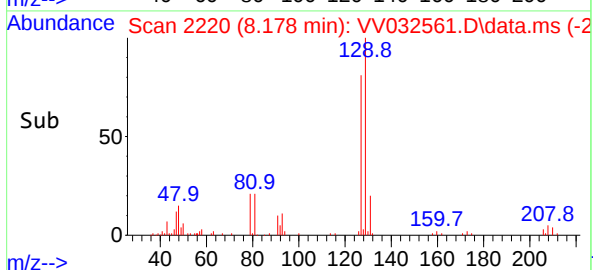
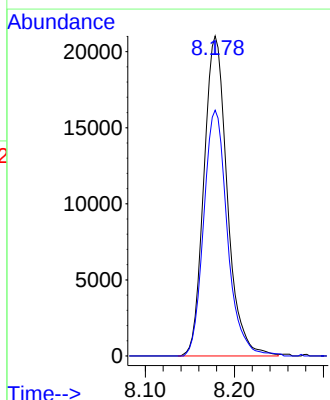
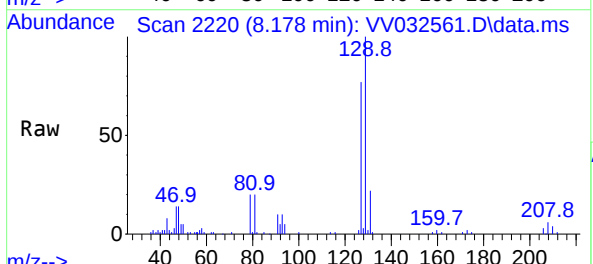
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 53.0  | 43.6  | 65.4  |
| 57  | 17.8  | 14.6  | 22.0  |
| 100 | 11.9  | 9.4   | 14.0  |

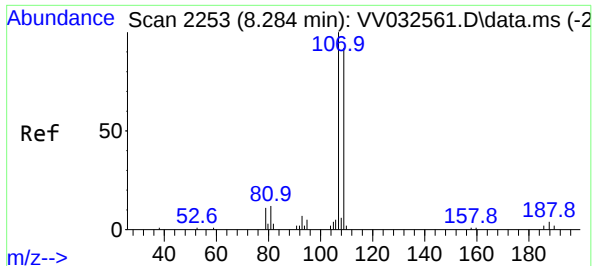


#49  
Dibromochloromethane  
Concen: 4.896 ug/L  
RT: 8.178 min Scan# 2220  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 129 Resp: 38197

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 76.8  | 57.2  | 106.2 |

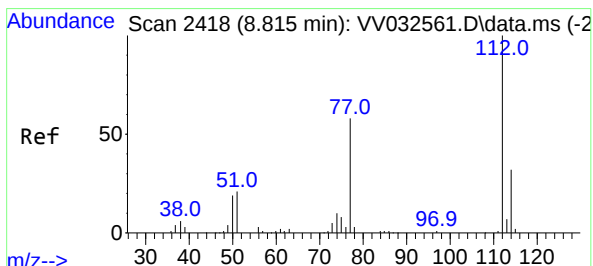
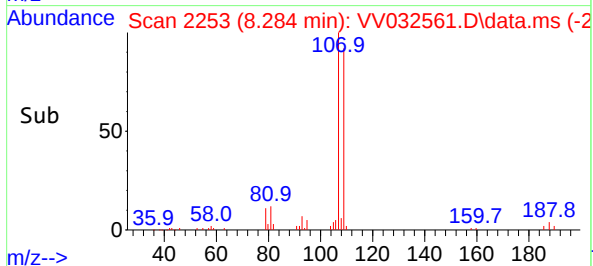
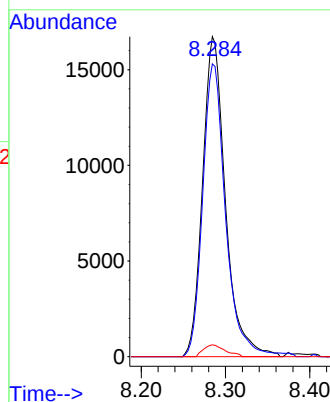
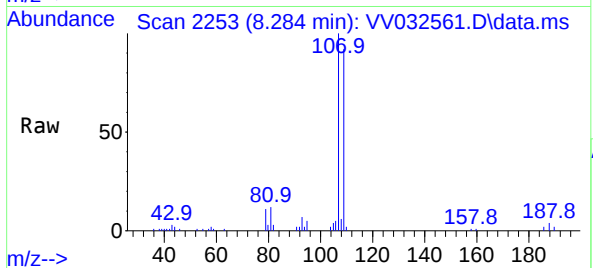




#50  
1,2-Dibromoethane  
Concen: 4.449 ug/L  
RT: 8.284 min Scan# 2118  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

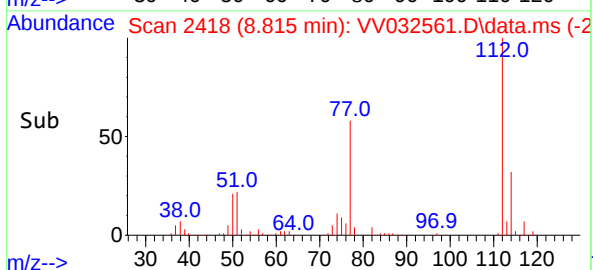
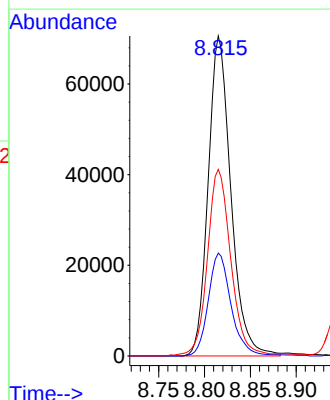
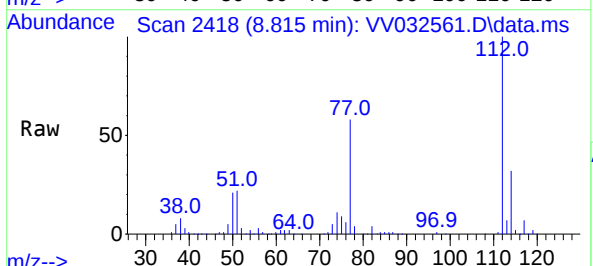
Instrument :  
MSVOA\_V  
ClientSampleId :

