

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW080221\  
 Data File : VW021719.D  
 Acq On : 02 Aug 2021 15:05  
 Operator : SY/MD  
 Sample : M3263-01  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT4-2021-07

Quant Time: Aug 03 02:13:04 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM080221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 03 02:08:28 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.616   | 114   | 430429   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.853   | 117   | 391954   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249  | 152   | 198351   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 124634   | 46.108   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 92.220%  |
| 7) Chloroethane-d5            | 1.558   | 69    | 104934   | 47.068   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 94.140%  |
| 11) 1,1-Dichloroethene-d2     | 2.105   | 63    | 180719   | 37.380   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 74.760%  |
| 21) 2-Butanone-d5             | 3.870   | 46    | 218240   | 93.989   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 93.990%  |
| 24) Chloroform-d              | 4.346   | 84    | 263292   | 45.954   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.900%  |
| 26) 1,2-Dichloroethane-d4     | 5.030   | 65    | 163577   | 47.740   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.480%  |
| 32) Benzene-d6                | 5.047   | 84    | 550973   | 49.596   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.069   | 67    | 175413   | 49.817   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 99.640%  |
| 41) Toluene-d8                | 7.317   | 98    | 504361   | 49.070   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.140%  |
| 43) trans-1,3-Dichloroprop... | 7.622   | 79    | 81840    | 47.104   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.200%  |
| 47) 2-Hexanone-d5             | 8.088   | 63    | 134954   | 87.898   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 87.900%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 211987   | 45.681   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 91.360%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 197609   | 48.118   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.240%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 5926     | 2.080    | ug/L   | 93       |
| 3) Chloromethane              | 1.240   | 50    | 6019     | 2.143    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.307   | 62    | 6138     | 2.145    | ug/L # | 60       |
| 6) Bromomethane               | 1.506   | 94    | 3721     | 2.365    | ug/L   | 99       |
| 8) Chloroethane               | 1.574   | 64    | 3897     | 2.226    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.748   | 101   | 8284     | 1.989    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.111   | 101   | 6553     | 2.789    | ug/L # | 77       |
| 12) 1,1-Dichloroethene        | 2.111   | 96    | 5914     | 2.746    | ug/L # | 1        |
| 13) Acetone                   | 2.159   | 43    | 6538     | 4.292    | ug/L   | 98       |
| 14) Carbon disulfide          | 2.291   | 76    | 12087    | 2.094    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.432   | 43    | 6377     | 2.006    | ug/L   | 90       |
| 16) Methylene chloride        | 2.506   | 84    | 9042     | 3.084    | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 2.764   | 96    | 5022     | 1.976    | ug/L   | 93       |
| 18) Methyl tert-butyl Ether   | 2.767   | 73    | 18337    | 2.048    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.191   | 63    | 9856     | 1.989    | ug/L   | 88       |
| 20) cis-1,2-Dichloroethene    | 3.915   | 96    | 6092     | 2.024    | ug/L   | 95       |
| 23) Bromochloromethane        | 4.256   | 128   | 3147     | 1.947    | ug/L # | 89       |
| 25) Chloroform                | 4.378   | 83    | 13466    | 2.589    | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 5.140   | 62    | 6850     | 1.863    | ug/L   | 100      |

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 Sample : M3263-01  
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 ALS Vial : 14 Sample Multiplier: 1

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 ClientSampleId :  
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Quant Time: Aug 03 02:13:04 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM080221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 03 02:08:28 2021  
 Response via : Initial Calibration

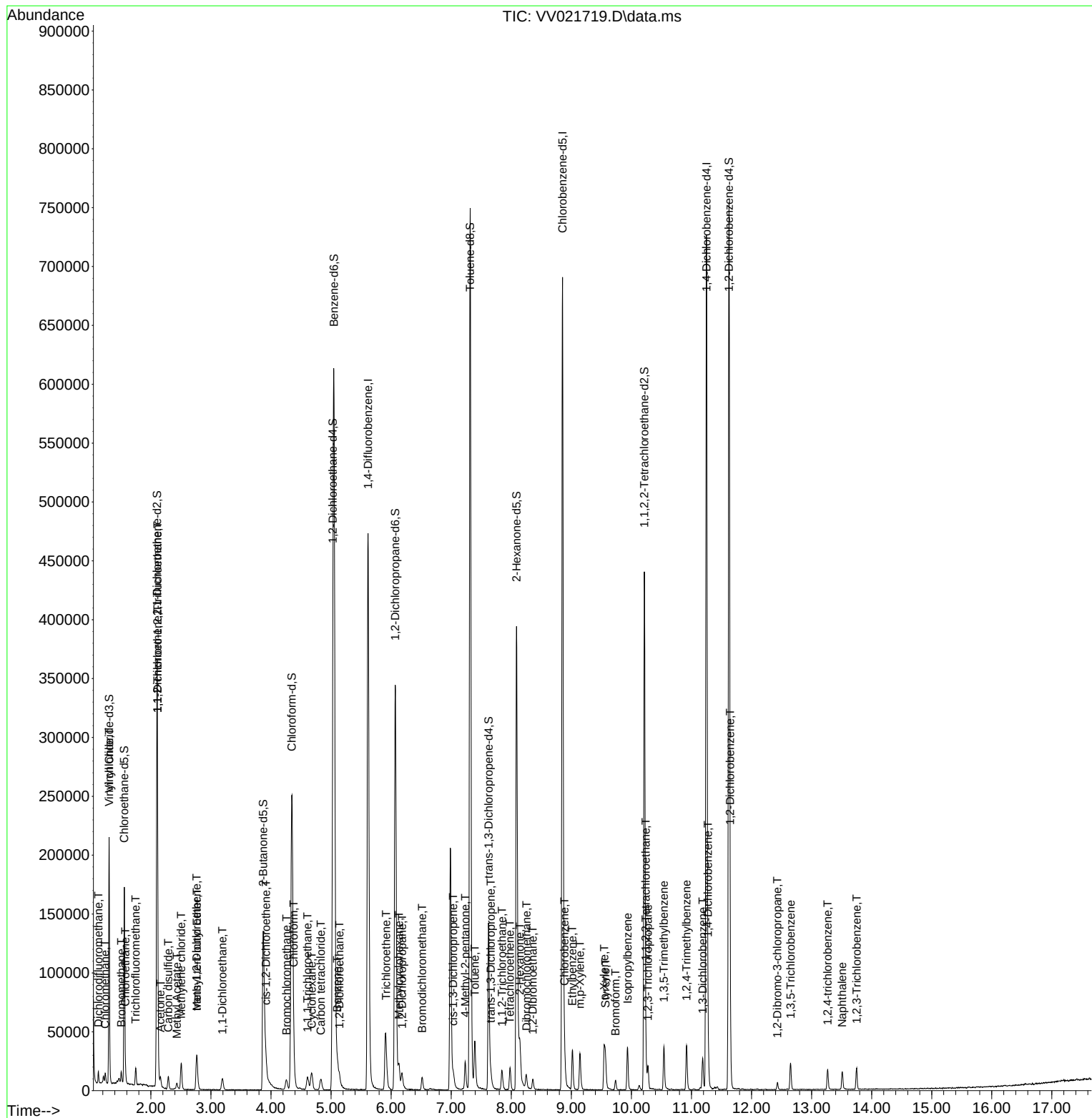
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 29) Cyclohexane               | 4.677  | 56   | 8066     | 2.057 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 4.609  | 97   | 9020     | 2.039 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.831  | 117  | 7156     | 1.880 | ug/L   | 95       |
| 33) Benzene                   | 5.104  | 78   | 20069    | 1.904 | ug/L   | 100      |
| 34) Trichloroethene           | 5.918  | 95   | 6562     | 2.197 | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.133  | 83   | 8162     | 2.005 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.182  | 63   | 6361     | 2.265 | ug/L # | 88       |
| 38) Bromodichloromethane      | 6.516  | 83   | 7375     | 1.923 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.034  | 75   | 8833     | 1.985 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.233  | 43   | 15806    | 3.863 | ug/L   | 96       |
| 42) Toluene                   | 7.394  | 91   | 30172    | 2.655 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 7.657  | 75   | 8848     | 2.074 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 7.847  | 97   | 5831     | 2.039 | ug/L   | 96       |
| 46) Tetrachloroethene         | 7.979  | 164  | 4452     | 2.017 | ug/L   | 99       |
| 48) 2-Hexanone                | 8.143  | 43   | 25899    | 8.259 | ug/L # | 86       |
| 49) Dibromochloromethane      | 8.252  | 129  | 6138     | 1.884 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.358  | 107  | 6114     | 2.012 | ug/L # | 96       |
| 51) Chlorobenzene             | 8.886  | 112  | 15690    | 2.066 | ug/L   | 99       |
| 52) Ethylbenzene              | 9.017  | 91   | 24842    | 2.013 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.143  | 106  | 9960     | 2.080 | ug/L   | 99       |
| 54) o-Xylene                  | 9.548  | 106  | 9953     | 2.065 | ug/L   | 89       |
| 55) Styrene                   | 9.567  | 104  | 14450    | 1.790 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.239 | 83   | 9278     | 2.173 | ug/L # | 96       |
| 59) Bromoform                 | 9.738  | 173  | 4014     | 1.750 | ug/L   | 90       |
| 60) Isopropylbenzene          | 9.937  | 105  | 24375    | 1.989 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 7213     | 2.046 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 10.541 | 105  | 20158    | 1.943 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.918 | 105  | 21158    | 2.004 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.188 | 146  | 11780    | 1.995 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.275 | 146  | 12476    | 2.100 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 11.644 | 146  | 12588    | 2.087 | ug/L # | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 12.429 | 75   | 1450     | 1.562 | ug/L   | 93       |
| 69) 1,3,5-Trichlorobenzene    | 12.651 | 180  | 7469     | 1.700 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.268 | 180  | 5427     | 1.465 | ug/L   | 95       |
| 71) Naphthalene               | 13.509 | 128  | 13335    | 1.243 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.750 | 180  | 5535     | 1.504 | ug/L   | 99       |

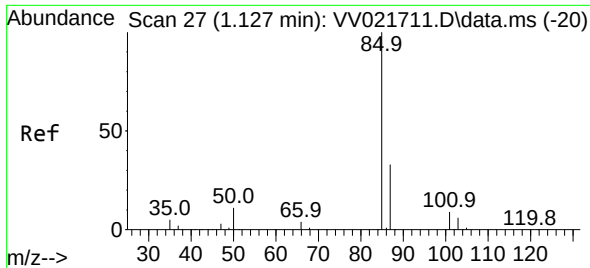
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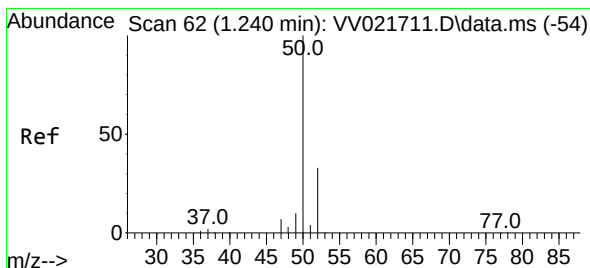
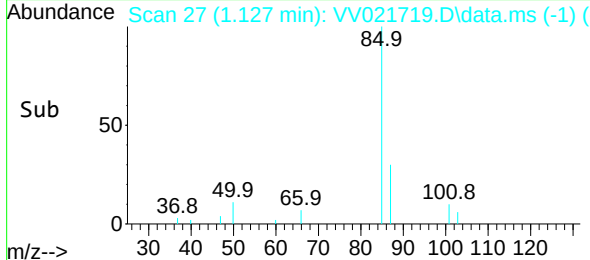
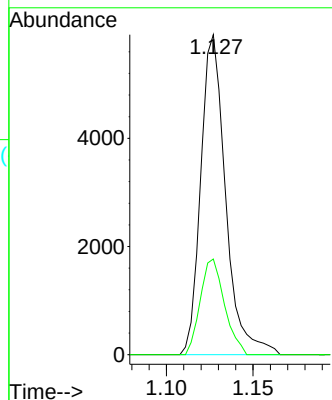
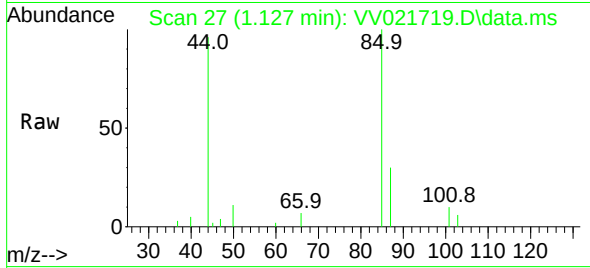




#2  
Dichlorodifluoromethane  
Concen: 2.080 ug/L  
RT: 1.127 min Scan# 27  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

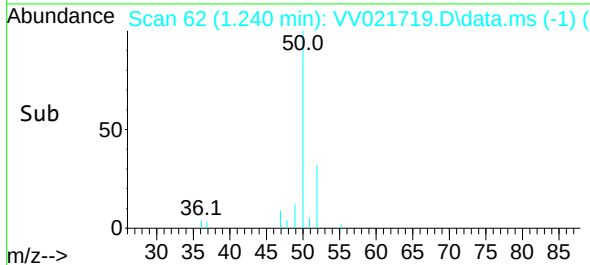
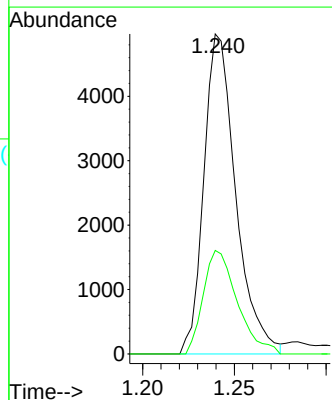
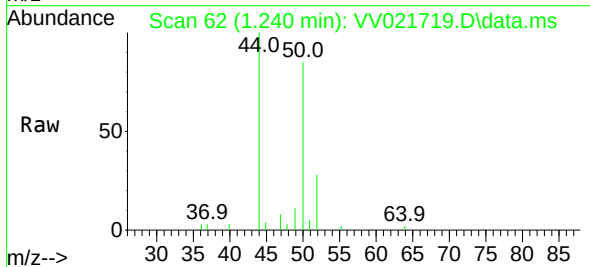
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

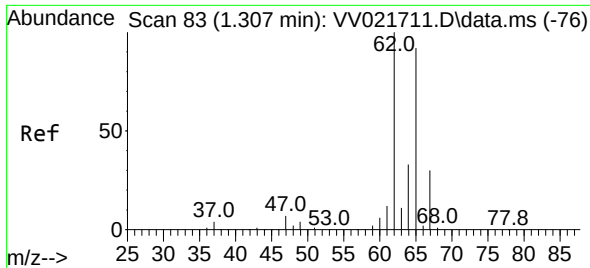
Tgt Ion: 85 Resp: 5926  
Ion Ratio Lower Upper  
85 100  
87 29.0 26.2 39.4



#3  
Chloromethane  
Concen: 2.143 ug/L  
RT: 1.240 min Scan# 62  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 50 Resp: 6019  
Ion Ratio Lower Upper  
50 100  
52 32.4 23.1 42.9

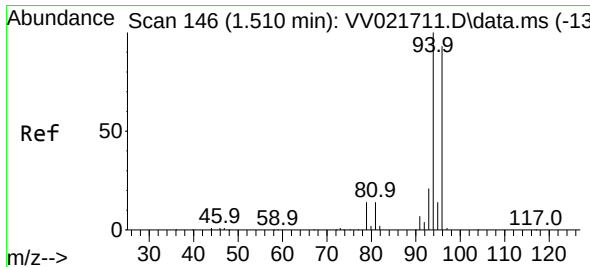
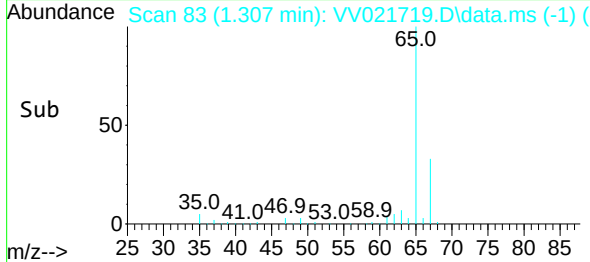
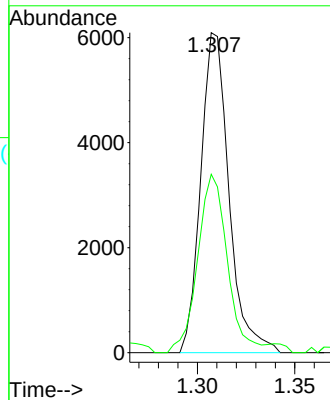
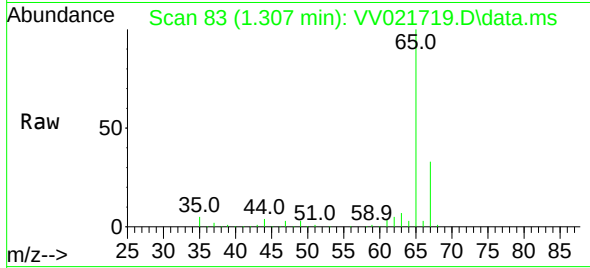




#5  
 Vinyl chloride  
 Concen: 2.145 ug/L  
 RT: 1.307 min Scan# 83  
 Delta R.T. -0.000 min  
 Lab File: VV021719.D  
 Acq: 02 Aug 2021 15:05

