

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032922\  
 Data File : VX027794.D  
 Acq On : 29 Mar 2022 23:26  
 Operator : JC/MD  
 Sample : N2041-11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW4-20220317

Quant Time: Mar 30 05:17:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 04:39:27 2022  
 Response via : Initial Calibration

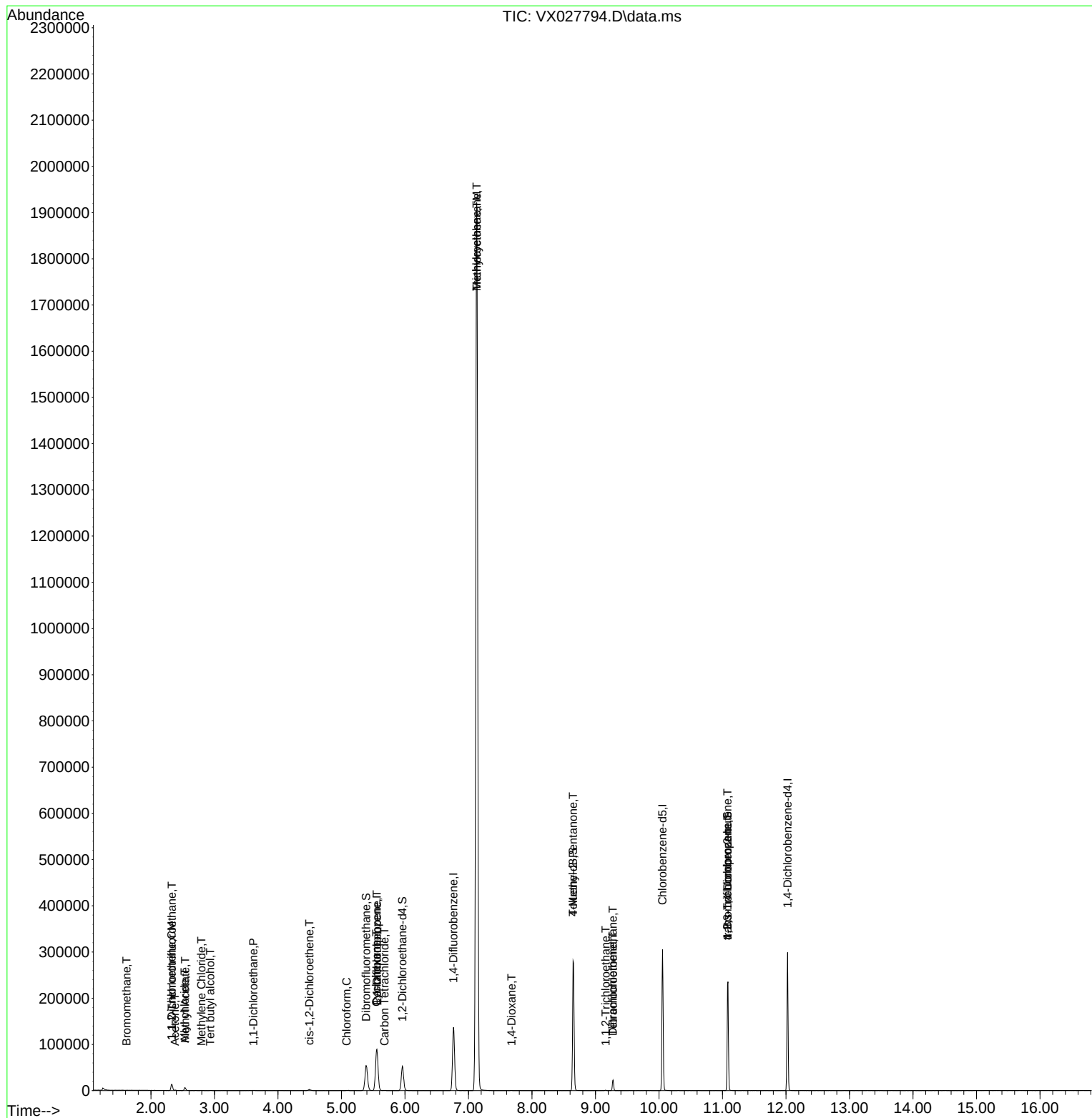
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 79298    | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 143063   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 124378   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 52533    | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 50193    | 49.057   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =     | 98.120%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 47400    | 51.330   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =     | 102.660% |
| 50) Toluene-d8                | 8.647  | 98    | 167480   | 51.547   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =     | 103.100% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 64898    | 47.003   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =     | 94.000%  |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 5) Bromomethane               | 1.618  | 94    | 157      | 0.535    | ug/l  | # 63     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 4249     | 5.722    | ug/l  | 98       |
| 11) Tert butyl alcohol        | 2.934  | 59    | 68       | 0.346    | ug/l  | # 72     |
| 12) 1,1-Dichloroethene        | 2.325  | 96    | 1385     | 2.033    | ug/l  | 85       |
| 14) Allyl chloride            | 2.532  | 41    | 682      | 0.545    | ug/l  | # 53     |
| 16) Acetone                   | 2.380  | 43    | 1221     | 2.696    | ug/l  | # 76     |
| 18) Methyl Acetate            | 2.538  | 43    | 1988     | 1.781    | ug/l  | # 46     |
| 20) Methylene Chloride        | 2.794  | 84    | 229      | 0.281    | ug/l  | # 64     |
| 24) 1,1-Dichloroethane        | 3.611  | 63    | 645      | 0.457    | ug/l  | # 81     |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 1521     | 1.706    | ug/l  | 95       |
| 30) Chloroform                | 5.080  | 83    | 698      | 0.445    | ug/l  | # 44     |
| 31) Cyclohexane               | 5.550  | 56    | 1926     | 1.703    | ug/l  | # 36     |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 7039     | 6.052    | ug/l  | # 49     |
| 38) Carbon Tetrachloride      | 5.678  | 117   | 509      | 0.396    | ug/l  | # 64     |
| 39) Methylcyclohexane         | 7.129  | 83    | 8924     | 6.520    | ug/l  | # 1      |
| 44) Trichloroethene           | 7.129  | 130   | 765029   | 798.682  | ug/l  | 98       |
| 49) 1,4-Dioxane               | 7.678  | 88    | 350      | 14.639   | ug/l  | # 81     |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 761      | 0.475    | ug/l  | # 1      |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97    | 306      | 0.311    | ug/l  | # 86     |
| 60) Dibromochloromethane      | 9.275  | 129   | 3873     | 3.793    | ug/l  | # 9      |
| 64) Tetrachloroethene         | 9.275  | 164   | 3915     | 4.642    | ug/l  | 93       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 37485    | 30.418   | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 37485    | 88.552   | ug/l  | # 15     |
| -----                         |        |       |          |          |       |          |

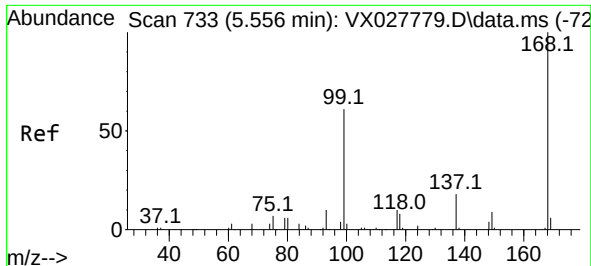
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
RW4-20220317

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032922W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 04:39:27 2022  
Response via : Initial Calibration

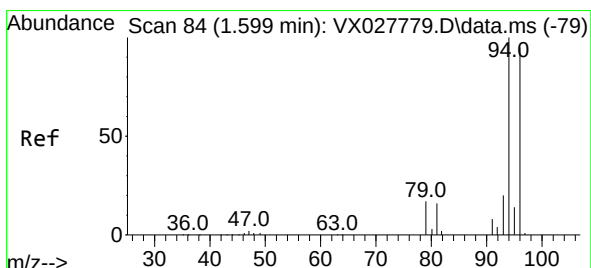
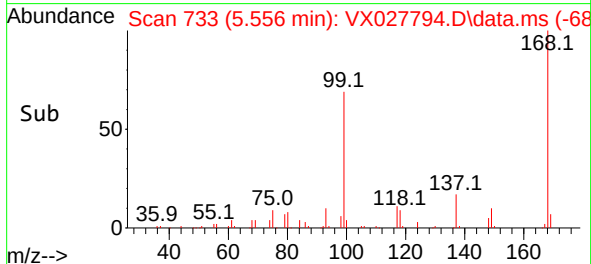
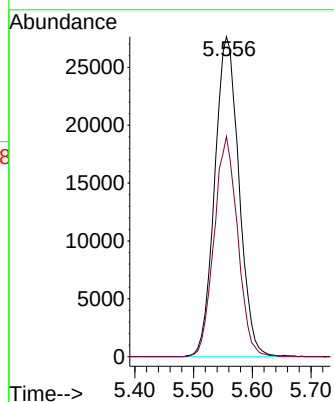
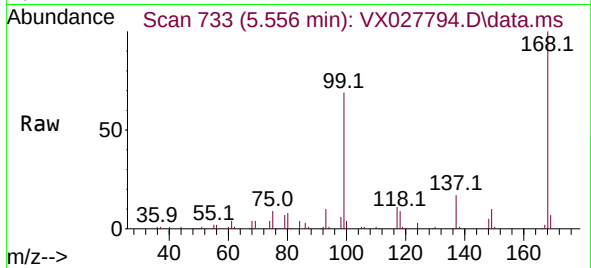