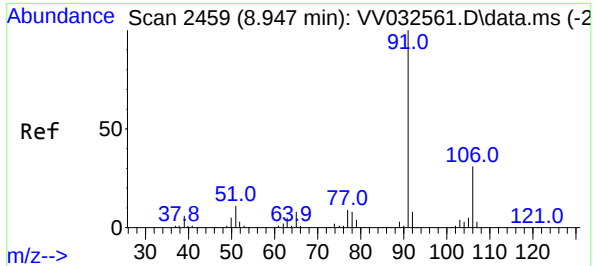
Tgt Ion:107 Resp: 31534  
Ion Ratio Lower Upper  
107 100  
109 91.5 68.4 127.0  
188 3.7 3.2 4.8



#51  
Chlorobenzene  
Concen: 4.464 ug/L  
RT: 8.815 min Scan# 2418  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion:112 Resp: 121699  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.1 41.1  
77 58.3 46.1 69.1

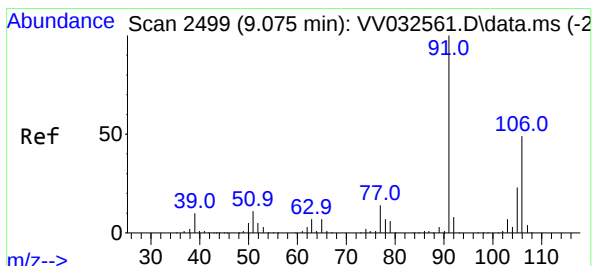
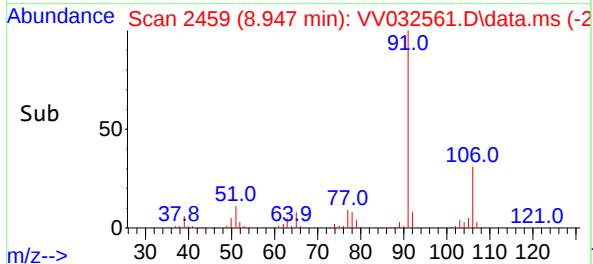
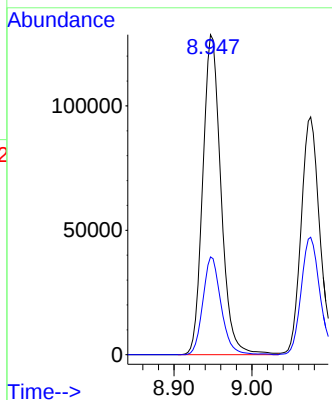
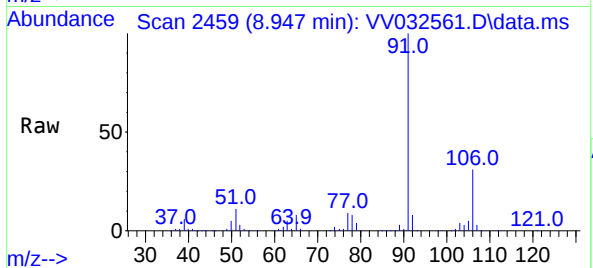




#52  
Ethylbenzene  
Concen: 4.424 ug/L  
RT: 8.947 min Scan# 2459  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

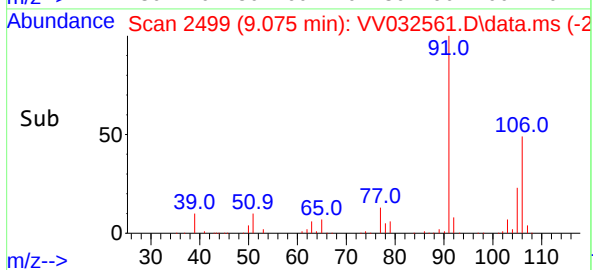
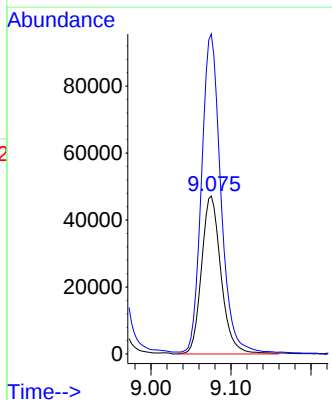
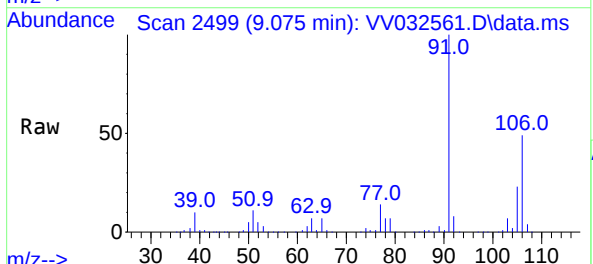
Instrument :  
MSVOA\_V  
ClientSampleId :

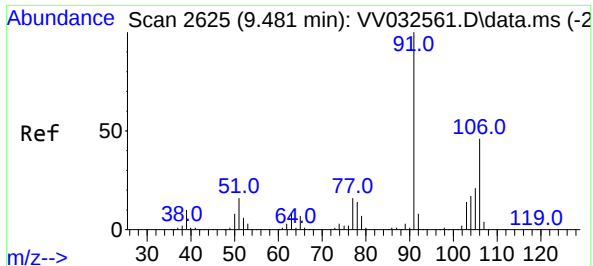
Tgt Ion: 91 Resp: 208634  
Ion Ratio Lower Upper  
91 100  
106 30.6 21.3 39.5



#53  
m,p-Xylene  
Concen: 4.588 ug/L  
RT: 9.075 min Scan# 2499  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion:106 Resp: 80238  
Ion Ratio Lower Upper  
106 100  
91 202.6 144.5 268.3





