

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV102921\  
 Data File : VV023102.D  
 Acq On : 29 Oct 2021 13:59  
 Operator : SY/MD  
 Sample : MDL03  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 30 00:28:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM102821WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 30 00:25:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon           | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|---------|----------------|----------|---------|----------|----------|
| Internal Standards            |         |                |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 5.619   | 114            | 262797   | 50.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.853   | 117            | 258122   | 50.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249  | 152            | 130476   | 50.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |         |                |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65             | 80451    | 44.421  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 135 | Recovery | =       | 88.840%  |          |
| 7) Chloroethane-d5            | 1.564   | 69             | 63342    | 44.840  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 130 | Recovery | =       | 89.680%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.108   | 63             | 117263   | 34.180  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 125 | Recovery | =       | 68.360%  |          |
| 21) 2-Butanone-d5             | 3.879   | 46             | 149973   | 110.525 | ug/L     | 0.00     |
| Spiked Amount                 | 100.000 | Range 40 - 130 | Recovery | =       | 110.530% |          |
| 24) Chloroform-d              | 4.349   | 84             | 176314   | 46.302  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 92.600%  |          |
| 26) 1,2-Dichloroethane-d4     | 5.034   | 65             | 113573   | 50.390  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 100.780% |          |
| 32) Benzene-d6                | 5.050   | 84             | 342870   | 48.490  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 96.980%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.072   | 67             | 112319   | 49.899  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 120 | Recovery | =       | 99.800%  |          |
| 41) Toluene-d8                | 7.317   | 98             | 307050   | 47.596  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 80 - 120 | Recovery | =       | 95.200%  |          |
| 43) trans-1,3-Dichloroprop... | 7.622   | 79             | 51773    | 47.988  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 125 | Recovery | =       | 95.980%  |          |
| 47) 2-Hexanone-d5             | 8.088   | 63             | 106100   | 108.525 | ug/L     | 0.00     |
| Spiked Amount                 | 100.000 | Range 45 - 130 | Recovery | =       | 108.530% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84             | 162809   | 49.487  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 65 - 120 | Recovery | =       | 98.980%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152            | 129324   | 51.384  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 80 - 120 | Recovery | =       | 102.760% |          |
| Target Compounds              |         |                |          |         |          |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85             | 5223     | 2.091   | ug/L     | 99       |
| 3) Chloromethane              | 1.240   | 50             | 5007     | 2.125   | ug/L     | 96       |
| 5) Vinyl chloride             | 1.310   | 62             | 4946     | 2.101   | ug/L #   | 71       |
| 6) Bromomethane               | 1.523   | 94             | 2768     | 2.093   | ug/L     | 93       |
| 8) Chloroethane               | 1.584   | 64             | 2930     | 2.044   | ug/L     | 92       |
| 9) Trichlorofluoromethane     | 1.751   | 101            | 7143     | 1.999   | ug/L     | 95       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101            | 4836     | 2.549   | ug/L #   | 81       |
| 12) 1,1-Dichloroethene        | 2.117   | 96             | 4488     | 2.550   | ug/L #   | 1        |
| 13) Acetone                   | 2.172   | 43             | 5131     | 3.815   | ug/L #   | 73       |
| 14) Carbon disulfide          | 2.294   | 76             | 10798    | 2.051   | ug/L     | 97       |
| 15) Methyl Acetate            | 2.436   | 43             | 4580     | 2.052   | ug/L     | 100      |
| 16) Methylene chloride        | 2.510   | 84             | 5340     | 2.368   | ug/L     | 96       |
| 17) trans-1,2-Dichloroethene  | 2.764   | 96             | 4211     | 2.096   | ug/L     | 92       |
| 18) Methyl tert-butyl Ether   | 2.770   | 73             | 11856    | 1.965   | ug/L     | 96       |
| 19) 1,1-Dichloroethane        | 3.195   | 63             | 7624     | 2.037   | ug/L     | 99       |
| 20) cis-1,2-Dichloroethene    | 3.918   | 96             | 4896     | 2.280   | ug/L     | 95       |
| 23) Bromochloromethane        | 4.252   | 128            | 2513     | 2.077   | ug/L     | 80       |
| 25) Chloroform                | 4.378   | 83             | 8817     | 2.291   | ug/L     | 76       |
| 27) 1,2-Dichloroethane        | 5.143   | 62             | 5266     | 1.823   | ug/L #   | 89       |

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 ALS Vial : 12 Sample Multiplier: 1

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 ClientSampleId :

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 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 30 00:25:16 2021  
 Response via : Initial Calibration

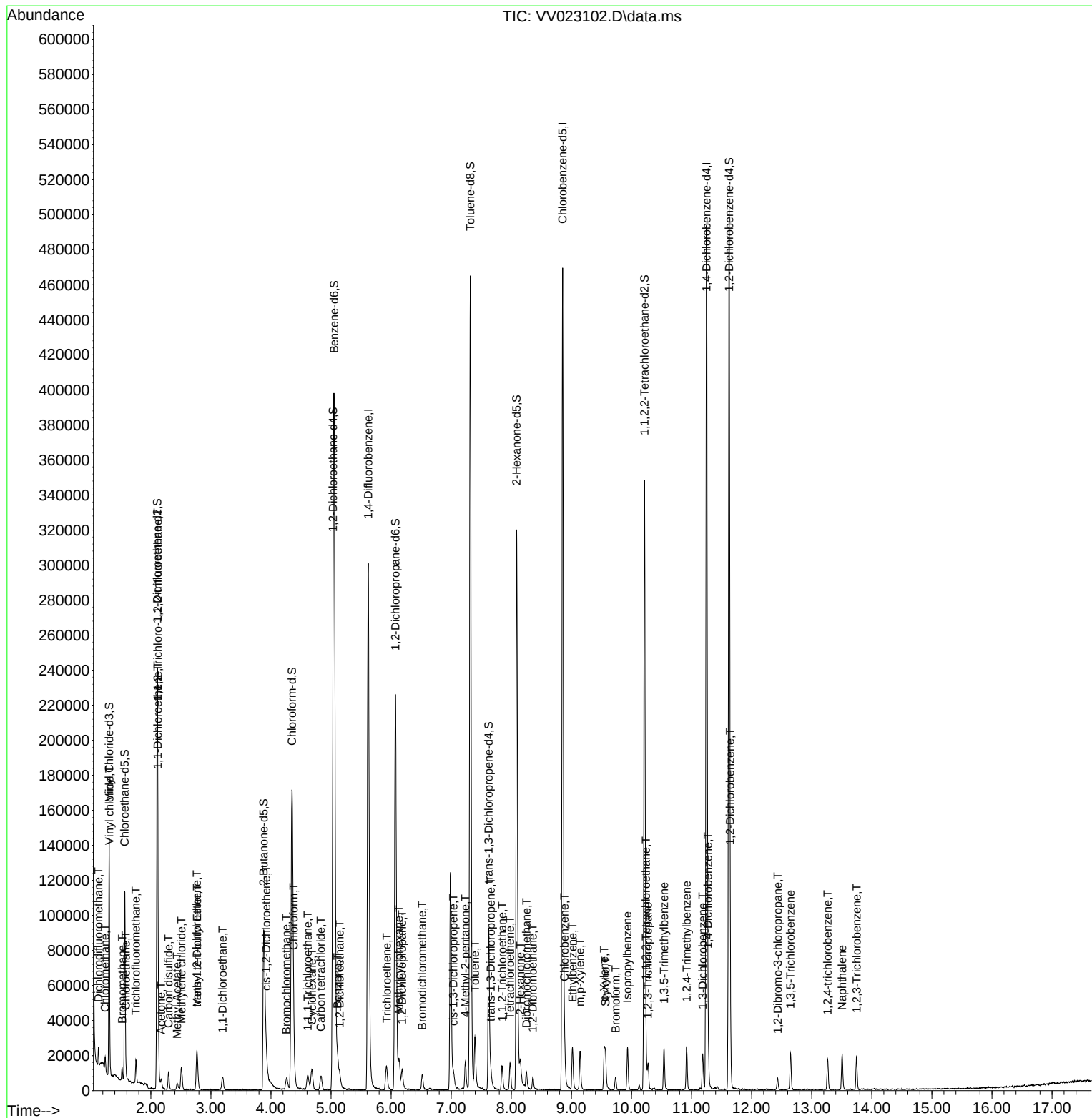
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 29) Cyclohexane               | 4.680  | 56   | 5776     | 1.917 | ug/L # | 47       |
| 30) 1,1,1-Trichloroethane     | 4.609  | 97   | 6994     | 2.033 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.831  | 117  | 5870     | 1.899 | ug/L   | 96       |
| 33) Benzene                   | 5.108  | 78   | 15150    | 1.884 | ug/L   | 100      |
| 34) Trichloroethene           | 5.928  | 95   | 4051     | 1.928 | ug/L   | 93       |
| 35) Methylcyclohexane         | 6.127  | 83   | 6298     | 1.923 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.182  | 63   | 4532     | 2.145 | ug/L # | 90       |
| 38) Bromodichloromethane      | 6.516  | 83   | 5763     | 2.015 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 7.037  | 75   | 5434     | 1.695 | ug/L   | 88       |
| 40) 4-Methyl-2-pentanone      | 7.233  | 43   | 10861    | 3.985 | ug/L   | 95       |
| 42) Toluene                   | 7.394  | 91   | 22061    | 2.563 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene | 7.657  | 75   | 5455     | 1.756 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 7.847  | 97   | 4318     | 2.001 | ug/L   | 98       |
| 46) Tetrachloroethene         | 7.982  | 164  | 3587     | 1.980 | ug/L   | 94       |
| 48) 2-Hexanone                | 8.149  | 43   | 10063    | 4.650 | ug/L   | 95       |
| 49) Dibromochloromethane      | 8.252  | 129  | 4915     | 1.993 | ug/L   | 91       |
| 50) 1,2-Dibromoethane         | 8.358  | 107  | 4554     | 2.004 | ug/L # | 89       |
| 51) Chlorobenzene             | 8.886  | 112  | 12568    | 2.162 | ug/L   | 96       |
| 52) Ethylbenzene              | 9.017  | 91   | 16809    | 1.836 | ug/L   | 96       |
| 53) m,p-Xylene                | 9.143  | 106  | 6488     | 1.838 | ug/L   | 91       |
| 54) o-Xylene                  | 9.548  | 106  | 6008     | 1.749 | ug/L   | 100      |
| 55) Styrene                   | 9.567  | 104  | 9509     | 1.592 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.242 | 83   | 7836     | 2.277 | ug/L   | 98       |
| 59) Bromoform                 | 9.738  | 173  | 3276     | 1.985 | ug/L   | 94       |
| 60) Isopropylbenzene          | 9.934  | 105  | 14694    | 1.763 | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 5985     | 2.448 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 10.542 | 105  | 12160    | 1.771 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.918 | 105  | 12400    | 1.799 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.185 | 146  | 8703     | 2.065 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.275 | 146  | 9450     | 2.153 | ug/L   | 93       |
| 67) 1,2-Dichlorobenzene       | 11.644 | 146  | 9401     | 2.206 | ug/L # | 90       |
| 68) 1,2-Dibromo-3-chloropr... | 12.435 | 75   | 1612     | 2.362 | ug/L   | 91       |
| 69) 1,3,5-Trichlorobenzene    | 12.648 | 180  | 6641     | 2.084 | ug/L   | 94       |
| 70) 1,2,4-trichlorobenzene    | 13.265 | 180  | 5858     | 2.121 | ug/L   | 92       |
| 71) Naphthalene               | 13.506 | 128  | 16313    | 1.839 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.747 | 180  | 5753     | 1.970 | ug/L   | 99       |
| -----                         |        |      |          |       |        |          |

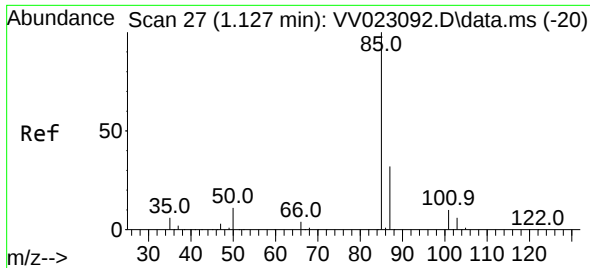
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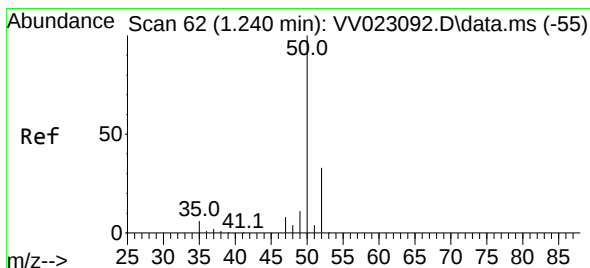
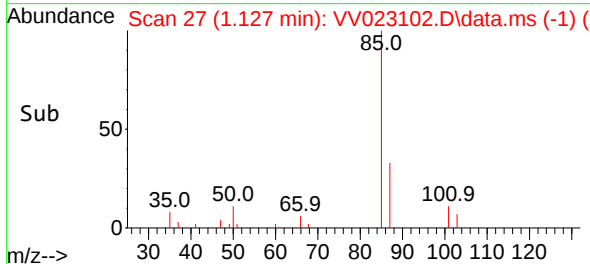
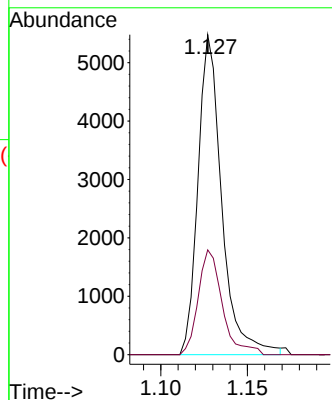
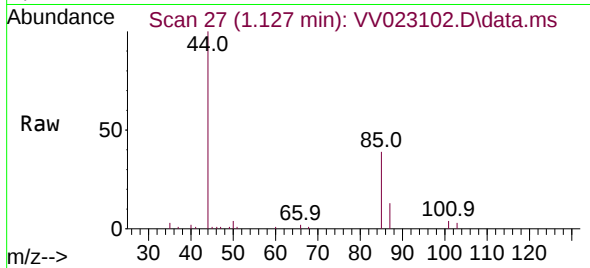




#2  
 Dichlorodifluoromethane  
 Concen: 2.091 ug/L  
 RT: 1.127 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: VV023102.D  
 Acq: 29 Oct 2021 13:59

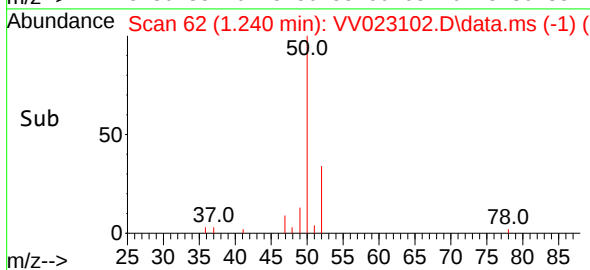
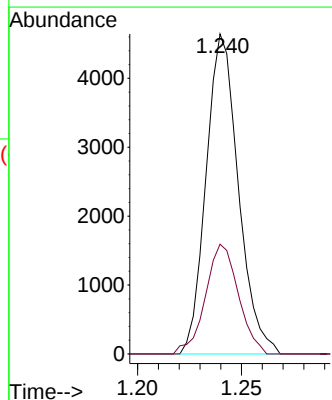
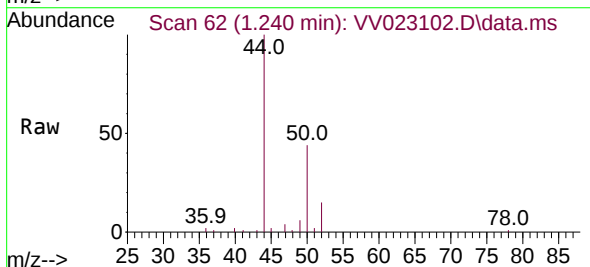
Instrument :  
 MSVOA\_V  
 ClientSampled :

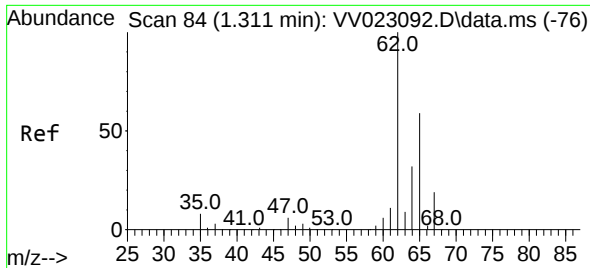
Tgt Ion: 85 Resp: 5223  
 Ion Ratio Lower Upper  
 85 100  
 87 33.1 26.2 39.2



#3  
 Chloromethane  
 Concen: 2.125 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. -0.000 min  
 Lab File: VV023102.D  
 Acq: 29 Oct 2021 13:59