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

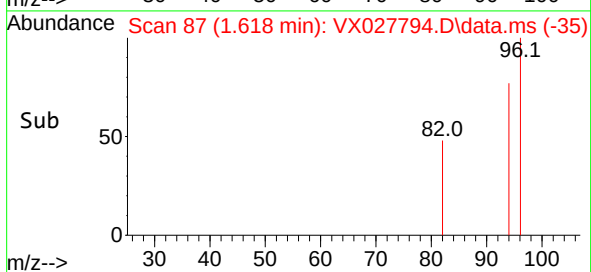
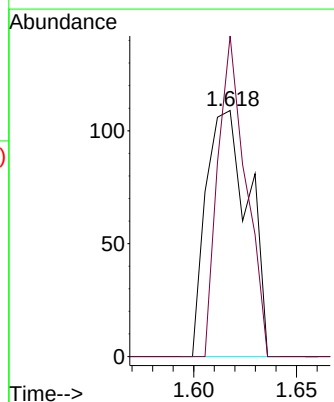
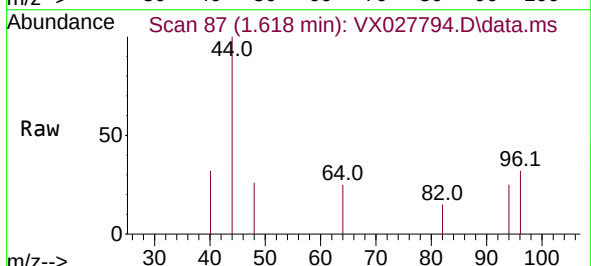
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

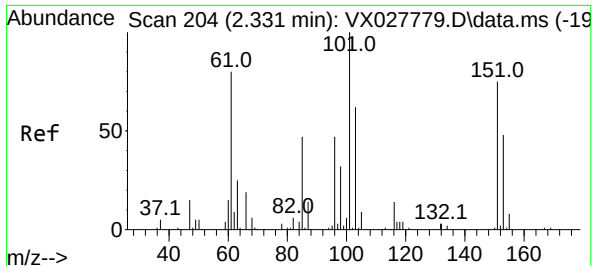
Tgt Ion:168 Resp: 79298  
Ion Ratio Lower Upper  
168 100  
99 68.8 41.7 62.5#



#5  
Bromomethane  
Concen: 0.535 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.019 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion: 94 Resp: 157  
Ion Ratio Lower Upper  
94 100  
96 130.3 75.3 112.9#

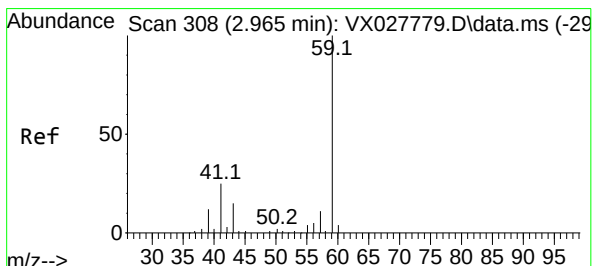
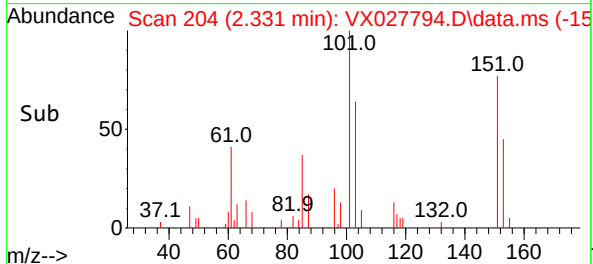
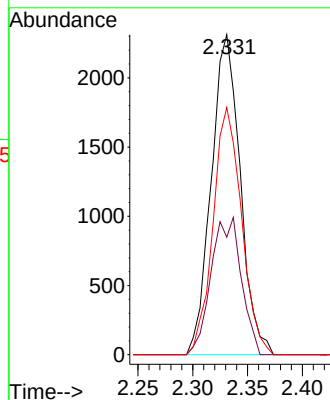
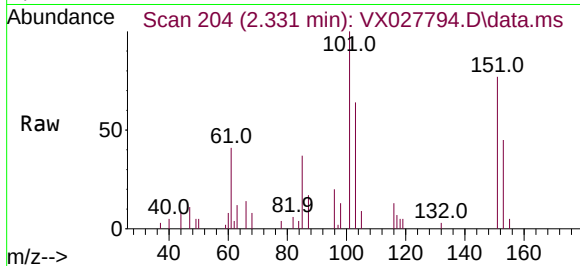




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.722 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

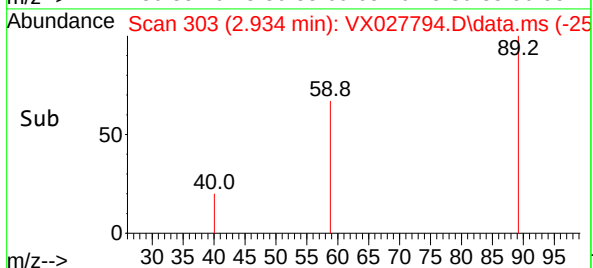
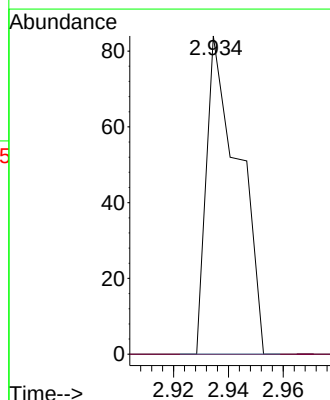
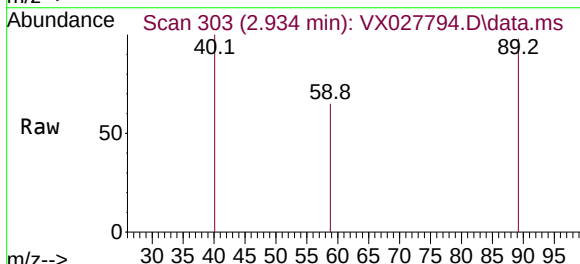
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

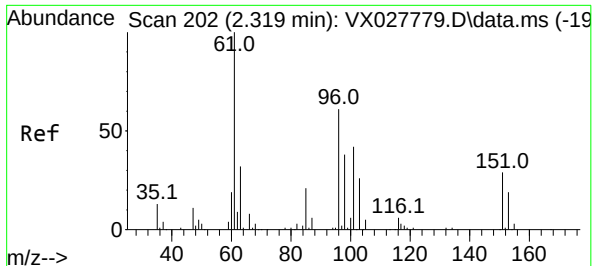
Tgt Ion:101 Resp: 4249  
Ion Ratio Lower Upper  
101 100  
85 44.7 33.5 50.3  
151 76.1 61.8 92.6



#11  
Tert butyl alcohol  
Concen: 0.346 ug/l  
RT: 2.934 min Scan# 303  
Delta R.T. -0.031 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion: 59 Resp: 68  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 2.033 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20220317

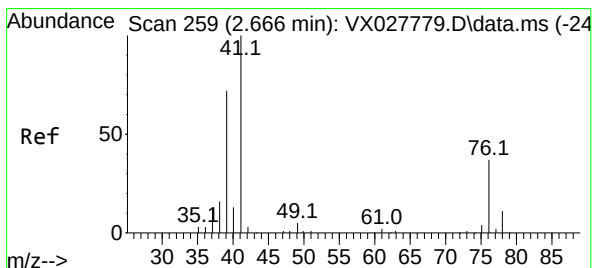
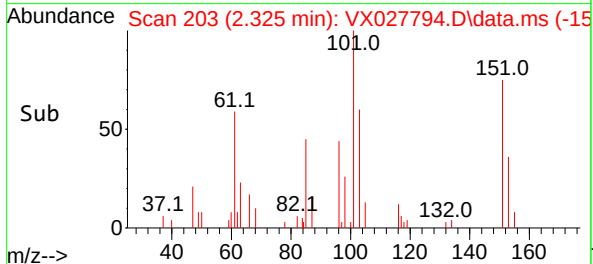
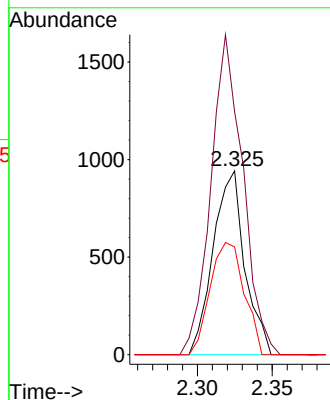
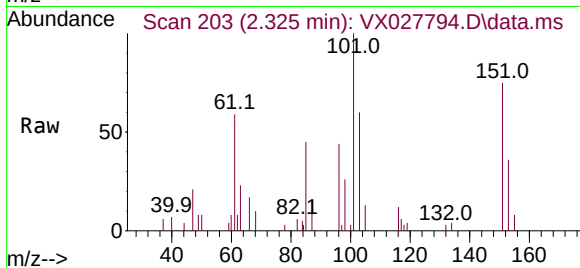
Tgt Ion: 96 Resp: 1385

Ion Ratio Lower Upper

96 100

61 132.3 124.6 187.0

98 58.7 51.0 76.4



#14

Allyl chloride

Concen: 0.545 ug/l

RT: 2.532 min Scan# 237

Delta R.T. -0.134 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

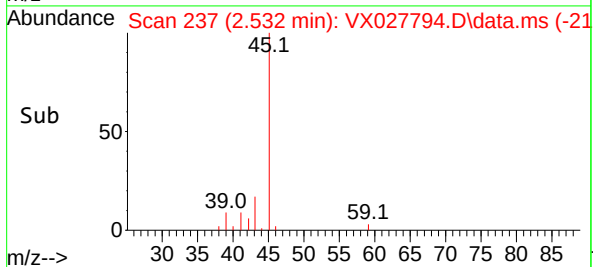
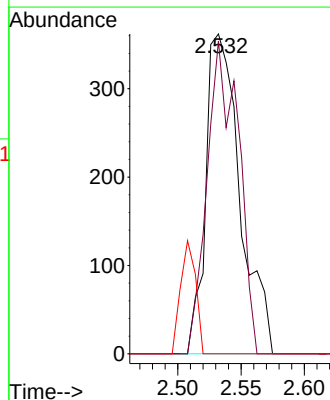
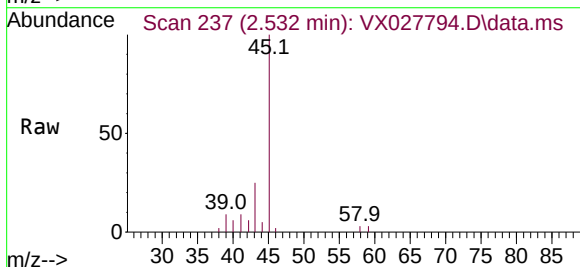
Tgt Ion: 41 Resp: 682

