

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090820\  
 Data File : VX018269.D  
 Acq On : 08 Sep 2020 12:55  
 Operator : JC/SP  
 Sample : L3925-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-4

Quant Time: Sep 09 01:20:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 451315   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 711630   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 682281   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 342756   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 318361   | 50.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.62% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 248198   | 51.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.42% |          |
| 50) Toluene-d8              | 8.70  | 98   | 862110   | 47.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.52%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 327881   | 46.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.34%  |          |

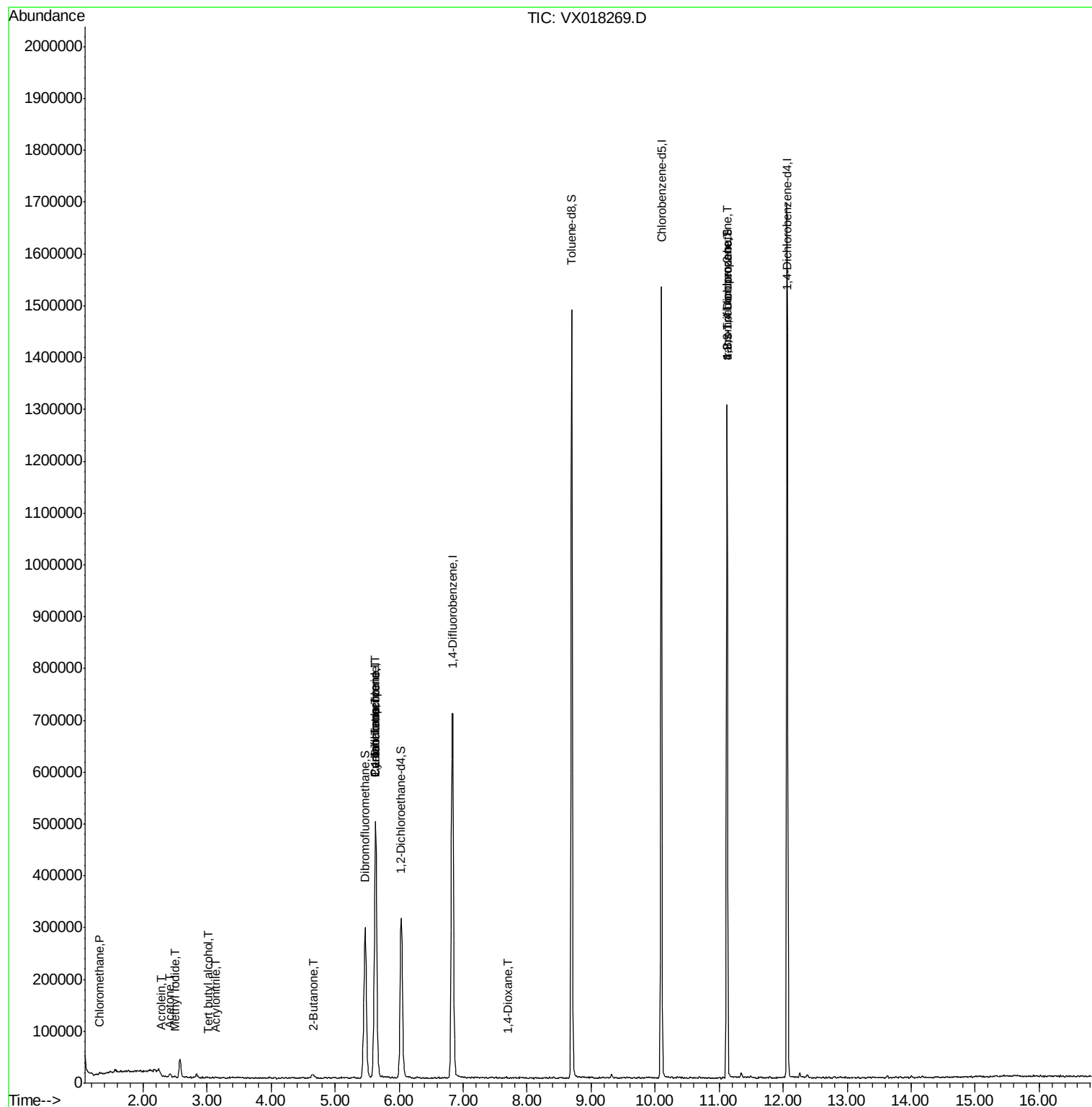
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 2102     | 0.363     | ug/l # | 88     |
| 10) Methyl Iodide              | 2.50  | 142  | 892      | 5.462     | ug/l # | 84     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 308      | 0.253     | ug/l # | 71     |
| 13) Acrolein                   | 2.28  | 56   | 925      | 1.831     | ug/l # | 34     |
| 15) Acrylonitrile              | 3.13  | 53   | 672      | 0.243     | ug/l # | 77     |
| 16) Acetone                    | 2.42  | 43   | 7311     | 2.995     | ug/l # | 79     |
| 20) Methylene Chloride         | 2.84  | 84   | 3604     | Below Cal | #      | 82     |
| 25) 2-Butanone                 | 4.66  | 43   | 1212     | 0.302     | ug/l # | 89     |
| 31) Cyclohexane                | 5.63  | 56   | 9977     | 1.330     | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 34138    | 5.201     | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 47798    | 6.462     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 229      | 2.062     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 164797   | 21.613    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 164797   | 58.374    | ug/l # | 12     |