Tgt Ion: 50 Resp: 5007  
 Ion Ratio Lower Upper  
 50 100  
 52 34.3 22.5 41.9

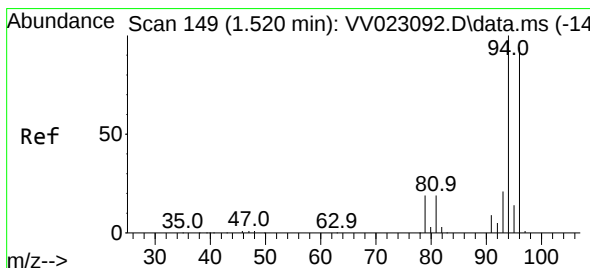
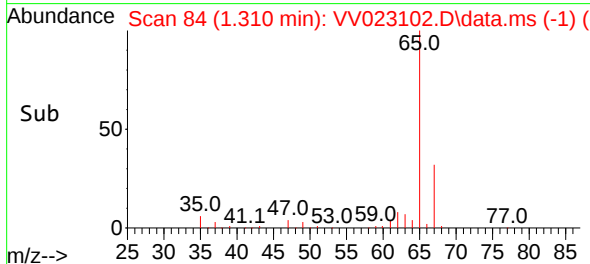
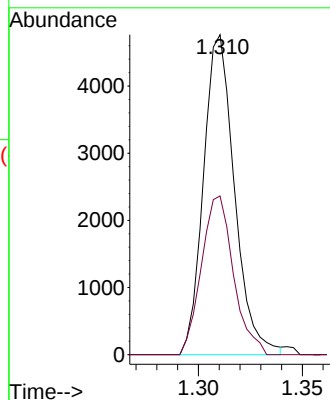
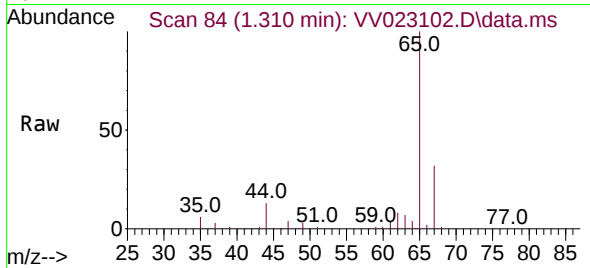




#5  
 Vinyl chloride  
 Concen: 2.101 ug/L  
 RT: 1.310 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: VV023102.D  
 Acq: 29 Oct 2021 13:59

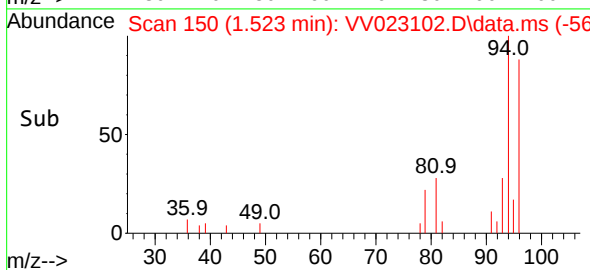
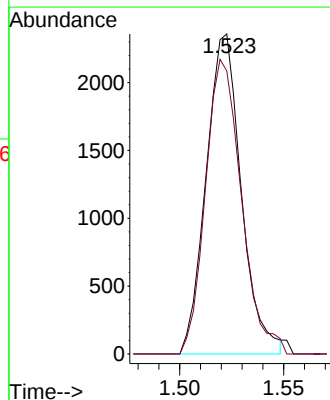
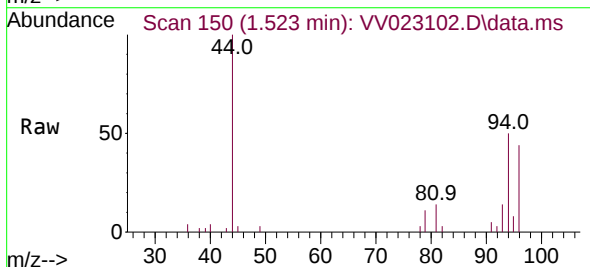
Instrument :  
 MSVOA\_V  
 ClientSampled :

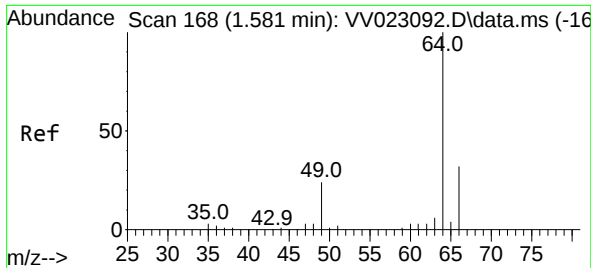
Tgt Ion: 62 Resp: 4946  
 Ion Ratio Lower Upper  
 62 100  
 64 49.6 23.4 43.4#



#6  
 Bromomethane  
 Concen: 2.093 ug/L  
 RT: 1.523 min Scan# 150  
 Delta R.T. 0.003 min  
 Lab File: VV023102.D  
 Acq: 29 Oct 2021 13:59

Tgt Ion: 94 Resp: 2768  
 Ion Ratio Lower Upper  
 94 100  
 96 88.5 66.8 124.2

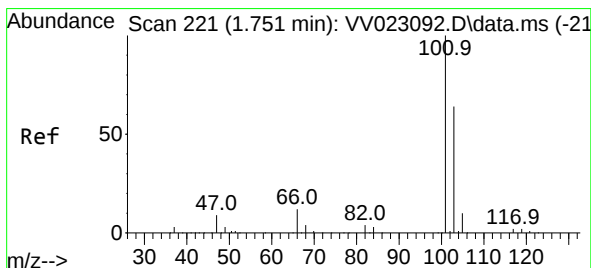
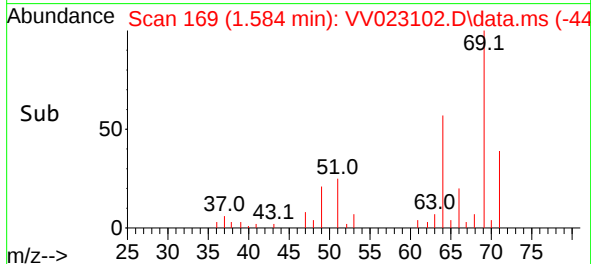
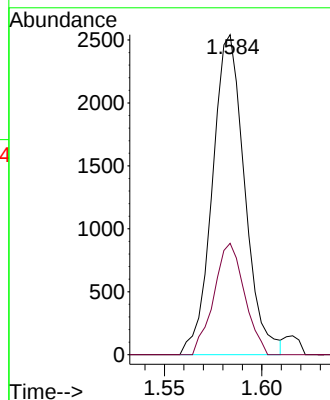
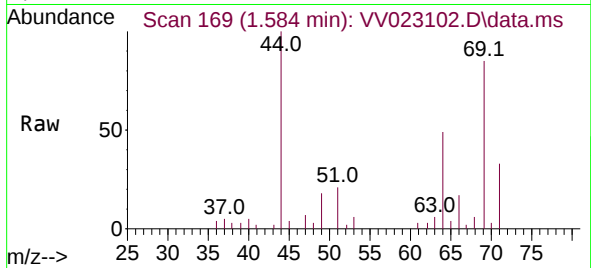




#8  
Chloroethane  
Concen: 2.044 ug/L  
RT: 1.584 min Scan# 169  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

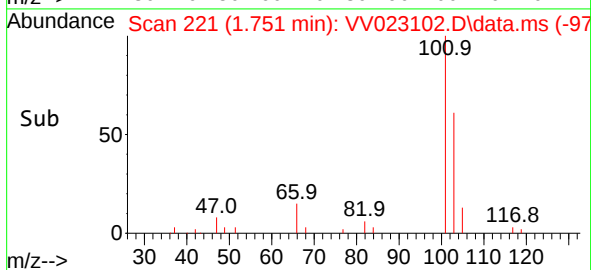
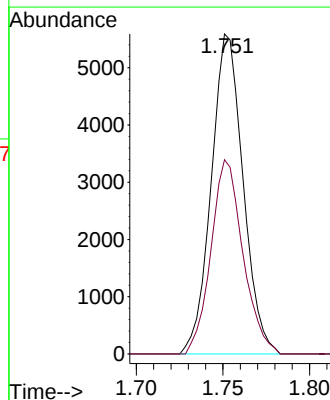
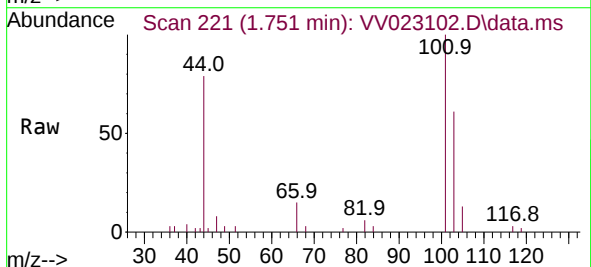
Instrument :  
MSVOA\_V  
ClientSampled :

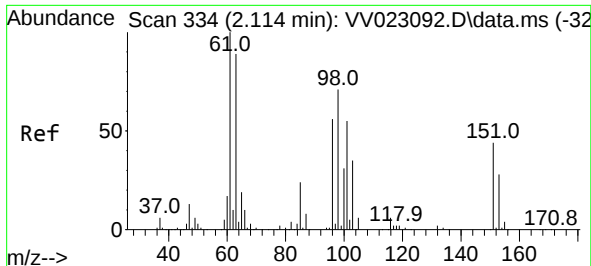
Tgt Ion: 64 Resp: 2930  
Ion Ratio Lower Upper  
64 100  
66 34.8 21.3 39.6



#9  
Trichlorofluoromethane  
Concen: 1.999 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. -0.000 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 101 Resp: 7143  
Ion Ratio Lower Upper  
101 100  
103 60.9 52.2 78.2

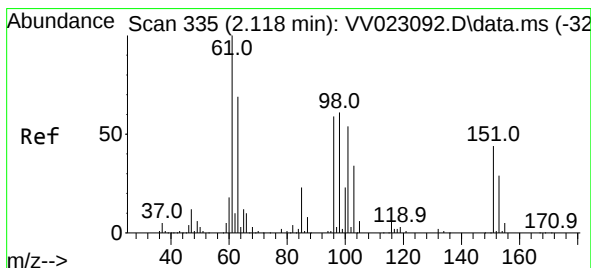
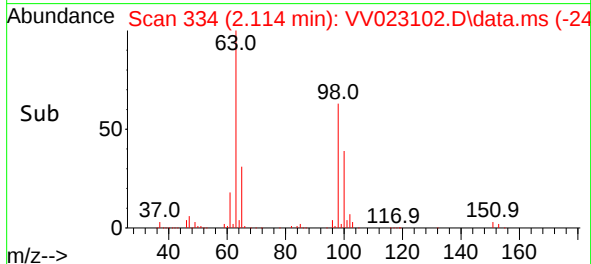
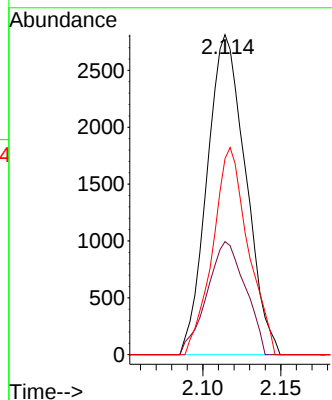
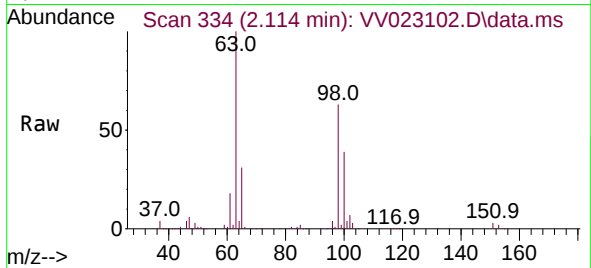




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 2.549 ug/L  
RT: 2.114 min Scan# 334  
Delta R.T. -0.000 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

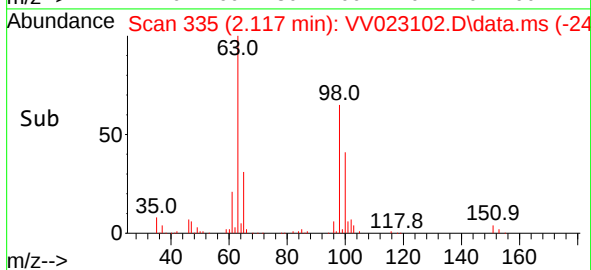
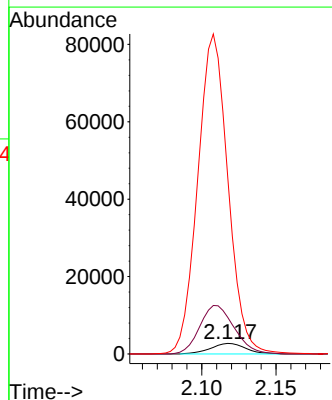
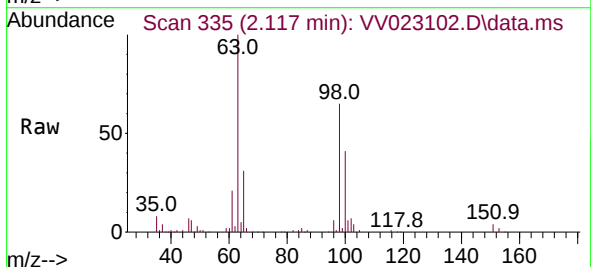
Instrument :  
MSVOA\_V  
ClientSampleId :

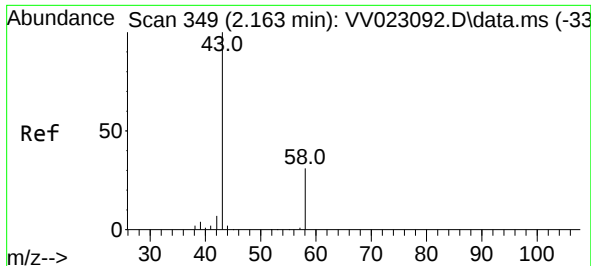
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Ion Ratio Lower Upper  
101 100  
85 35.1 35.1 52.7#  
151 59.5 63.4 95.2#



#12  
1,1-Dichloroethene  
Concen: 2.550 ug/L  
RT: 2.117 min Scan# 335  
Delta R.T. -0.000 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 96 Resp: 4488  
Ion Ratio Lower Upper  
96 100  
61 346.9 117.7 218.7#  
63 1680.1 79.2 147.2#

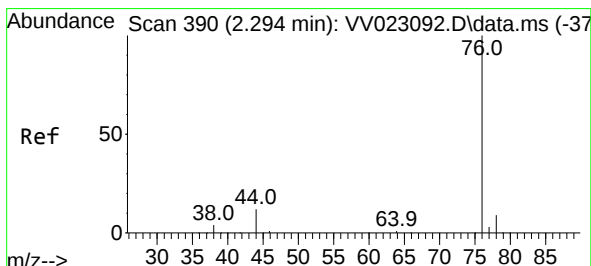
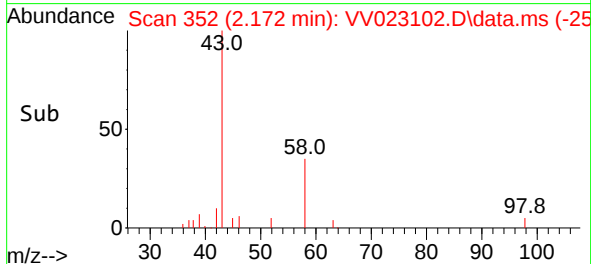
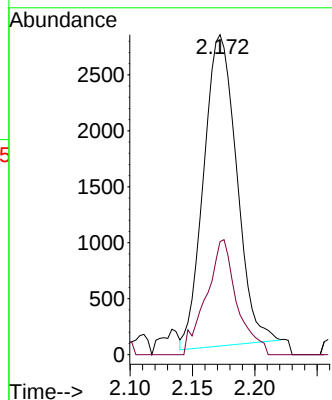
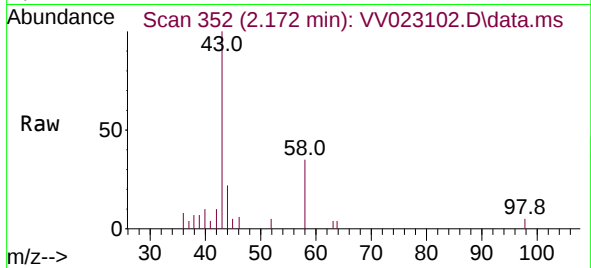




#13  
Acetone  
Concen: 3.815 ug/L  
RT: 2.172 min Scan# 352  
Delta R.T. 0.009 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

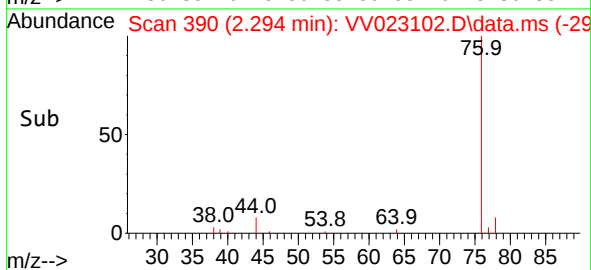
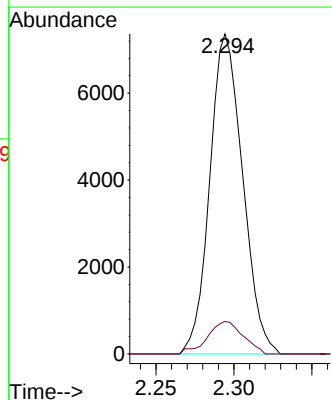
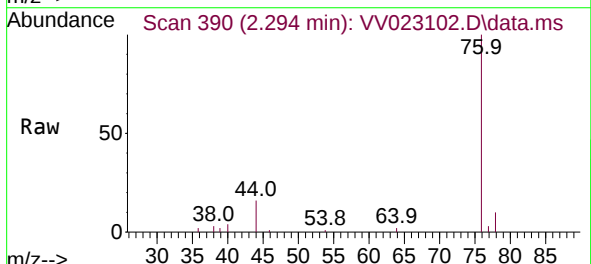
Instrument :  
MSVOA\_V  
ClientSampled :

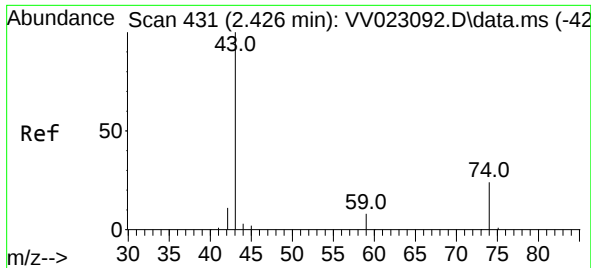
Tgt Ion: 43 Resp: 5131  
Ion Ratio Lower Upper  
43 100  
58 34.2 0.0 0.4#