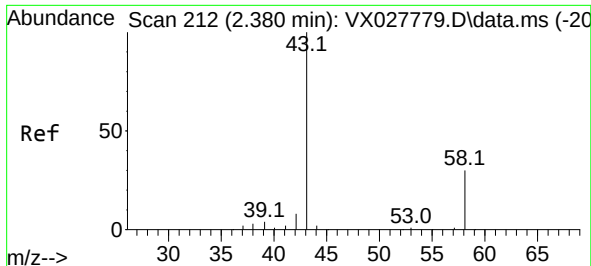
Ion Ratio Lower Upper

41 100

39 89.7 50.4 75.6#

76 0.0 32.7 49.1#

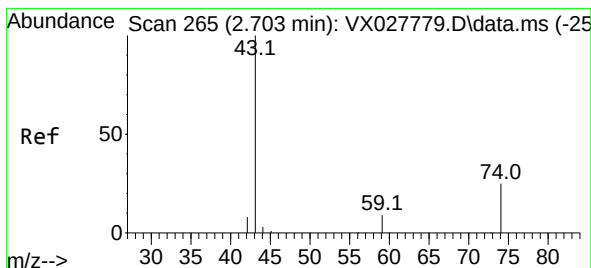
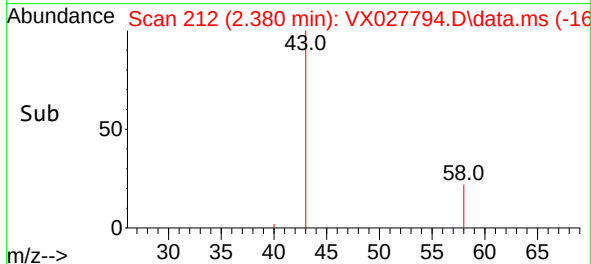
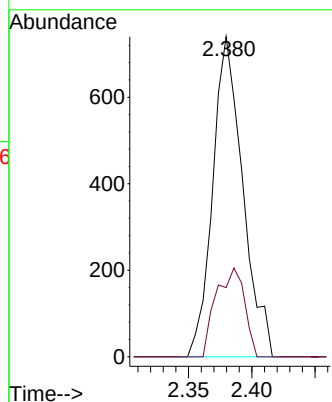
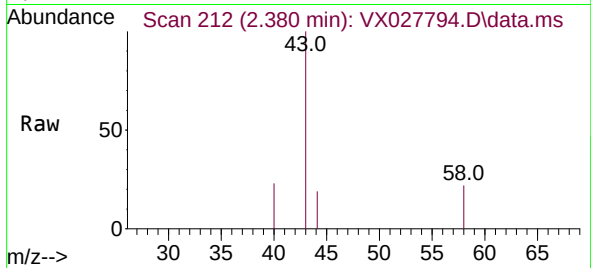




#16  
Acetone  
Concen: 2.696 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

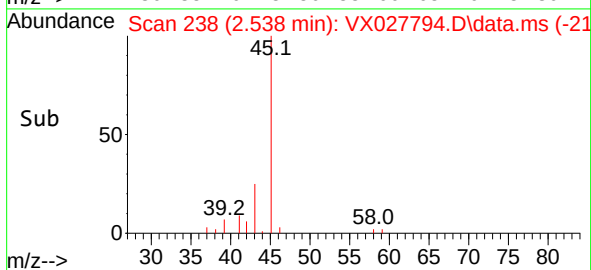
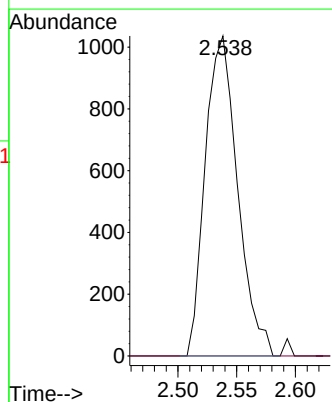
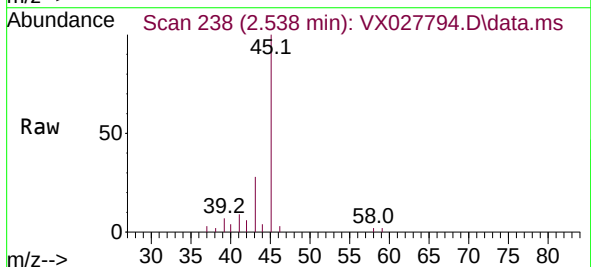
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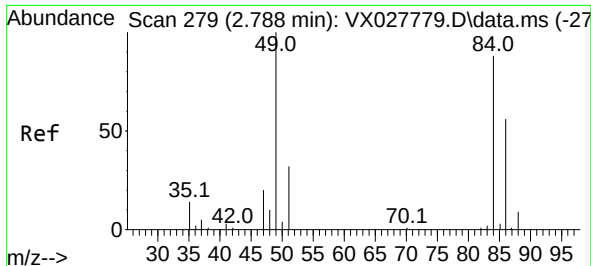
Tgt Ion: 43 Resp: 1221  
Ion Ratio Lower Upper  
43 100  
58 21.6 28.8 43.2#



#18  
Methyl Acetate  
Concen: 1.781 ug/l  
RT: 2.538 min Scan# 238  
Delta R.T. -0.165 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion: 43 Resp: 1988  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.8 34.2#





#20

Methylene Chloride

Concen: 0.281 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20220317

Tgt Ion: 84 Resp: 229

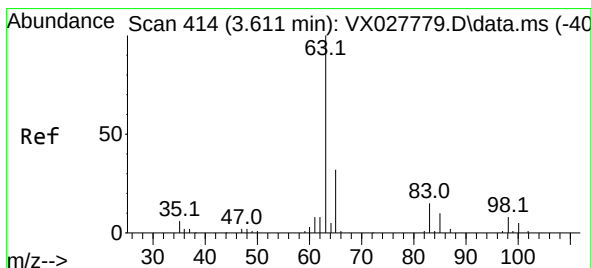
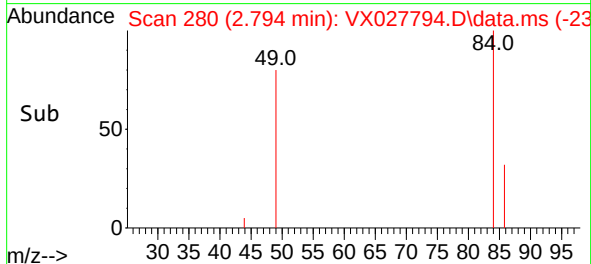
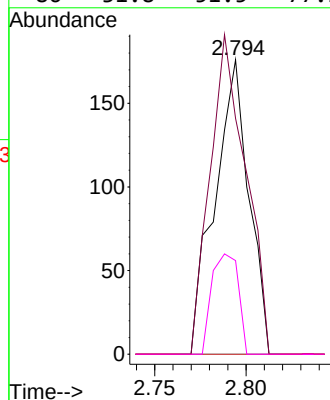
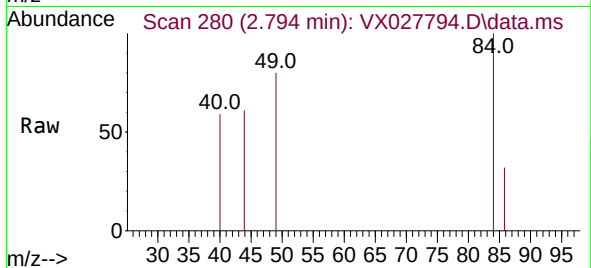
Ion Ratio Lower Upper

84 100

49 80.1 85.5 128.3#

51 0.0 26.6 39.8#

86 31.8 51.5 77.3#



#24

1,1-Dichloroethane

Concen: 0.457 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.000 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

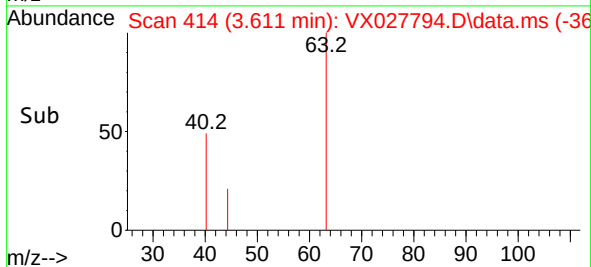
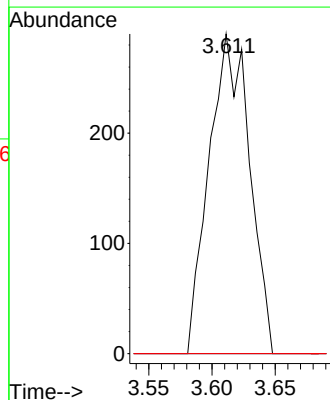
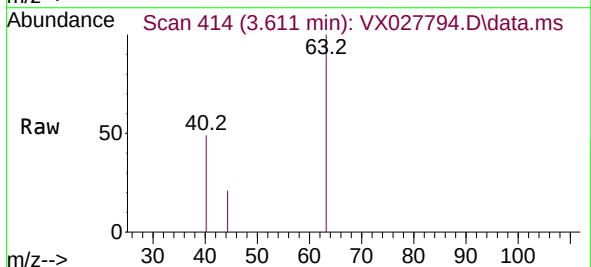
Tgt Ion: 63 Resp: 645