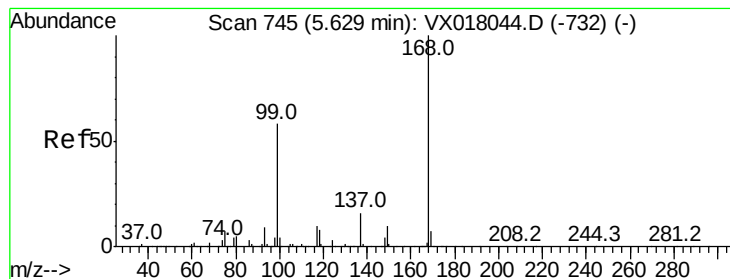
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

Quant Time: Sep 09 01:20:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :

MSVOA\_X

ClientSampleId :

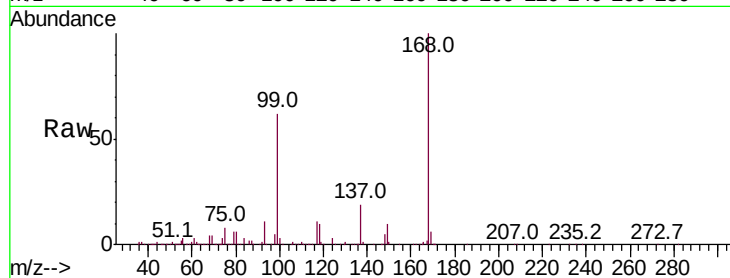
STORAGE-BLANK-WATER-REF-4

Tot Ion:168 Resp: 451315

Ion Ratio Lower Upper

168 100

99 62.3 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

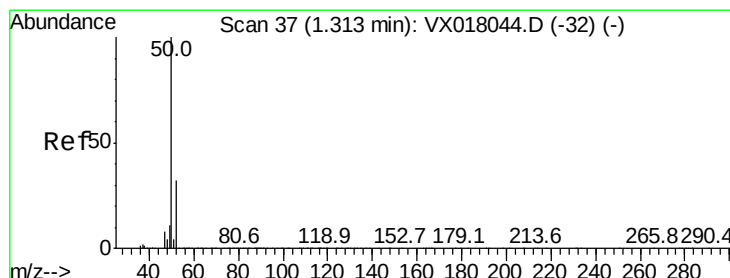
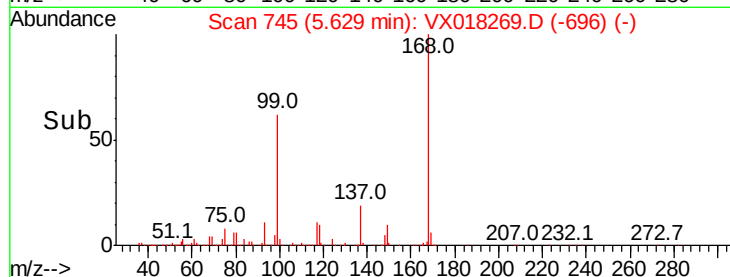
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.363 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX018269.D