#14  
Carbon disulfide  
Concen: 2.051 ug/L  
RT: 2.294 min Scan# 390  
Delta R.T. -0.000 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 76 Resp: 10798  
Ion Ratio Lower Upper  
76 100  
78 10.2 7.4 11.0

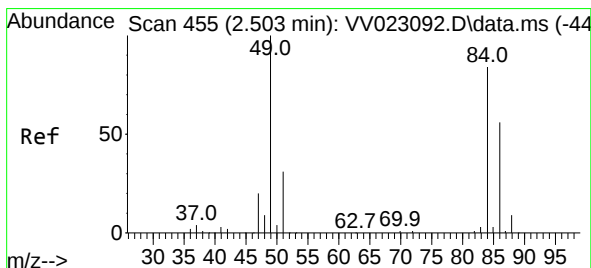
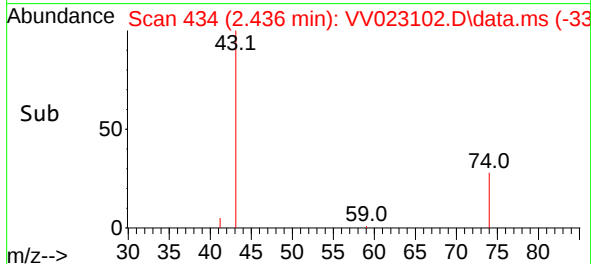
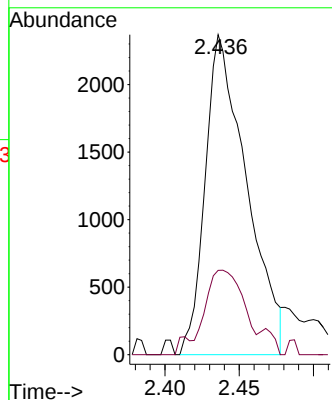
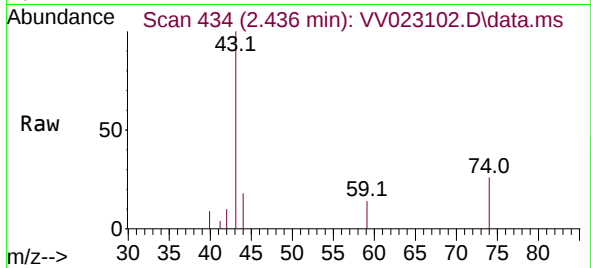




#15  
Methyl Acetate  
Concen: 2.052 ug/L  
RT: 2.436 min Scan# 434  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

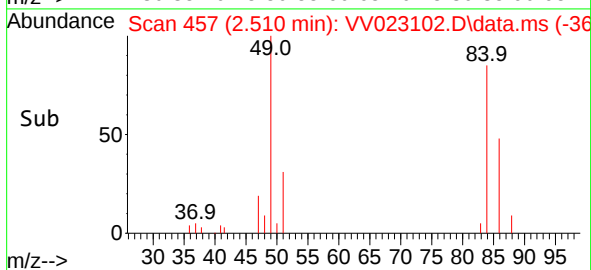
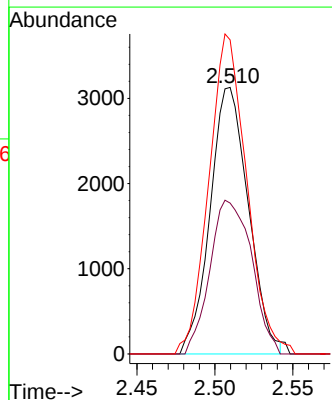
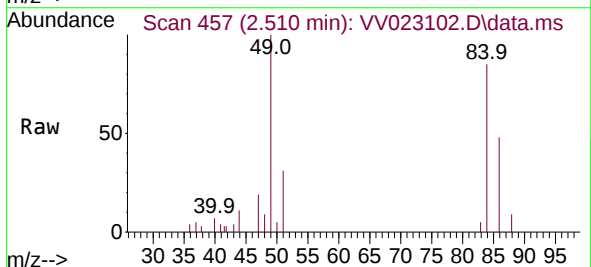
Instrument :  
MSVOA\_V  
ClientSampled :

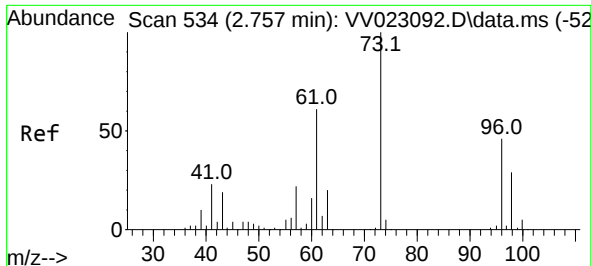
Tgt Ion: 43 Resp: 4580  
Ion Ratio Lower Upper  
43 100  
74 24.1 19.4 29.2



#16  
Methylene chloride  
Concen: 2.368 ug/L  
RT: 2.510 min Scan# 457  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 84 Resp: 5340  
Ion Ratio Lower Upper  
84 100  
86 56.6 45.4 84.2  
49 117.8 83.0 154.1

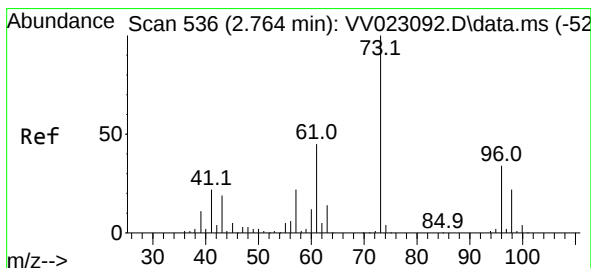
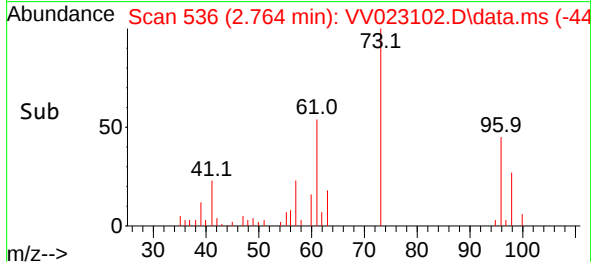
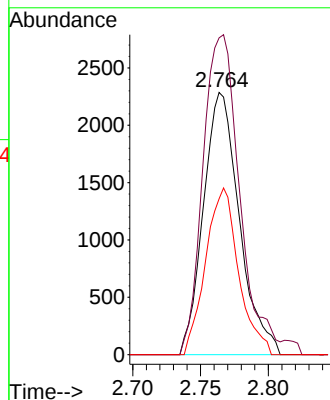
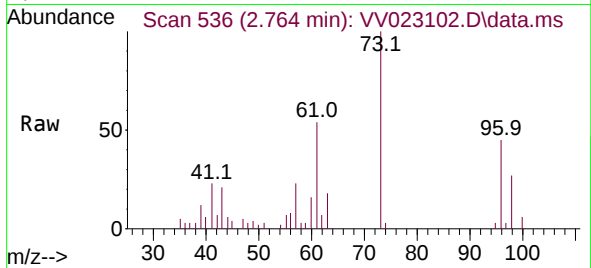




#17  
trans-1,2-Dichloroethene  
Concen: 2.096 ug/L  
RT: 2.764 min Scan# 536  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

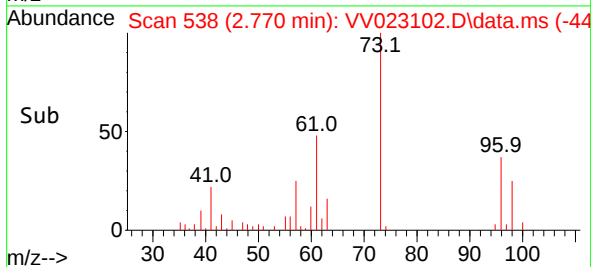
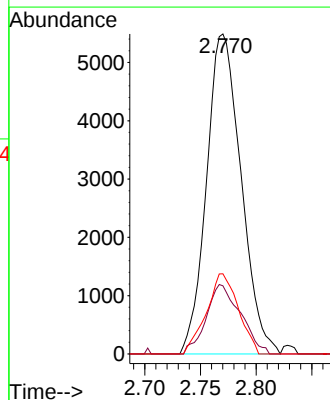
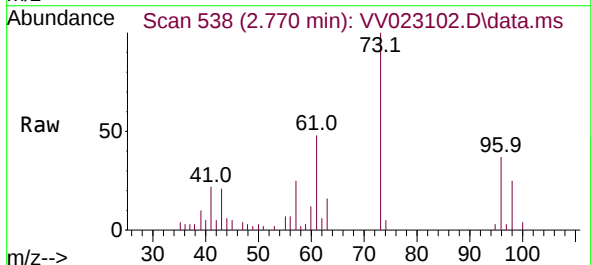
Instrument :  
MSVOA\_V  
ClientSampleId :

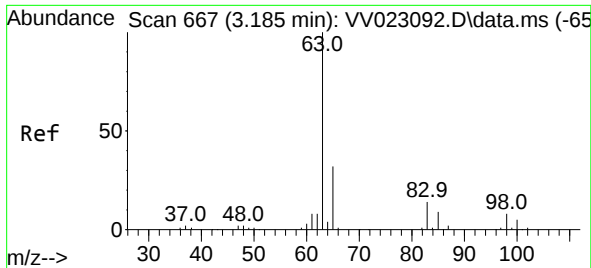
Tgt Ion: 96 Resp: 4211  
Ion Ratio Lower Upper  
96 100  
61 120.8 92.2 171.2  
98 59.4 44.1 81.9



#18  
Methyl tert-butyl Ether  
Concen: 1.965 ug/L  
RT: 2.770 min Scan# 538  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 73 Resp: 11856  
Ion Ratio Lower Upper  
73 100  
43 21.5 14.9 22.3  
57 23.1 17.6 26.4

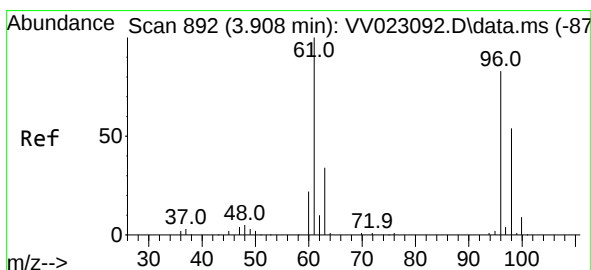
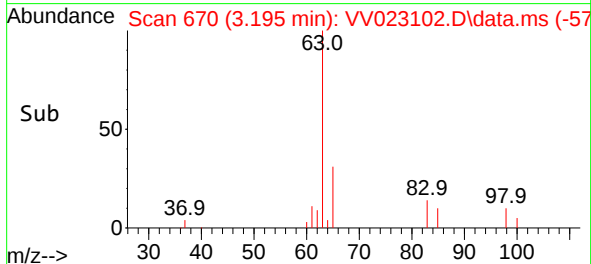
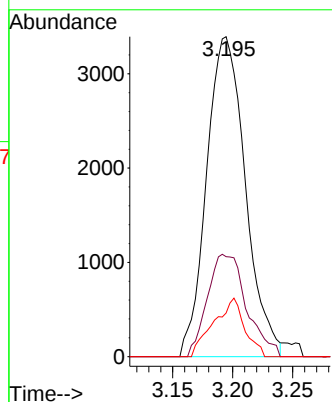
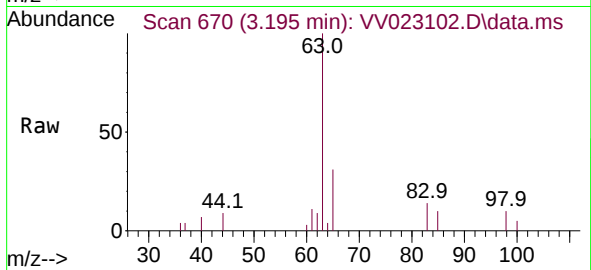




#19  
1,1-Dichloroethane  
Concen: 2.037 ug/L  
RT: 3.195 min Scan# 670  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

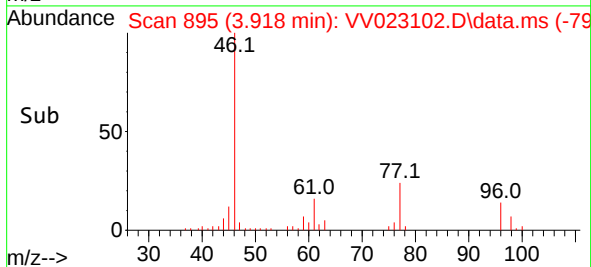
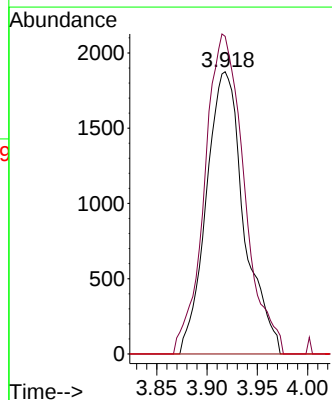
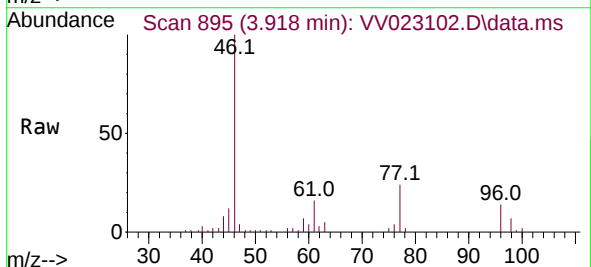
Instrument :  
MSVOA\_V  
ClientSampled :

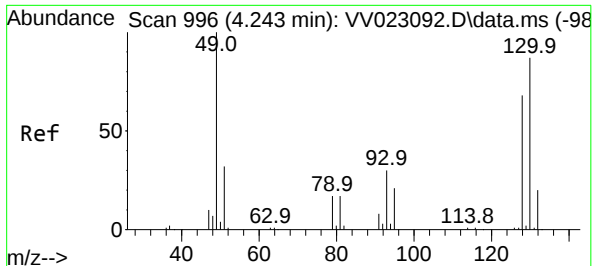
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 7624  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 31.3  | 22.3  | 41.5  |
| 83       | 13.6  | 9.8   | 18.2  |



#20  
cis-1,2-Dichloroethene  
Concen: 2.280 ug/L  
RT: 3.918 min Scan# 895  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4896  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 112.5 | 83.0  | 154.1 |
| 68       | 0.0   | 0.0   | 0.0   |

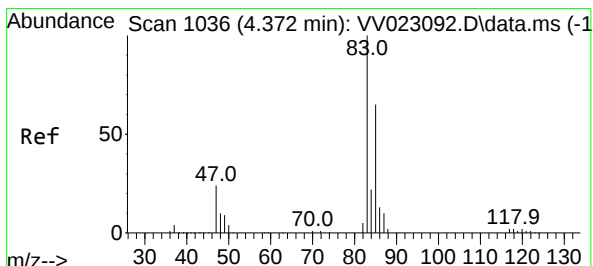
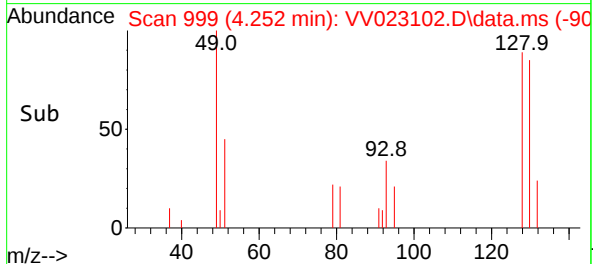
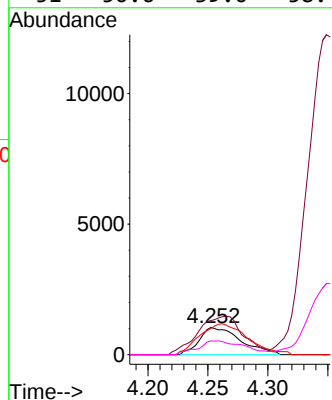
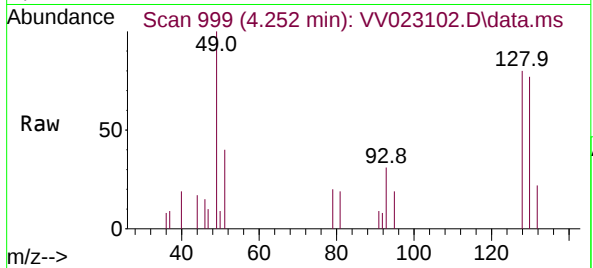




#23  
Bromochloromethane  
Concen: 2.077 ug/L  
RT: 4.252 min Scan# 999  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