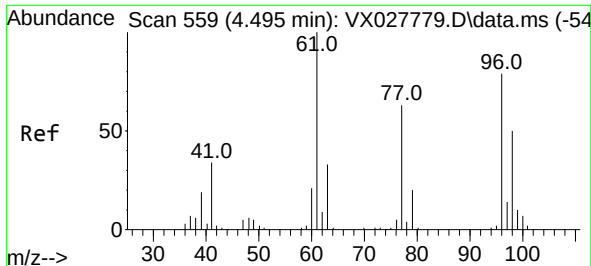
Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.7#

100 0.0 2.4 7.2#

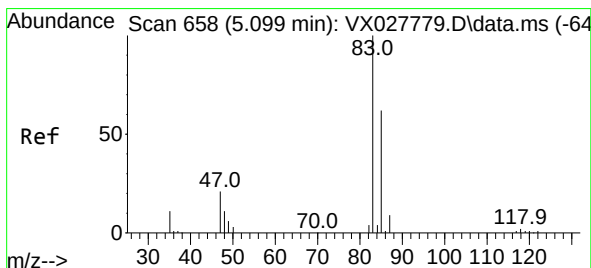
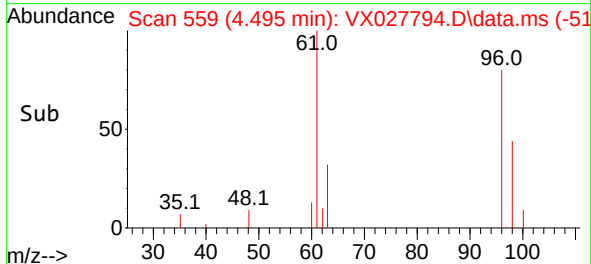
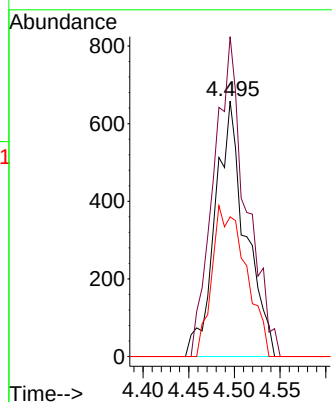
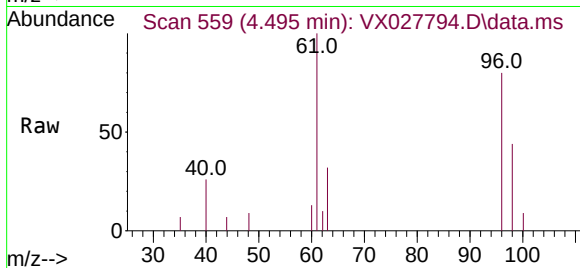




#27  
 cis-1,2-Dichloroethene  
 Concen: 1.706 ug/l  
 RT: 4.495 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VX027794.D  
 Acq: 29 Mar 2022 23:26

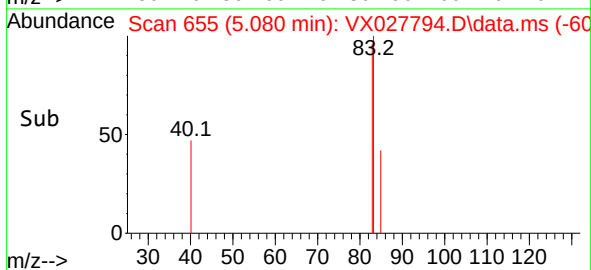
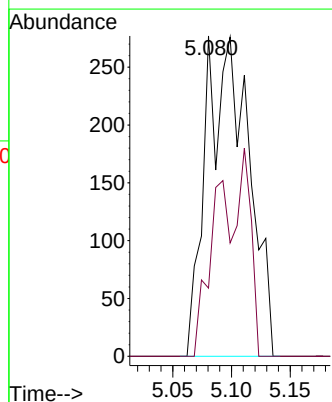
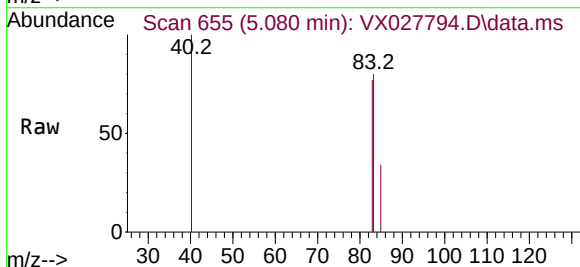
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW4-20220317

|             |            |       |       |
|-------------|------------|-------|-------|
| Tgt Ion: 96 | Resp: 1521 |       |       |
| Ion Ratio   | Lower      | Upper |       |
| 96          | 100        |       |       |
| 61          | 133.5      | 0.0   | 283.8 |
| 98          | 65.4       | 0.0   | 129.8 |

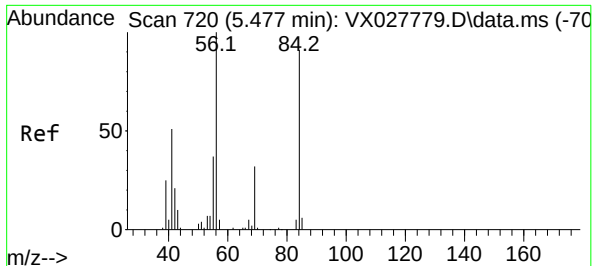


#30  
 Chloroform  
 Concen: 0.445 ug/l  
 RT: 5.080 min Scan# 655  
 Delta R.T. -0.019 min  
 Lab File: VX027794.D  
 Acq: 29 Mar 2022 23:26

|             |           |       |  |
|-------------|-----------|-------|--|
| Tgt Ion: 83 | Resp: 698 |       |  |
| Ion Ratio   | Lower     | Upper |  |
| 83 100      |           |       |  |
| 85 21.3     | 52.7      | 79.1# |  |



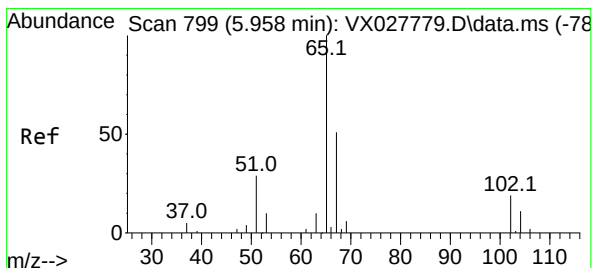
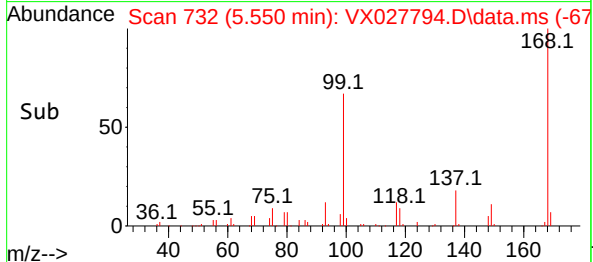
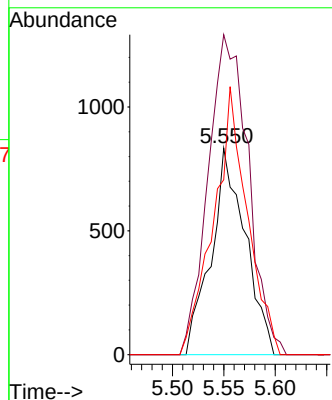
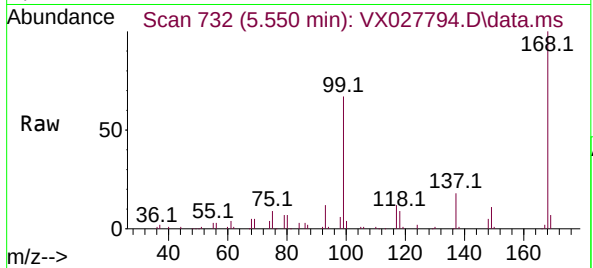




#31  
Cyclohexane  
Concen: 1.703 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

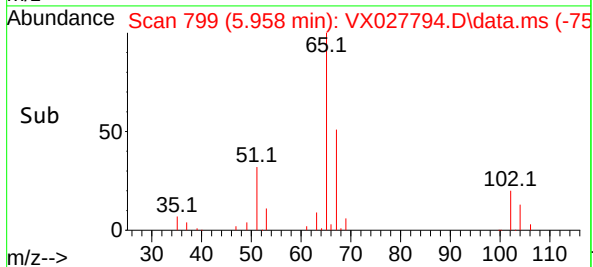
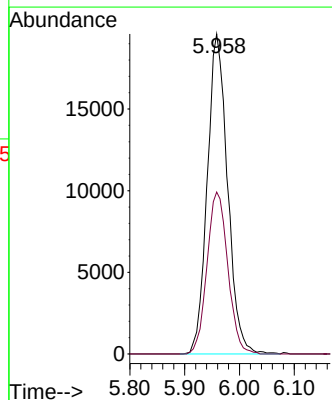
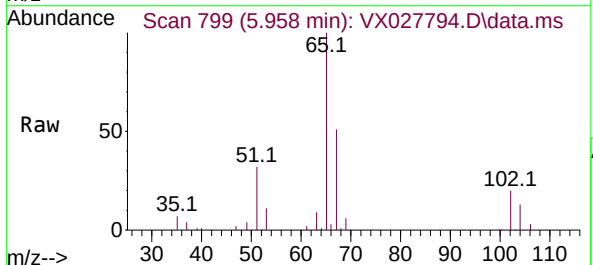
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