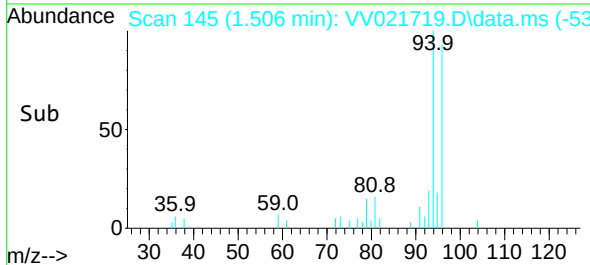
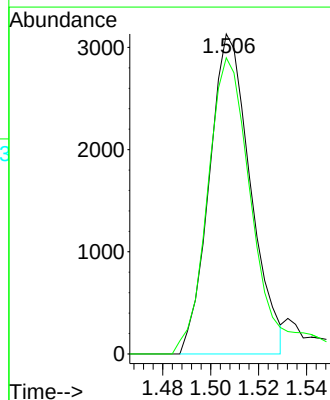
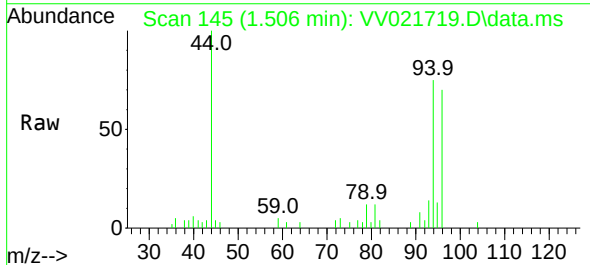
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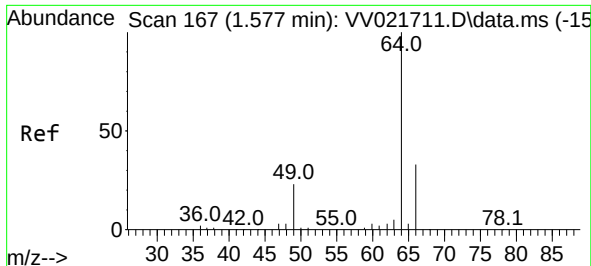
Tgt Ion: 62 Resp: 6138  
 Ion Ratio Lower Upper  
 62 100  
 64 55.8 23.2 43.2#



#6  
 Bromomethane  
 Concen: 2.365 ug/L  
 RT: 1.506 min Scan# 145  
 Delta R.T. -0.003 min  
 Lab File: VV021719.D  
 Acq: 02 Aug 2021 15:05

Tgt Ion: 94 Resp: 3721  
 Ion Ratio Lower Upper  
 94 100  
 96 92.5 65.4 121.4

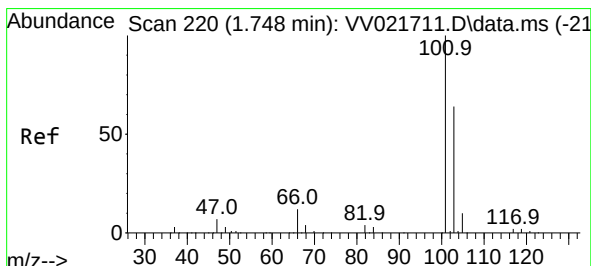
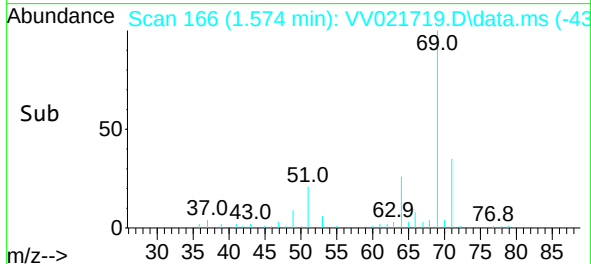
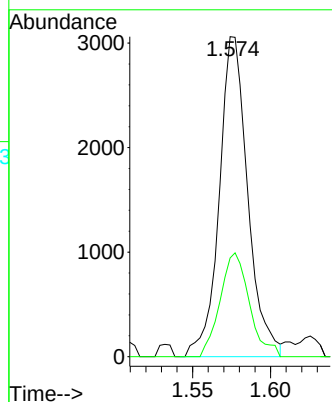
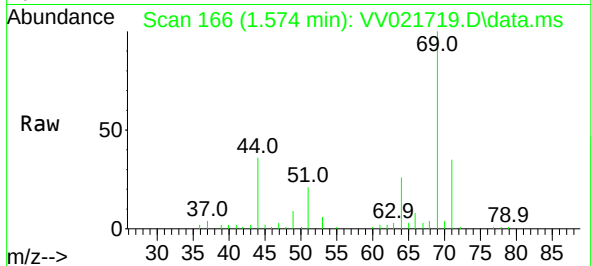




#8  
Chloroethane  
Concen: 2.226 ug/L  
RT: 1.574 min Scan# 166  
Delta R.T. -0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

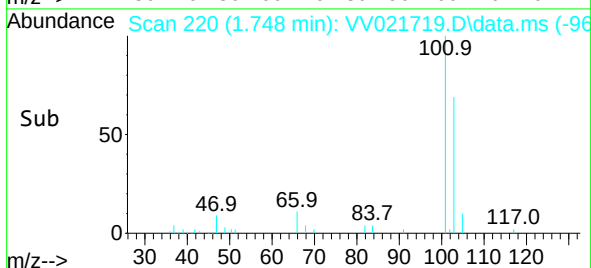
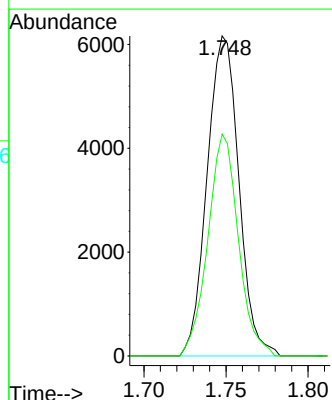
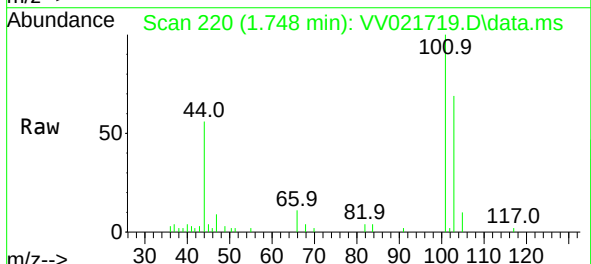
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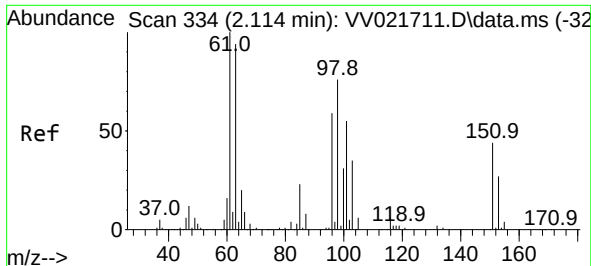
Tgt Ion: 64 Resp: 3897  
Ion Ratio Lower Upper  
64 100  
66 30.9 22.9 42.5



#9  
Trichlorofluoromethane  
Concen: 1.989 ug/L  
RT: 1.748 min Scan# 220  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 101 Resp: 8284  
Ion Ratio Lower Upper  
101 100  
103 66.6 51.5 77.3





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.789 ug/L

RT: 2.111 min Scan# 333

Delta R.T. -0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion:101 Resp: 6553

Ion Ratio Lower Upper

101 100

85 31.3 33.7 50.5#

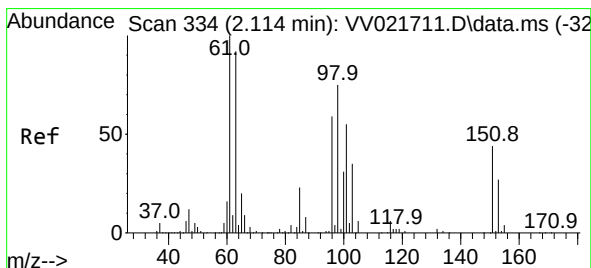
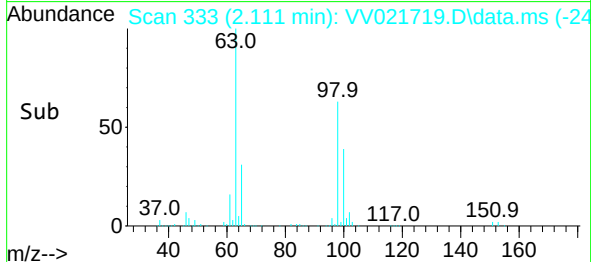
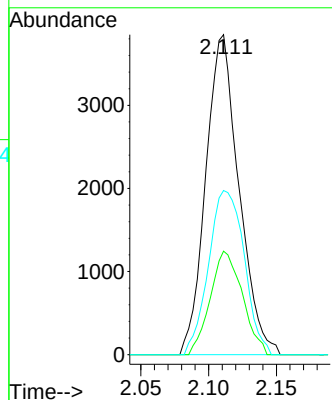
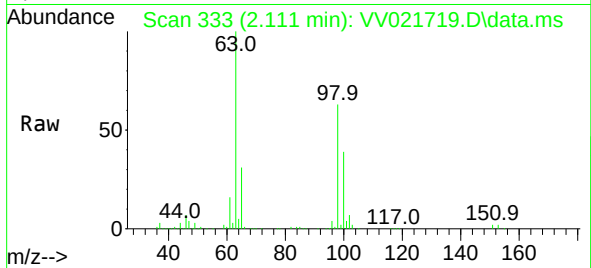
151 55.2 62.7 94.1#

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT4-2021-07



#12

1,1-Dichloroethene

Concen: 2.746 ug/L

RT: 2.111 min Scan# 333

Delta R.T. -0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

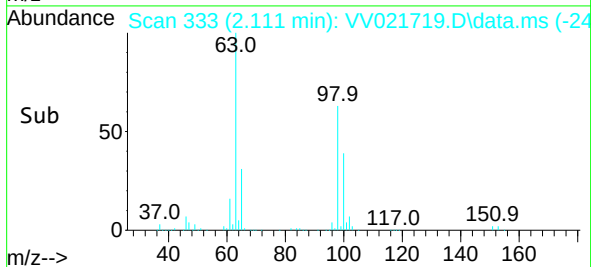
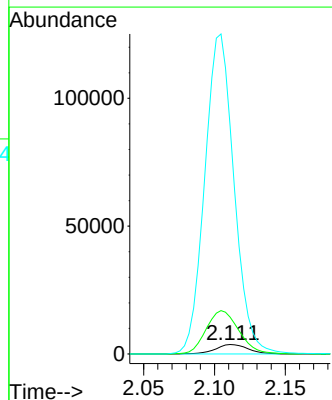
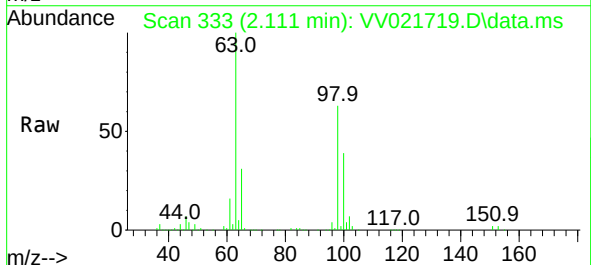
Tgt Ion: 96 Resp: 5914

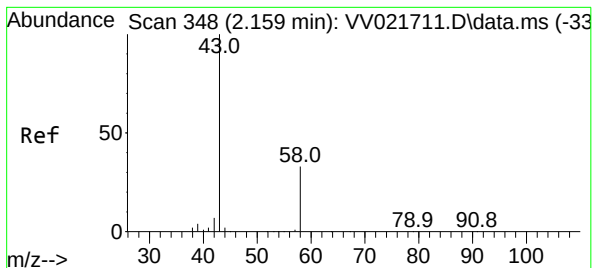
Ion Ratio Lower Upper

96 100

61 386.4 118.2 219.4#

63 2391.8 110.9 205.9#





#13

Acetone

Concen: 4.292 ug/L

RT: 2.159 min Scan# 348

Delta R.T. -0.000 min

Lab File: VV021719.D

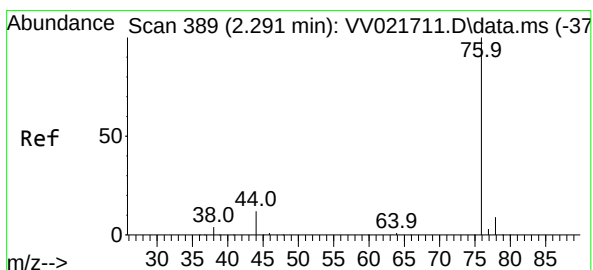
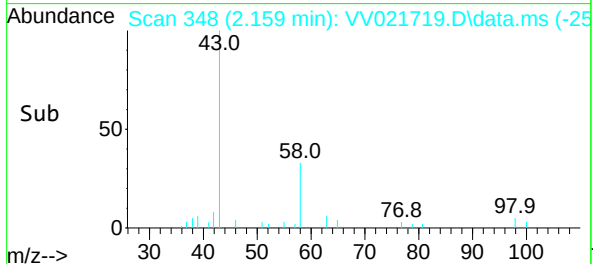
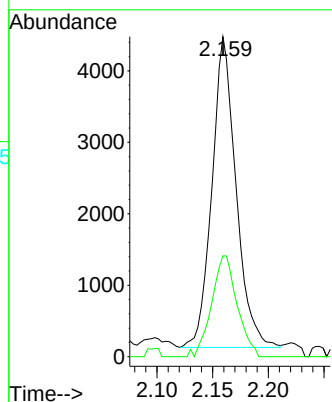
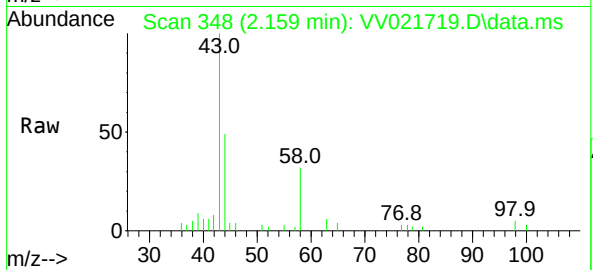
Acq: 02 Aug 2021 15:05

Tgt Ion: 43 Resp: 6538

Ion Ratio Lower Upper

43 100

58 34.0 0.0 66.2



#14

Carbon disulfide

Concen: 2.094 ug/L

RT: 2.291 min Scan# 389

Delta R.T. -0.000 min

Lab File: VV021719.D

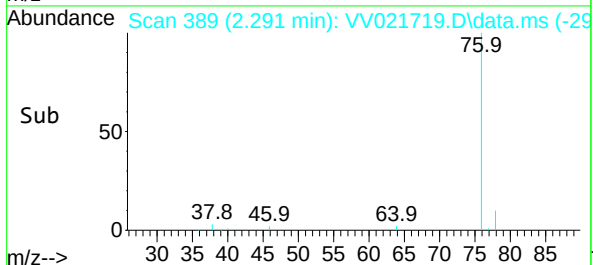
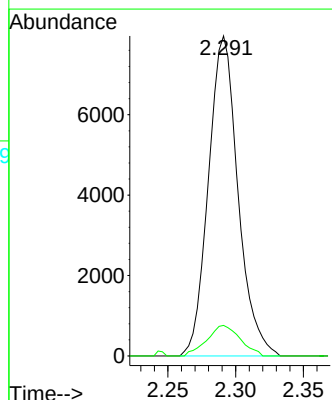
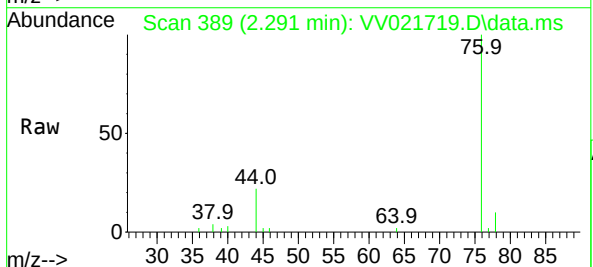
Acq: 02 Aug 2021 15:05