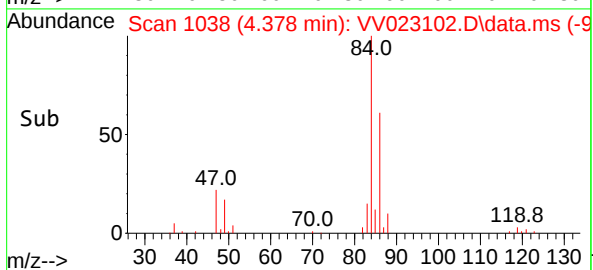
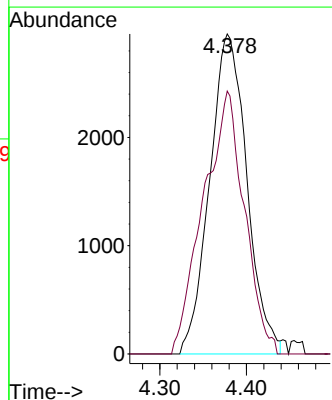
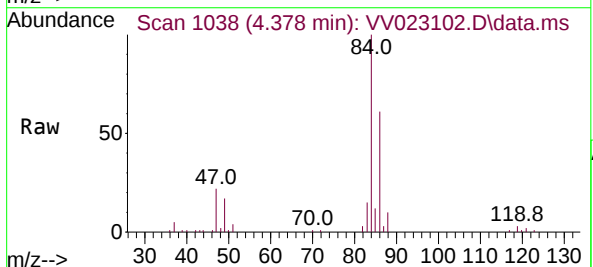
Instrument :  
MSVOA\_V  
ClientSampled :

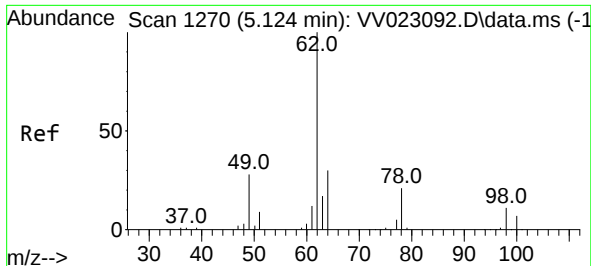
Tgt Ion:128 Resp: 2513  
Ion Ratio Lower Upper  
128 100  
49 125.2 104.7 194.4  
130 96.1 89.7 166.7  
51 50.6 39.0 58.4



#25  
Chloroform  
Concen: 2.291 ug/L  
RT: 4.378 min Scan# 1038  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 83 Resp: 8817  
Ion Ratio Lower Upper  
83 100  
85 82.1 44.4 82.4





#27

1,2-Dichloroethane

Concen: 1.823 ug/L

RT: 5.143 min Scan# 1276

Delta R.T. 0.019 min

Lab File: VV023102.D

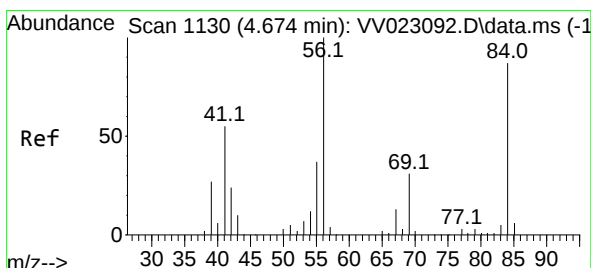
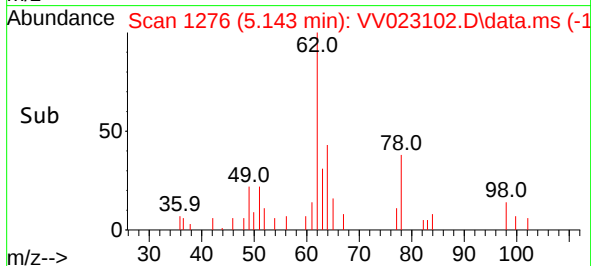
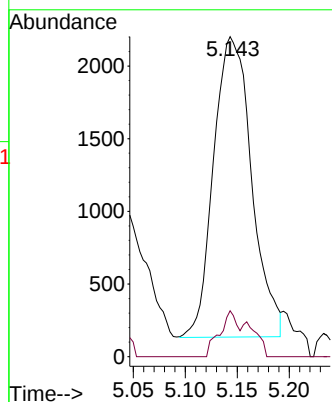
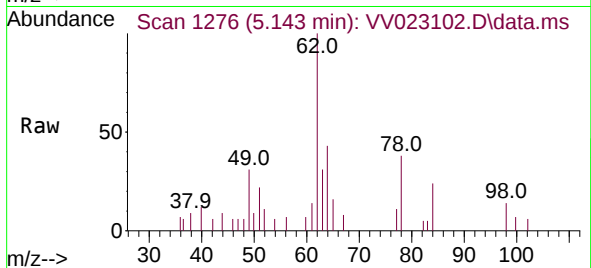
Acq: 29 Oct 2021 13:59

Tgt Ion: 62 Resp: 5266

Ion Ratio Lower Upper

62 100

98 14.4 8.2 12.4#



#29

Cyclohexane

Concen: 1.917 ug/L

RT: 4.680 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VV023102.D

Acq: 29 Oct 2021 13:59

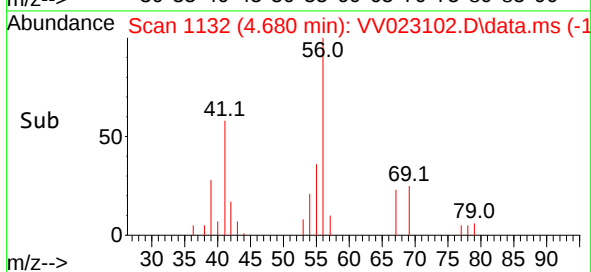
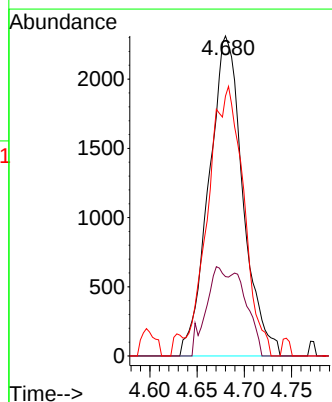
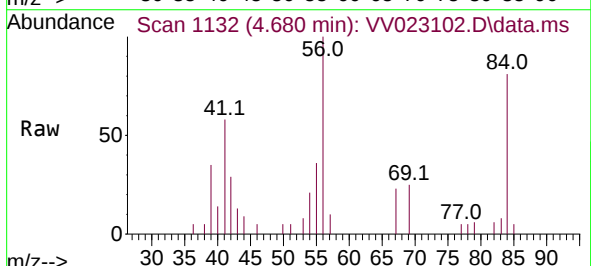
Tgt Ion: 56 Resp: 5776

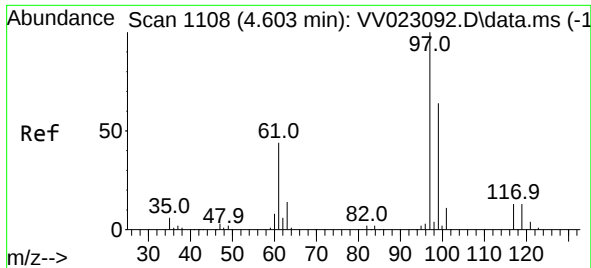
Ion Ratio Lower Upper

56 100

69 12.4 24.6 36.8#

84 34.3 72.8 109.2#

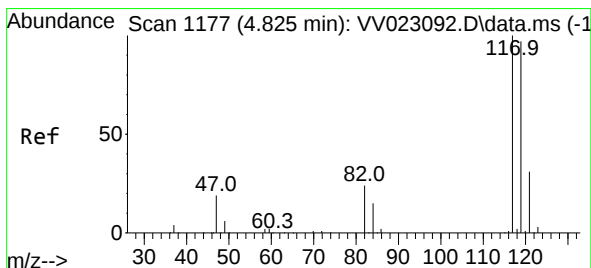
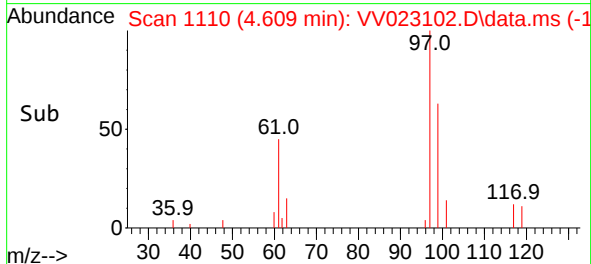
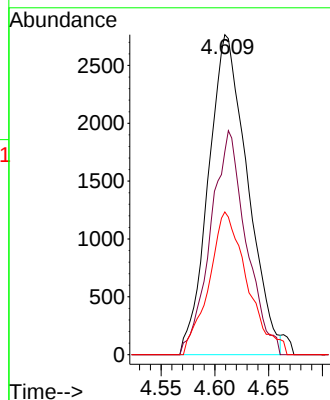
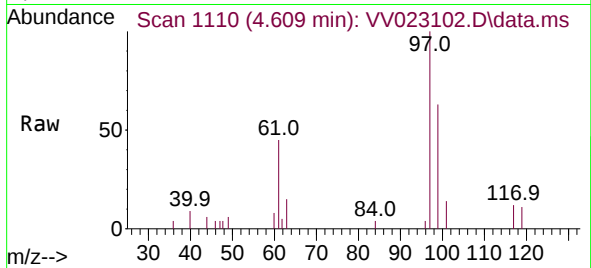




#30  
1,1,1-Trichloroethane  
Concen: 2.033 ug/L  
RT: 4.609 min Scan# 1110  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

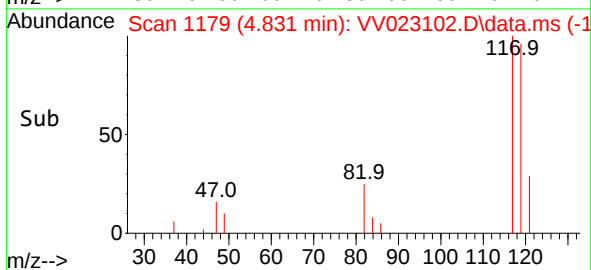
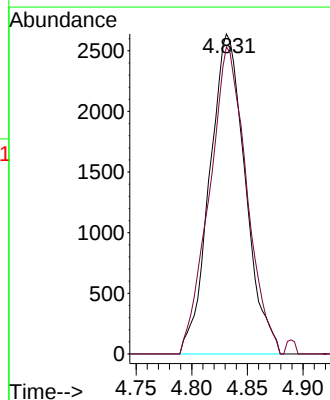
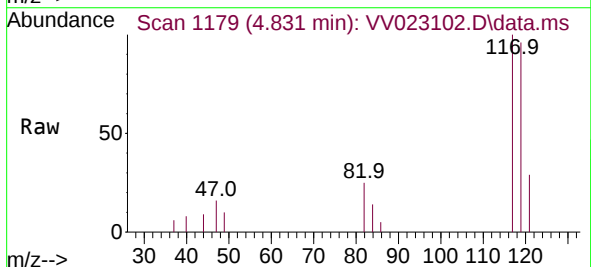
Instrument :  
MSVOA\_V  
ClientSampled :

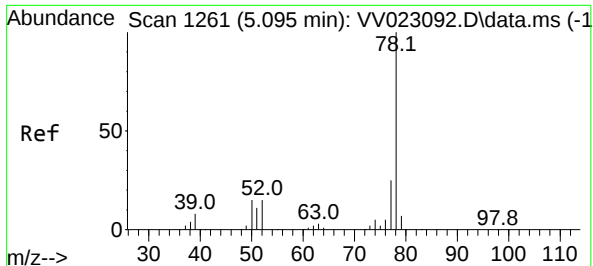
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 97 | Resp: | 6994        |
| Ion         | Ratio | Lower Upper |
| 97          | 100   |             |
| 99          | 62.9  | 51.9 77.9   |
| 61          | 43.4  | 33.8 50.6   |



#31  
Carbon tetrachloride  
Concen: 1.899 ug/L  
RT: 4.831 min Scan# 1179  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 117 | Resp: | 5870        |
| Ion          | Ratio | Lower Upper |
| 117          | 100   |             |
| 119          | 100.4 | 77.0 115.4  |

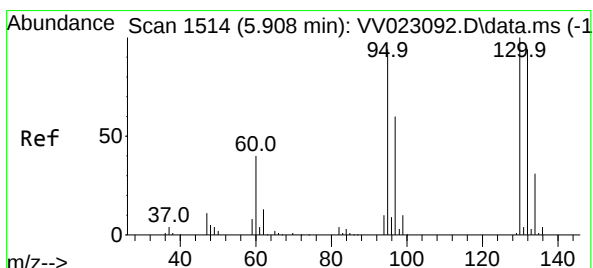
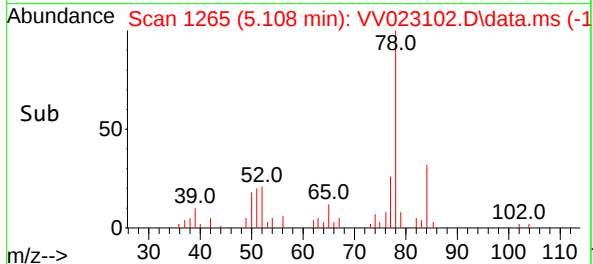
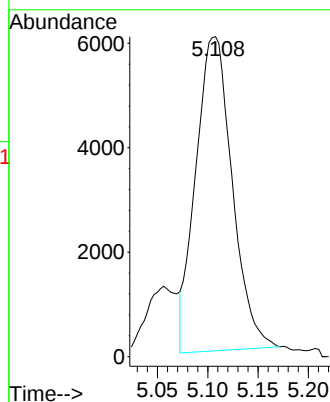
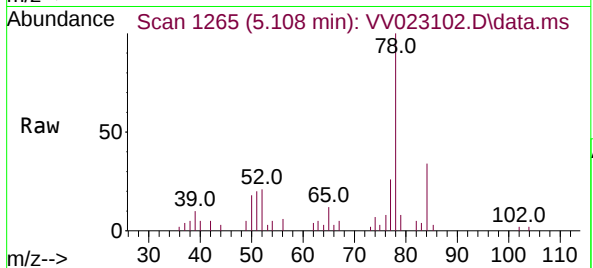




#33  
Benzene  
Concen: 1.884 ug/L  
RT: 5.108 min Scan# 1265  
Delta R.T. 0.013 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Instrument :  
MSVOA\_V  
ClientSampled :

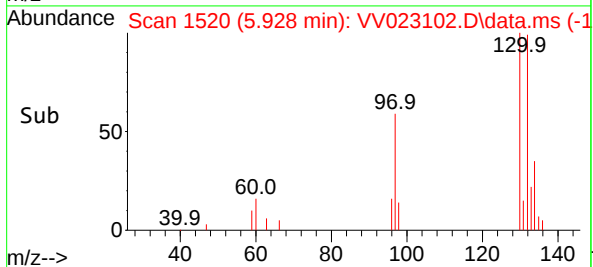
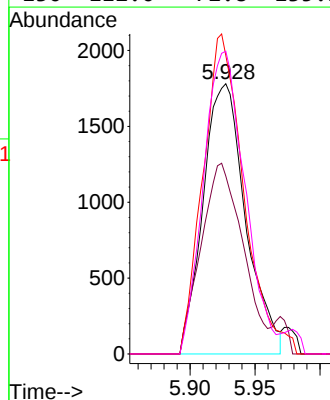
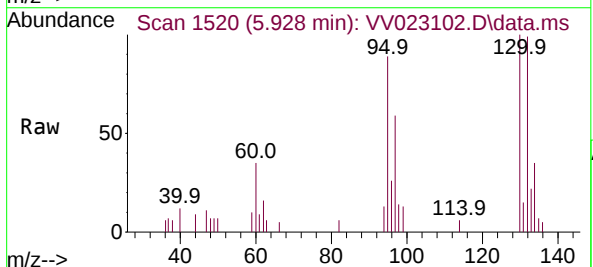
Tgt Ion: 78 Resp: 15150

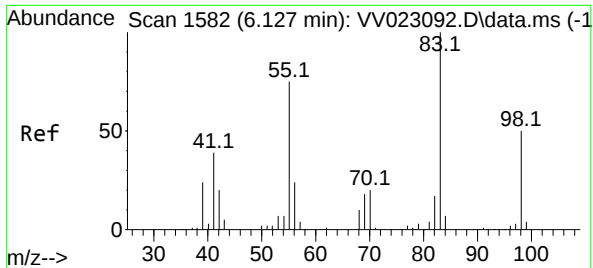


#34  
Trichloroethene  
Concen: 1.928 ug/L  
RT: 5.928 min Scan# 1520  
Delta R.T. 0.019 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 95 Resp: 4051

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.9  | 44.4  | 82.5  |
| 132 | 110.5 | 71.5  | 132.9 |
| 130 | 112.0 | 72.8  | 135.2 |





#35

Methylcyclohexane

Concen: 1.923 ug/L

RT: 6.127 min Scan# 1582

Delta R.T. -0.000 min

Lab File: VV023102.D

Acq: 29 Oct 2021 13:59

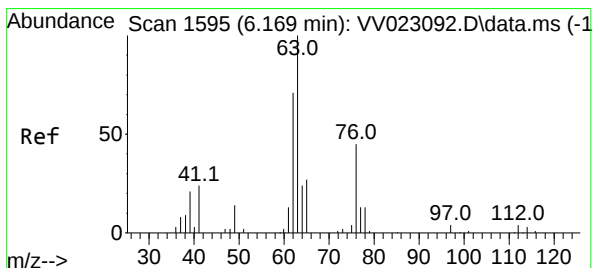
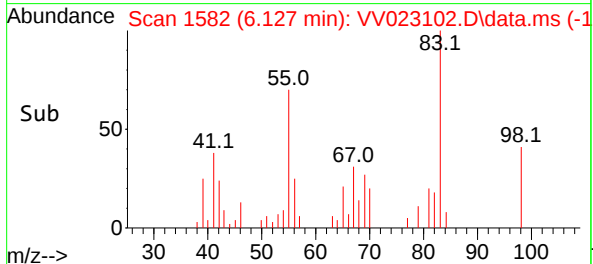
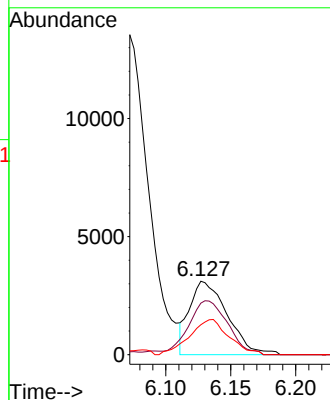
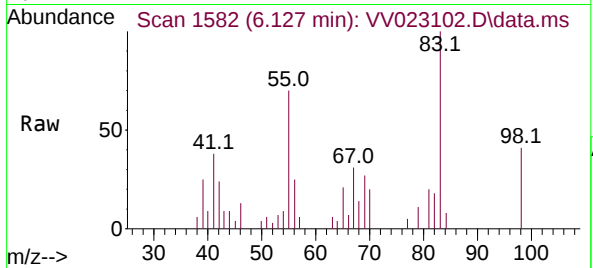
Tgt Ion: 83 Resp: 6298