#54

o-Xylene

Concen: 4.410 ug/L

RT: 9.481 min Scan# 2625

Delta R.T. 0.000 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

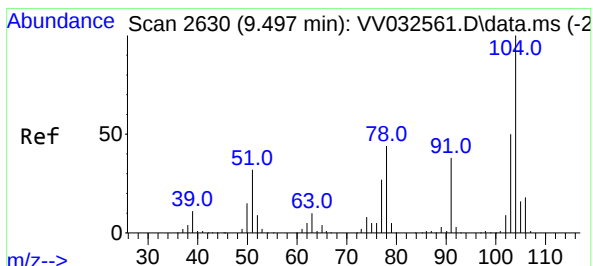
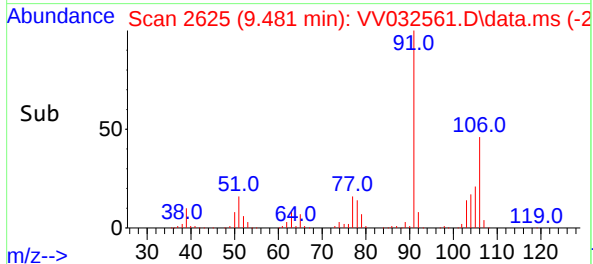
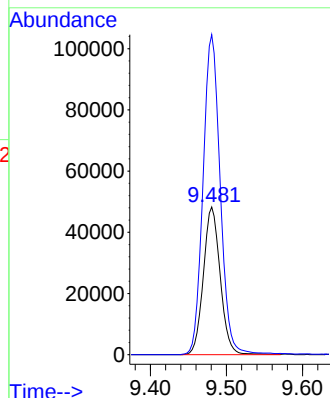
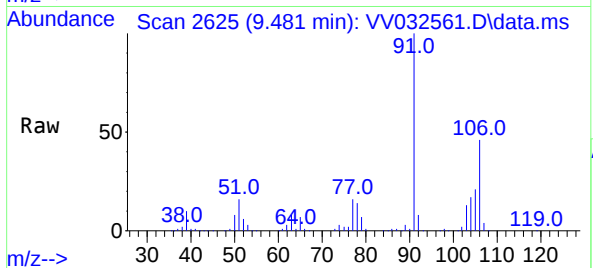
ClientSampleId :

Tgt Ion:106 Resp: 74318

Ion Ratio Lower Upper

106 100

91 216.7 154.8 287.4



#55

Styrene

Concen: 4.697 ug/L

RT: 9.497 min Scan# 2630

Delta R.T. -0.003 min

Lab File: VV032561.D

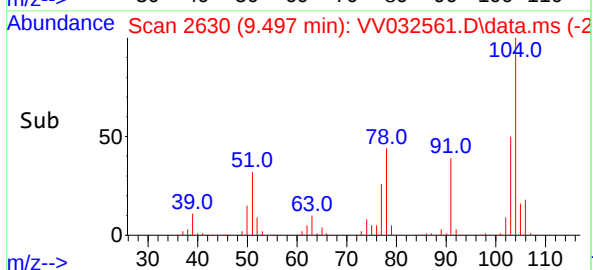
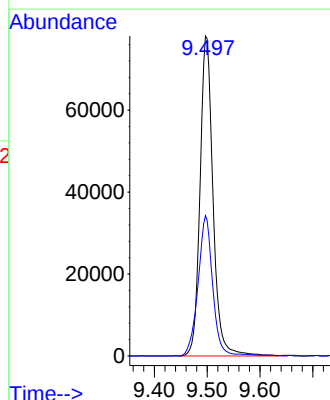
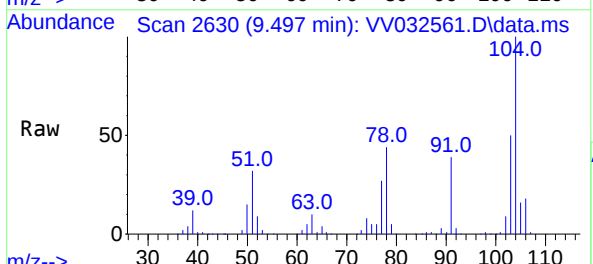
Acq: 23 Oct 2023 10:52

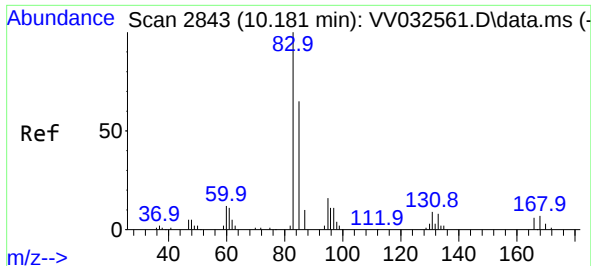
Tgt Ion:104 Resp: 133669

Ion Ratio Lower Upper

104 100

78 43.8 29.9 55.5

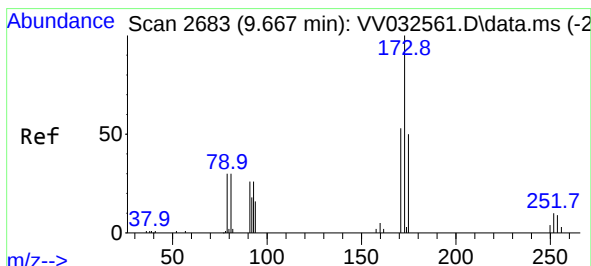
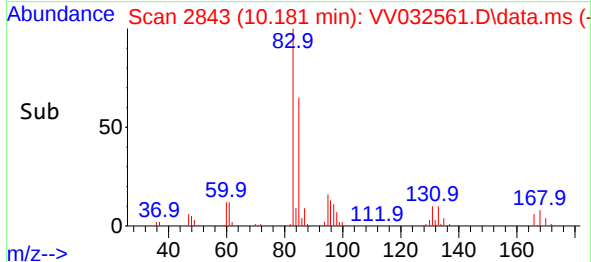
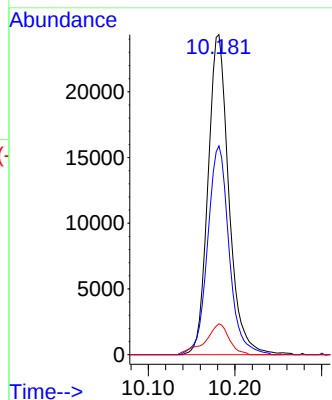
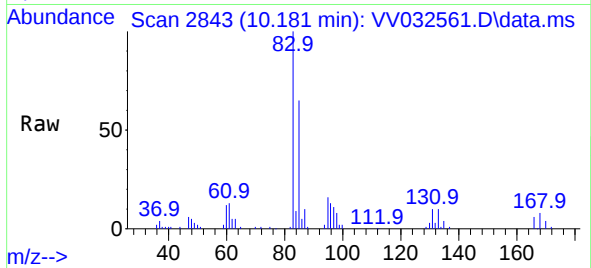