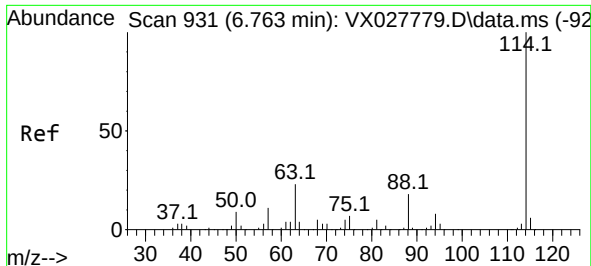
Tgt Ion: 56 Resp: 1926  
Ion Ratio Lower Upper  
56 100  
69 154.9 26.7 40.1#  
84 84.7 77.2 115.8



#33  
1,2-Dichloroethane-d4  
Concen: 49.057 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion: 65 Resp: 50193  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 107.4

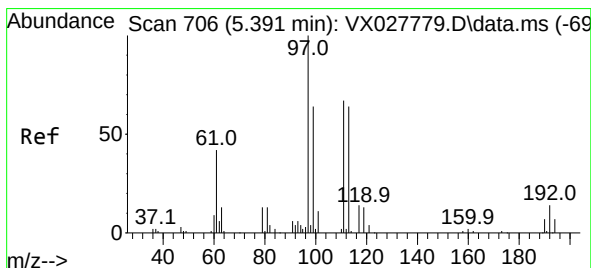
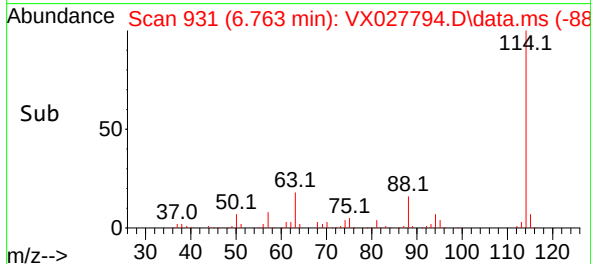
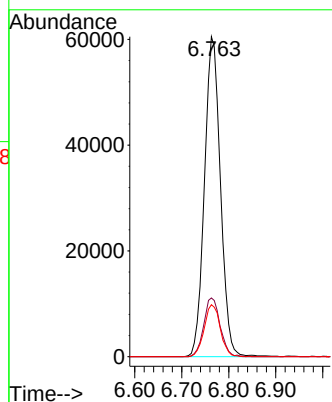
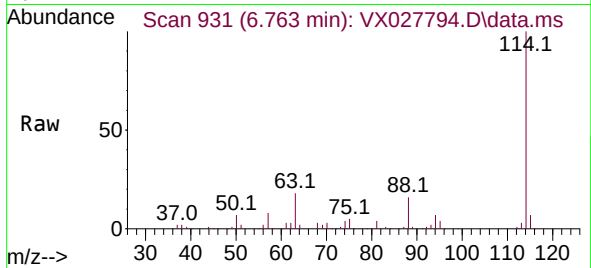




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

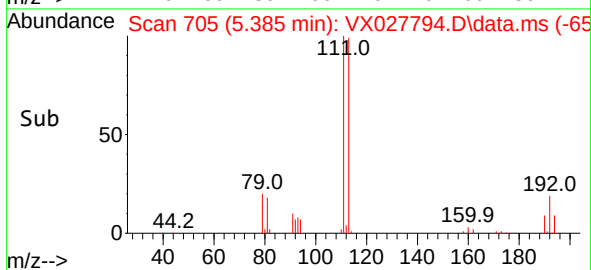
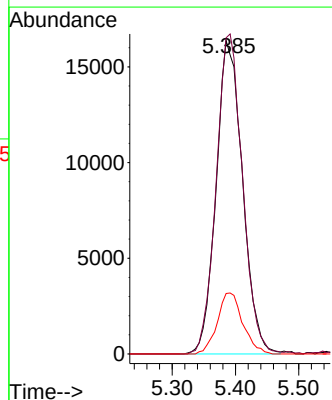
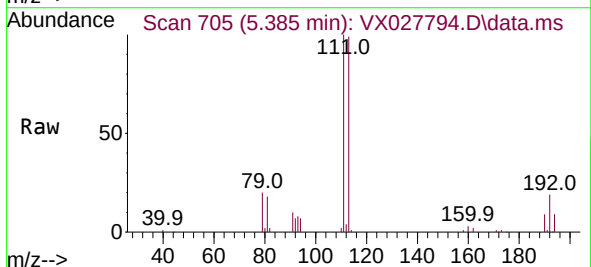
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

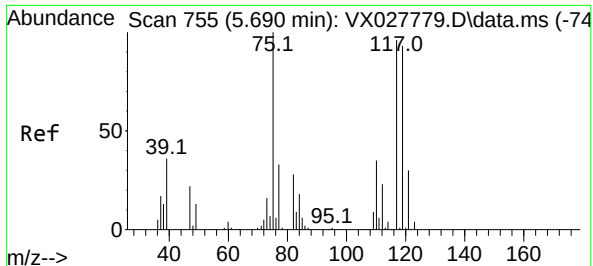
Tgt Ion:114 Resp: 143063  
Ion Ratio Lower Upper  
114 100  
63 18.4 0.0 36.8  
88 16.3 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 51.330 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion:113 Resp: 47400  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.8 124.2  
192 18.8 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.052 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20220317

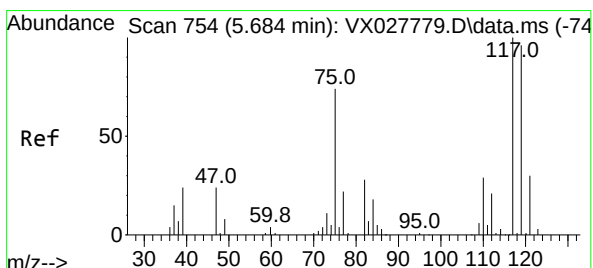
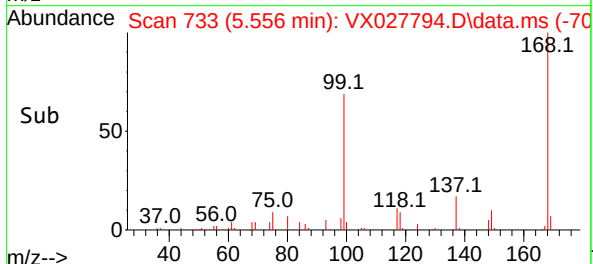
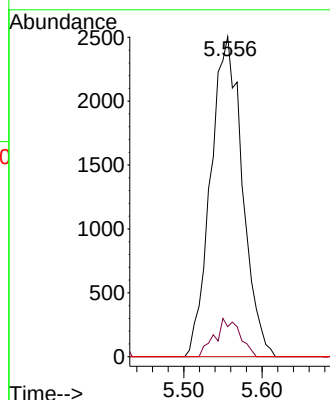
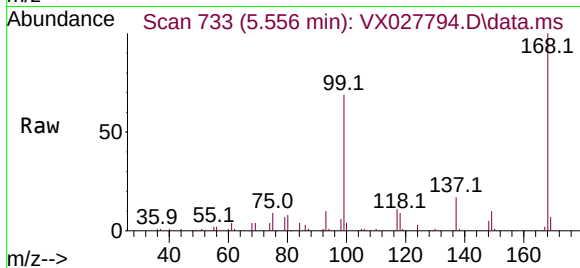
Tgt Ion: 75 Resp: 7039

Ion Ratio Lower Upper

75 100

110 9.3 18.3 54.8#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 0.396 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

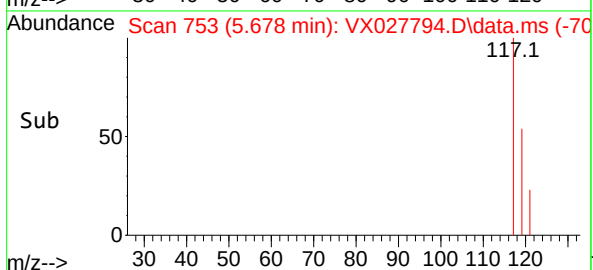
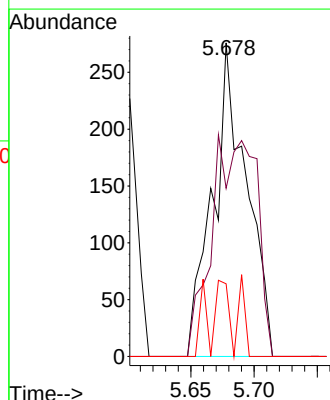
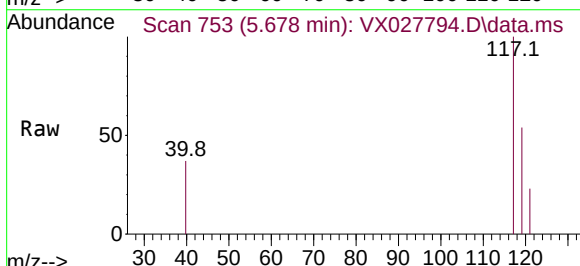
Tgt Ion: 117 Resp: 509