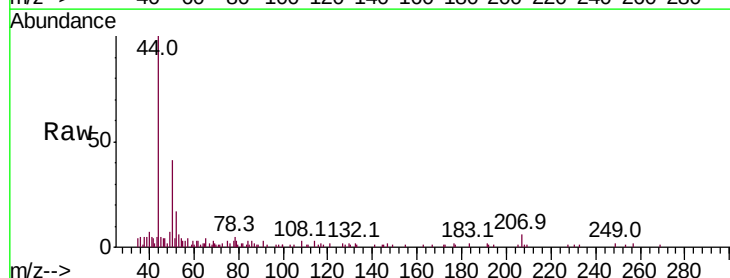
Acq: 08 Sep 2020 12:55

Tgt Ion: 50 Resp: 2102

Ion Ratio Lower Upper

50 100

52 38.3 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2500

2000

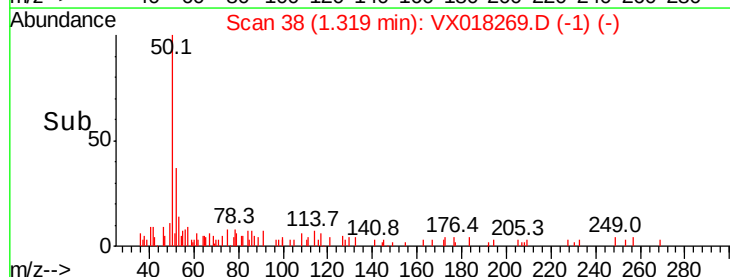
1500

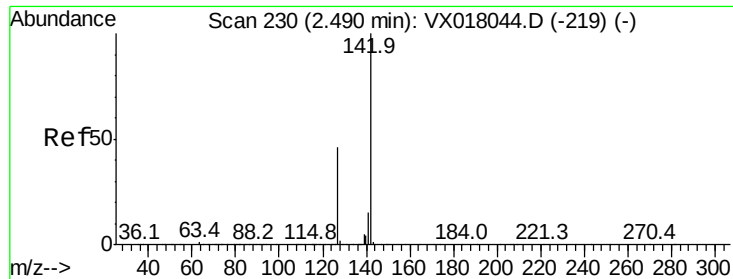
1000

500

0

Time-->

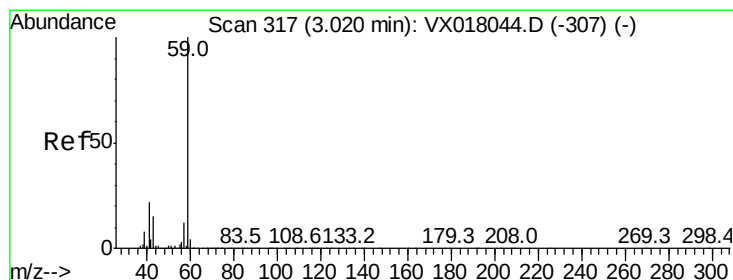
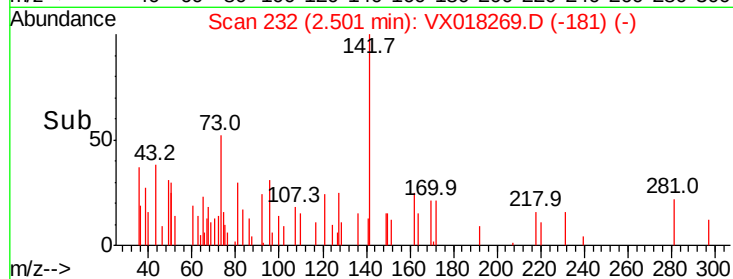
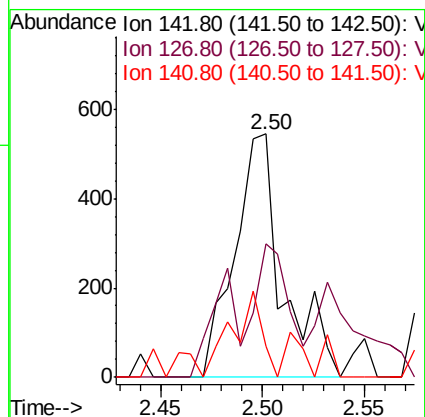
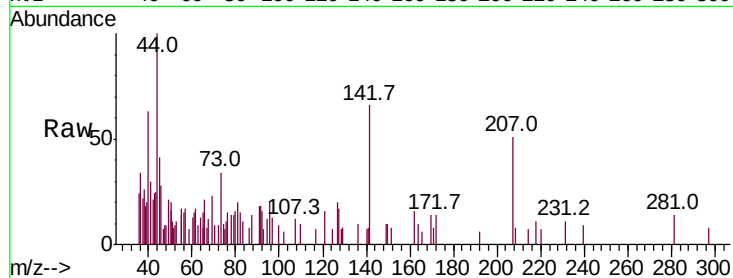