Ion Ratio Lower Upper

83 100

55 75.8 60.1 90.1

98 49.6 41.2 61.8



#37

1,2-Dichloropropane

Concen: 2.145 ug/L

RT: 6.182 min Scan# 1599

Delta R.T. 0.013 min

Lab File: VV023102.D

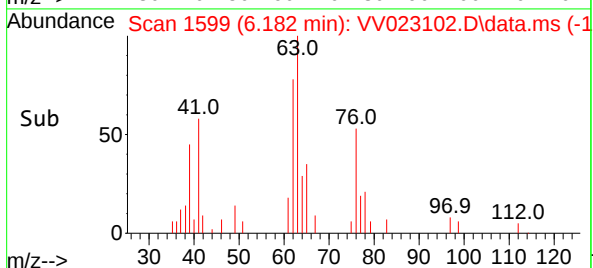
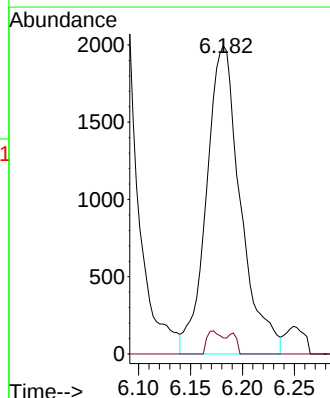
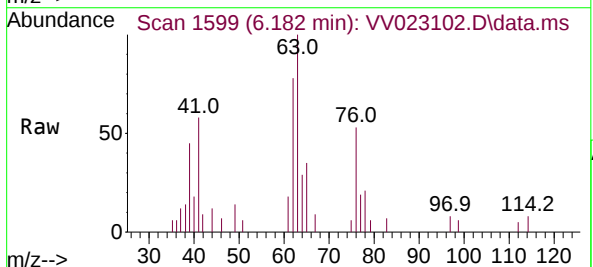
Acq: 29 Oct 2021 13:59

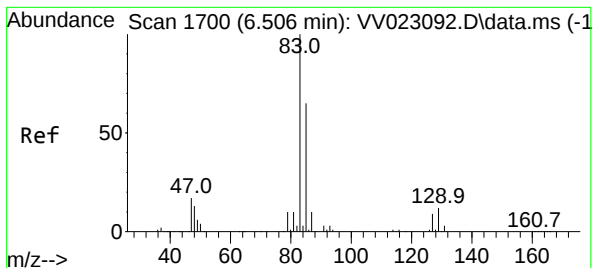
Tgt Ion: 63 Resp: 4532

Ion Ratio Lower Upper

63 100

112 1.5 3.8 5.8#





#38

Bromodichloromethane

Concen: 2.015 ug/L

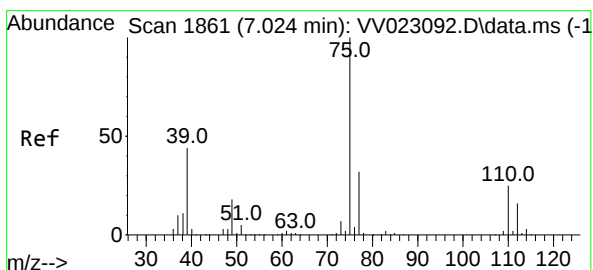
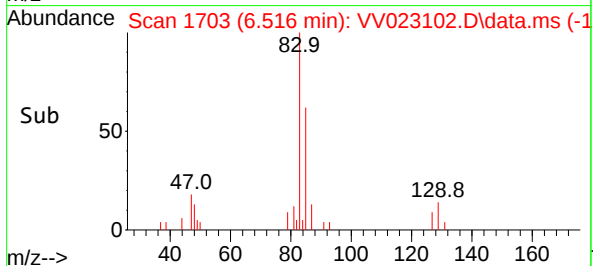
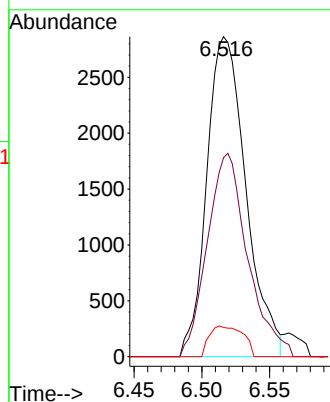
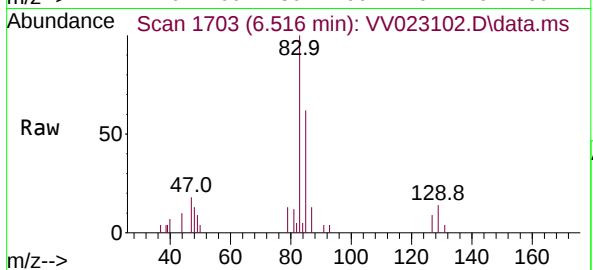
RT: 6.516 min Scan# 1703

Delta R.T. 0.010 min

Lab File: VV023102.D

Acq: 29 Oct 2021 13:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 5763  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 62.2  | 46.1  | 85.5  |
| 127      | 9.1   | 7.4   | 11.0  |



#39

cis-1,3-Dichloropropene

Concen: 1.695 ug/L

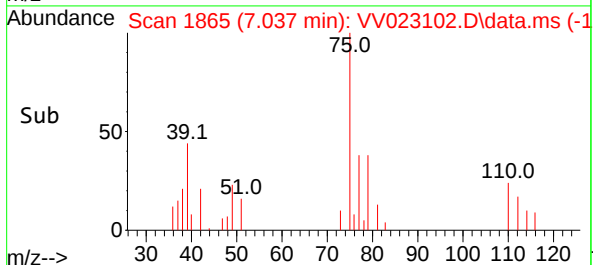
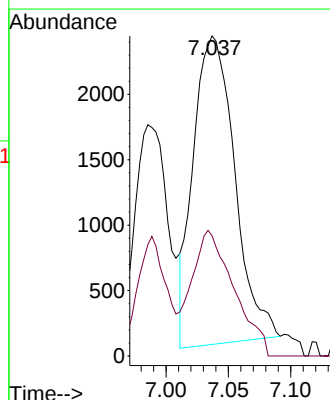
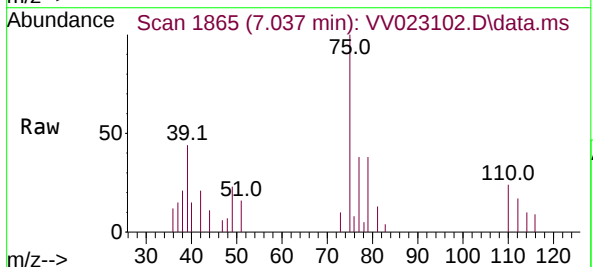
RT: 7.037 min Scan# 1865

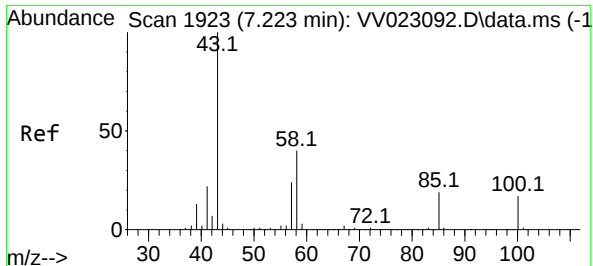
Delta R.T. 0.013 min

Lab File: VV023102.D

Acq: 29 Oct 2021 13:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 5434  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 37.6  | 21.8  | 40.6  |

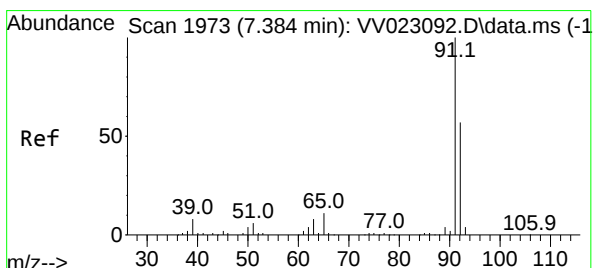
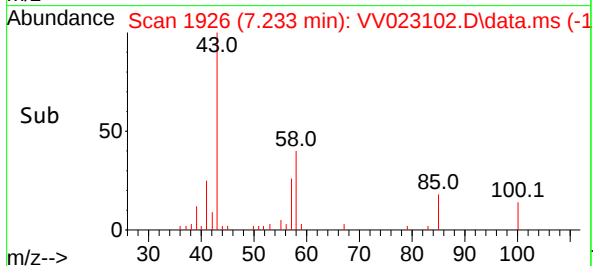
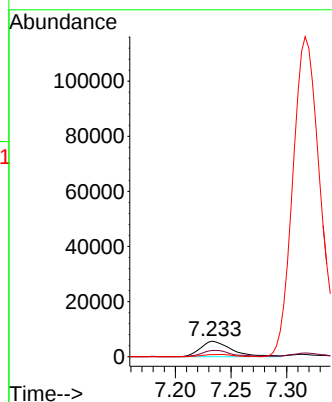
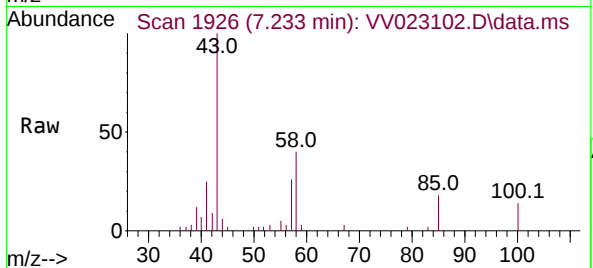




#40  
4-Methyl-2-pentanone  
Concen: 3.985 ug/L  
RT: 7.233 min Scan# 1926  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

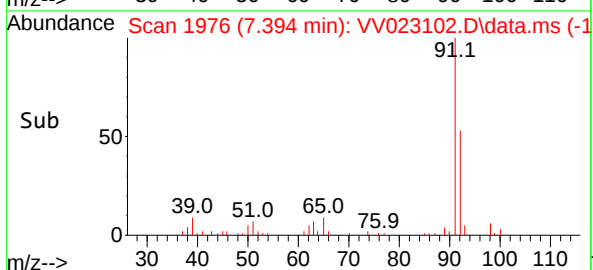
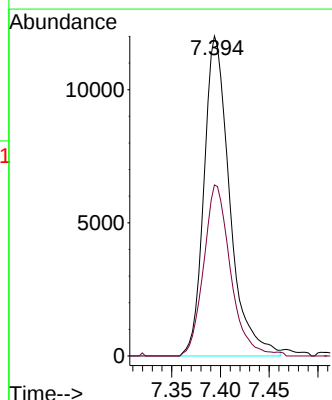
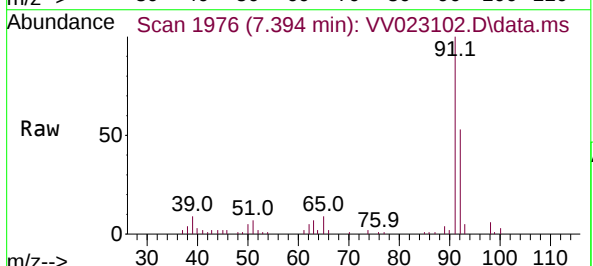
Instrument :  
MSVOA\_V  
ClientSampled :

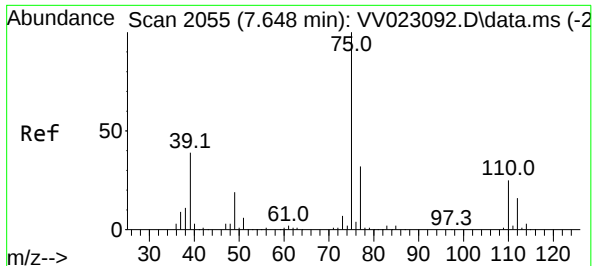
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 10861 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 37.9  | 32.4  | 48.6  |
| 100      | 13.6  | 13.4  | 20.2  |



#42  
Toluene  
Concen: 2.563 ug/L  
RT: 7.394 min Scan# 1976  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 22061 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 53.5  | 40.6  | 75.4  |

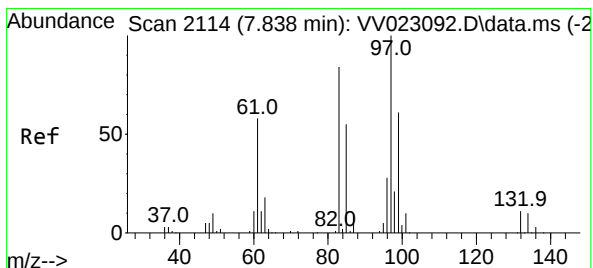
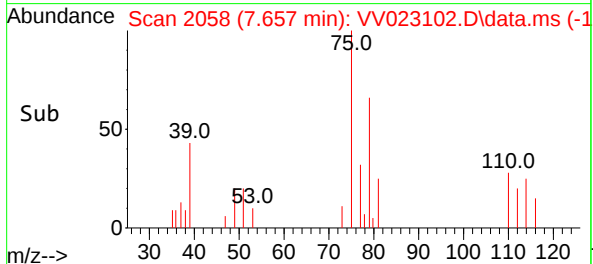
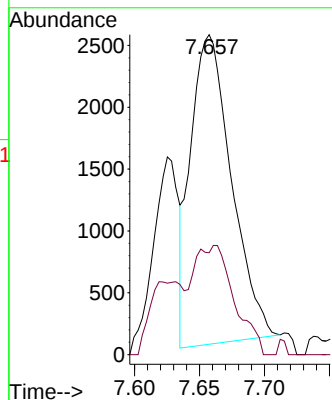
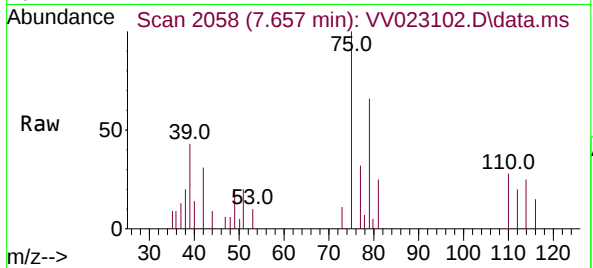




#44  
trans-1,3-Dichloropropene  
Concen: 1.756 ug/L  
RT: 7.657 min Scan# 2058  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

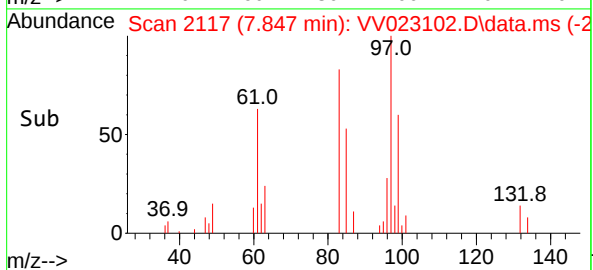
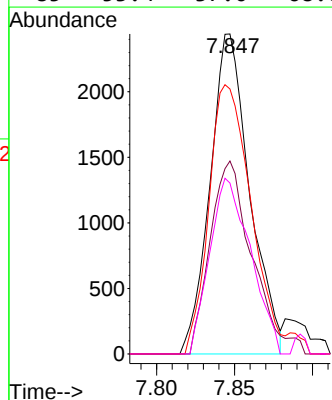
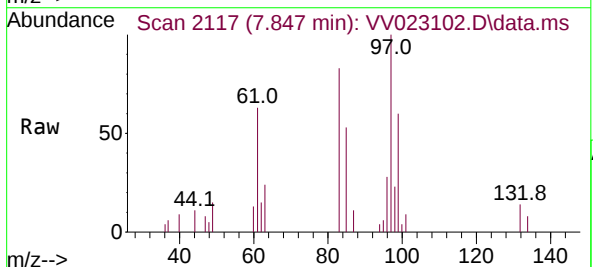
Instrument :  
MSVOA\_V  
ClientSampleId :

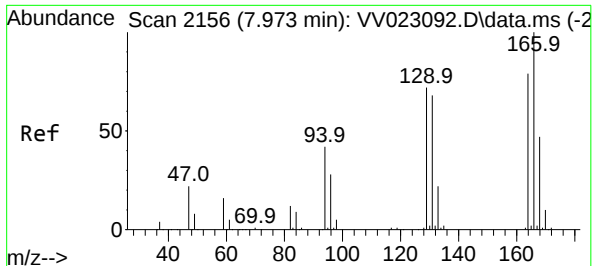
Tgt Ion: 75 Resp: 5455  
Ion Ratio Lower Upper  
75 100  
77 31.9 21.4 39.8



#45  
1,1,2-Trichloroethane  
Concen: 2.001 ug/L  
RT: 7.847 min Scan# 2117  
Delta R.T. 0.009 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 97 Resp: 4318  
Ion Ratio Lower Upper  
97 100  
99 60.3 44.2 82.2  
83 82.8 57.7 107.1  
85 53.4 37.0 68.6