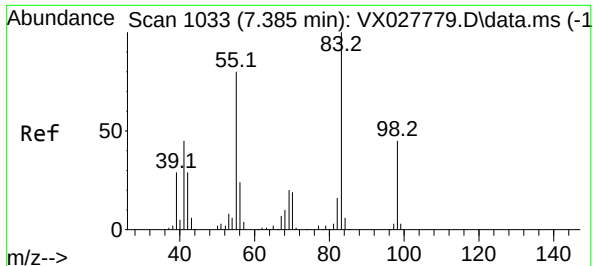
Ion Ratio Lower Upper

117 100

119 53.6 77.3 115.9#

121 23.2 24.2 36.2#





#39

Methylcyclohexane

Concen: 6.520 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20220317

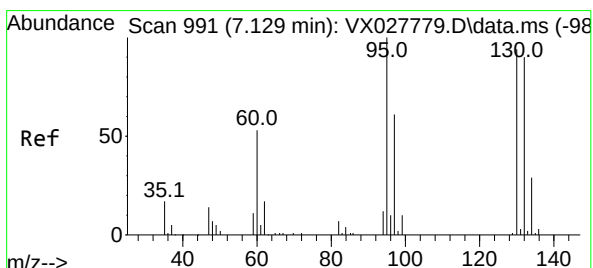
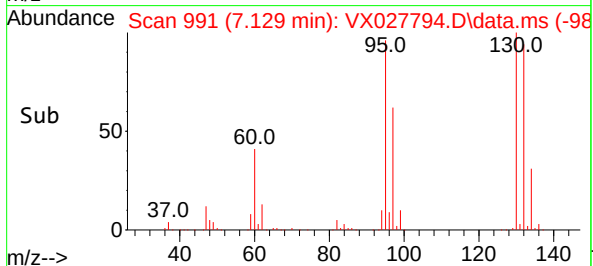
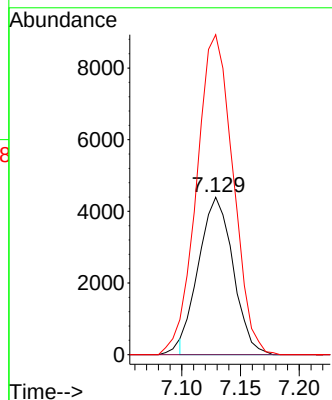
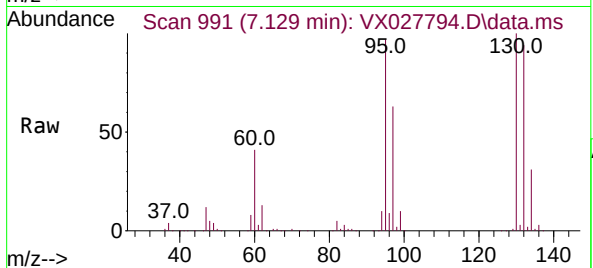
Tgt Ion: 83 Resp: 8924

Ion Ratio Lower Upper

83 100

55 0.0 54.6 81.8#

98 203.3 37.4 56.2#



#44

Trichloroethene

Concen: 798.682 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX027794.D

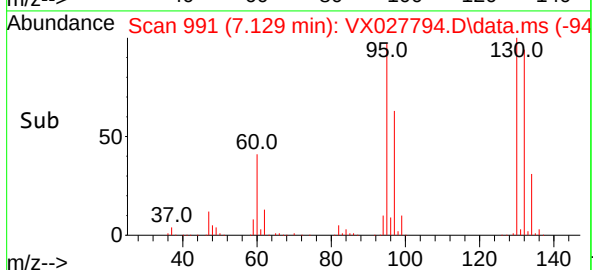
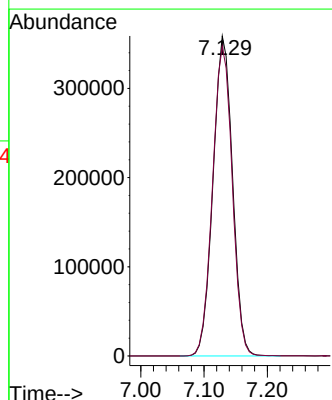
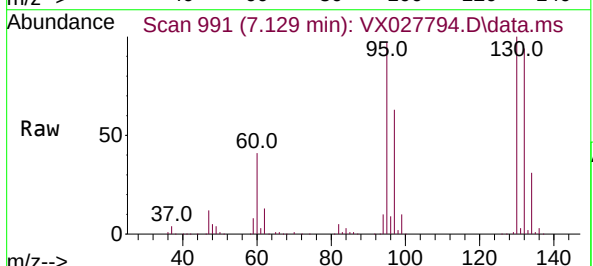
Acq: 29 Mar 2022 23:26

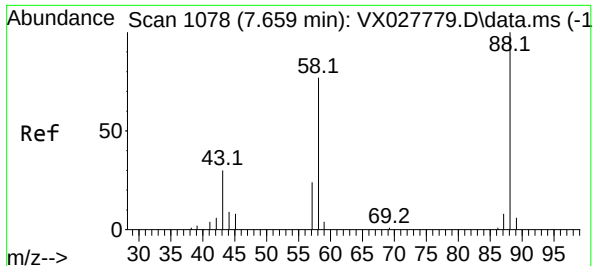
Tgt Ion:130 Resp: 765029

Ion Ratio Lower Upper

130 100

95 96.7 0.0 188.8





#49

1,4-Dioxane

Concen: 14.639 ug/l

RT: 7.678 min Scan# 1078

Delta R.T. 0.019 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

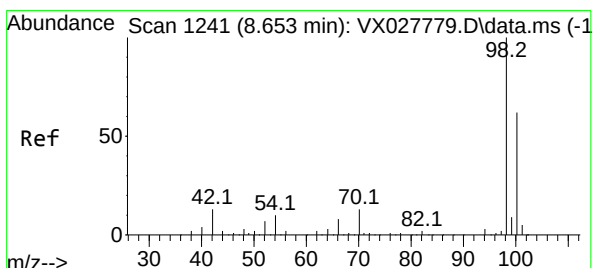
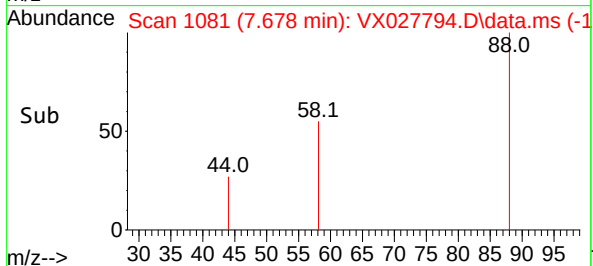
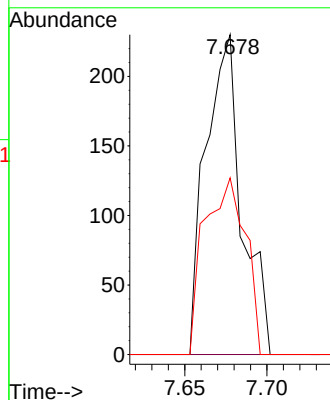
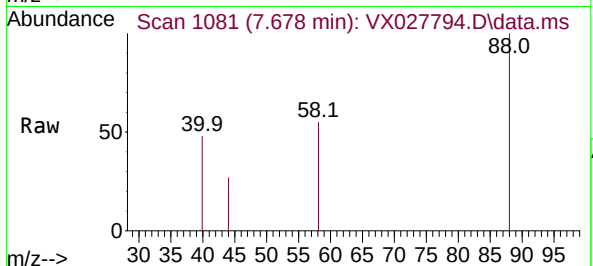
Instrument :

MSVOA\_X

ClientSampleId :

RW4-20220317

|             |                |
|-------------|----------------|
| Tgt Ion: 88 | Resp: 350      |
| Ion Ratio   | Lower Upper    |
| 88          | 100            |
| 43          | 0.0 21.9 32.9# |
| 58          | 62.9 53.7 80.5 |



#50

Toluene-d8

Concen: 51.547 ug/l

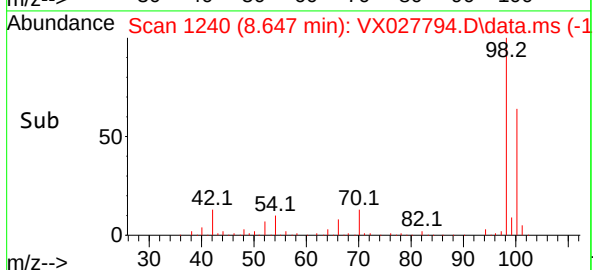
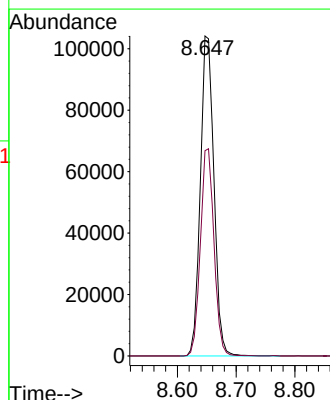
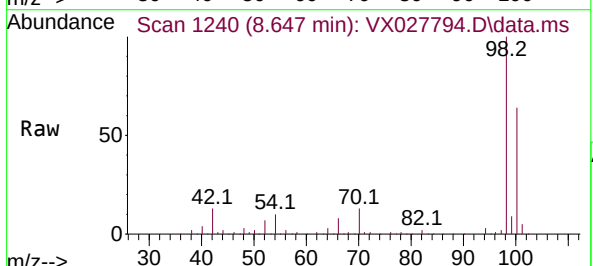
RT: 8.647 min Scan# 1240

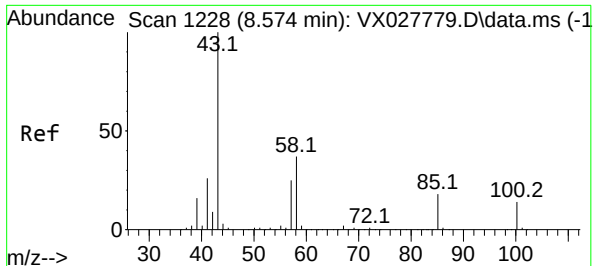
Delta R.T. -0.006 min

Lab File: VX027794.D

Acq: 29 Mar 2022 23:26

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 167480   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 64.8 52.6 78.8 |