Tgt Ion: 76 Resp: 12087

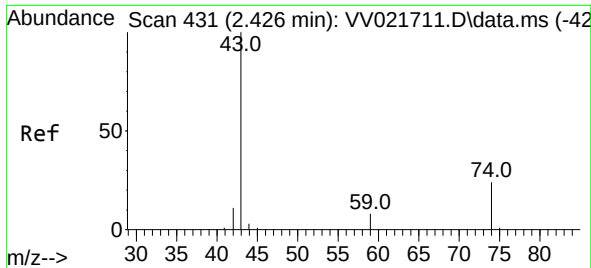
Ion Ratio Lower Upper

76 100

78 9.6 7.6 11.4



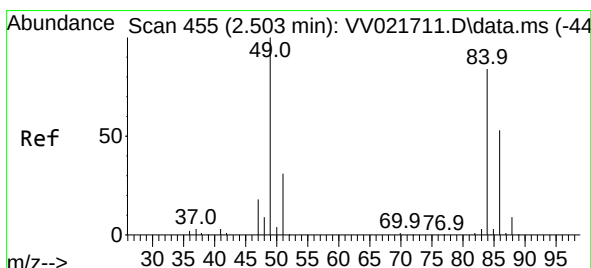
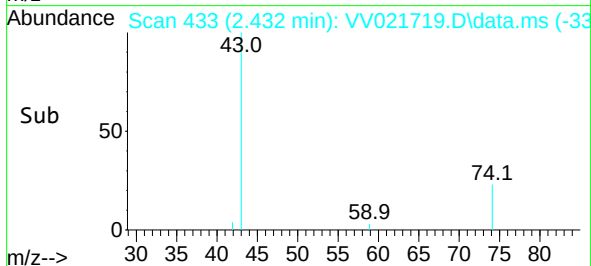
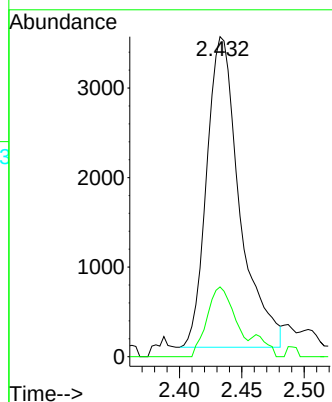
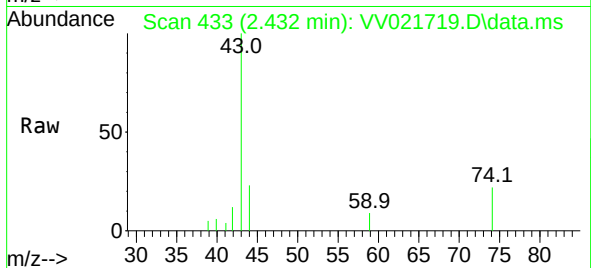




#15  
Methyl Acetate  
Concen: 2.006 ug/L  
RT: 2.432 min Scan# 433  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

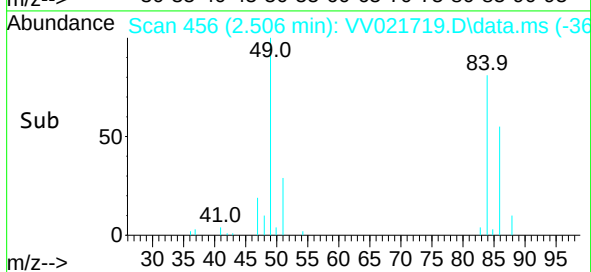
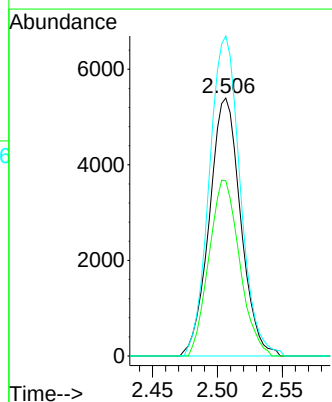
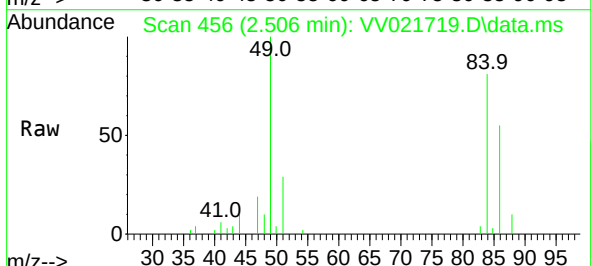
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

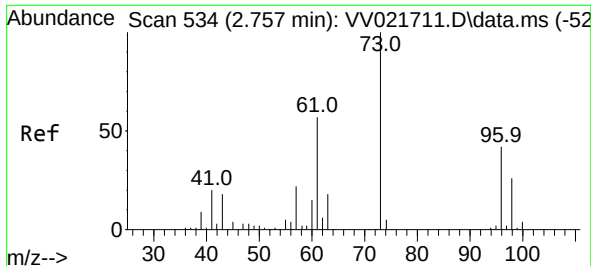
Tgt Ion: 43 Resp: 6377  
Ion Ratio Lower Upper  
43 100  
74 19.0 19.0 28.4



#16  
Methylene chloride  
Concen: 3.084 ug/L  
RT: 2.506 min Scan# 456  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 84 Resp: 9042  
Ion Ratio Lower Upper  
84 100  
86 67.9 44.2 82.2  
49 124.0 83.4 155.0

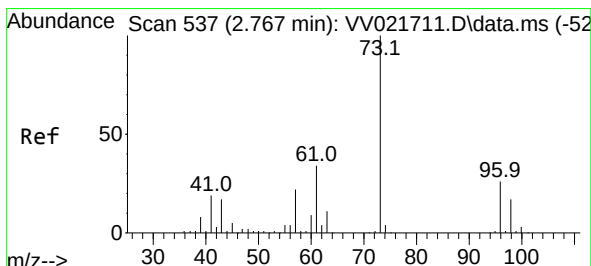
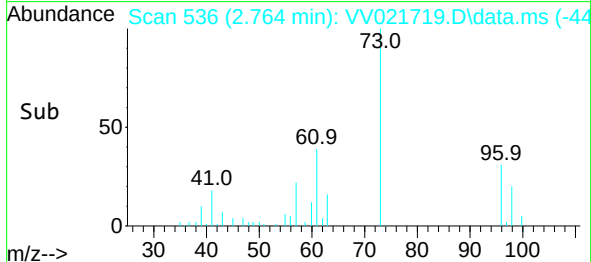
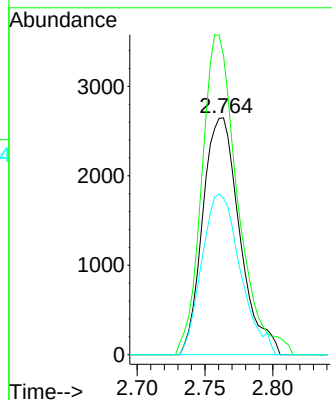
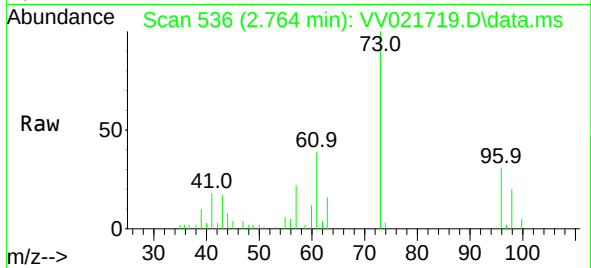




#17  
trans-1,2-Dichloroethene  
Concen: 1.976 ug/L  
RT: 2.764 min Scan# 536  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

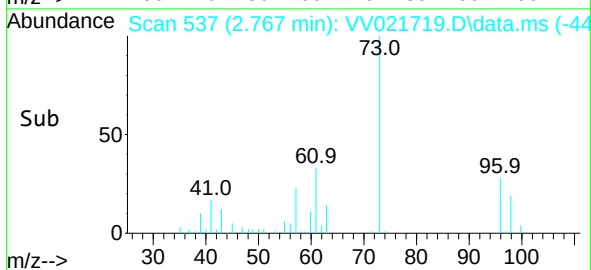
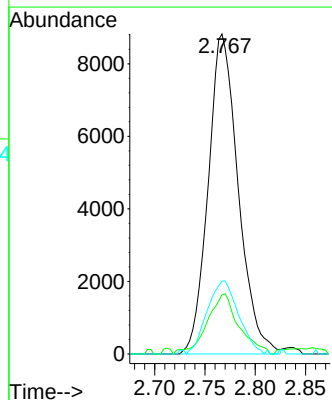
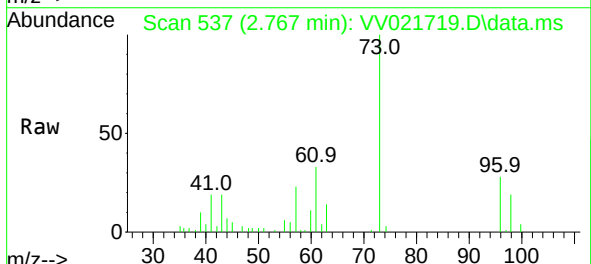
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

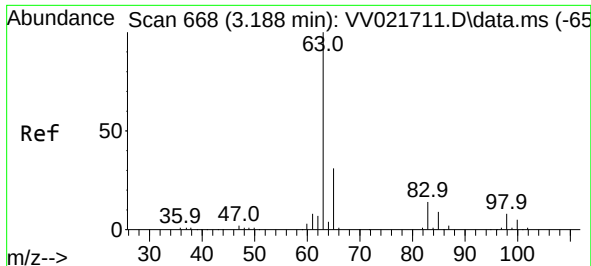
Tgt Ion: 96 Resp: 5022  
Ion Ratio Lower Upper  
96 100  
61 126.3 95.1 176.7  
98 66.1 43.8 81.3



#18  
Methyl tert-butyl Ether  
Concen: 2.048 ug/L  
RT: 2.767 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 73 Resp: 18337  
Ion Ratio Lower Upper  
73 100  
43 19.2 14.3 21.5  
57 23.7 17.7 26.5





#19

1,1-Dichloroethane

Concen: 1.989 ug/L

RT: 3.191 min Scan# 669

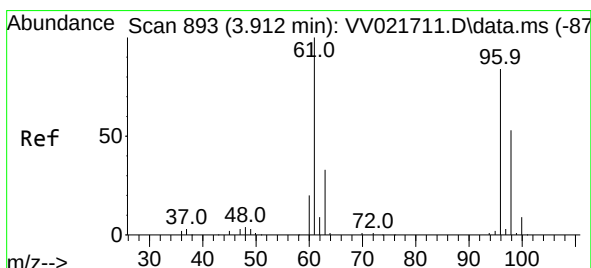
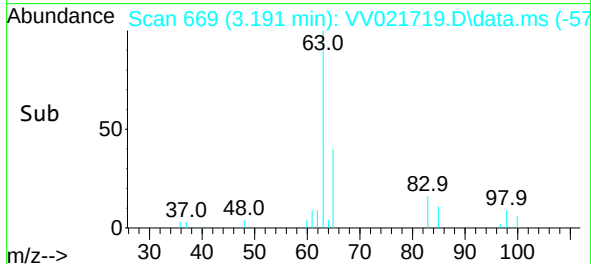
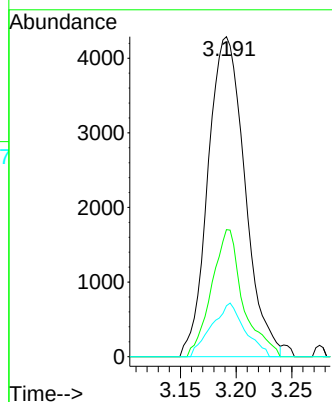
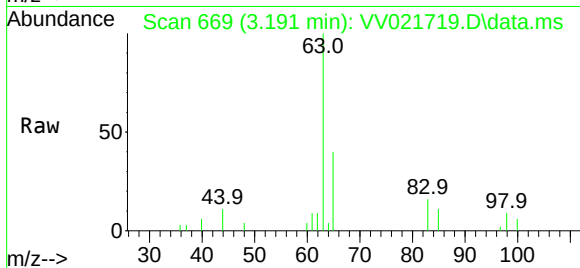
Delta R.T. 0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 63 Resp: 9856

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 39.7  | 22.0  | 41.0  |
| 83  | 15.9  | 9.7   | 18.1  |



#20

cis-1,2-Dichloroethene

Concen: 2.024 ug/L

RT: 3.915 min Scan# 894

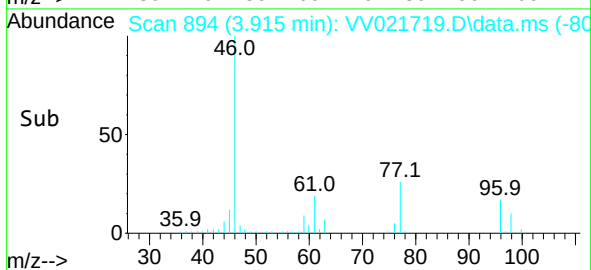
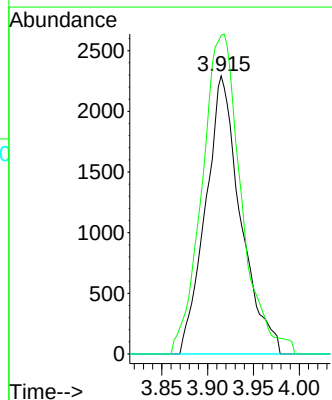
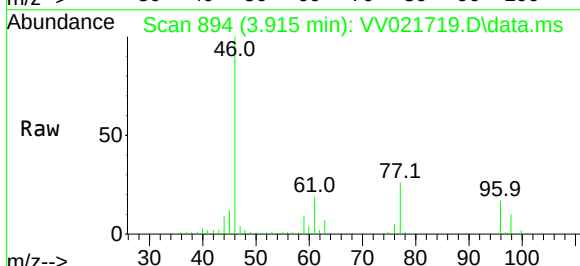
Delta R.T. 0.003 min

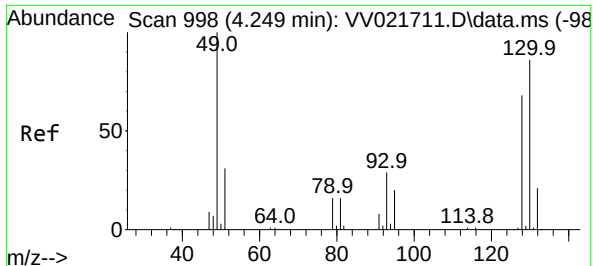
Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 96 Resp: 6092

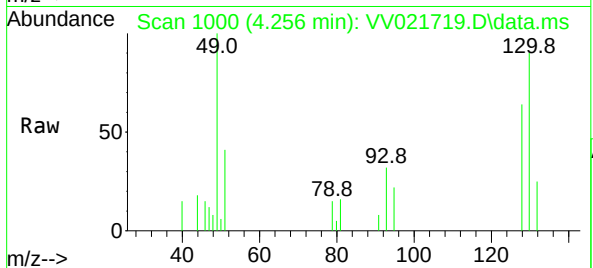
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 114.6 | 84.1  | 156.3 |
| 68  | 0.0   | 0.0   | 0.0   |



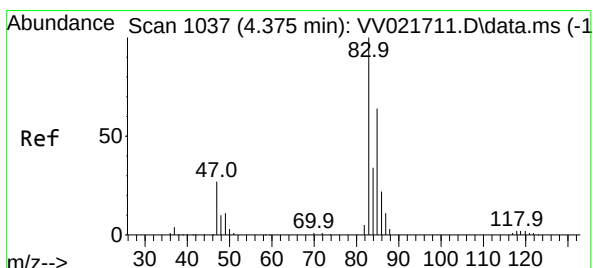
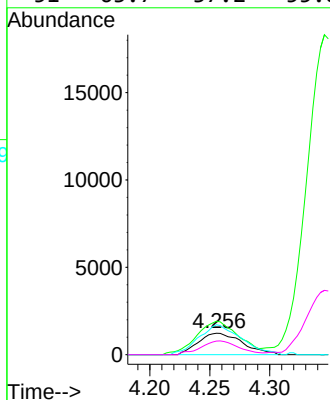
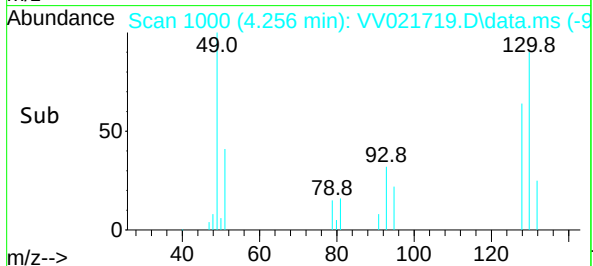


#23  
Bromochloromethane  
Concen: 1.947 ug/L  
RT: 4.256 min Scan# 1000  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

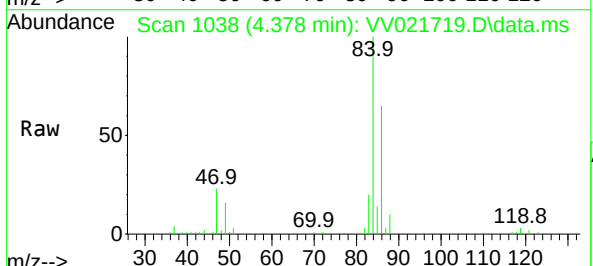
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07



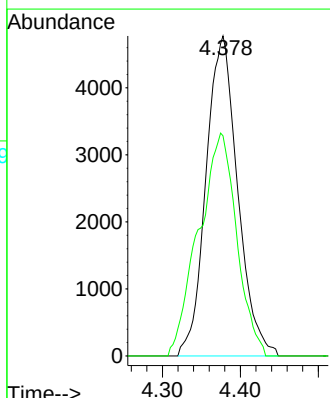
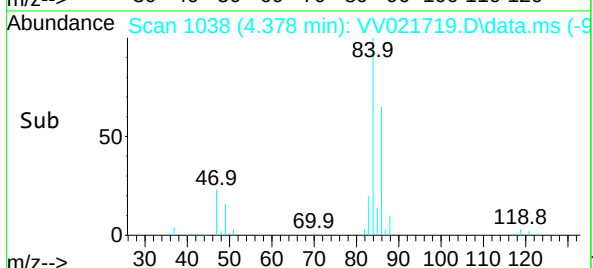
Tgt Ion:128 Resp: 3147  
Ion Ratio Lower Upper  
128 100  
49 156.6 103.6 192.4  
130 140.3 88.8 165.0  
51 63.7 37.2 55.8#