#10  
Methyl Iodide  
Concen: 5.462 ug/l  
RT: 2.50 min Scan# 232  
Delta R.T. 0.01 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

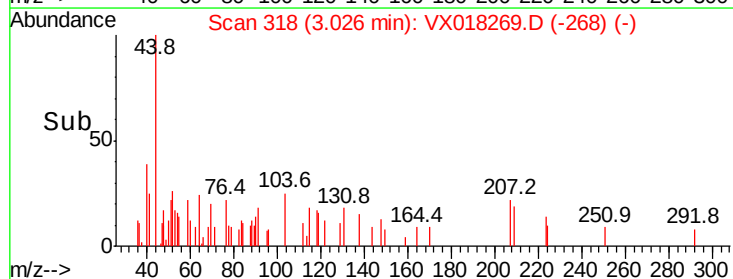
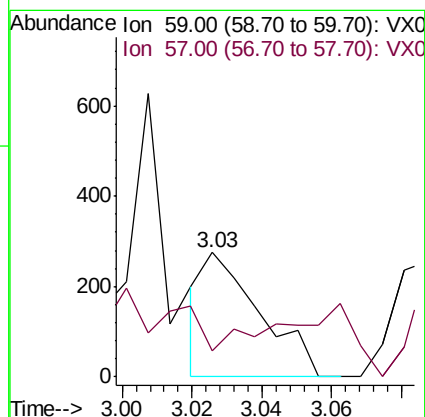
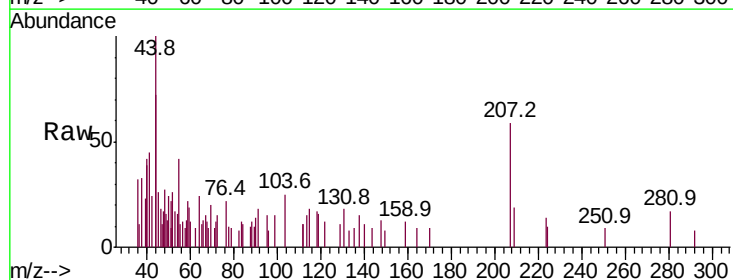
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

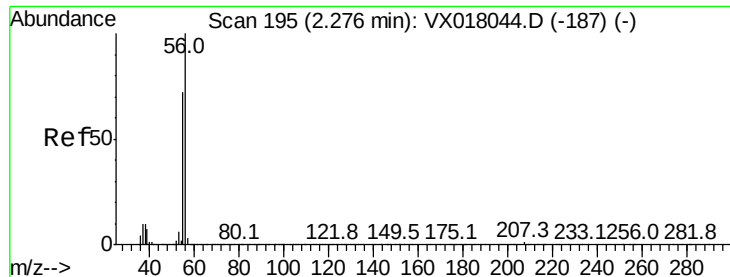
Tot Ion:142 Resp: 892  
Ion Ratio Lower Upper  
142 100  
127 38.6 37.0 55.6  
141 26.5 11.5 17.3#



#11  
Tert butyl alcohol  
Concen: 0.253 ug/l  
RT: 3.03 min Scan# 318  
Delta R.T. 0.01 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

Tgt Ion: 59 Resp: 308  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#





#13

Acrolein

Concen: 1.831 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :

MSVOA\_X

ClientSampleId :