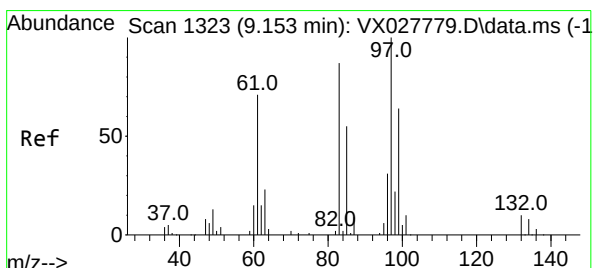
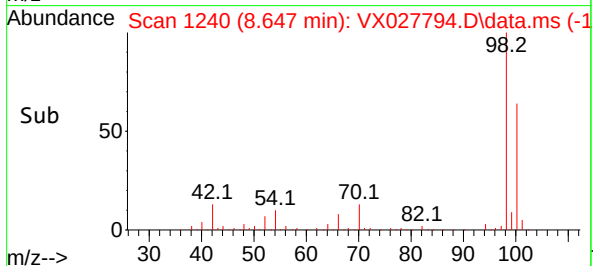
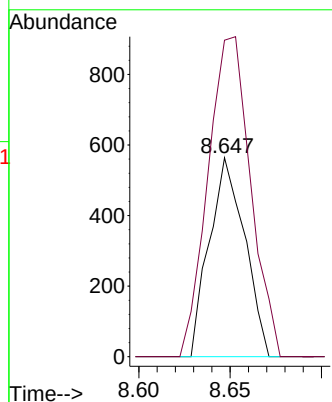
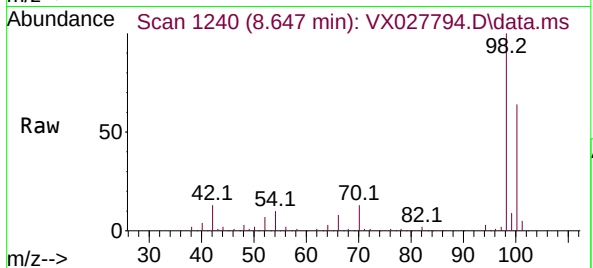




#51  
4-Methyl-2-Pentanone  
Concen: 0.475 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

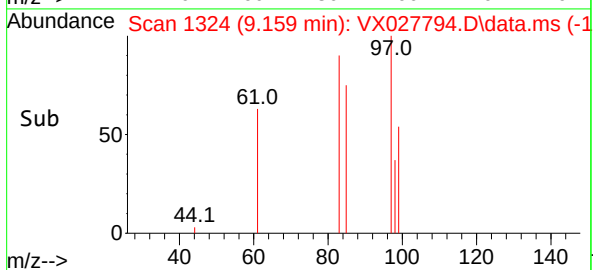
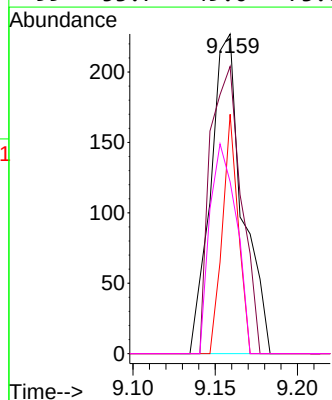
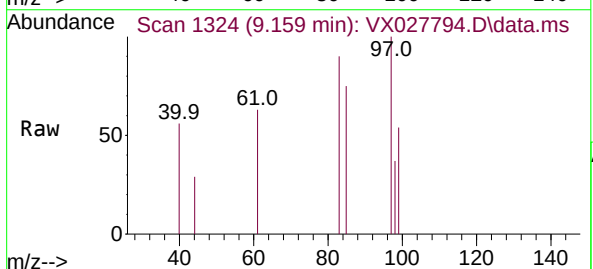
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

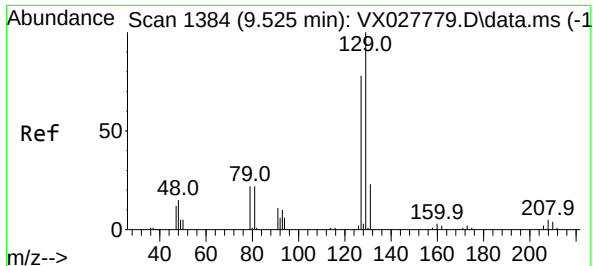
Tgt Ion: 43 Resp: 761  
Ion Ratio Lower Upper  
43 100  
58 193.0 36.1 54.1#



#55  
1,1,2-Trichloroethane  
Concen: 0.311 ug/l  
RT: 9.159 min Scan# 1324  
Delta R.T. 0.006 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion: 97 Resp: 306  
Ion Ratio Lower Upper  
97 100  
83 89.9 66.2 99.4  
85 74.9 42.9 64.3#  
99 53.7 49.0 73.6

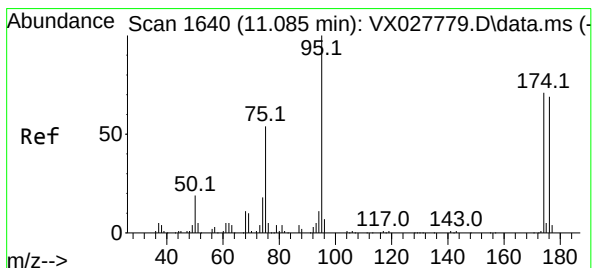
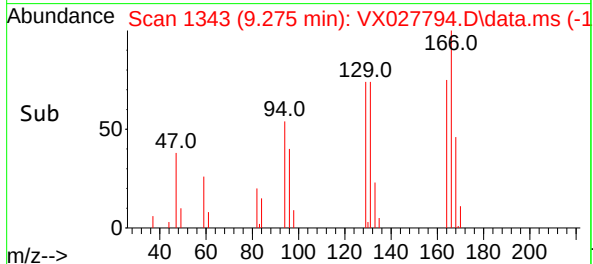
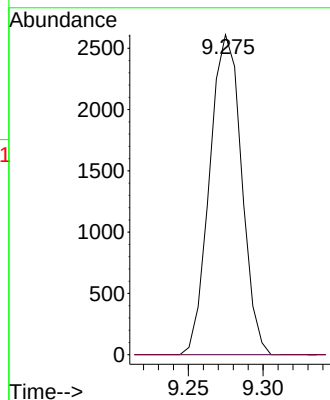
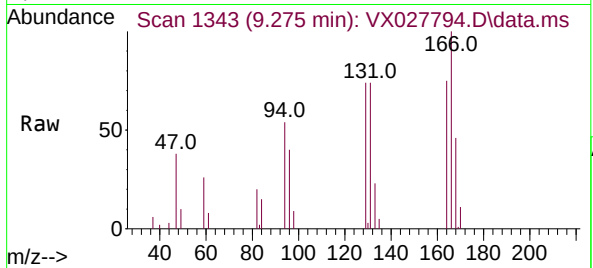




#60  
Dibromochloromethane  
Concen: 3.793 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

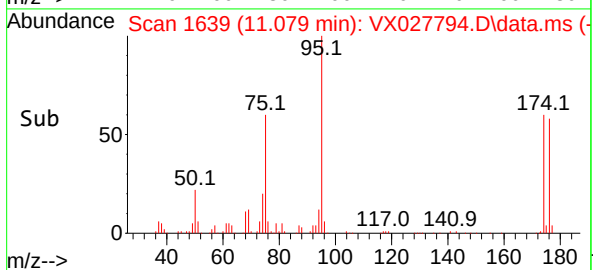
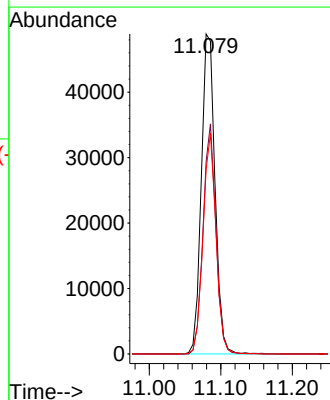
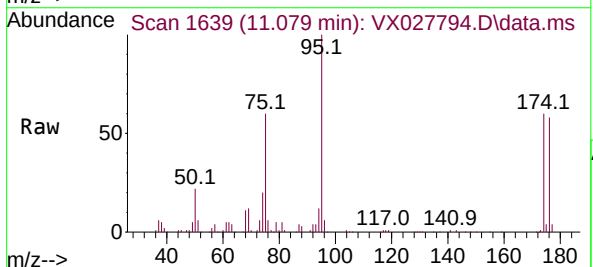
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

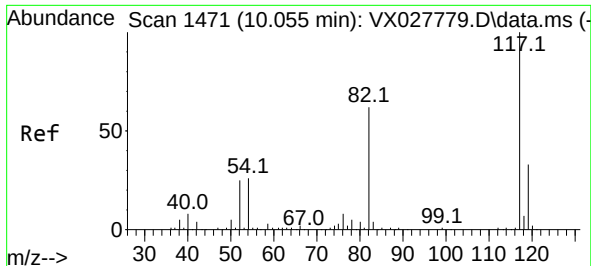
Tgt Ion:129 Resp: 3873  
Ion Ratio Lower Upper  
129 100  
127 0.0 40.3 120.8#



#62  
4-Bromofluorobenzene  
Concen: 47.003 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion: 95 Resp: 64898  
Ion Ratio Lower Upper  
95 100  
174 67.6 0.0 163.0  
176 65.3 0.0 155.0