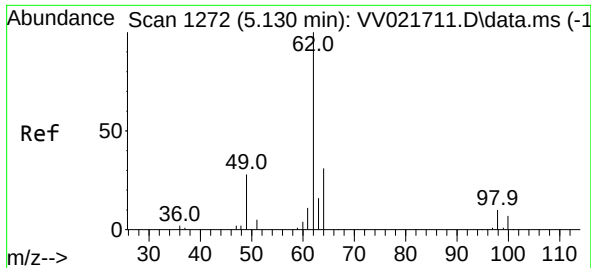


#25  
Chloroform  
Concen: 2.589 ug/L  
RT: 4.378 min Scan# 1038  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05



Tgt Ion: 83 Resp: 13466  
Ion Ratio Lower Upper  
83 100  
85 68.8 45.0 83.6





#27

1,2-Dichloroethane

Concen: 1.863 ug/L

RT: 5.140 min Scan# 1275

Delta R.T. 0.010 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 62 Resp: 6850

Ion Ratio Lower Upper

62 100

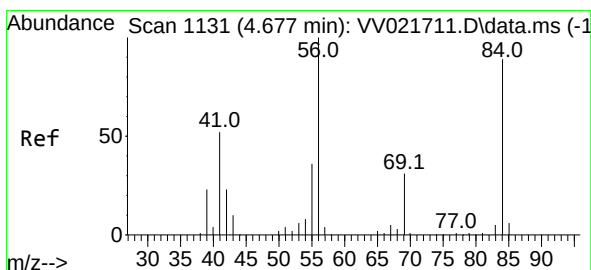
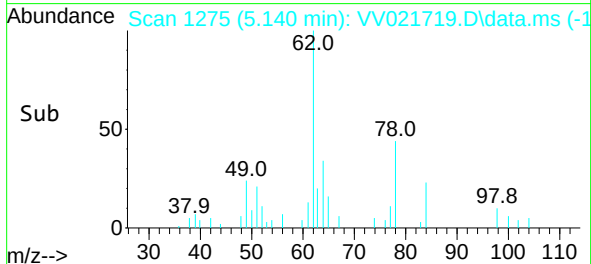
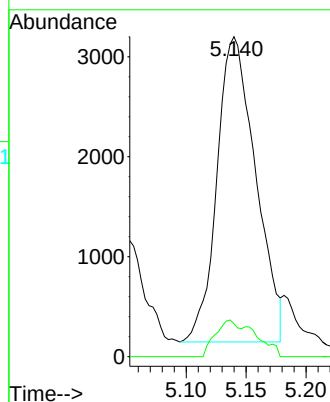
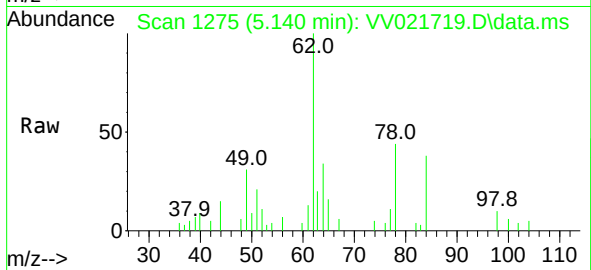
98 10.3 8.3 12.5

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT4-2021-07



#29

Cyclohexane

Concen: 2.057 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

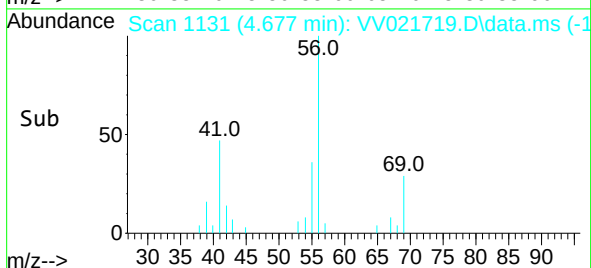
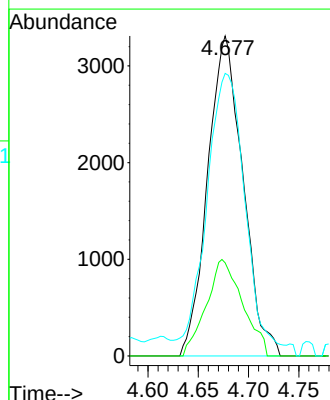
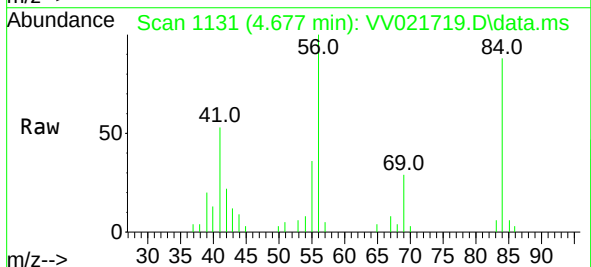
Tgt Ion: 56 Resp: 8066

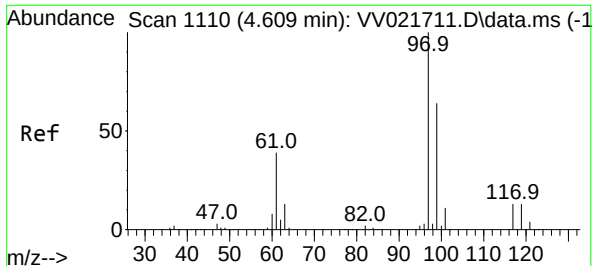
Ion Ratio Lower Upper

56 100

69 31.0 25.1 37.7

84 88.2 71.7 107.5

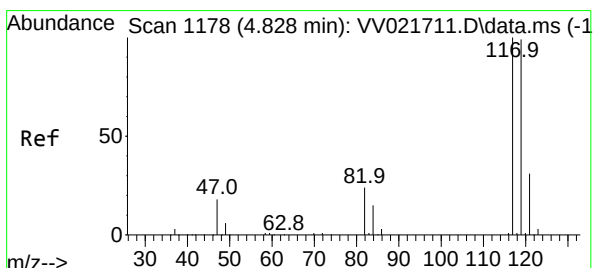
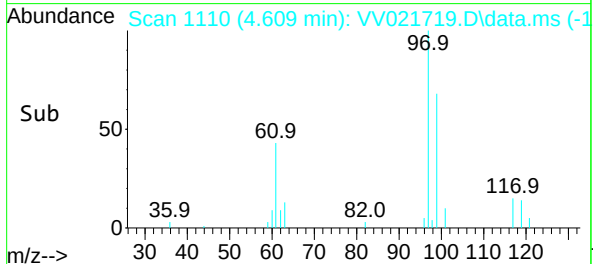
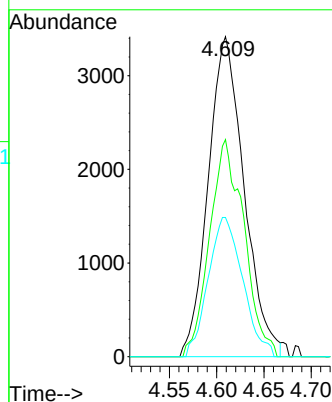
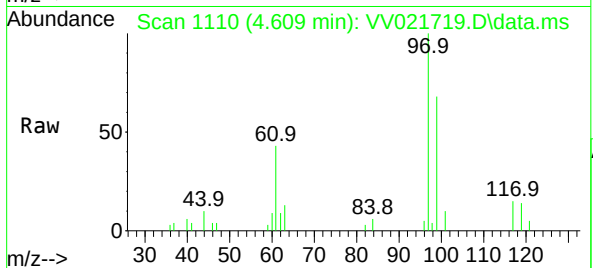




#30  
1,1,1-Trichloroethane  
Concen: 2.039 ug/L  
RT: 4.609 min Scan# 1110  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

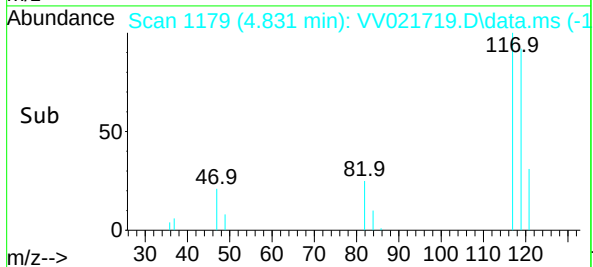
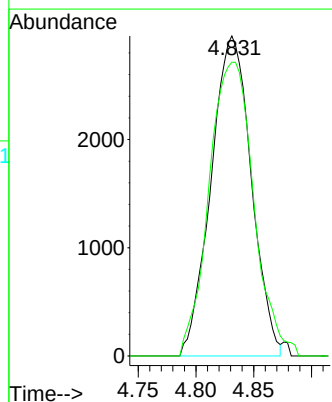
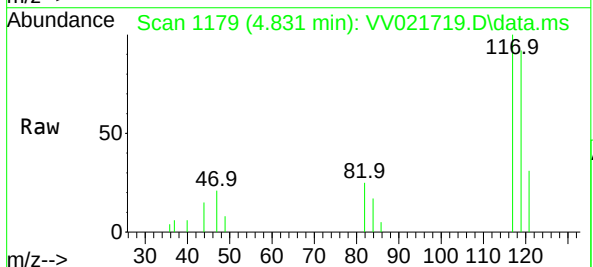
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

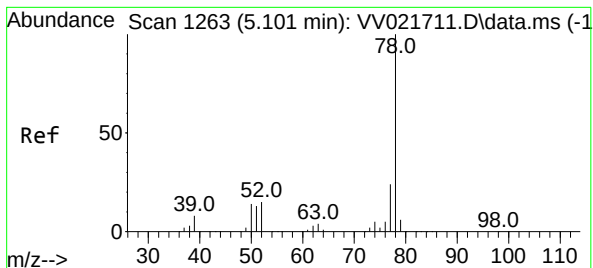
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 9020  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 65.1  | 52.0  | 78.0  |
| 61       | 41.9  | 32.6  | 49.0  |



#31  
Carbon tetrachloride  
Concen: 1.880 ug/L  
RT: 4.831 min Scan# 1179  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 7156  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 101.8 | 77.7  | 116.5 |





#33

Benzene

Concen: 1.904 ug/L

RT: 5.104 min Scan# 1264

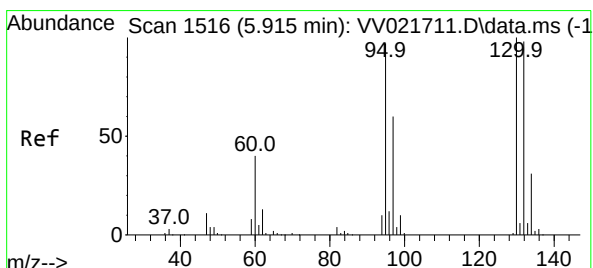
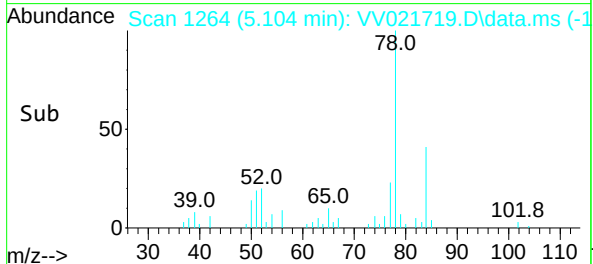
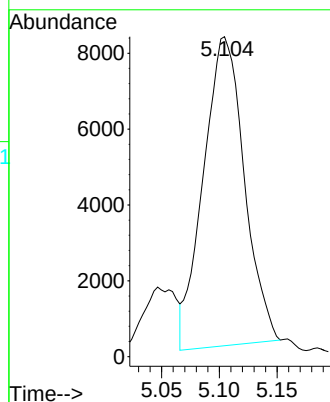
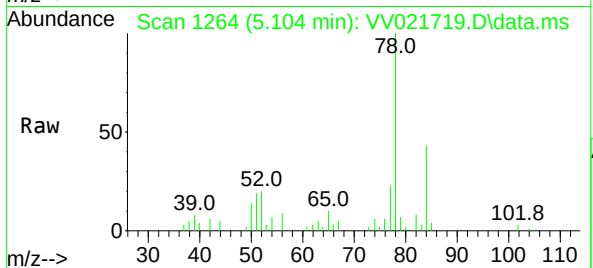
Delta R.T. 0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 78 Resp: 20069

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07



#34

Trichloroethene

Concen: 2.197 ug/L

RT: 5.918 min Scan# 1517

Delta R.T. 0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 95 Resp: 6562

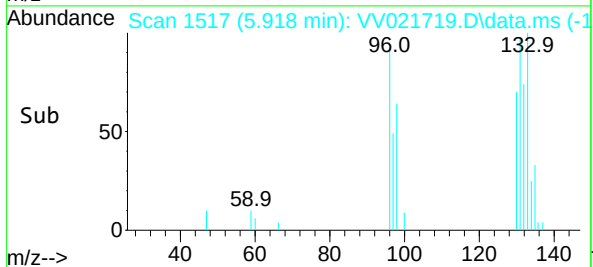
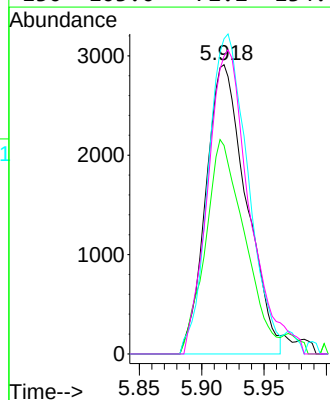
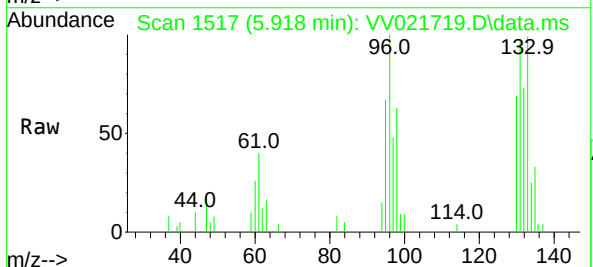
Ion Ratio Lower Upper

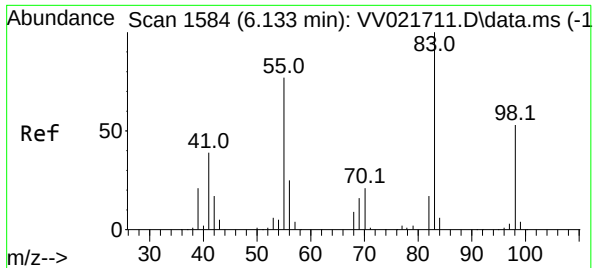
95 100

97 72.0 43.5 80.7

132 109.0 70.6 131.2

130 103.0 72.2 134.0





#35

Methylcyclohexane

Concen: 2.005 ug/L

RT: 6.133 min Scan# 1584

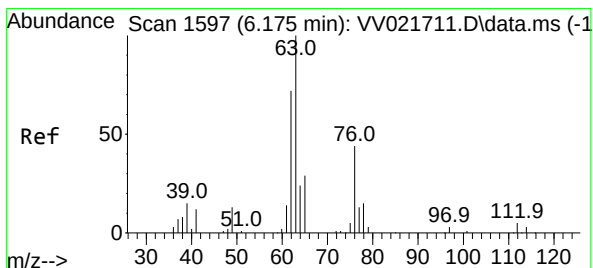
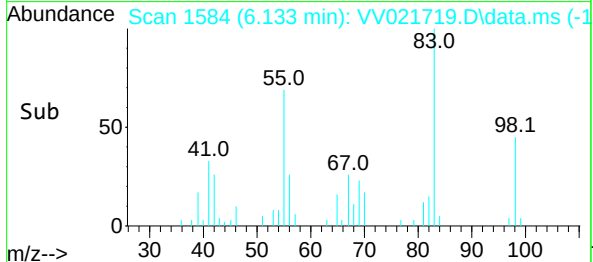
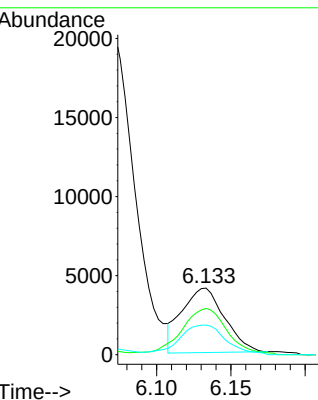
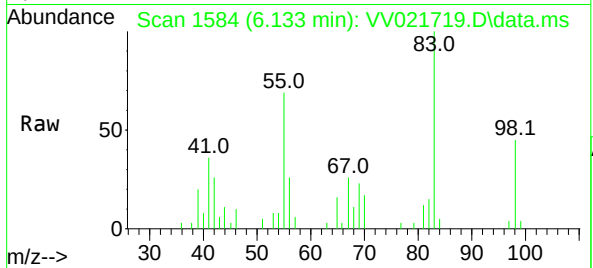
Delta R.T. -0.000 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 83 Resp: 8162

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 77.3  | 59.1  | 88.7  |
| 98  | 50.3  | 40.8  | 61.2  |