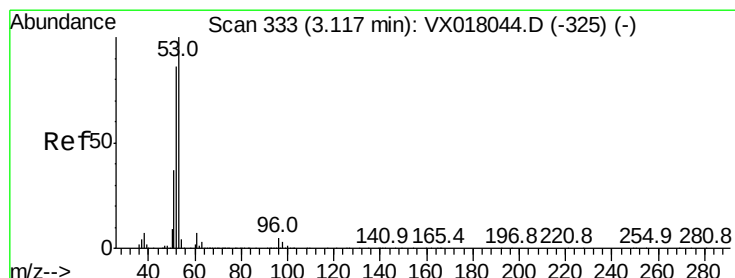
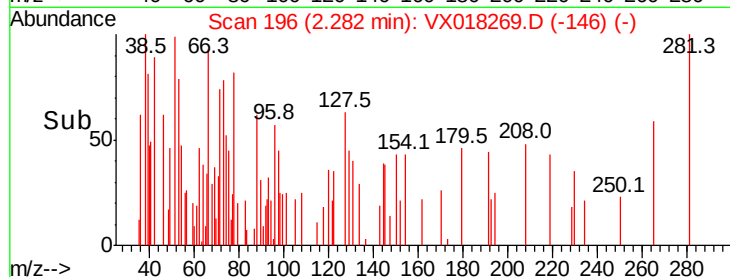
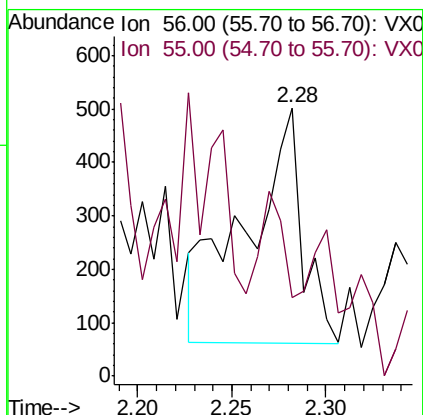
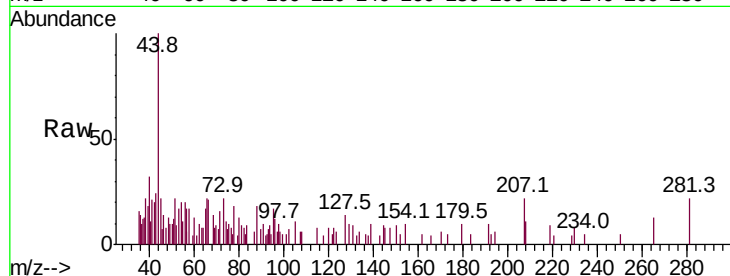
STORAGE-BLANK-WATER-REF-4

Tot Ion: 56 Resp: 925

Ion Ratio Lower Upper

56 100

55 16.4 57.0 85.6#



#15

Acrylonitrile

Concen: 0.243 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

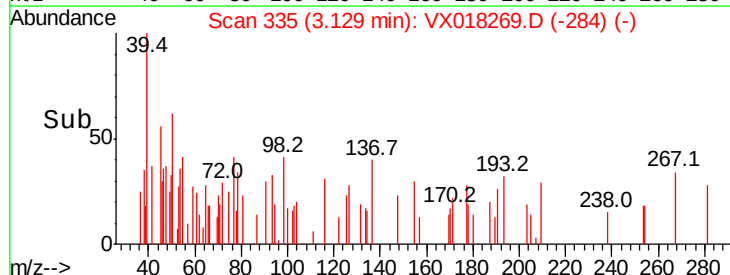
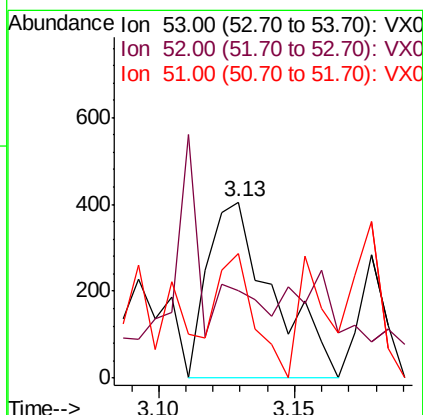
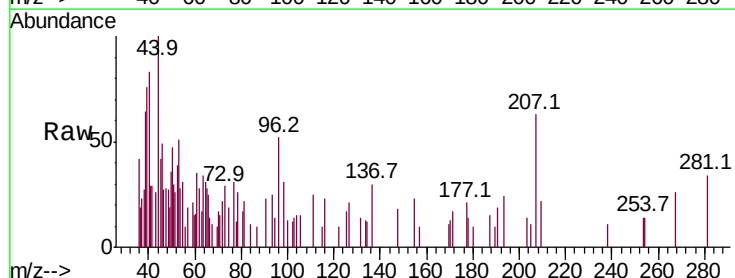
Tgt Ion: 53 Resp: 672