#57  
1,1,2,2-Tetrachloroethane  
Concen: 4.941 ug/L  
RT: 10.181 min Scan# 2843  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

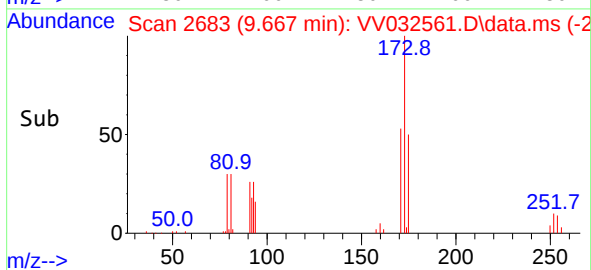
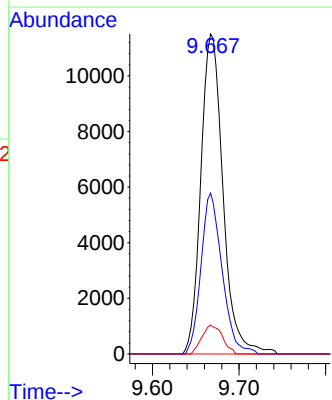
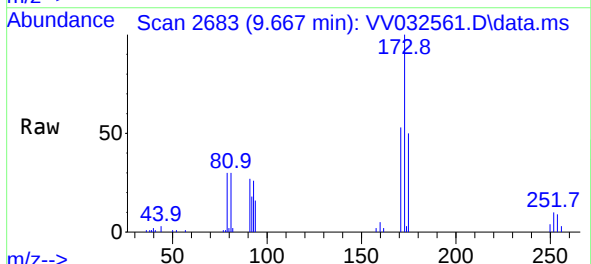
Instrument :  
MSVOA\_V  
ClientSampleId :

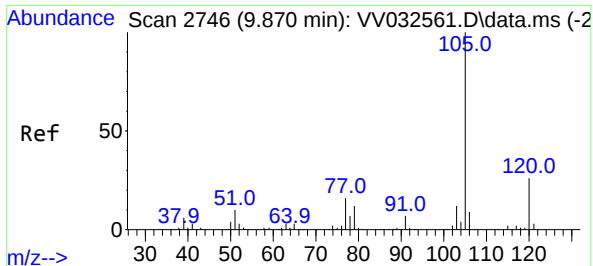
Tgt Ion: 83 Resp: 40741  
Ion Ratio Lower Upper  
83 100  
85 65.3 43.6 81.0  
131 9.6 7.0 10.6



#59  
Bromoform  
Concen: 4.952 ug/L  
RT: 9.667 min Scan# 2683  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 173 Resp: 20438  
Ion Ratio Lower Upper  
173 100  
175 47.8 38.2 57.2  
254 8.3 7.0 10.4

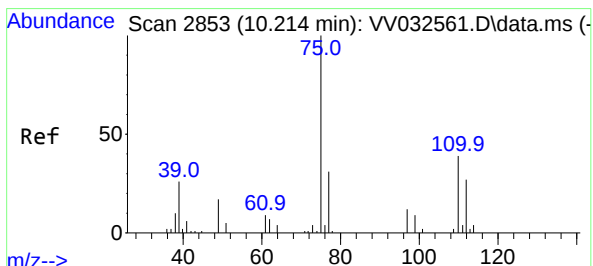
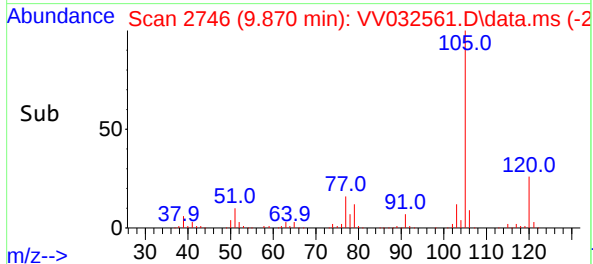
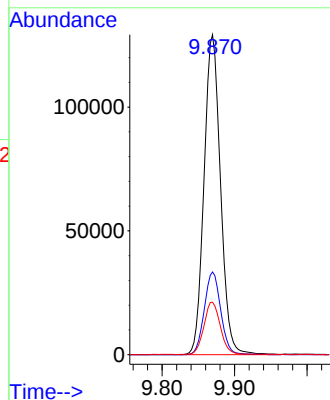
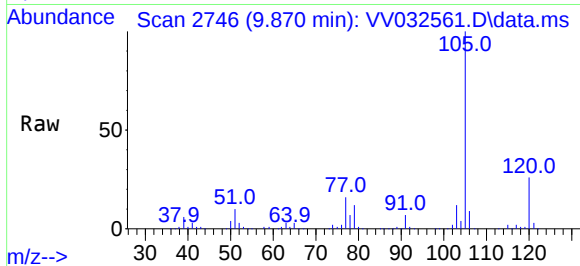




#60  
Isopropylbenzene  
Concen: 4.631 ug/L  
RT: 9.870 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