#37

1,2-Dichloropropane

Concen: 2.265 ug/L

RT: 6.182 min Scan# 1599

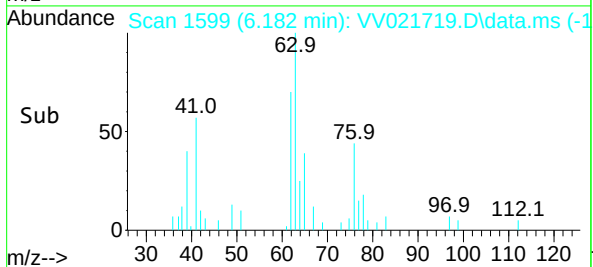
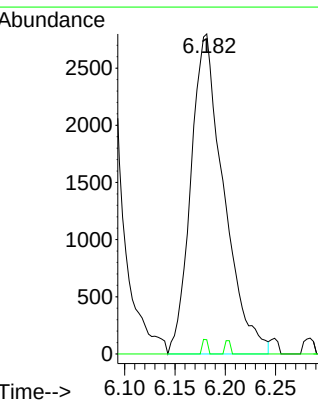
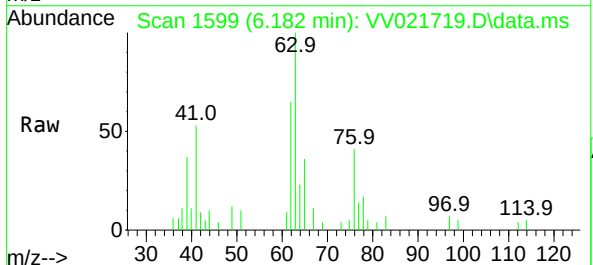
Delta R.T. 0.006 min

Lab File: VV021719.D

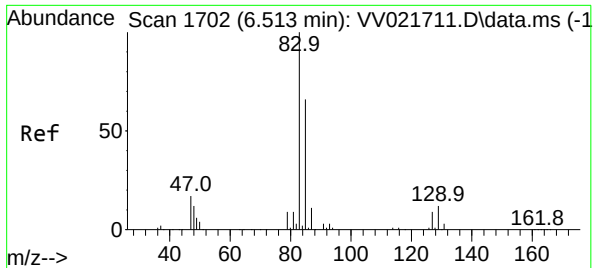
Acq: 02 Aug 2021 15:05

Tgt Ion: 63 Resp: 6361

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 112 | 0.8   | 3.8   | 5.8#  |



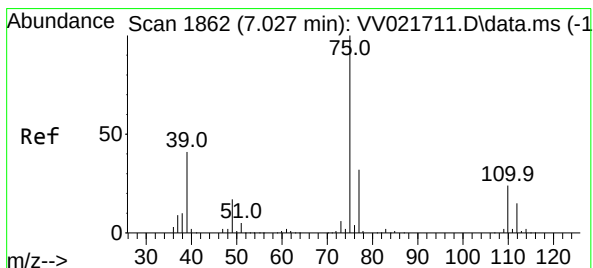
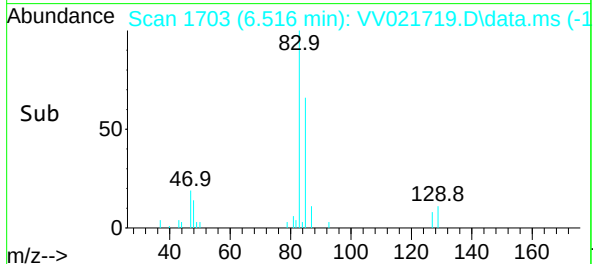
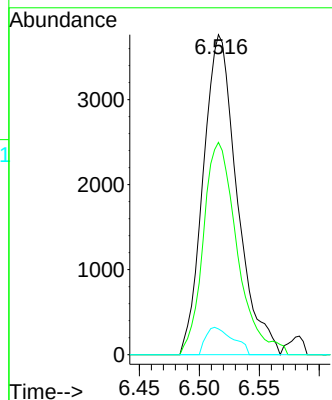
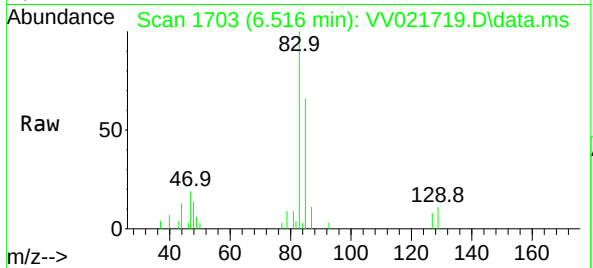




#38  
Bromodichloromethane  
Concen: 1.923 ug/L  
RT: 6.516 min Scan# 1703  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

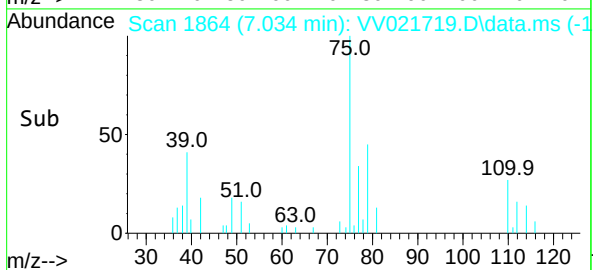
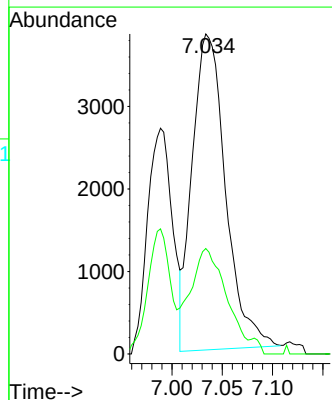
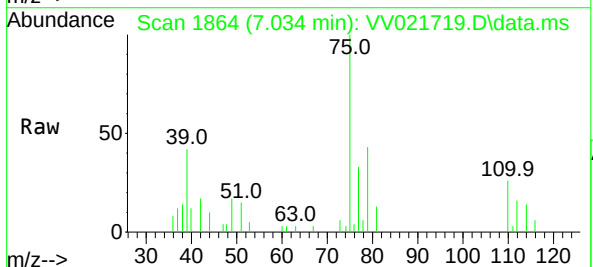
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

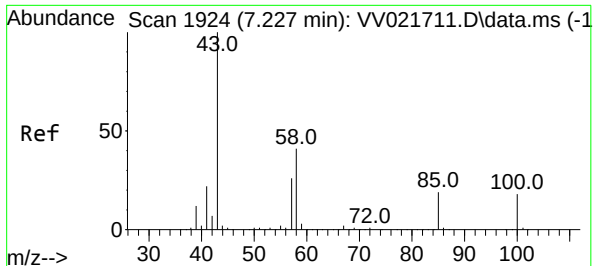
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 7375  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 66.4  | 45.8  | 85.2  |
| 127      | 8.0   | 7.1   | 10.7  |



#39  
cis-1,3-Dichloropropene  
Concen: 1.985 ug/L  
RT: 7.034 min Scan# 1864  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 8833  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 33.0  | 22.4  | 41.6  |

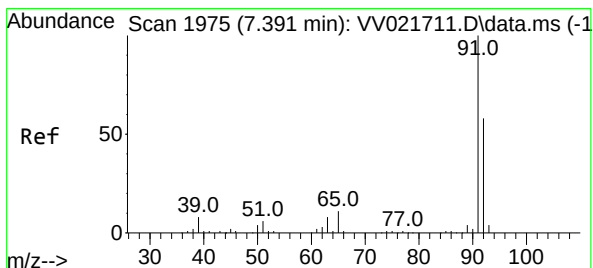
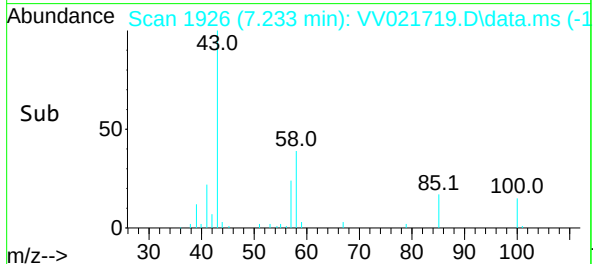
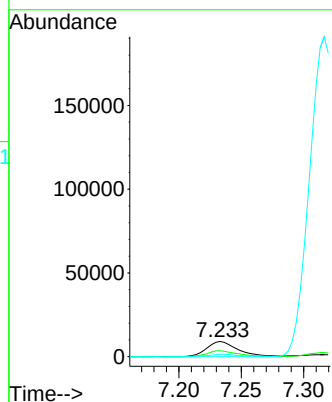
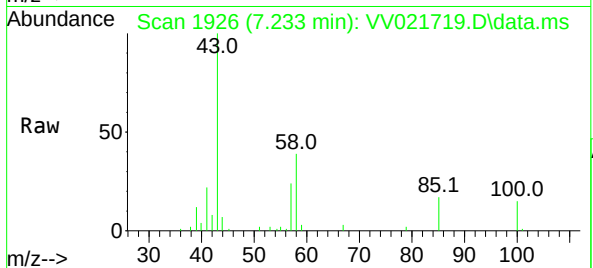




#40  
4-Methyl-2-pentanone  
Concen: 3.863 ug/L  
RT: 7.233 min Scan# 1926  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

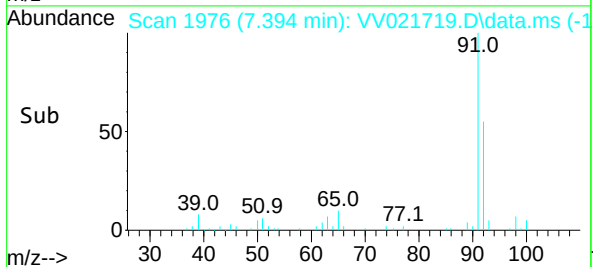
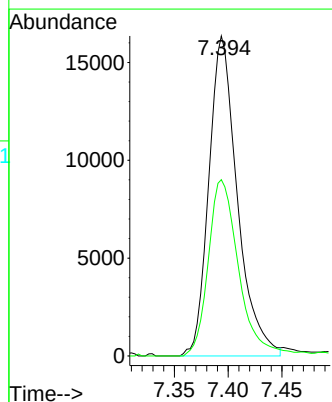
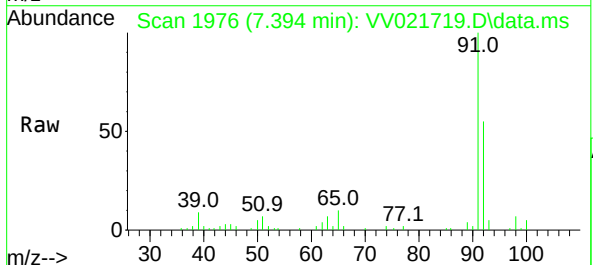
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

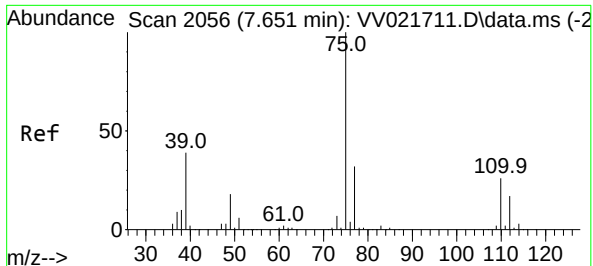
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 15806 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 38.3  | 32.9  | 49.3  |
| 100       | 16.5  | 13.8  | 20.8  |



#42  
Toluene  
Concen: 2.655 ug/L  
RT: 7.394 min Scan# 1976  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 30172 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 55.1  | 40.9  | 76.0  |

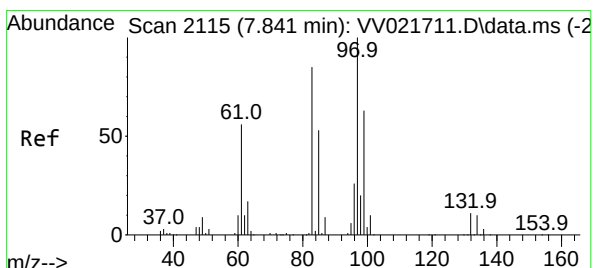
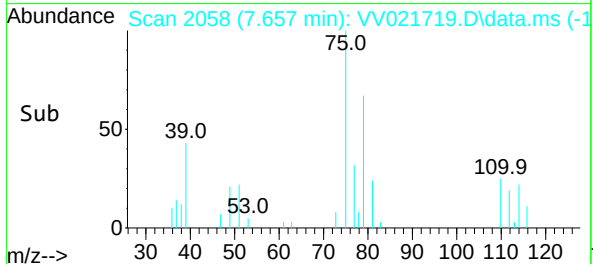
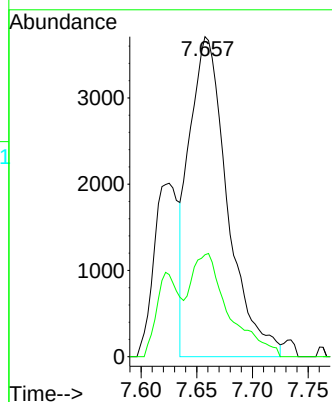
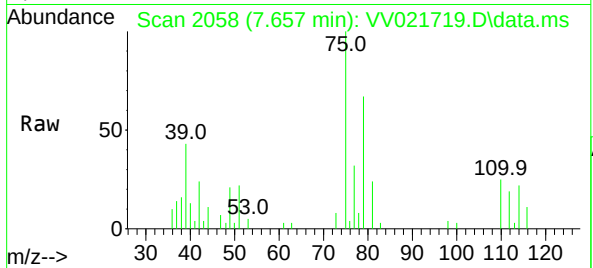




#44  
trans-1,3-Dichloropropene  
Concen: 2.074 ug/L  
RT: 7.657 min Scan# 2058  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

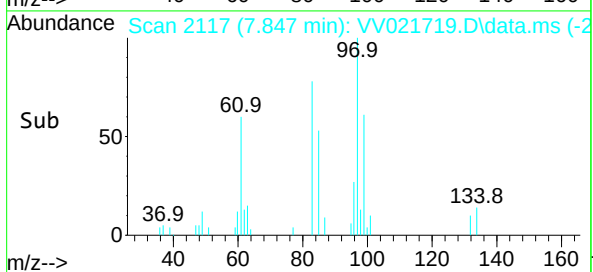
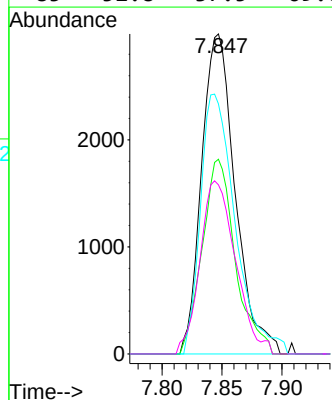
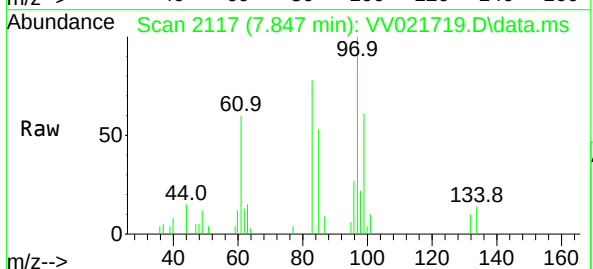
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

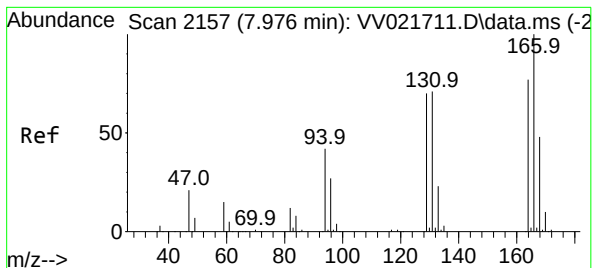
Tgt Ion: 75 Resp: 8848  
Ion Ratio Lower Upper  
75 100  
77 31.9 22.3 41.5



#45  
1,1,2-Trichloroethane  
Concen: 2.039 ug/L  
RT: 7.847 min Scan# 2117  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 97 Resp: 5831  
Ion Ratio Lower Upper  
97 100  
99 60.8 43.8 81.3  
83 78.2 59.3 110.1  
85 52.8 37.5 69.6





#46

Tetrachloroethene

Concen: 2.017 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. 0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion:164 Resp: 4452

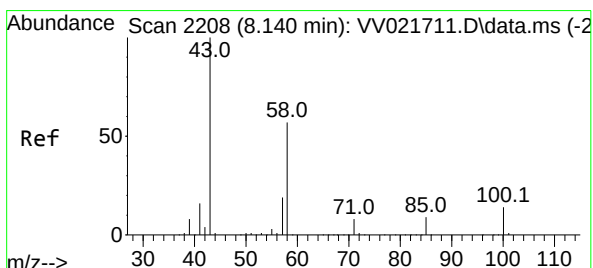
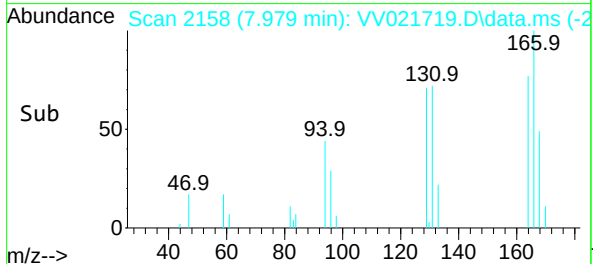
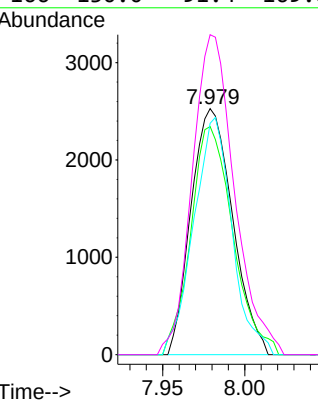
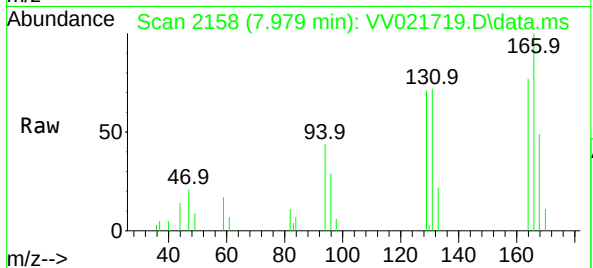
Ion Ratio Lower Upper