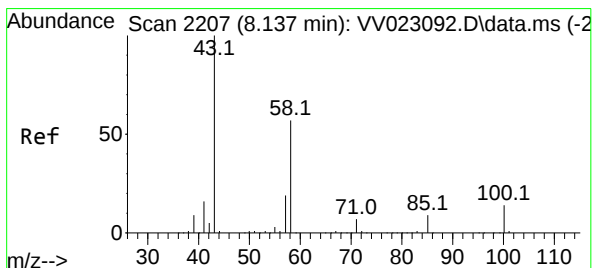
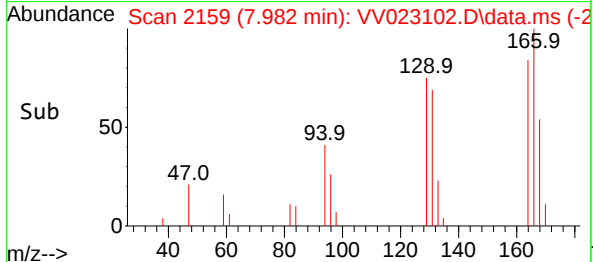
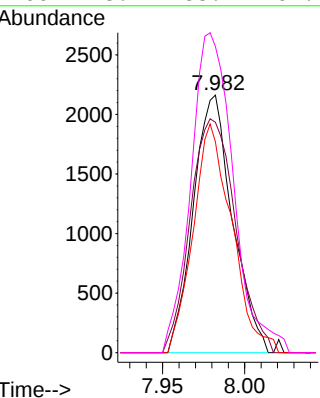
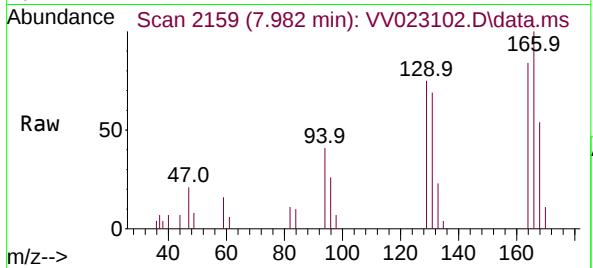


#46  
Tetrachloroethene  
Concen: 1.980 ug/L  
RT: 7.982 min Scan# 2159  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:164 Resp: 3587

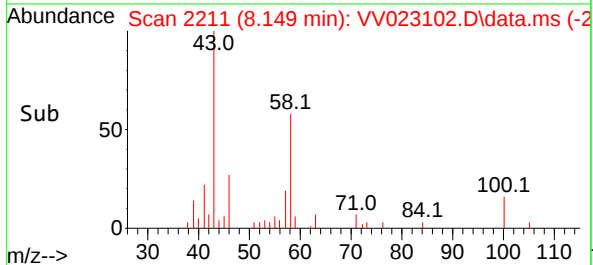
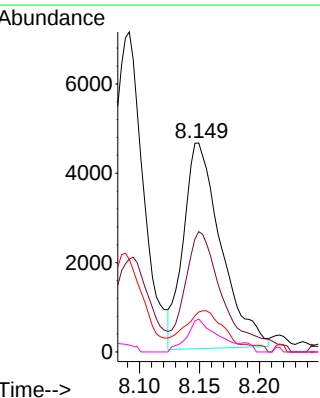
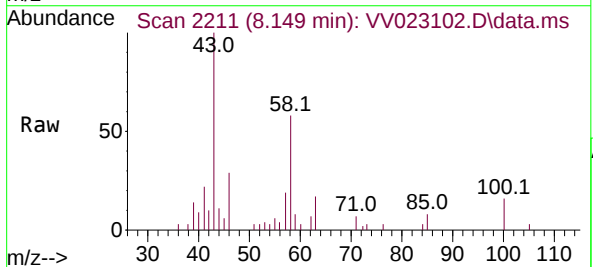
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 89.5  | 64.6  | 120.0 |
| 131 | 81.9  | 62.9  | 116.7 |
| 166 | 118.9 | 88.4  | 164.2 |

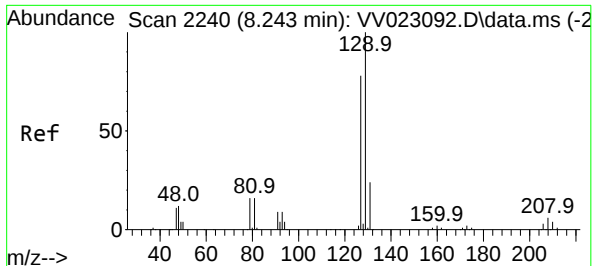


#48  
2-Hexanone  
Concen: 4.650 ug/L  
RT: 8.149 min Scan# 2211  
Delta R.T. 0.013 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 43 Resp: 10063

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 53.4  | 45.6  | 68.4  |
| 57  | 16.5  | 15.4  | 23.0  |
| 100 | 12.8  | 11.0  | 16.4  |





#49

Dibromochloromethane

Concen: 1.993 ug/L

RT: 8.252 min Scan# 2243

Delta R.T. 0.010 min

Lab File: VV023102.D

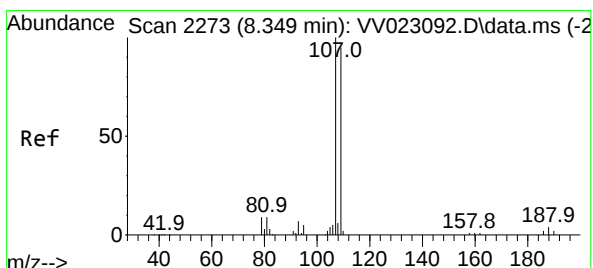
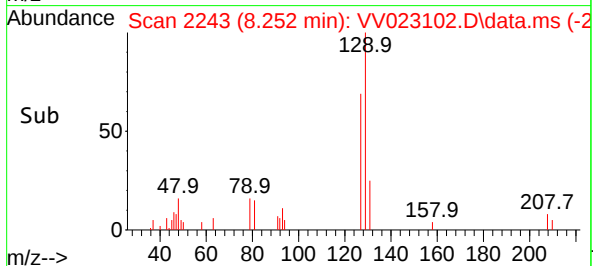
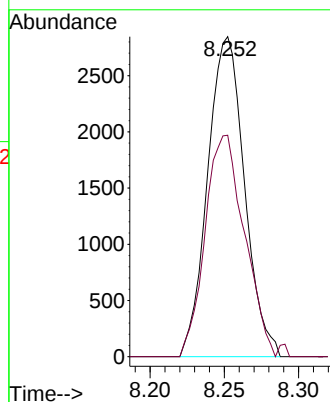
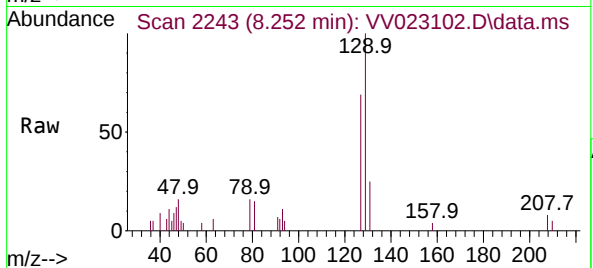
Acq: 29 Oct 2021 13:59

Tgt Ion:129 Resp: 4915

Ion Ratio Lower Upper

129 100

127 69.2 53.9 100.1



#50

1,2-Dibromoethane

Concen: 2.004 ug/L

RT: 8.358 min Scan# 2276

Delta R.T. 0.009 min

Lab File: VV023102.D

Acq: 29 Oct 2021 13:59

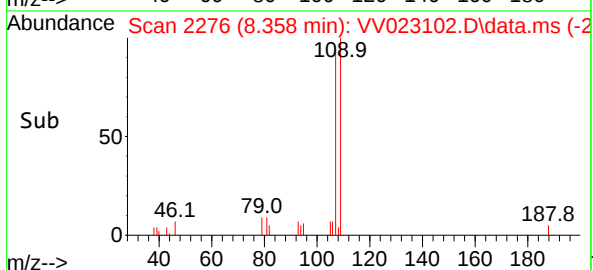
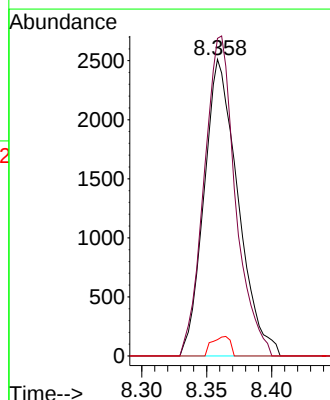
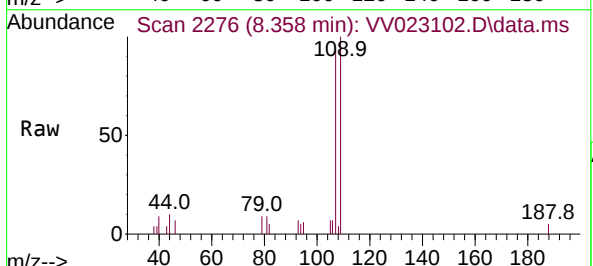
Tgt Ion:107 Resp: 4554

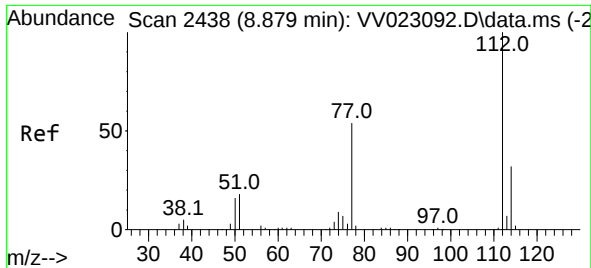
Ion Ratio Lower Upper

107 100

109 107.1 67.3 124.9

188 5.5 3.3 4.9#

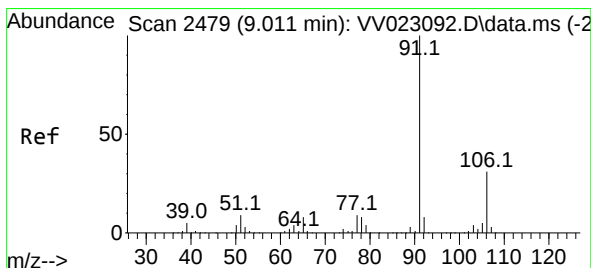
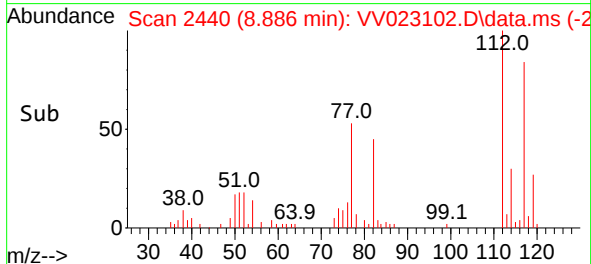
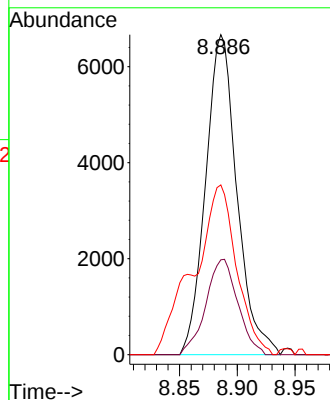
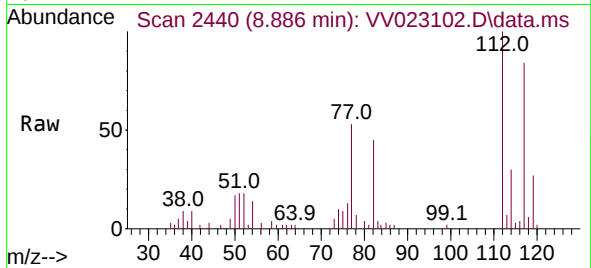




#51  
Chlorobenzene  
Concen: 2.162 ug/L  
RT: 8.886 min Scan# 2440  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

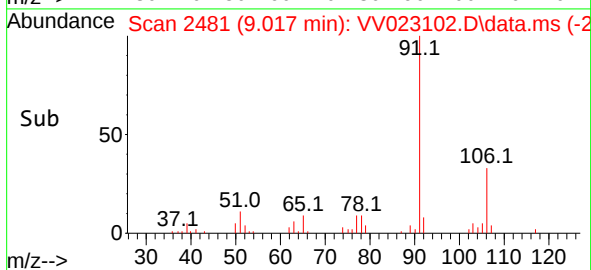
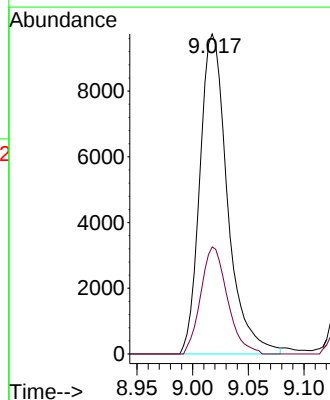
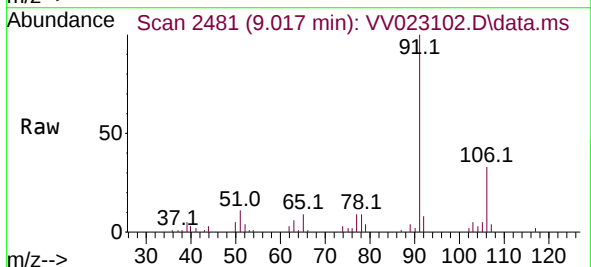
Instrument :  
MSVOA\_V  
ClientSampled :

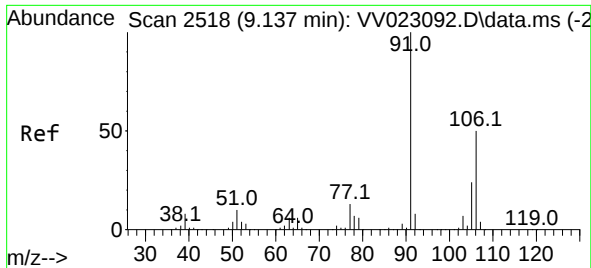
Tgt Ion:112 Resp: 12568  
Ion Ratio Lower Upper  
112 100  
114 29.7 22.2 41.2  
77 53.0 44.6 67.0



#52  
Ethylbenzene  
Concen: 1.836 ug/L  
RT: 9.017 min Scan# 2481  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 91 Resp: 16809  
Ion Ratio Lower Upper  
91 100  
106 33.5 21.8 40.4

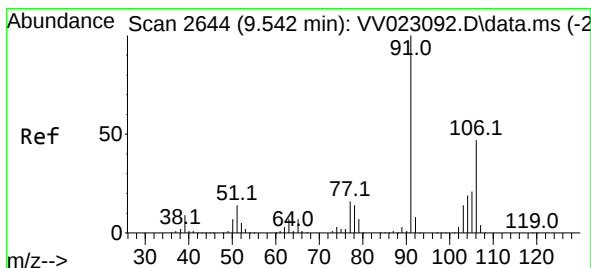
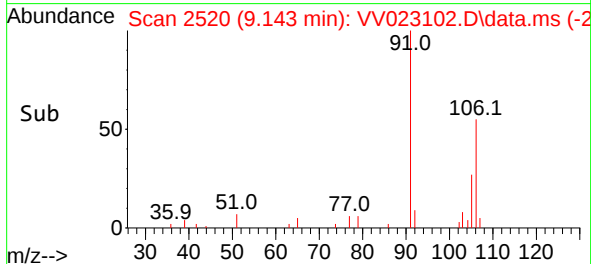
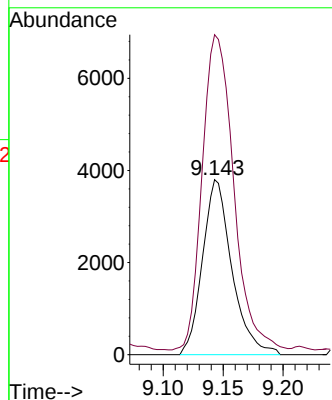
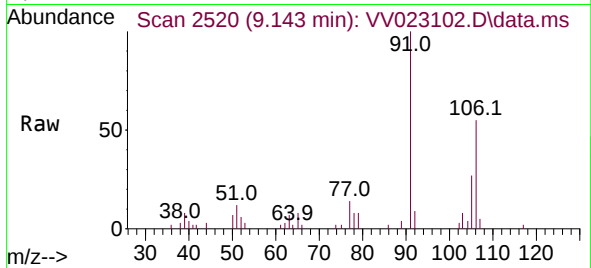




#53  
m,p-Xylene  
Concen: 1.838 ug/L  
RT: 9.143 min Scan# 2520  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

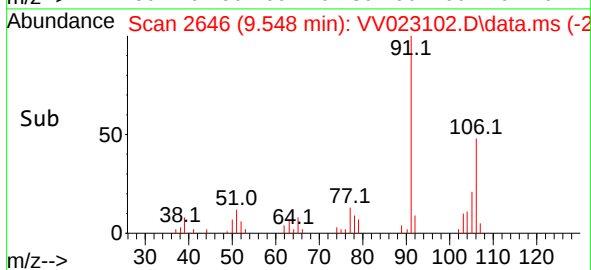
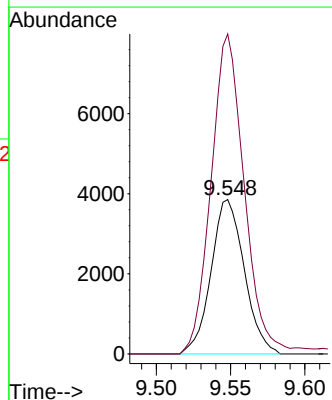
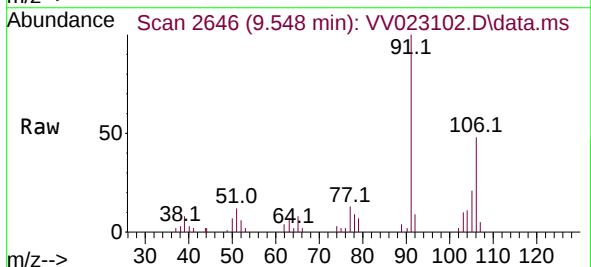
Instrument :  
MSVOA\_V  
ClientSampled :