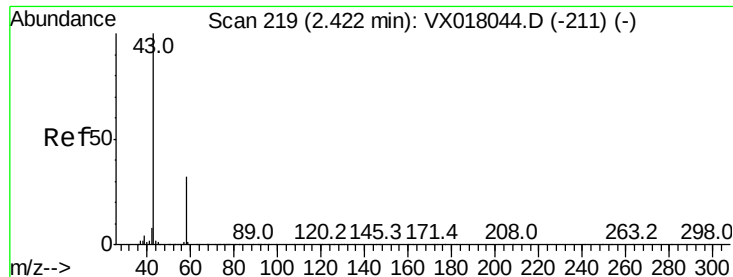
Ion Ratio Lower Upper

53 100

52 56.8 66.9 100.3#

51 39.4 28.7 43.1

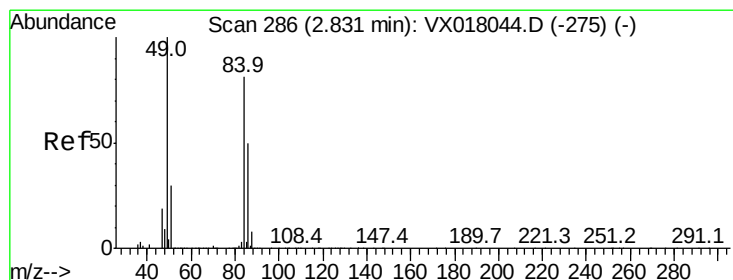
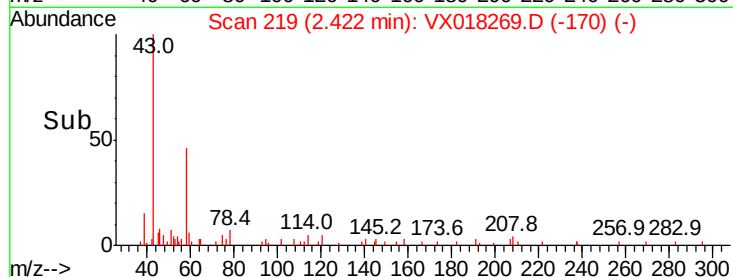
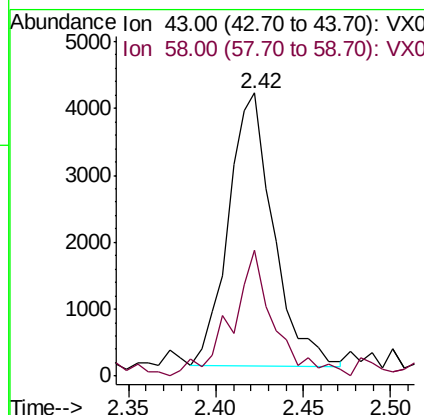
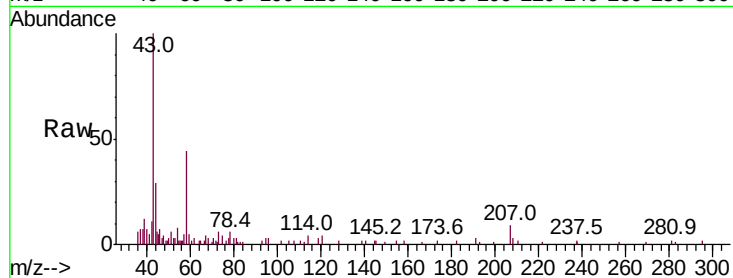




#16  
Acetone  
Concen: 2.995 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. -0.00 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

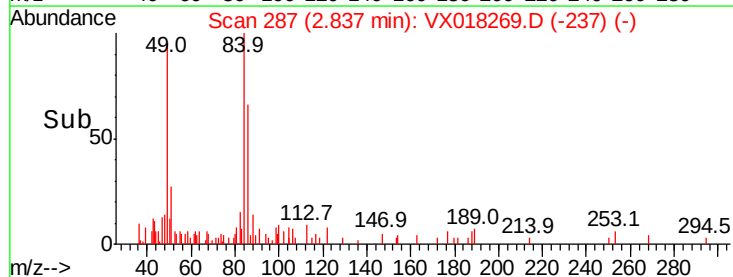
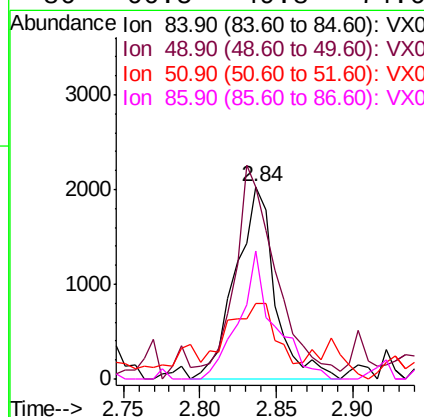
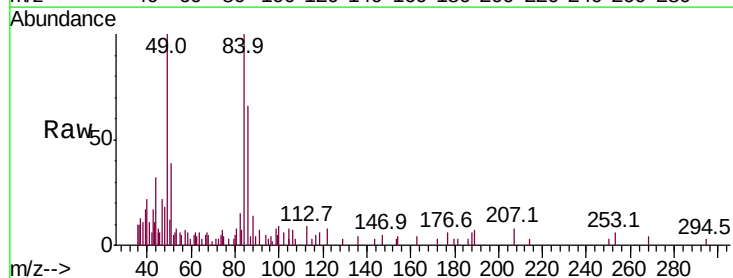
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