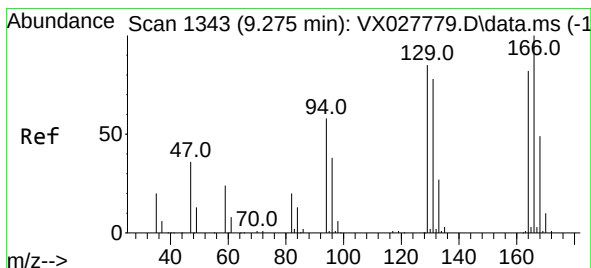
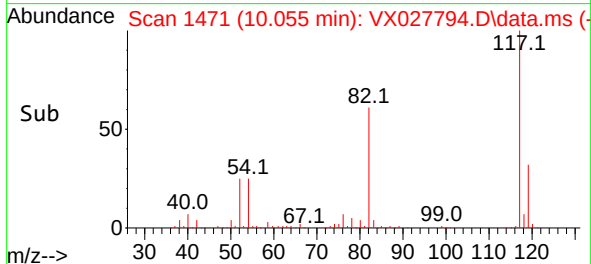
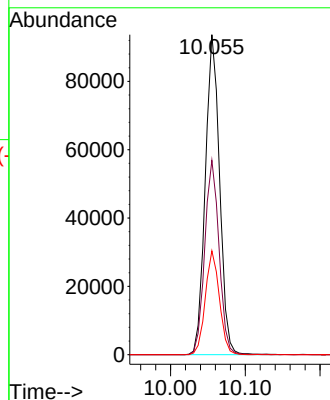
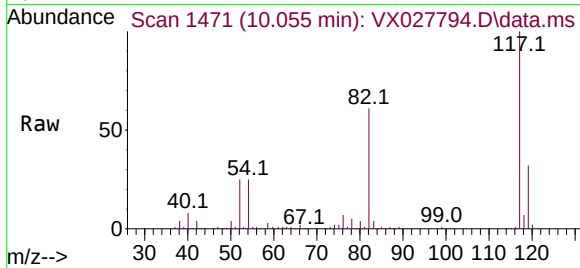




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

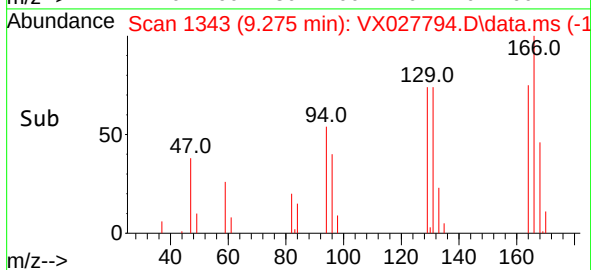
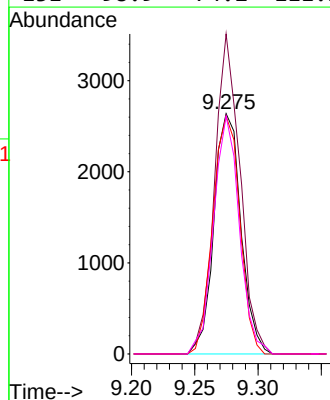
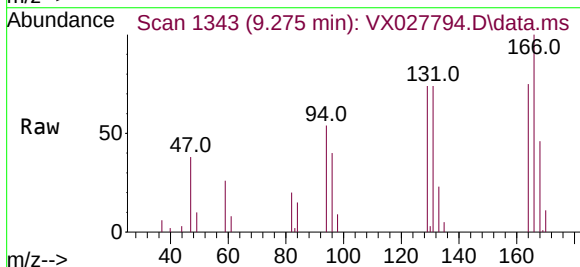
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW4-20220317

Tgt Ion:117 Resp: 124378  
Ion Ratio Lower Upper  
117 100  
82 60.8 41.8 62.8  
119 32.5 24.8 37.2

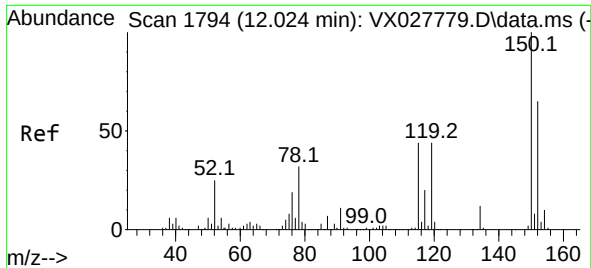


#64  
Tetrachloroethene  
Concen: 4.642 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX027794.D  
Acq: 29 Mar 2022 23:26

Tgt Ion:164 Resp: 3915  
Ion Ratio Lower Upper  
164 100  
166 133.1 101.2 151.8  
129 98.9 73.0 109.4  
131 98.9 74.2 111.2



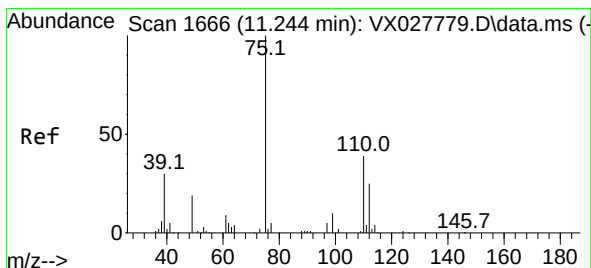
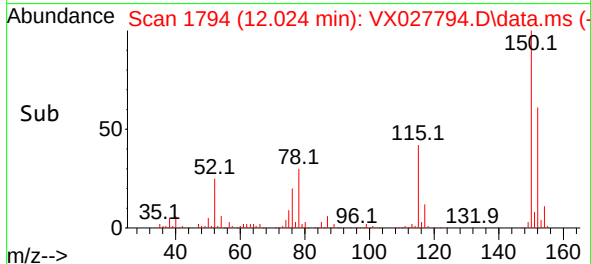
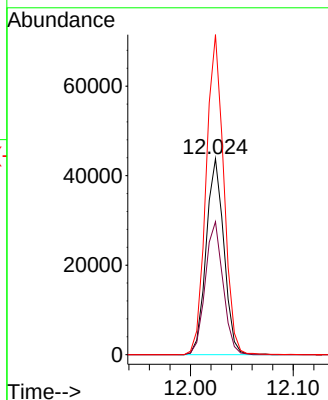
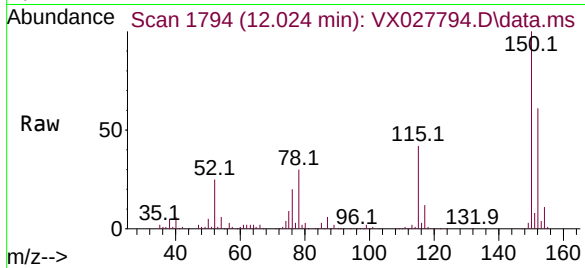




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX027794.D  
 Acq: 29 Mar 2022 23:26

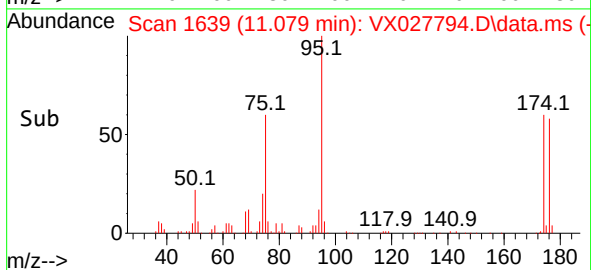
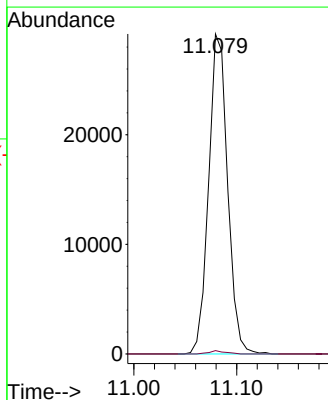
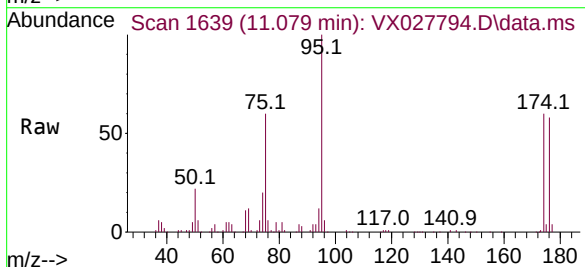
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW4-20220317

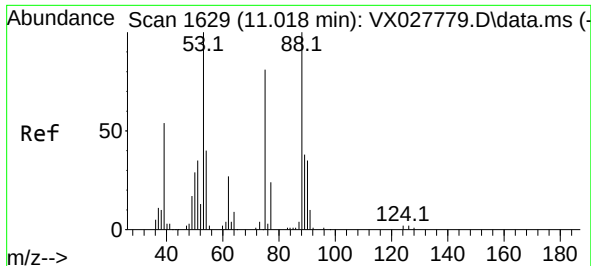
Tgt Ion:152 Resp: 52533  
 Ion Ratio Lower Upper  
 152 100  
 115 67.9 37.5 112.7  
 150 162.6 0.0 338.2



#76  
 1,2,3-Trichloropropane  
 Concen: 30.418 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX027794.D  
 Acq: 29 Mar 2022 23:26

Tgt Ion: 75 Resp: 37485  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 19.4 58.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 88.552 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX027794.D

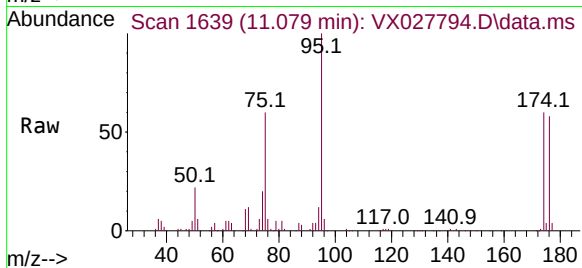
Acq: 29 Mar 2022 23:26

Instrument :

MSVOA\_X

ClientSampleId :

RW4-20220317



Tgt Ion: 75 Resp: 37485

Ion Ratio Lower Upper

75 100

53 0.0 69.0 103.4#

89 0.0 37.0 55.6#