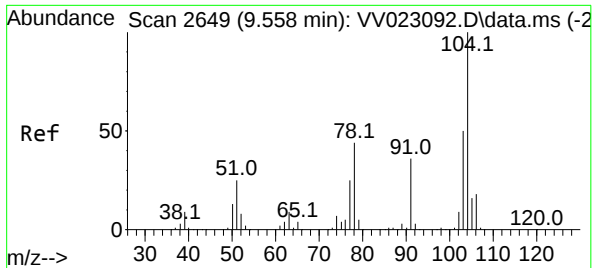
Tgt Ion:106 Resp: 6488  
Ion Ratio Lower Upper  
106 100  
91 182.8 137.3 254.9



#54  
o-Xylene  
Concen: 1.749 ug/L  
RT: 9.548 min Scan# 2646  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion:106 Resp: 6008  
Ion Ratio Lower Upper  
106 100  
91 207.2 145.0 269.4

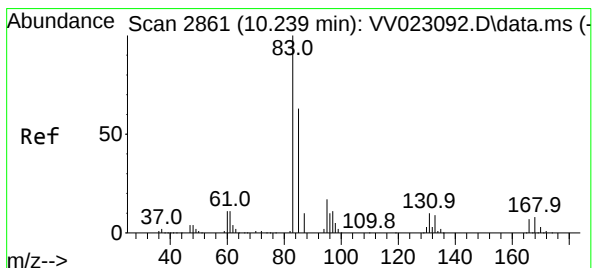
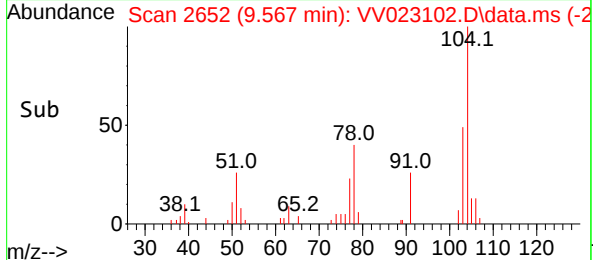
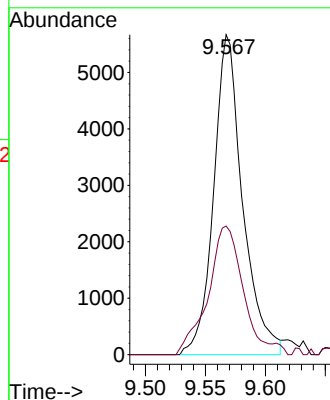
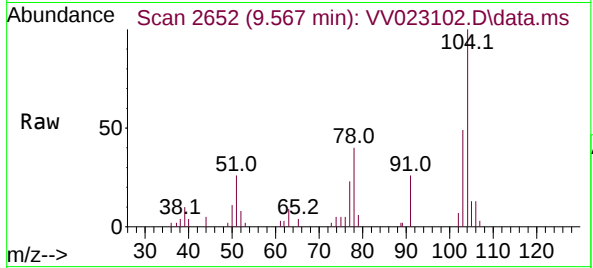




#55  
Styrene  
Concen: 1.592 ug/L  
RT: 9.567 min Scan# 2652  
Delta R.T. 0.010 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

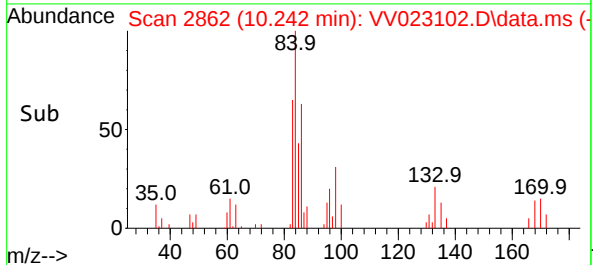
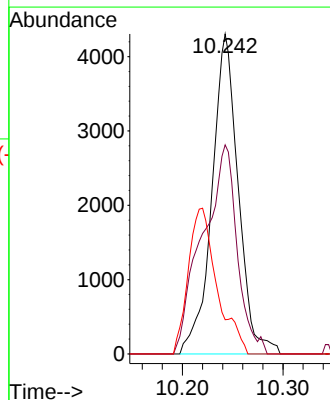
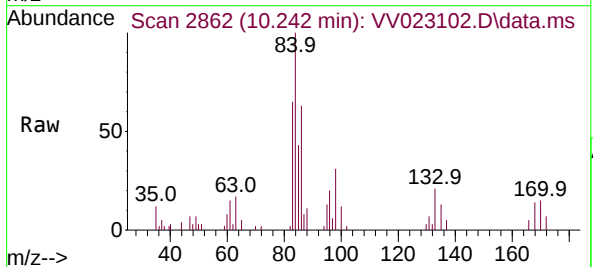
Instrument :  
MSVOA\_V  
ClientSampled :

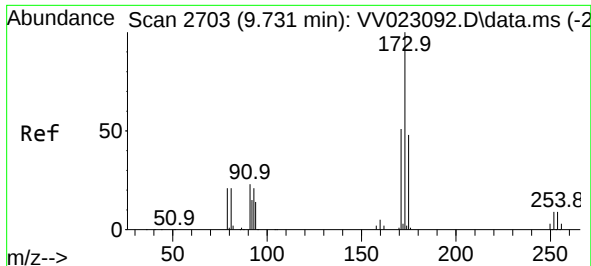
Tgt Ion:104 Resp: 9509  
Ion Ratio Lower Upper  
104 100  
78 40.2 29.8 55.4



#57  
1,1,2,2-Tetrachloroethane  
Concen: 2.277 ug/L  
RT: 10.242 min Scan# 2862  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 83 Resp: 7836  
Ion Ratio Lower Upper  
83 100  
85 65.3 44.7 83.1  
131 10.7 7.8 11.8

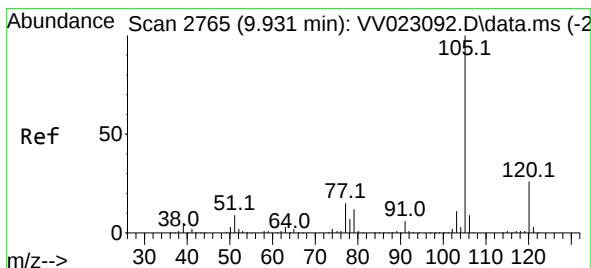
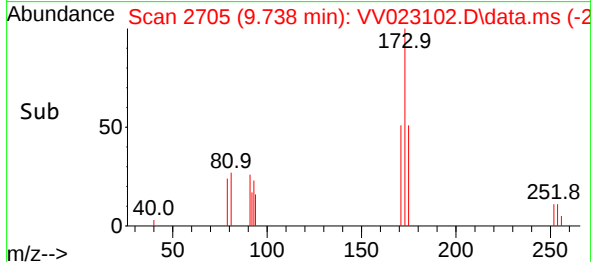
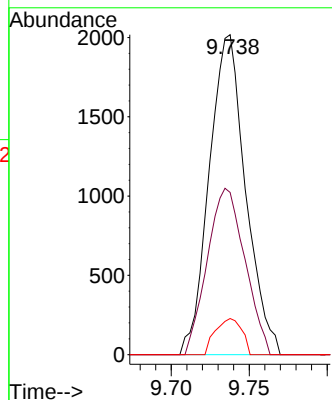
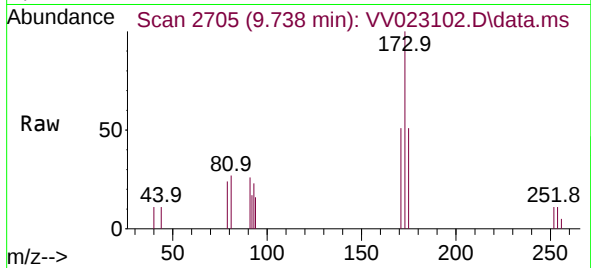




#59  
Bromoform  
Concen: 1.985 ug/L  
RT: 9.738 min Scan# 2705  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

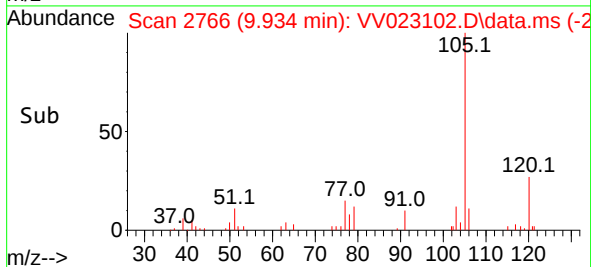
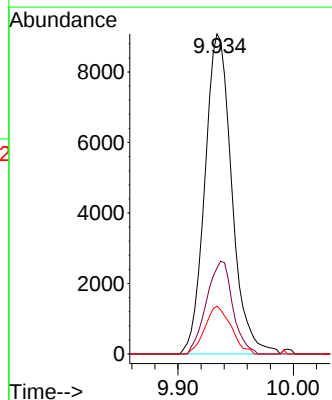
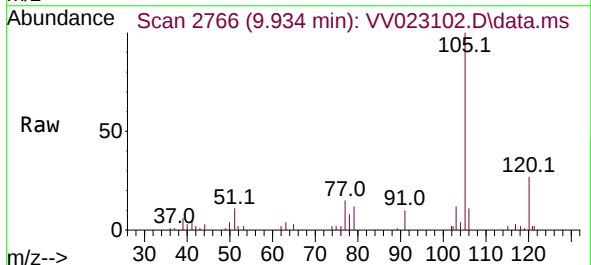
Instrument :  
MSVOA\_V  
ClientSampled :

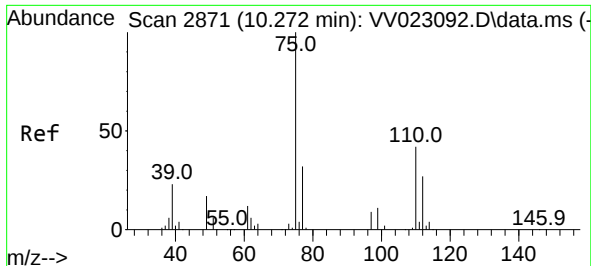
Tgt Ion:173 Resp: 3276  
Ion Ratio Lower Upper  
173 100  
175 53.7 39.3 58.9  
254 8.2 7.2 10.8



#60  
Isopropylbenzene  
Concen: 1.763 ug/L  
RT: 9.934 min Scan# 2766  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion:105 Resp: 14694  
Ion Ratio Lower Upper  
105 100  
120 28.2 21.0 31.6  
77 14.3 12.2 18.2

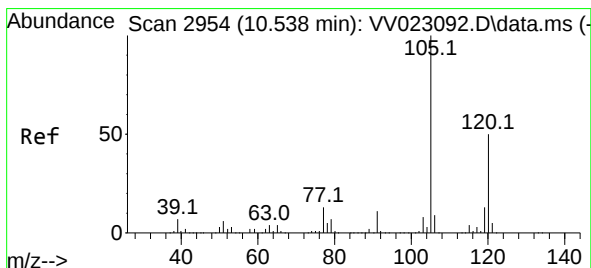
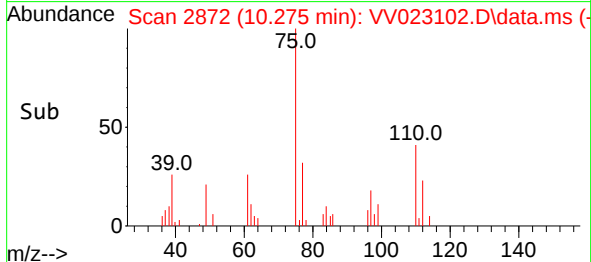
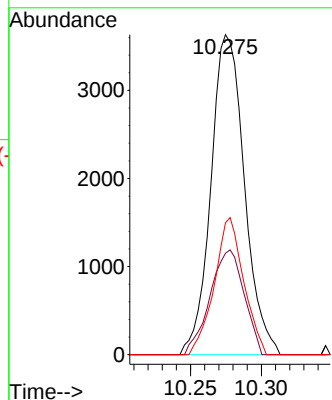
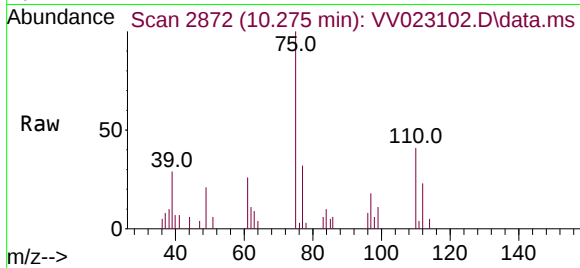




#61  
1,2,3-Trichloropropane  
Concen: 2.448 ug/L  
RT: 10.275 min Scan# 2872  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

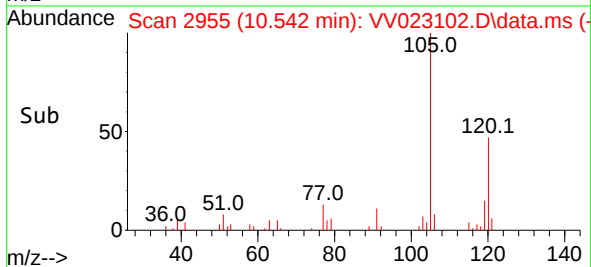
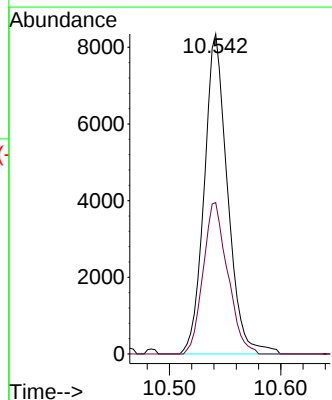
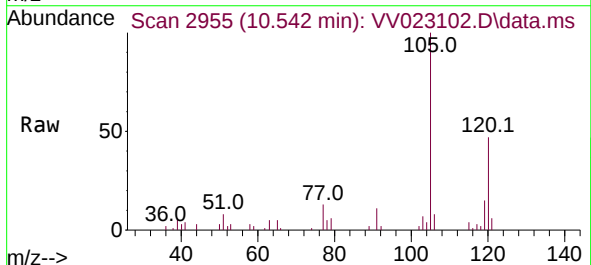
Instrument :  
MSVOA\_V  
ClientSampleId :

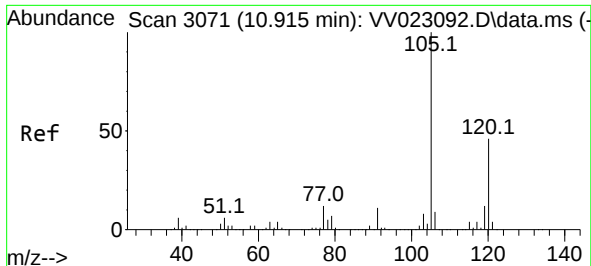
Tgt Ion: 75 Resp: 5985  
Ion Ratio Lower Upper  
75 100  
77 33.2 25.6 38.4  
110 37.5 33.1 49.7



#62  
1,3,5-Trimethylbenzene  
Concen: 1.771 ug/L  
RT: 10.542 min Scan# 2955  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 105 Resp: 12160  
Ion Ratio Lower Upper  
105 100  
120 49.7 39.6 59.4

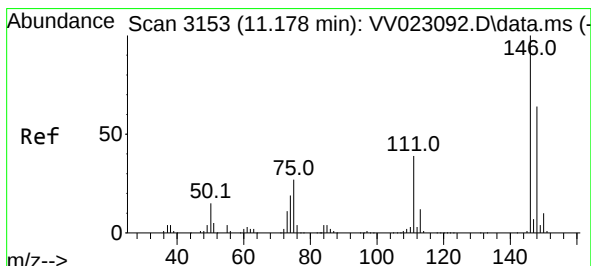
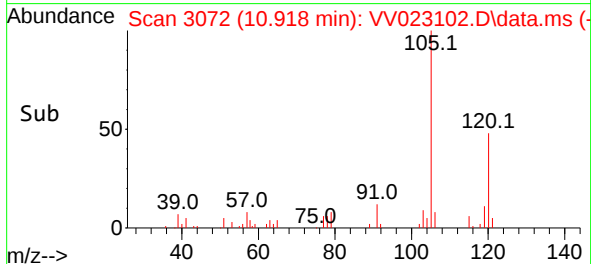
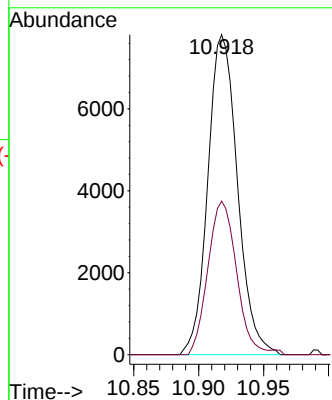
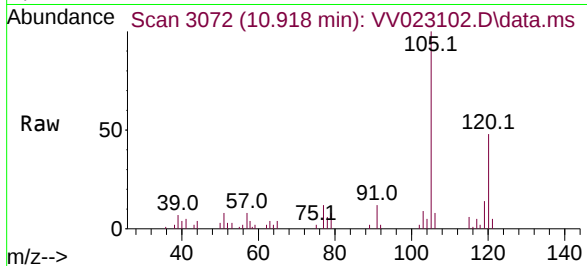




#63  
1,2,4-Trimethylbenzene  
Concen: 1.799 ug/L  
RT: 10.918 min Scan# 3072  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