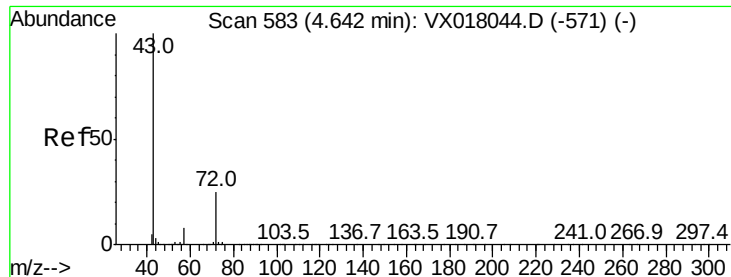
Tot Ion: 43 Resp: 7311  
Ion Ratio Lower Upper  
43 100  
58 43.9 25.5 38.3#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.84 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

Tgt Ion: 84 Resp: 3604  
Ion Ratio Lower Upper  
84 100  
49 96.2 98.6 148.0#  
51 27.1 29.6 44.4#  
86 66.5 49.8 74.6

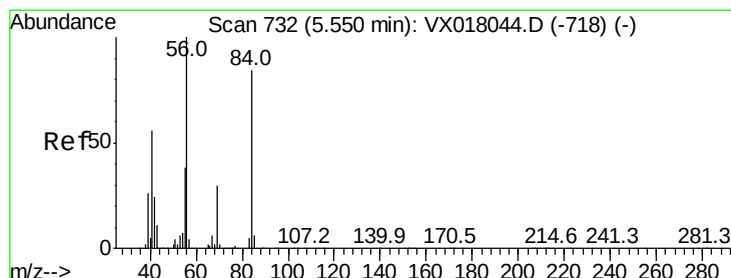
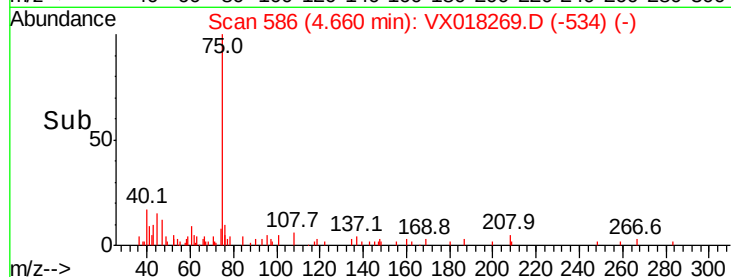
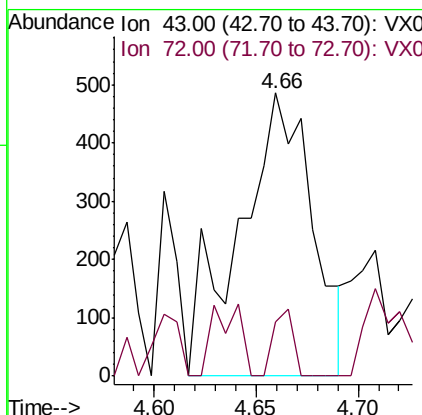
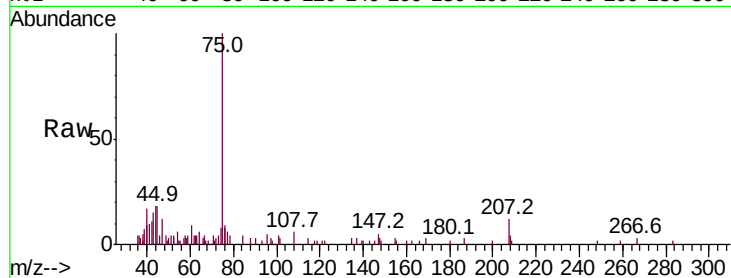




#25  
2-Butanone  
Concen: 0.302 ug/l  
RT: 4.66 min Scan# 586  
Delta R.T. 0.02 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