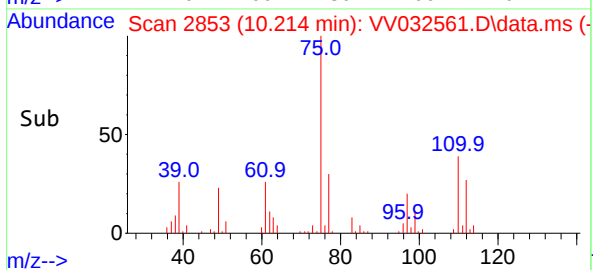
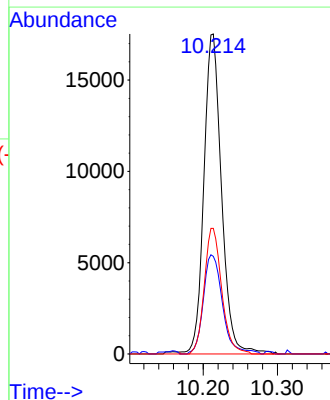
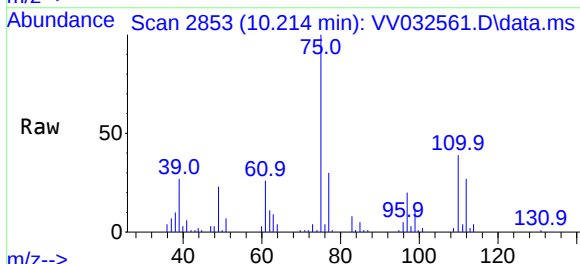
Instrument :  
MSVOA\_V  
ClientSampleId :

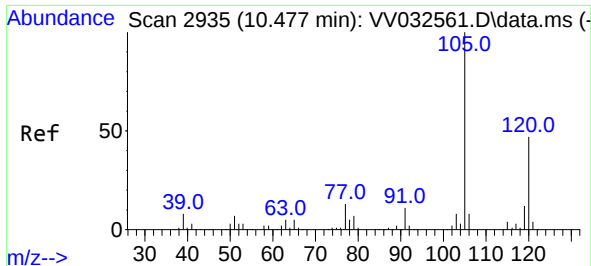
Tgt Ion:105 Resp: 204273  
Ion Ratio Lower Upper  
105 100  
120 25.8 21.0 31.6  
77 16.7 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 4.781 ug/L  
RT: 10.214 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion: 75 Resp: 28881  
Ion Ratio Lower Upper  
75 100  
77 33.6 26.2 39.2  
110 38.8 30.6 46.0

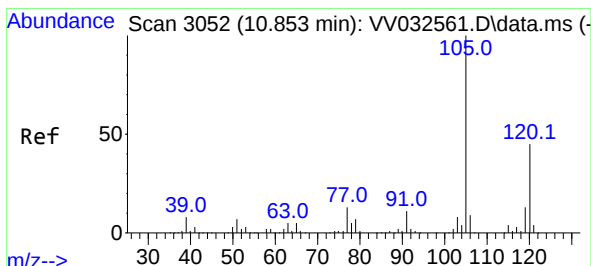
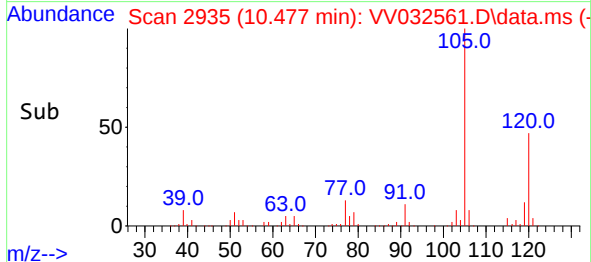
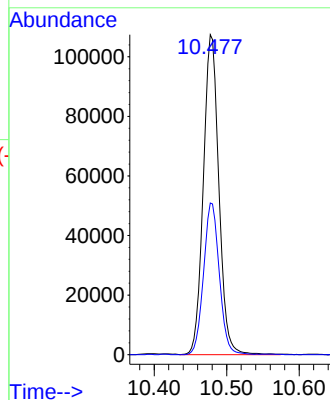
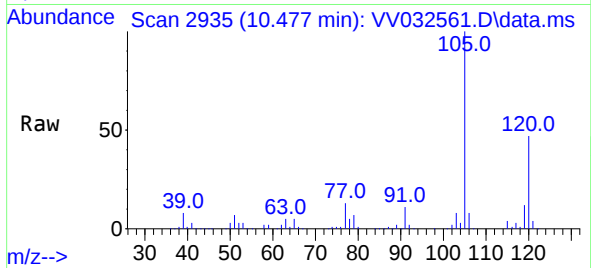




#62  
1,3,5-Trimethylbenzene  
Concen: 4.453 ug/L  
RT: 10.477 min Scan# 2935  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

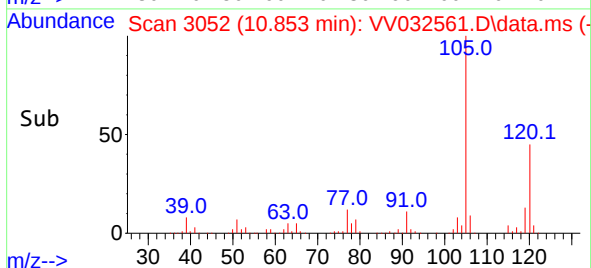
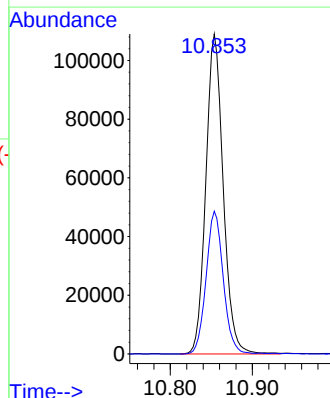
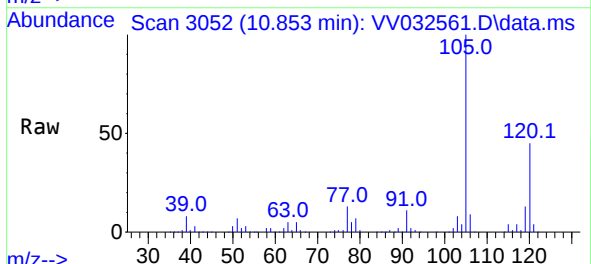
Instrument :  
MSVOA\_V  
ClientSampleId :