164 100

129 92.7 64.3 119.5

131 94.0 65.2 121.0

166 130.0 91.4 169.8



#48

2-Hexanone

Concen: 8.259 ug/L

RT: 8.143 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

Tgt Ion: 43 Resp: 25899

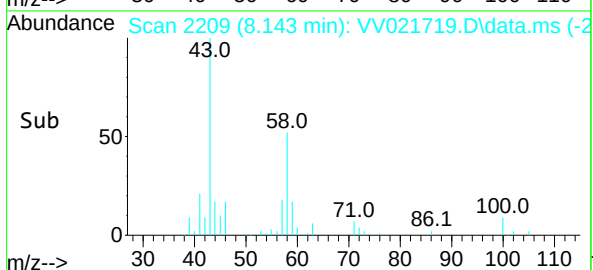
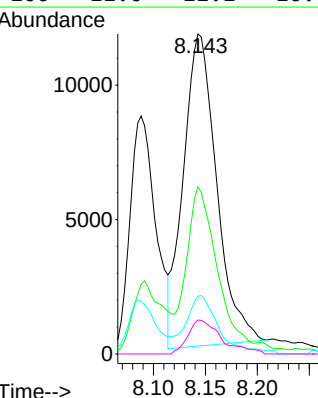
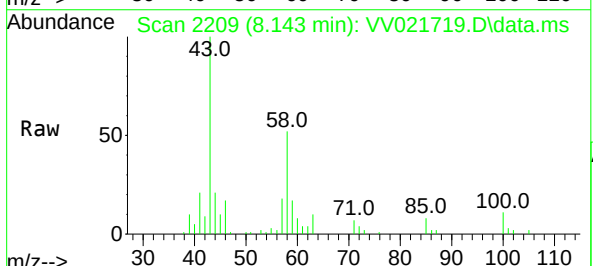
Ion Ratio Lower Upper

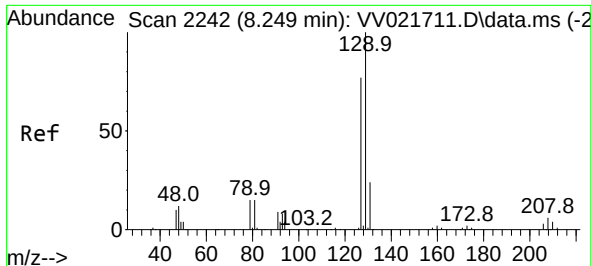
43 100

58 44.7 46.0 69.0#

57 15.1 15.0 22.4

100 11.0 11.1 16.7#





#49

Dibromochloromethane

Concen: 1.884 ug/L

RT: 8.252 min Scan# 2243

Delta R.T. 0.003 min

Lab File: VV021719.D

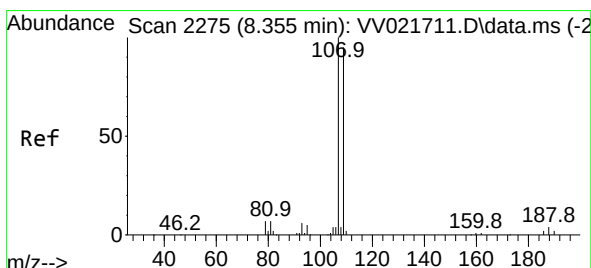
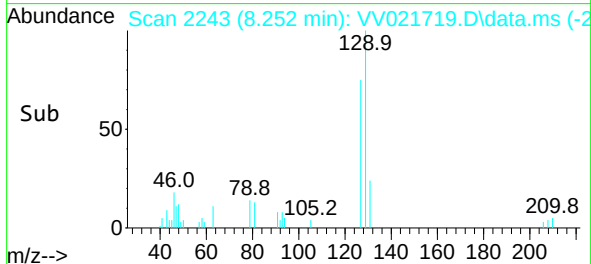
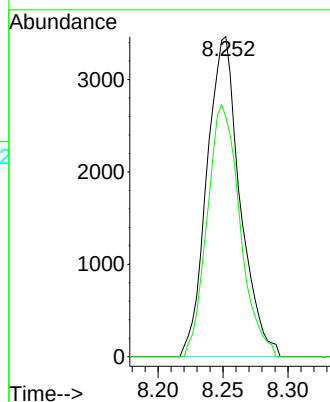
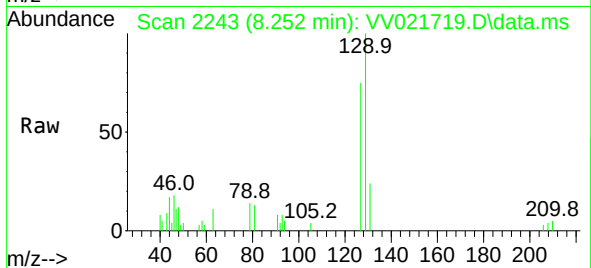
Acq: 02 Aug 2021 15:05

Tgt Ion:129 Resp: 6138

Ion Ratio Lower Upper

129 100

127 75.0 54.0 100.2



#50

1,2-Dibromoethane

Concen: 2.012 ug/L

RT: 8.358 min Scan# 2276

Delta R.T. 0.003 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

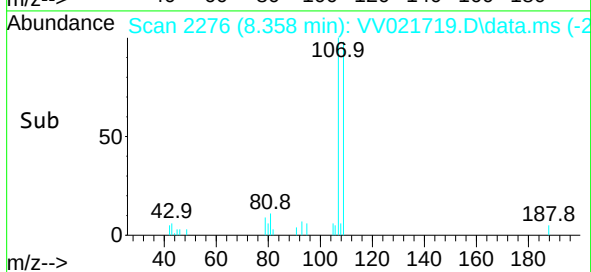
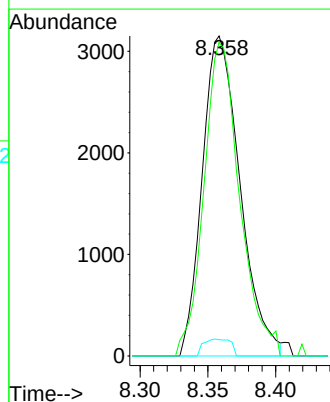
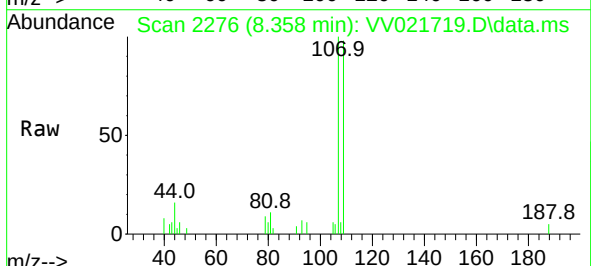
Tgt Ion:107 Resp: 6114

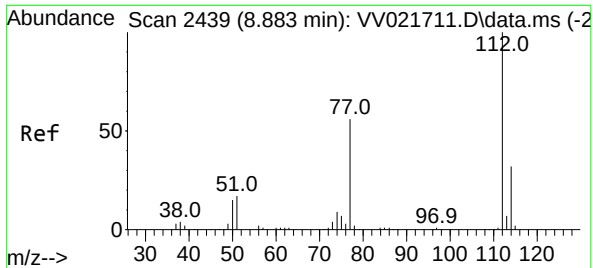
Ion Ratio Lower Upper

107 100

109 98.0 66.2 123.0

188 5.1 3.1 4.7#

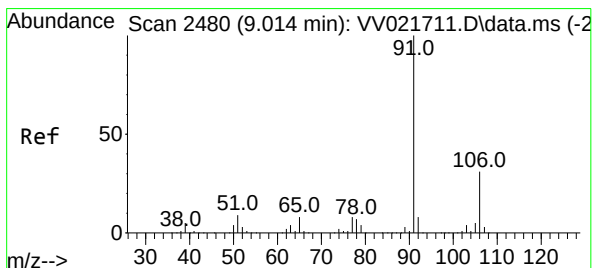
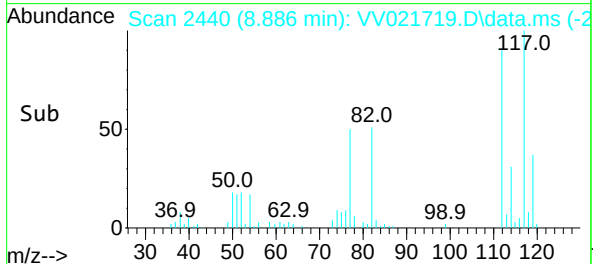
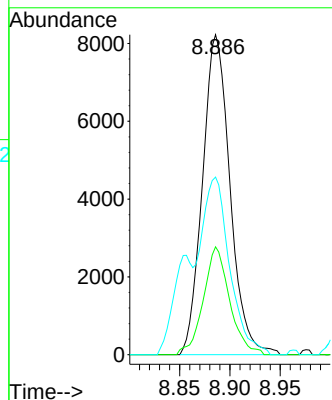
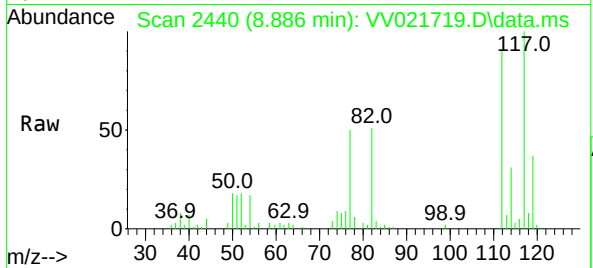




#51  
Chlorobenzene  
Concen: 2.066 ug/L  
RT: 8.886 min Scan# 2440  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

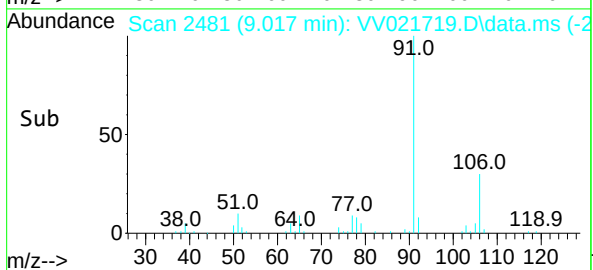
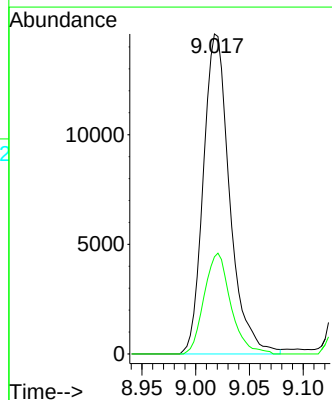
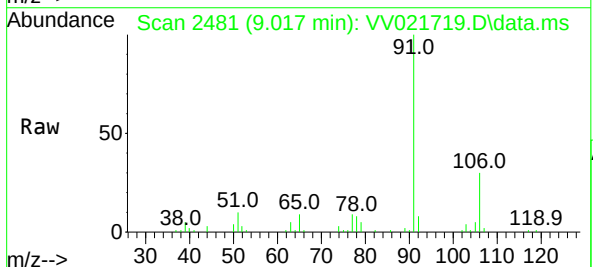
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

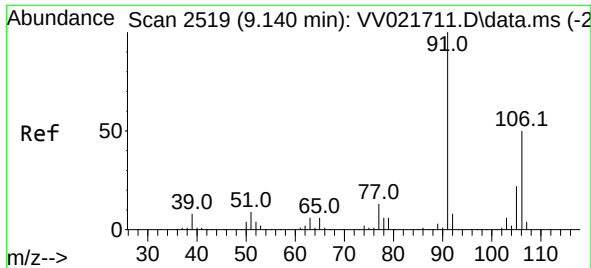
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 15690 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 114       | 33.7  | 22.6  | 42.0  |
| 77        | 55.5  | 45.0  | 67.4  |



#52  
Ethylbenzene  
Concen: 2.013 ug/L  
RT: 9.017 min Scan# 2481  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 24842 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 30.4  | 22.0  | 40.8  |

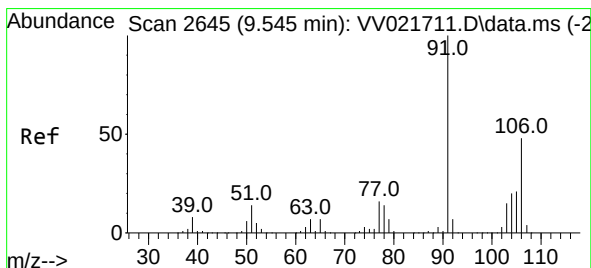
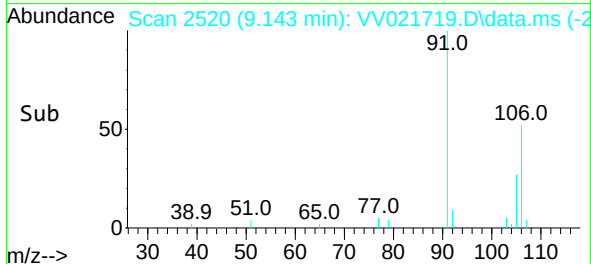
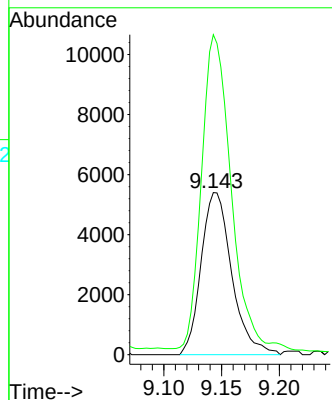
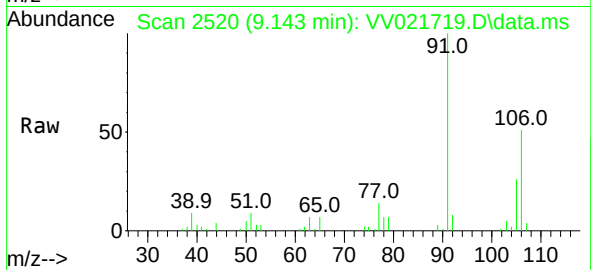




#53  
m,p-Xylene  
Concen: 2.080 ug/L  
RT: 9.143 min Scan# 2520  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

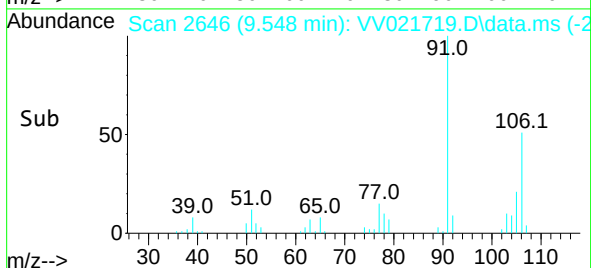
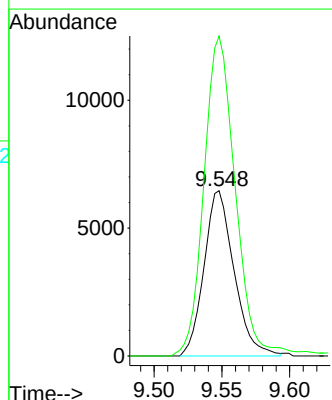
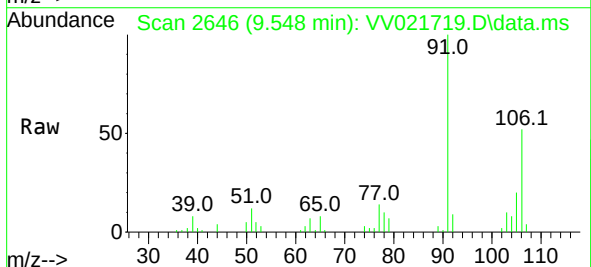
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

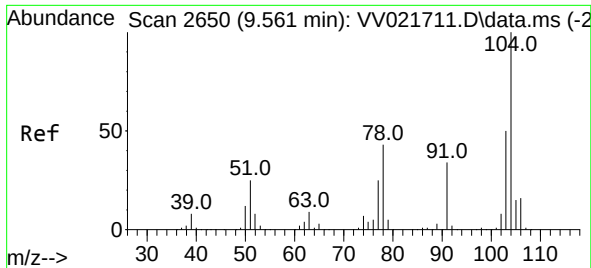
Tgt Ion:106 Resp: 9960  
Ion Ratio Lower Upper  
106 100  
91 197.3 138.9 258.1