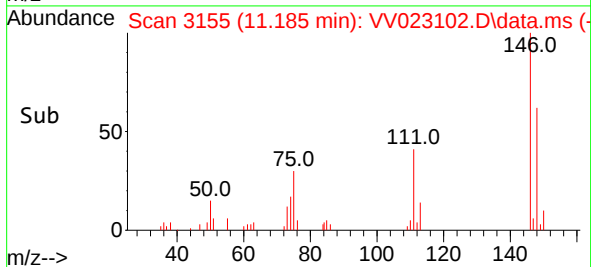
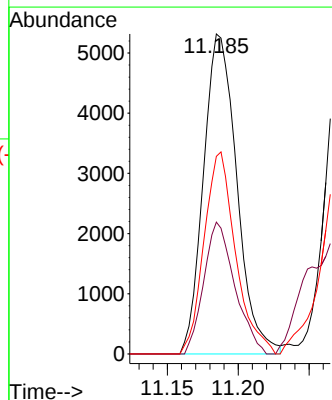
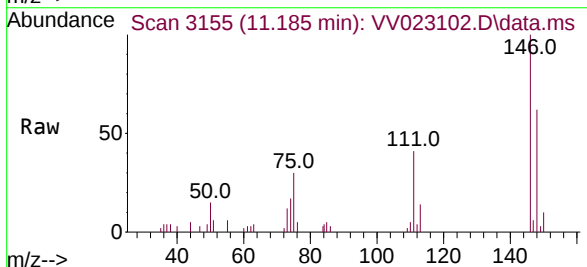
Instrument :  
MSVOA\_V  
ClientSampleId :

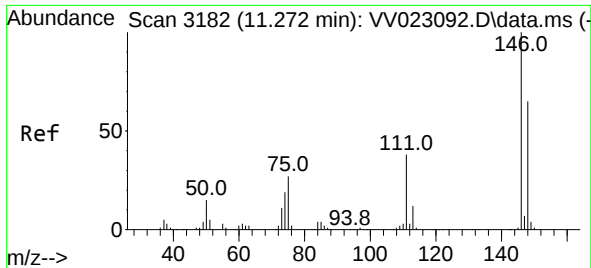
Tgt Ion:105 Resp: 12400  
Ion Ratio Lower Upper  
105 100  
120 46.0 37.1 55.7



#64  
1,3-Dichlorobenzene  
Concen: 2.065 ug/L  
RT: 11.185 min Scan# 3155  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion:146 Resp: 8703  
Ion Ratio Lower Upper  
146 100  
111 41.2 27.3 50.7  
148 61.8 44.2 82.0

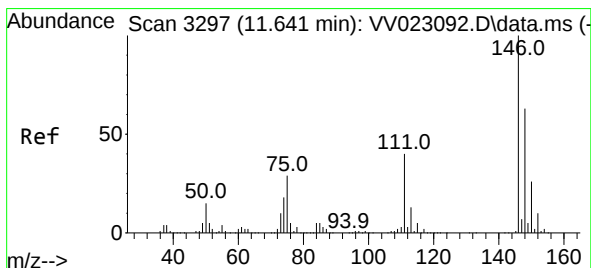
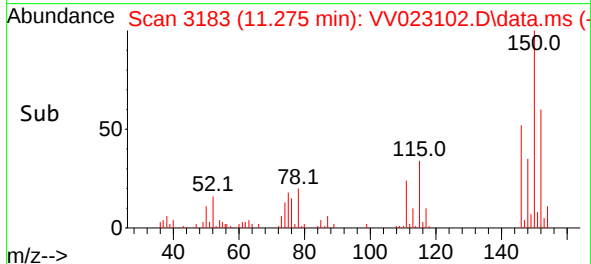
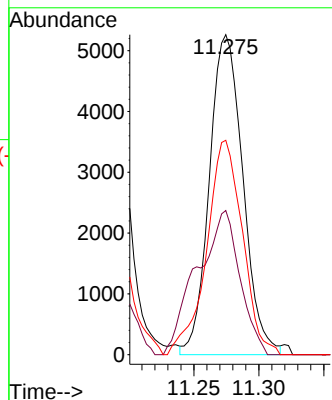
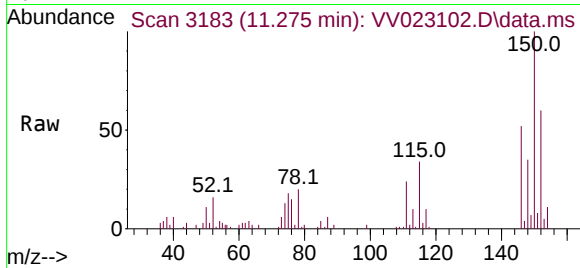




#65  
1,4-Dichlorobenzene  
Concen: 2.153 ug/L  
RT: 11.275 min Scan# 3183  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

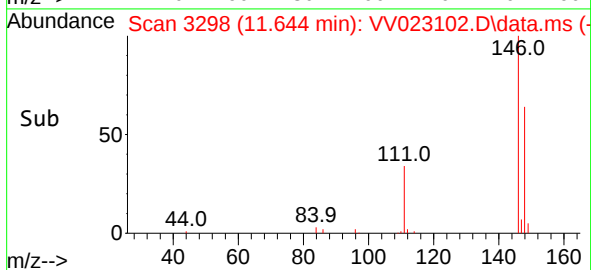
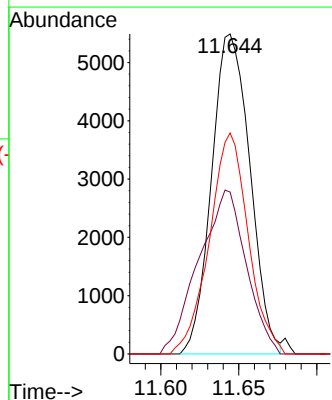
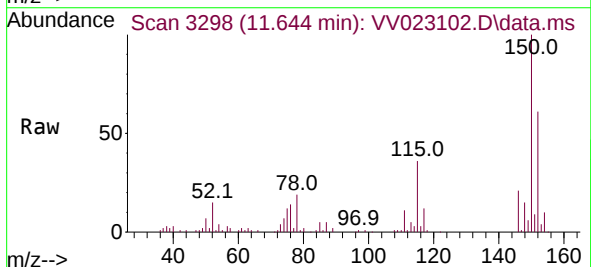
Instrument :  
MSVOA\_V  
ClientSampleId :

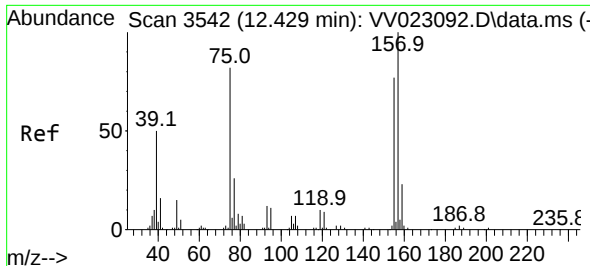
Tgt Ion:146 Resp: 9450  
Ion Ratio Lower Upper  
146 100  
111 45.1 26.0 48.2  
148 67.0 44.7 82.9



#67  
1,2-Dichlorobenzene  
Concen: 2.206 ug/L  
RT: 11.644 min Scan# 3298  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion:146 Resp: 9401  
Ion Ratio Lower Upper  
146 100  
111 50.6 32.2 48.2#  
148 69.0 51.8 77.8

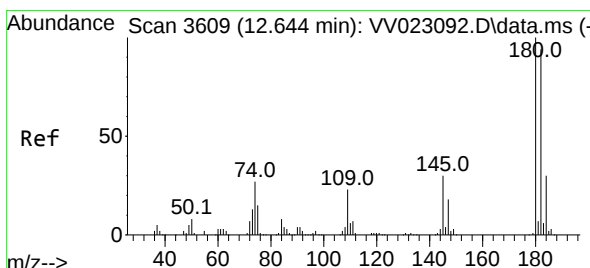
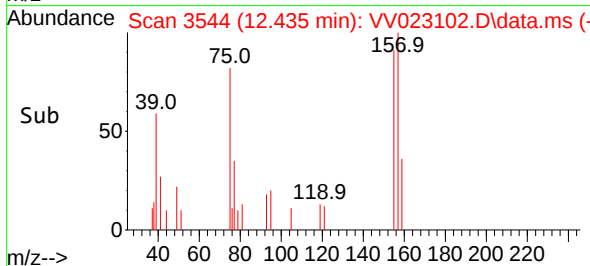
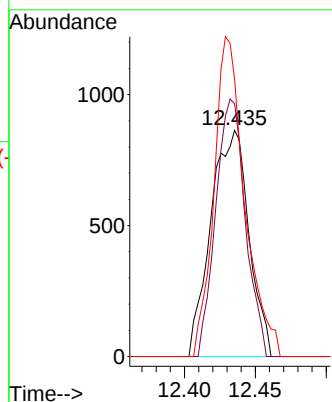
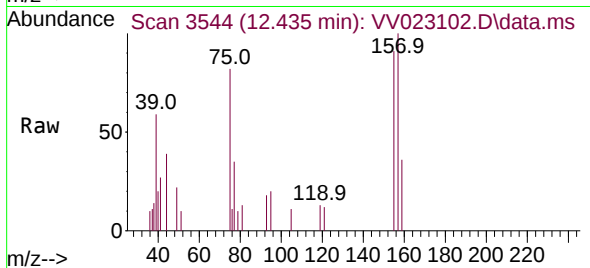




#68  
1,2-Dibromo-3-chloropropane  
Concen: 2.362 ug/L  
RT: 12.435 min Scan# 3544  
Delta R.T. 0.006 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

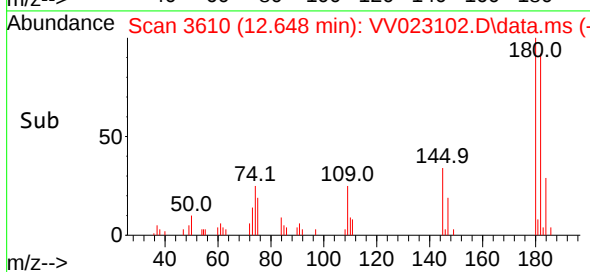
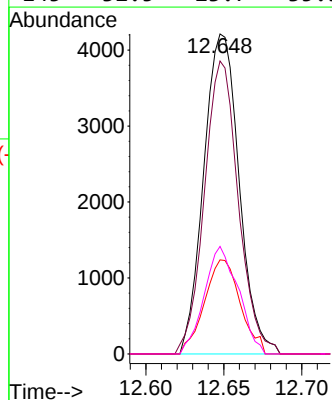
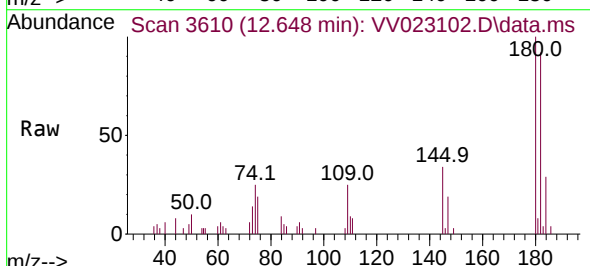
Instrument :  
MSVOA\_V  
ClientSampleId :

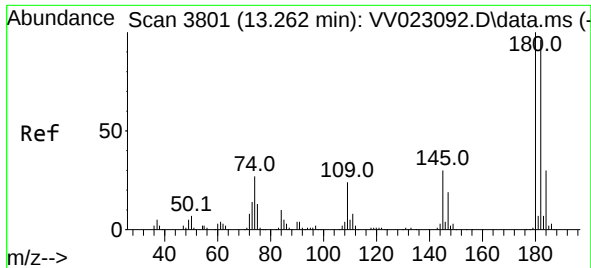
Tgt Ion: 75 Resp: 1612  
Ion Ratio Lower Upper  
75 100  
155 111.7 75.7 113.5  
157 122.5 96.4 144.6



#69  
1,3,5-Trichlorobenzene  
Concen: 2.084 ug/L  
RT: 12.648 min Scan# 3610  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

Tgt Ion: 180 Resp: 6641  
Ion Ratio Lower Upper  
180 100  
182 87.9 76.6 115.0  
184 29.8 24.6 36.8  
145 32.5 23.7 35.5

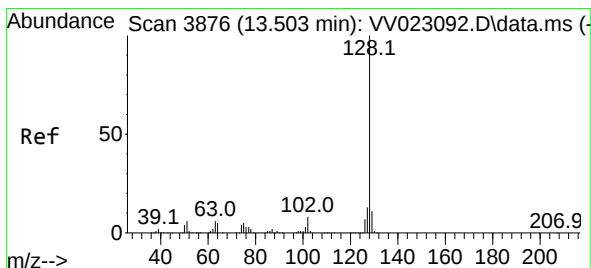
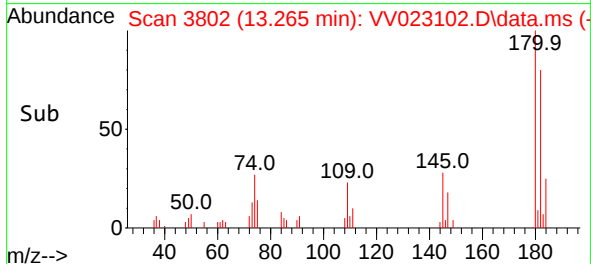
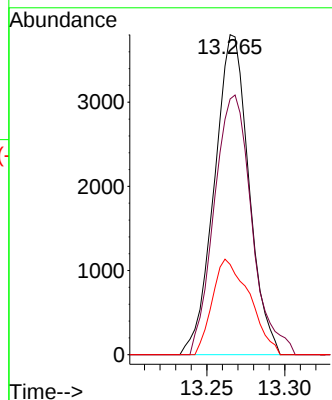
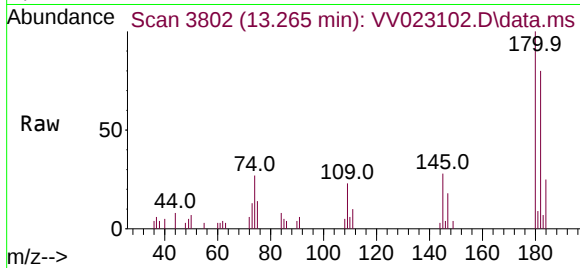




#70  
1,2,4-trichlorobenzene  
Concen: 2.121 ug/L  
RT: 13.265 min Scan# 3802  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

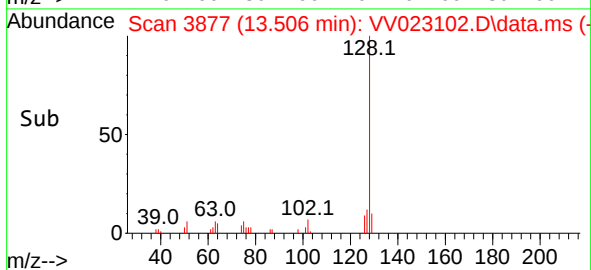
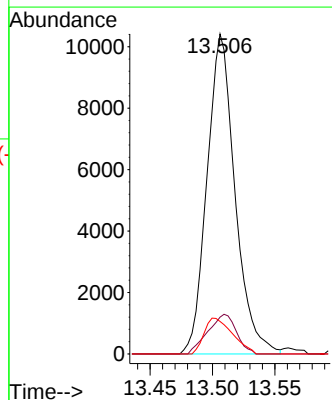
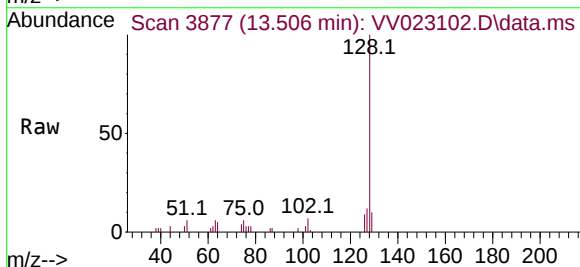
Instrument :  
MSVOA\_V  
ClientSampled :

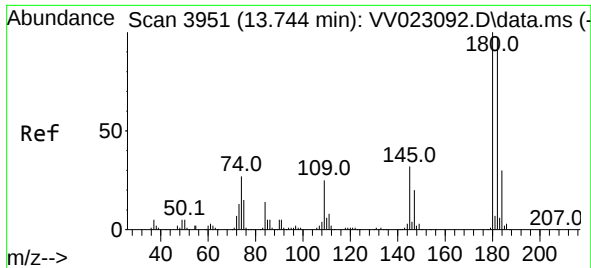
Tgt Ion:180 Resp: 5858  
Ion Ratio Lower Upper  
180 100  
182 88.2 77.2 115.8  
145 32.3 23.8 35.6



#71  
Naphthalene  
Concen: 1.839 ug/L  
RT: 13.506 min Scan# 3877  
Delta R.T. 0.003 min  
Lab File: VV023102.D  
Acq: 29 Oct 2021 13:59

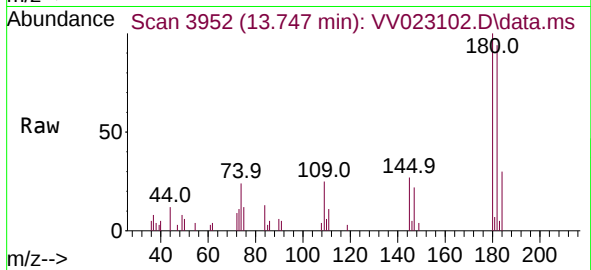
Tgt Ion:128 Resp: 16313  
Ion Ratio Lower Upper  
128 100  
127 12.6 10.3 15.5  
129 11.3 8.7 13.1





#72  
 1,2,3-Trichlorobenzene  
 Concen: 1.970 ug/L  
 RT: 13.747 min Scan# 3952  
 Delta R.T. 0.003 min  
 Lab File: VV023102.D  
 Acq: 29 Oct 2021 13:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5753  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 96.7  | 77.0  | 115.4 |
| 145      | 32.5  | 26.4  | 39.6  |