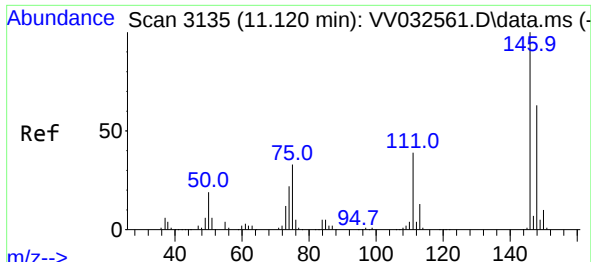
Tgt Ion:105 Resp: 160098  
Ion Ratio Lower Upper  
105 100  
120 48.0 39.9 59.9



#63  
1,2,4-Trimethylbenzene  
Concen: 4.490 ug/L  
RT: 10.853 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion:105 Resp: 160728  
Ion Ratio Lower Upper  
105 100  
120 44.0 36.2 54.4

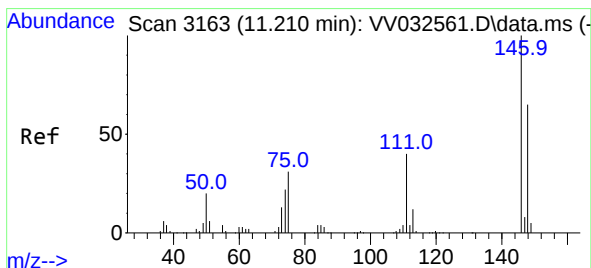
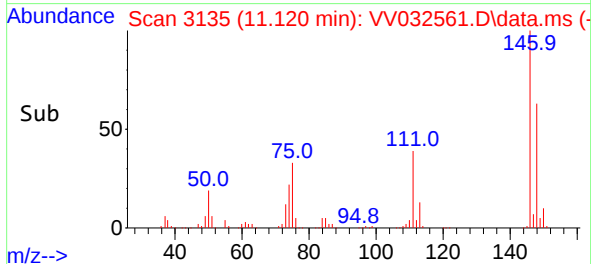
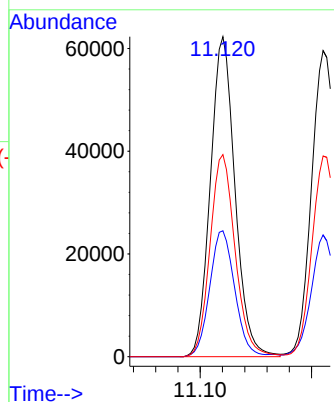
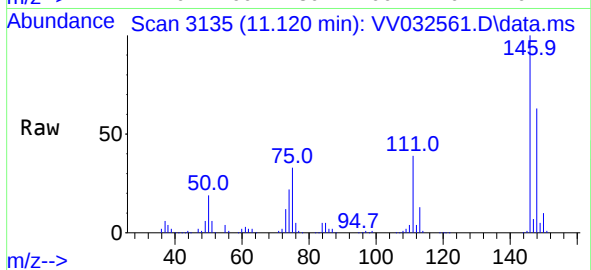




#64  
1,3-Dichlorobenzene  
Concen: 4.538 ug/L  
RT: 11.120 min Scan# 3135  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

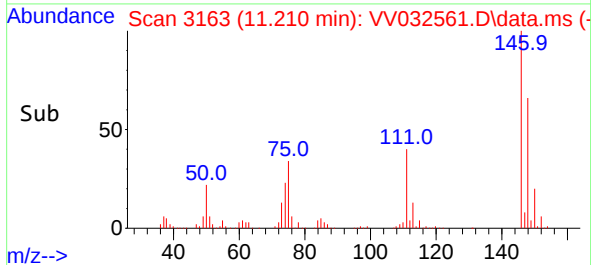
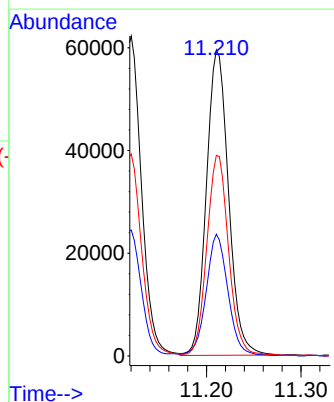
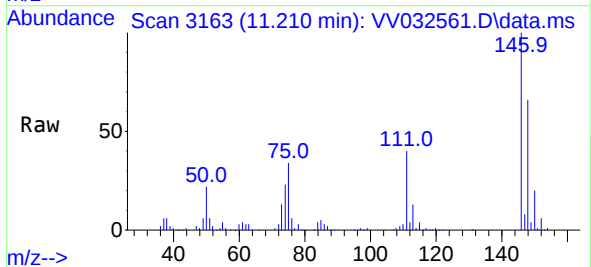
Instrument :  
MSVOA\_V  
ClientSampleId :

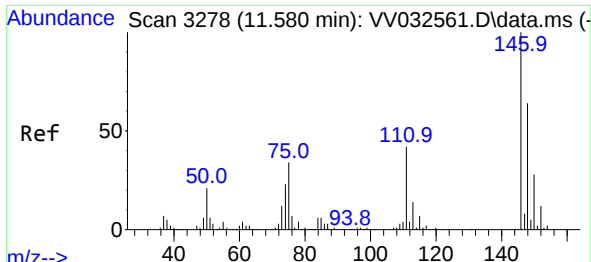
Tgt Ion:146 Resp: 95623  
Ion Ratio Lower Upper  
146 100  
111 39.4 27.8 51.6  
148 63.1 43.7 81.1



#65  
1,4-Dichlorobenzene  
Concen: 4.570 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. -0.003 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion:146 Resp: 96619  
Ion Ratio Lower Upper  
146 100  
111 39.8 26.9 49.9  
148 65.5 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 4.630 ug/L

RT: 11.580 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

ClientSampleId :