#54  
o-Xylene  
Concen: 2.065 ug/L  
RT: 9.548 min Scan# 2646  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion:106 Resp: 9953  
Ion Ratio Lower Upper  
106 100  
91 193.6 147.4 273.8

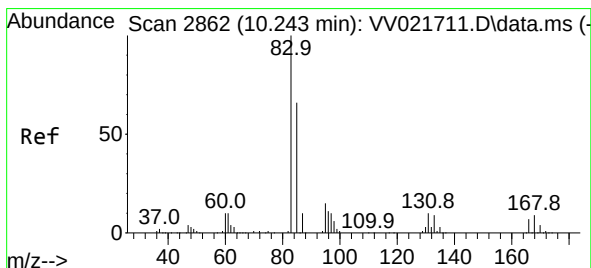
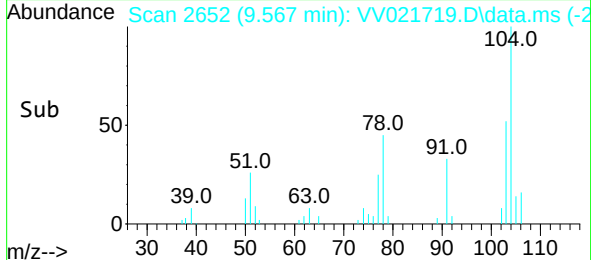
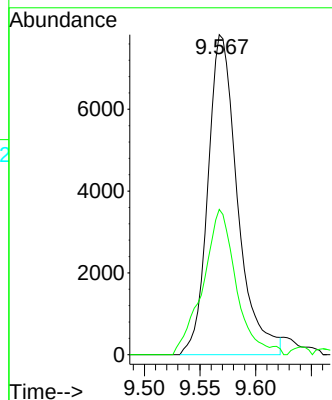
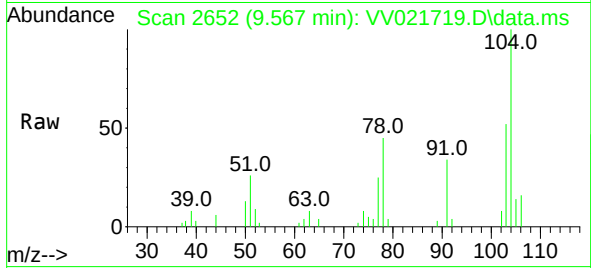




#55  
Styrene  
Concen: 1.790 ug/L  
RT: 9.567 min Scan# 2652  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

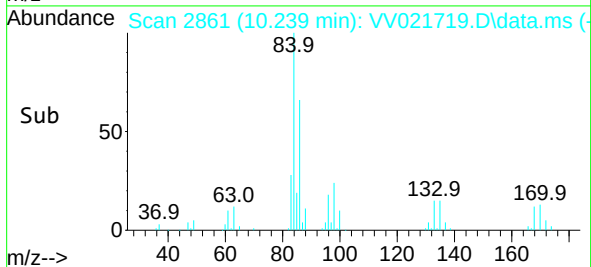
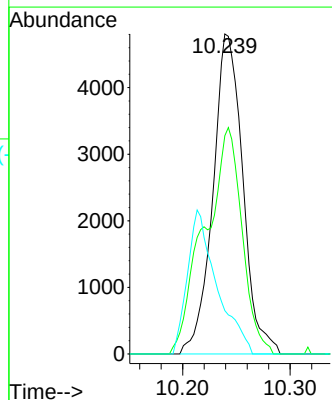
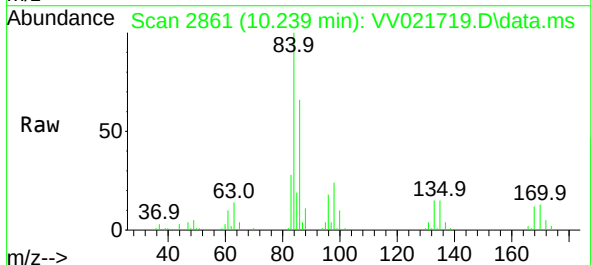
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

Tgt Ion:104 Resp: 14450  
Ion Ratio Lower Upper  
104 100  
78 45.4 30.0 55.8

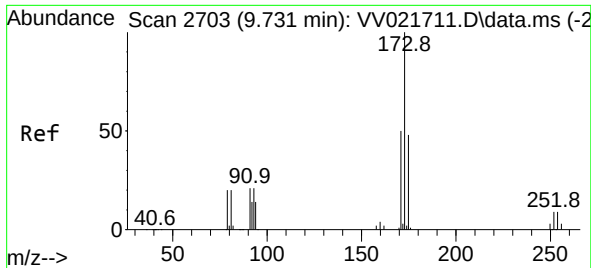


#57  
1,1,2,2-Tetrachloroethane  
Concen: 2.173 ug/L  
RT: 10.239 min Scan# 2861  
Delta R.T. -0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 83 Resp: 9278  
Ion Ratio Lower Upper  
83 100  
85 68.2 46.0 85.4  
131 13.6 8.1 12.1#

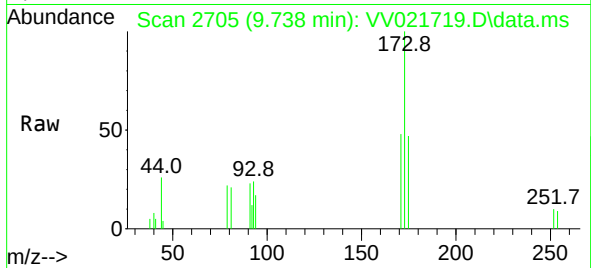




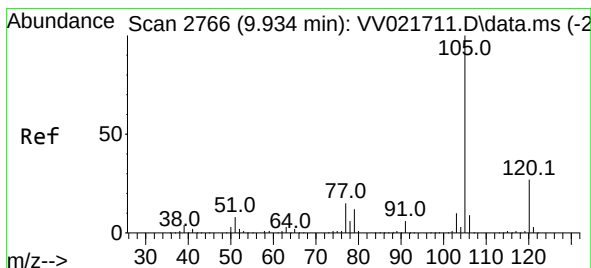
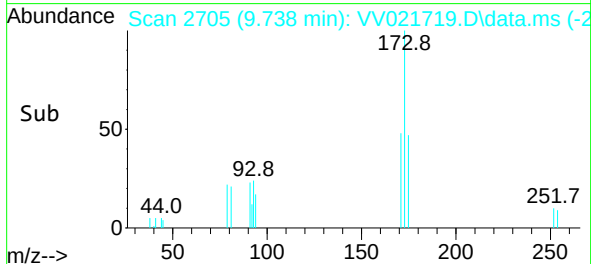
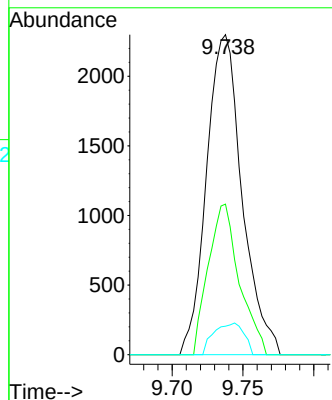


#59  
Bromoform  
Concen: 1.750 ug/L  
RT: 9.738 min Scan# 2705  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

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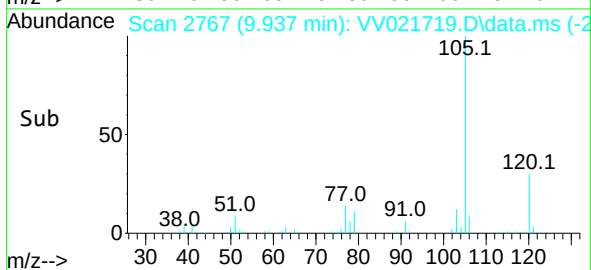
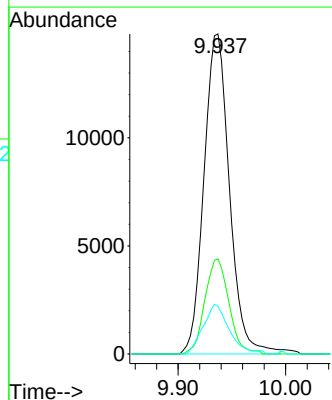
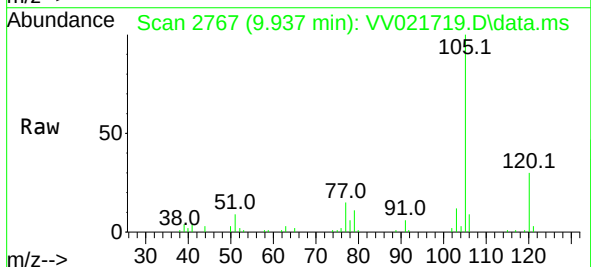


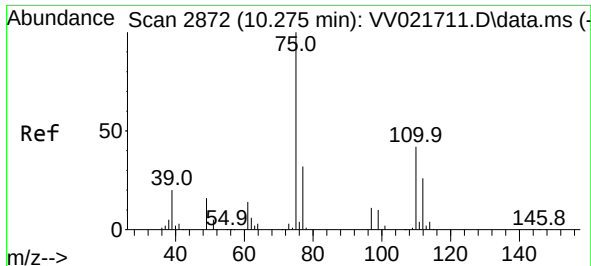
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:173 | Resp: | 4014        |
| Ion         | Ratio | Lower Upper |
| 173         | 100   |             |
| 175         | 41.1  | 39.0 58.4   |
| 254         | 8.4   | 7.2 10.8    |



#60  
Isopropylbenzene  
Concen: 1.989 ug/L  
RT: 9.937 min Scan# 2767  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:105 | Resp: | 24375       |
| Ion         | Ratio | Lower Upper |
| 105         | 100   |             |
| 120         | 27.9  | 21.5 32.3   |
| 77          | 15.6  | 11.8 17.8   |

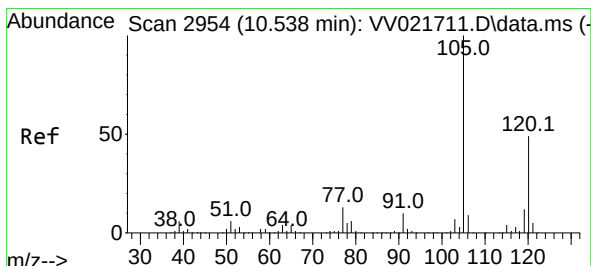
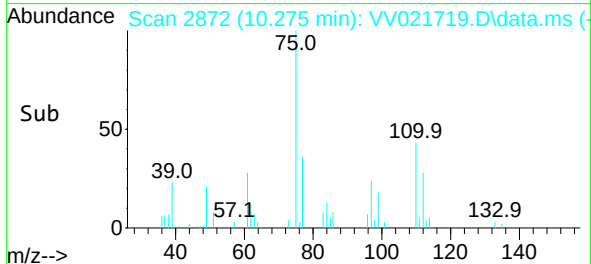
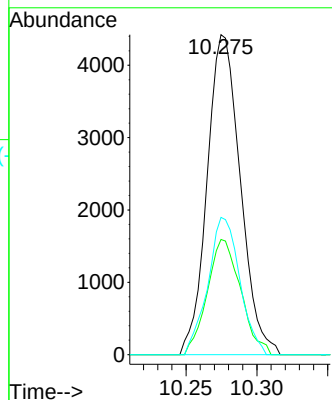
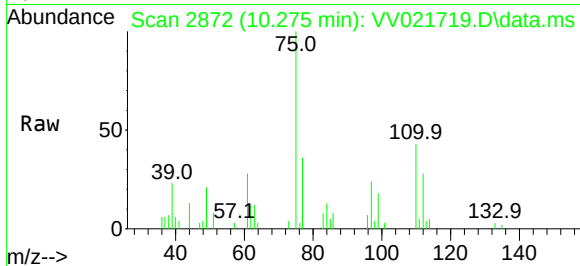




#61  
1,2,3-Trichloropropane  
Concen: 2.046 ug/L  
RT: 10.275 min Scan# 2872  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

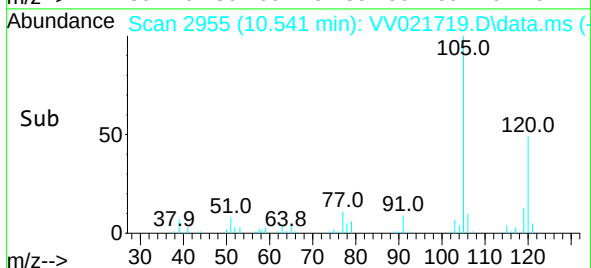
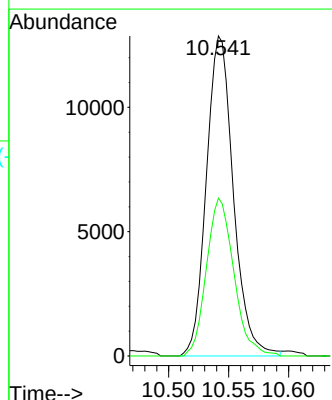
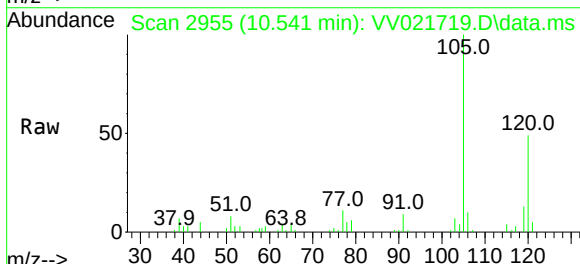
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

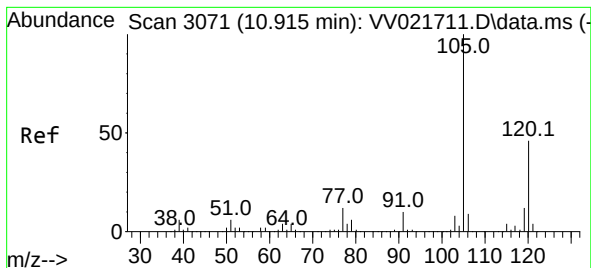
Tgt Ion: 75 Resp: 7213  
Ion Ratio Lower Upper  
75 100  
77 36.1 25.7 38.5  
110 41.1 33.8 50.6



#62  
1,3,5-Trimethylbenzene  
Concen: 1.943 ug/L  
RT: 10.541 min Scan# 2955  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 105 Resp: 20158  
Ion Ratio Lower Upper  
105 100  
120 50.0 39.8 59.6





#63

1,2,4-Trimethylbenzene

Concen: 2.004 ug/L

RT: 10.918 min Scan# 3072

Delta R.T. 0.003 min

Lab File: VV021719.D

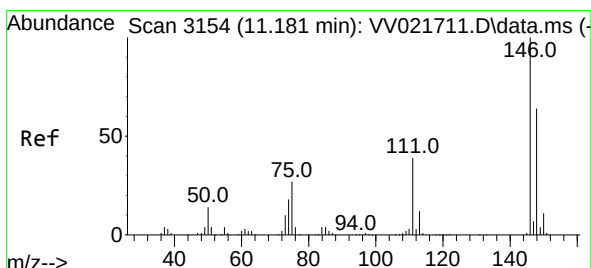
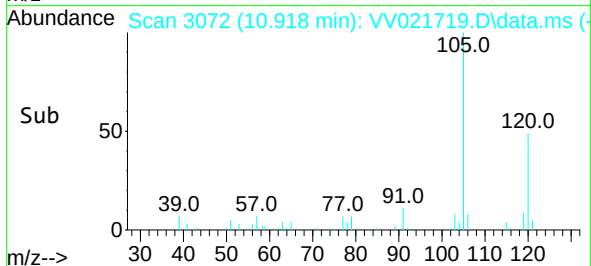
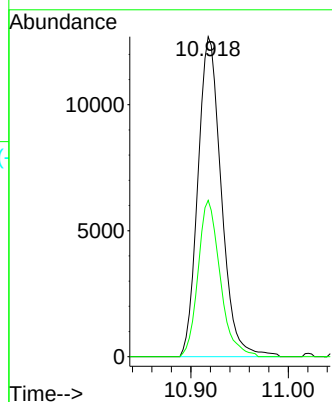
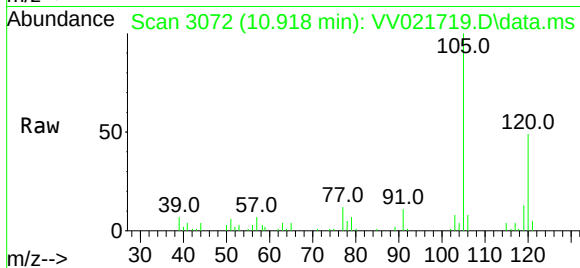
Acq: 02 Aug 2021 15:05