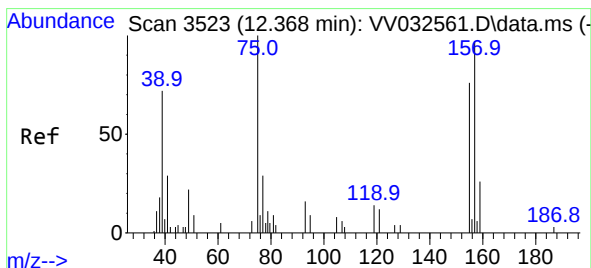
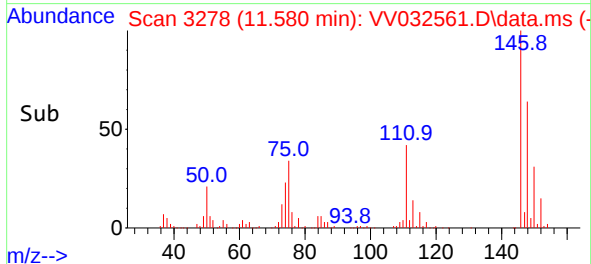
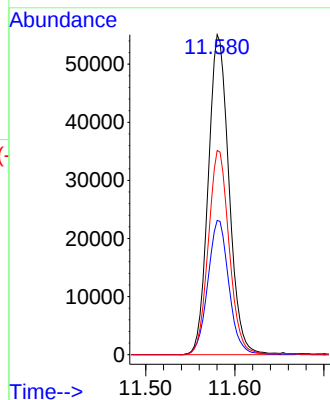
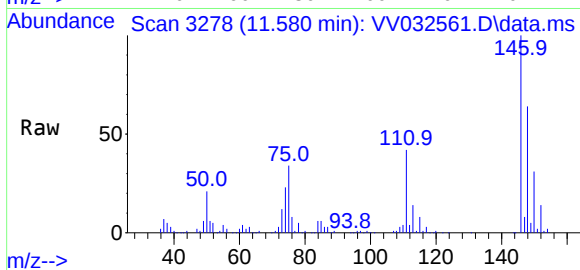
Tgt Ion:146 Resp: 88993

Ion Ratio Lower Upper

146 100

111 41.9 32.8 49.2

148 63.8 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 4.928 ug/L

RT: 12.368 min Scan# 3523

Delta R.T. 0.000 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

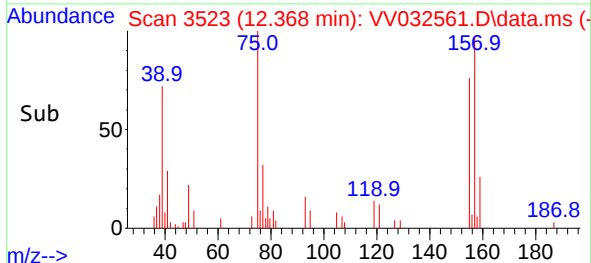
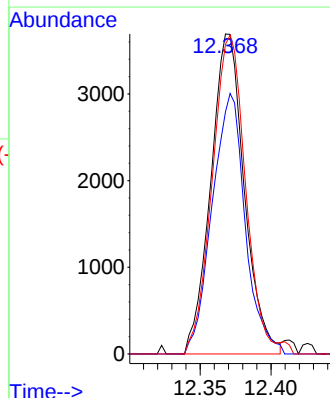
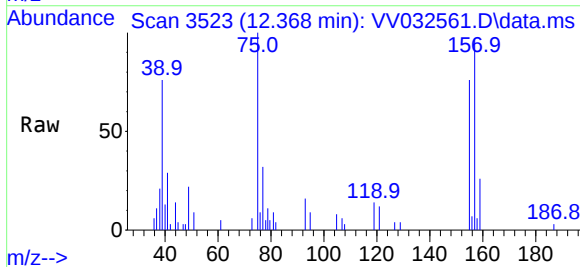
Tgt Ion: 75 Resp: 6083

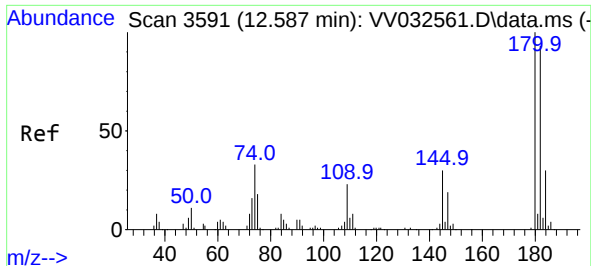
Ion Ratio Lower Upper

75 100

155 75.7 70.2 105.4

157 96.8 90.6 135.8





#69

1,3,5-Trichlorobenzene

Concen: 4.409 ug/L

RT: 12.587 min Scan# 3591

Delta R.T. 0.000 min

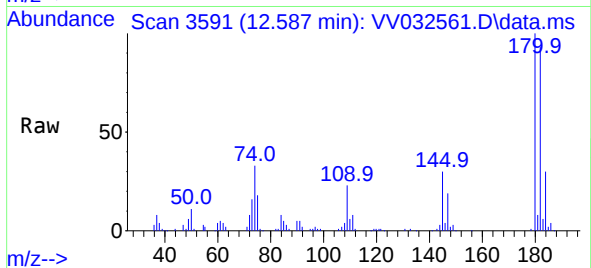
Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 68034

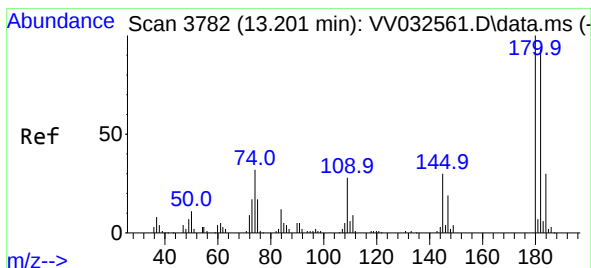
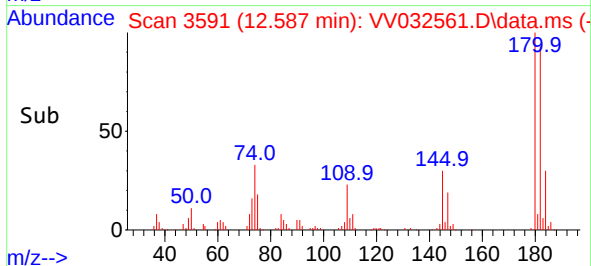
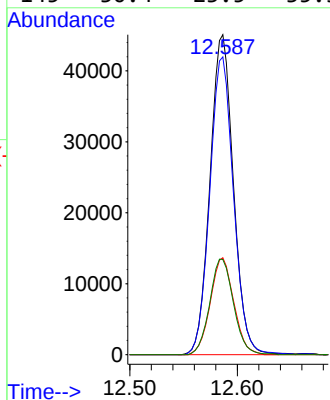
Ion Ratio Lower Upper

180 100

182 94.7 74.6 112.0

184 30.4 24.1 36.1

145 30.4 23.5 35.3



#70

1,2,4-trichlorobenzene

Concen: 4.040 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032561.D

Acq: 23 Oct 2023 10:52

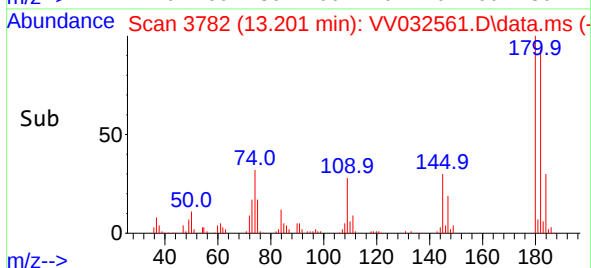
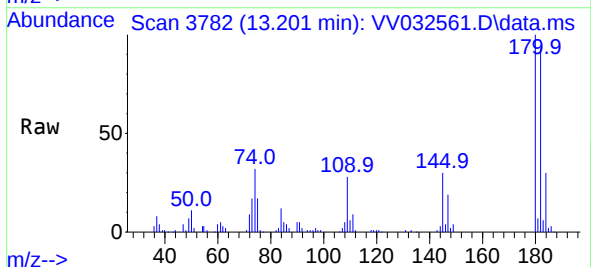
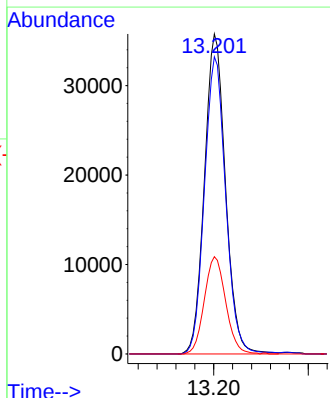
Tgt Ion:180 Resp: 55295

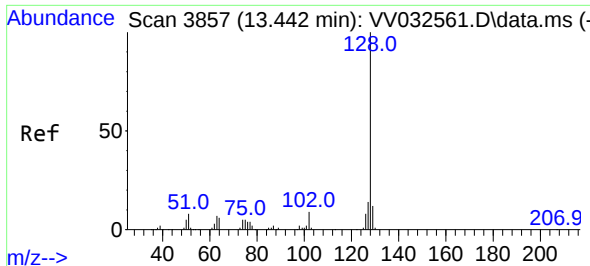
Ion Ratio Lower Upper

180 100

182 93.6 76.5 114.7

145 30.8 24.3 36.5

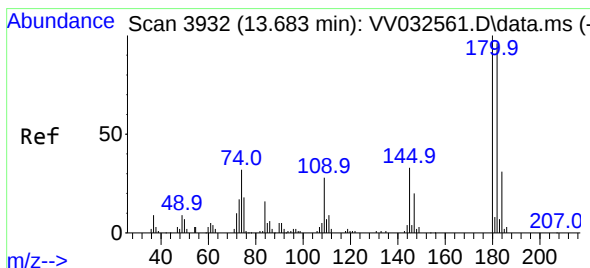
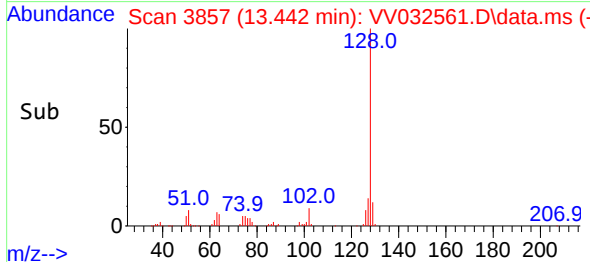
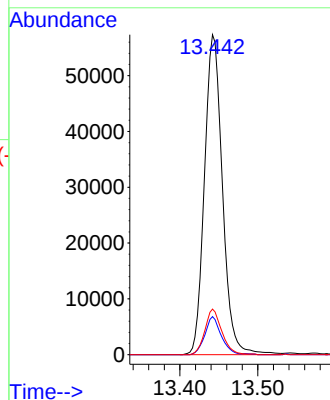
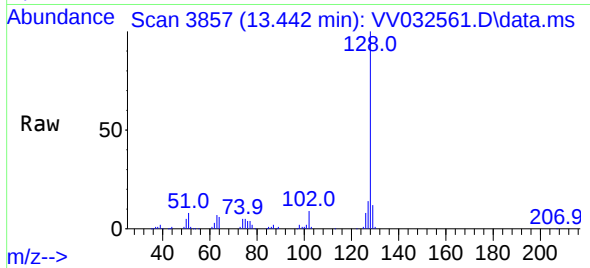




#71  
Naphthalene  
Concen: 3.962 ug/L  
RT: 13.442 min Scan# 3857  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:128 Resp: 92137  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.0 13.4  
127 13.3 10.2 15.2



#72  
1,2,3-Trichlorobenzene  
Concen: 4.392 ug/L  
RT: 13.683 min Scan# 3932  
Delta R.T. 0.000 min  
Lab File: VV032561.D  
Acq: 23 Oct 2023 10:52

Tgt Ion:180 Resp: 51798  
Ion Ratio Lower Upper  
180 100  
182 94.8 77.0 115.4  
145 31.9 25.7 38.5