Tgt Ion:105 Resp: 21158

Ion Ratio Lower Upper

105 100

120 46.1 37.0 55.6



#64

1,3-Dichlorobenzene

Concen: 1.995 ug/L

RT: 11.188 min Scan# 3156

Delta R.T. 0.006 min

Lab File: VV021719.D

Acq: 02 Aug 2021 15:05

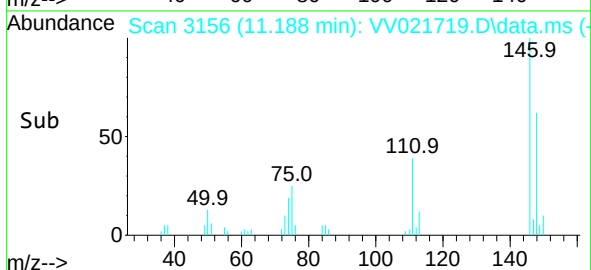
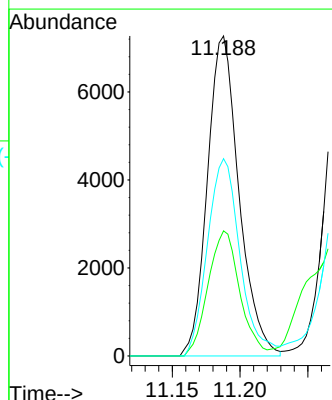
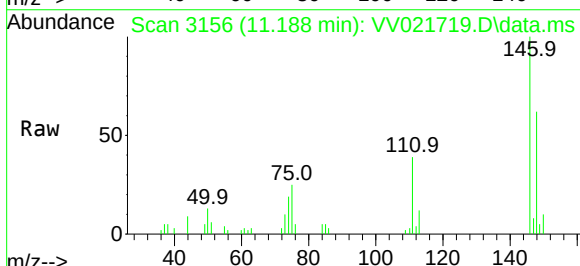
Tgt Ion:146 Resp: 11780

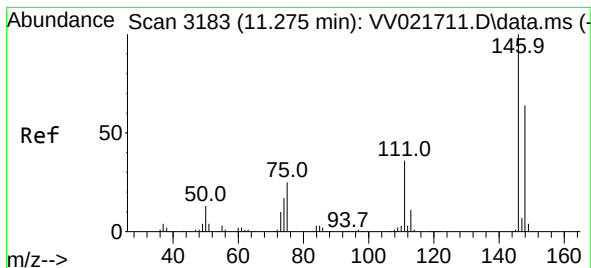
Ion Ratio Lower Upper

146 100

111 39.1 27.3 50.7

148 61.6 44.4 82.5

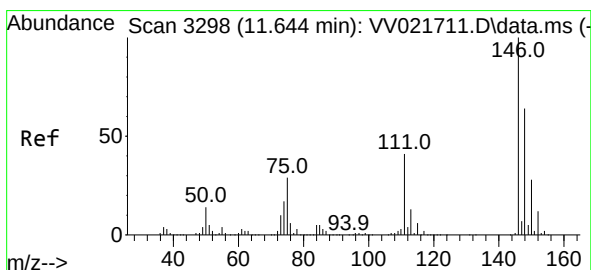
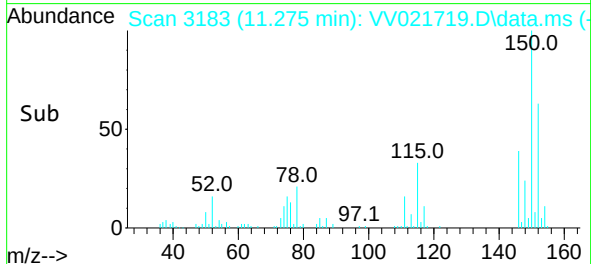
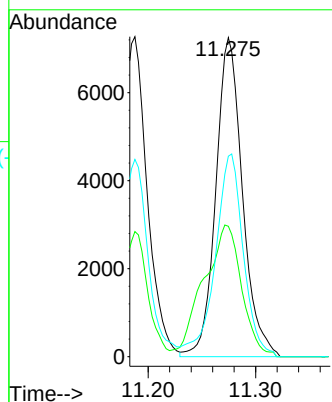
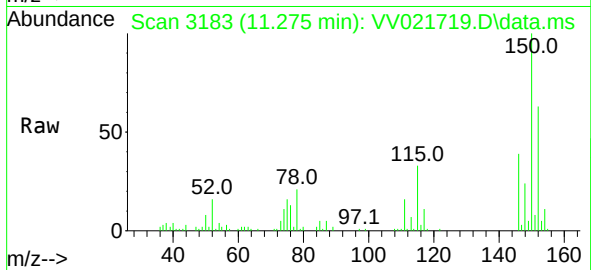




#65  
1,4-Dichlorobenzene  
Concen: 2.100 ug/L  
RT: 11.275 min Scan# 3183  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

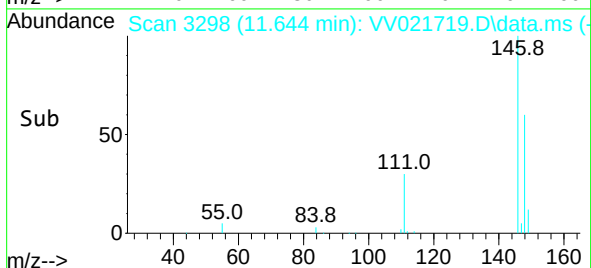
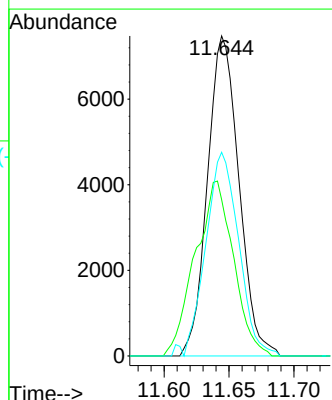
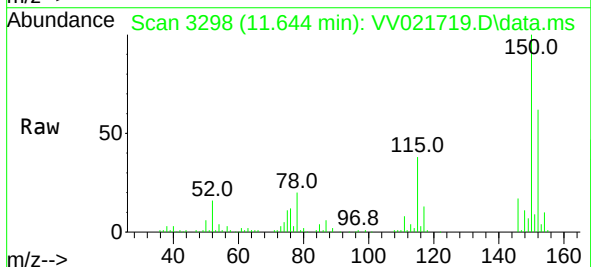
Instrument :  
MSVOA\_V  
ClientSampleId :  
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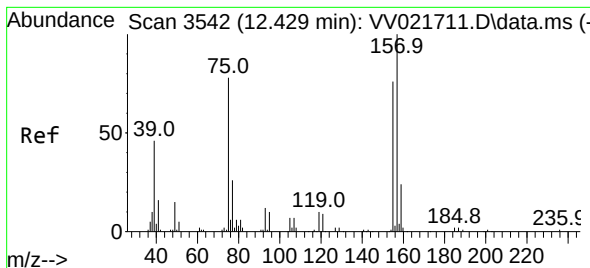
Tgt Ion:146 Resp: 12476  
Ion Ratio Lower Upper  
146 100  
111 40.8 25.6 47.4  
148 62.8 44.7 82.9



#67  
1,2-Dichlorobenzene  
Concen: 2.087 ug/L  
RT: 11.644 min Scan# 3298  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion:146 Resp: 12588  
Ion Ratio Lower Upper  
146 100  
111 48.9 32.5 48.7#  
148 63.6 51.5 77.3

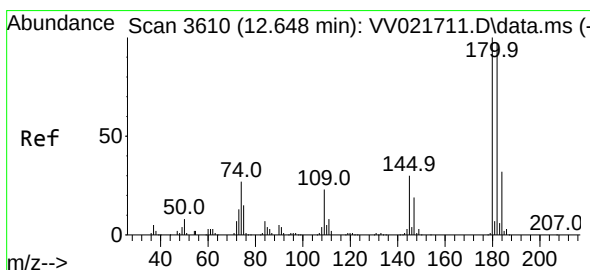
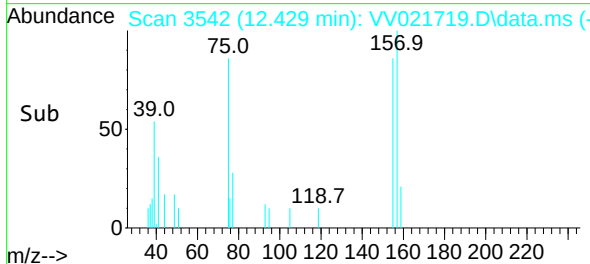
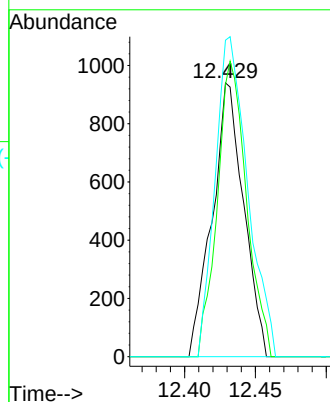
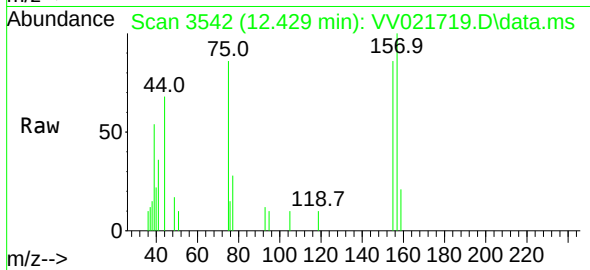




#68  
1,2-Dibromo-3-chloropropane  
Concen: 1.562 ug/L  
RT: 12.429 min Scan# 3542  
Delta R.T. -0.000 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

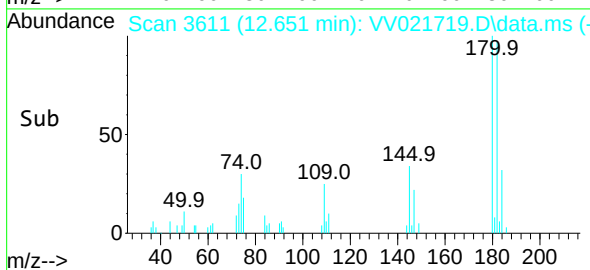
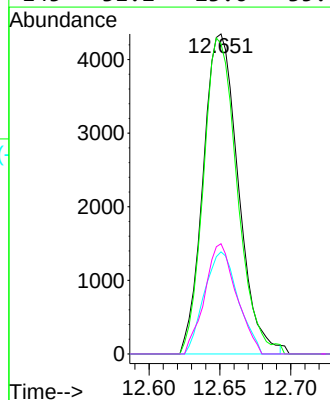
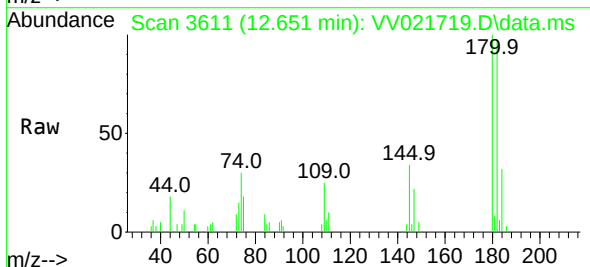
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT4-2021-07

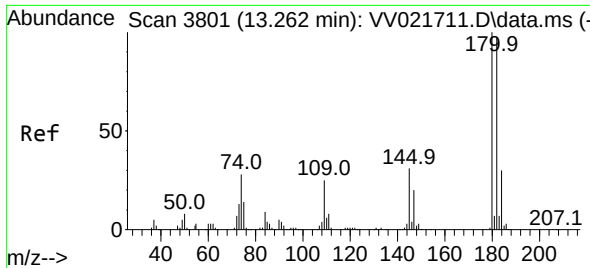
Tgt Ion: 75 Resp: 1450  
Ion Ratio Lower Upper  
75 100  
155 99.4 77.7 116.5  
157 115.6 102.6 154.0



#69  
1,3,5-Trichlorobenzene  
Concen: 1.700 ug/L  
RT: 12.651 min Scan# 3611  
Delta R.T. 0.003 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

Tgt Ion: 180 Resp: 7469  
Ion Ratio Lower Upper  
180 100  
182 94.5 77.1 115.7  
184 30.8 24.6 36.8  
145 31.2 23.6 35.4

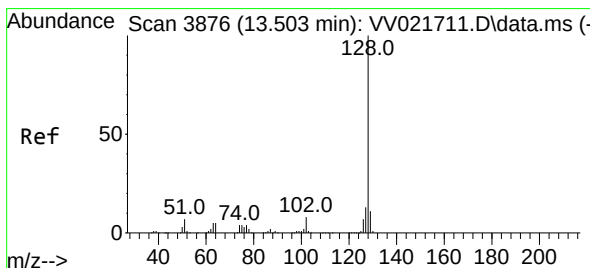
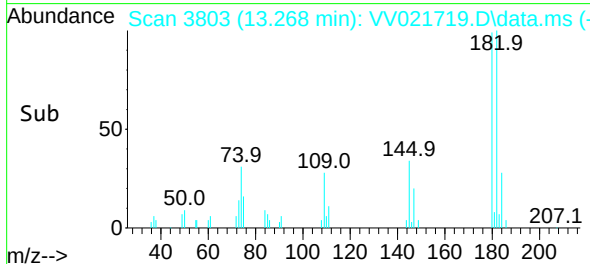
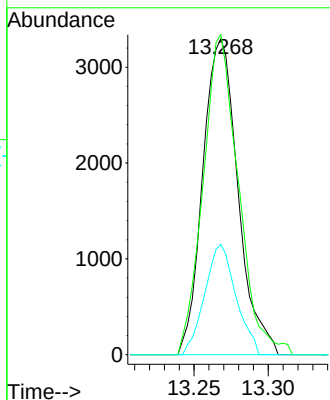
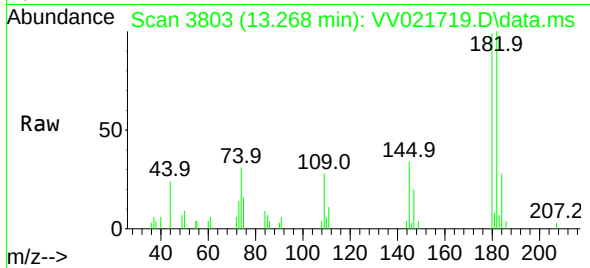




#70  
1,2,4-trichlorobenzene  
Concen: 1.465 ug/L  
RT: 13.268 min Scan# 3803  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

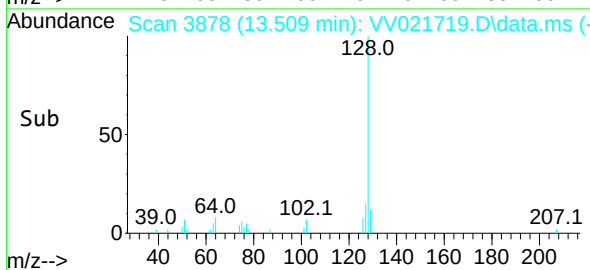
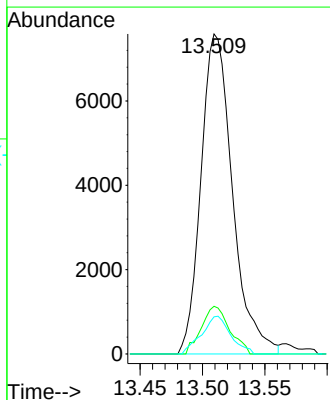
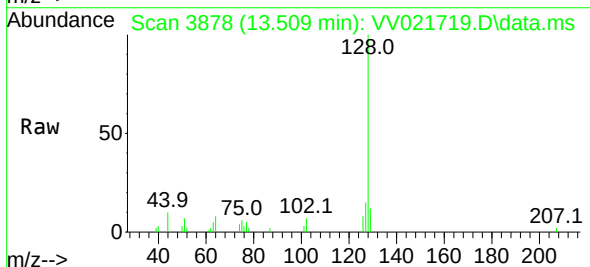
Instrument :  
MSVOA\_V  
ClientSampleId :  
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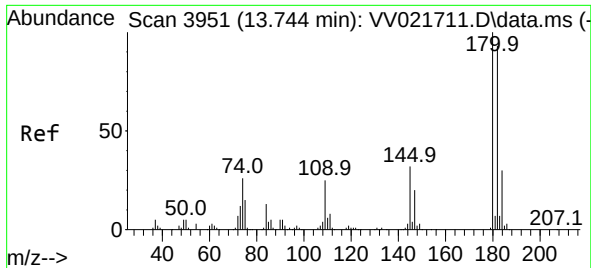
Tgt Ion:180 Resp: 5427  
Ion Ratio Lower Upper  
180 100  
182 100.7 76.3 114.5  
145 31.0 24.1 36.1



#71  
Naphthalene  
Concen: 1.243 ug/L  
RT: 13.509 min Scan# 3878  
Delta R.T. 0.006 min  
Lab File: VV021719.D  
Acq: 02 Aug 2021 15:05

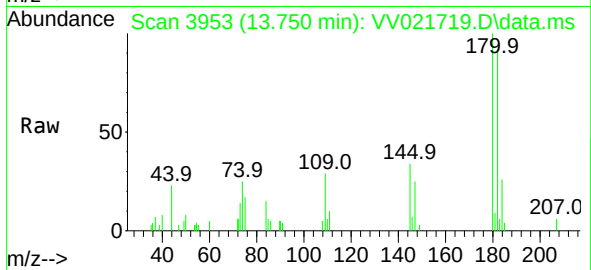
Tgt Ion:128 Resp: 13335  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.2 15.4  
129 10.9 8.6 12.8





#72  
 1,2,3-Trichlorobenzene  
 Concen: 1.504 ug/L  
 RT: 13.750 min Scan# 3953  
 Delta R.T. 0.006 min  
 Lab File: VV021719.D  
 Acq: 02 Aug 2021 15:05

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT4-2021-07



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5535  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.9  | 76.8  | 115.2 |
| 145      | 32.4  | 25.5  | 38.3  |