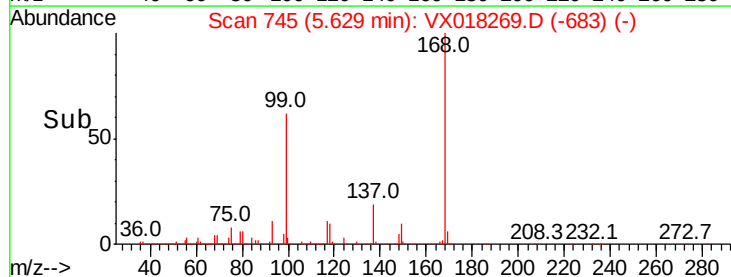
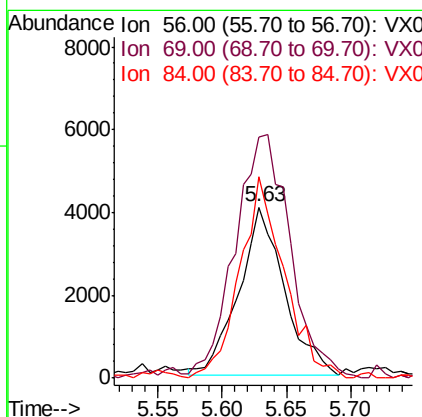
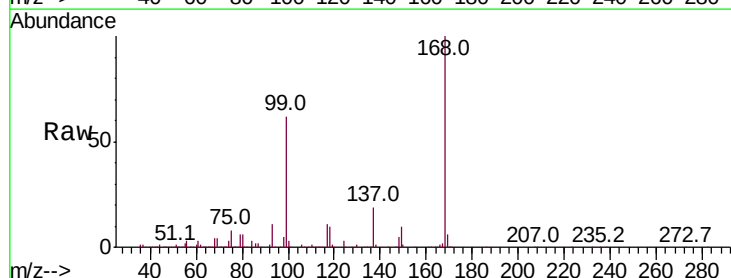
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

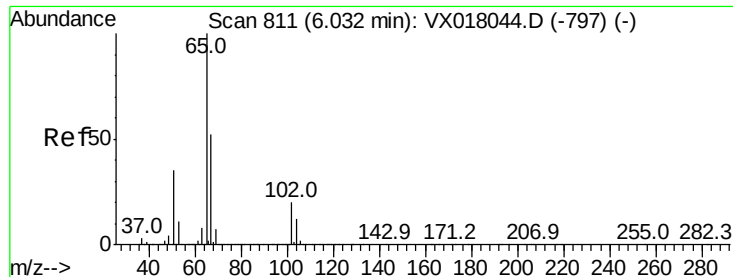
Tot Ion: 43 Resp: 1212  
Ion Ratio Lower Upper  
43 100  
72 19.1 19.8 29.6#



#31  
Cyclohexane  
Concen: 1.330 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

Tgt Ion: 56 Resp: 9977  
Ion Ratio Lower Upper  
56 100  
69 141.2 23.9 35.9#  
84 120.2 67.0 100.4#





#33

1,2-Dichloroethane-d4

Concen: 50.812 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

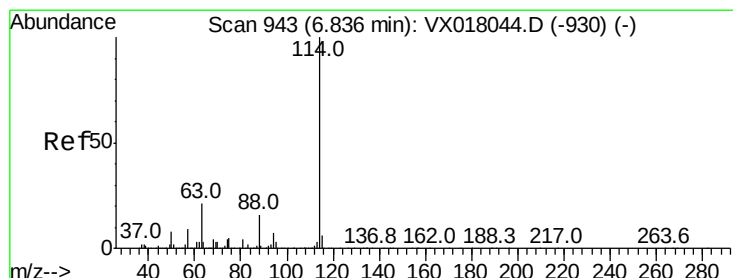
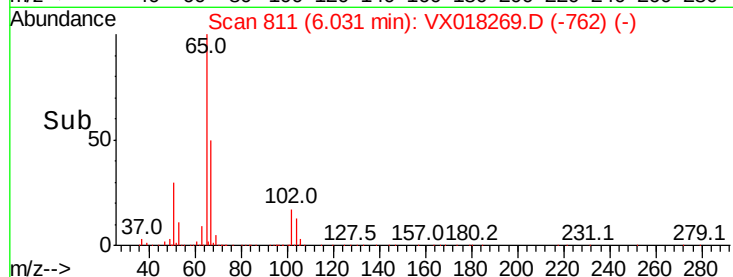
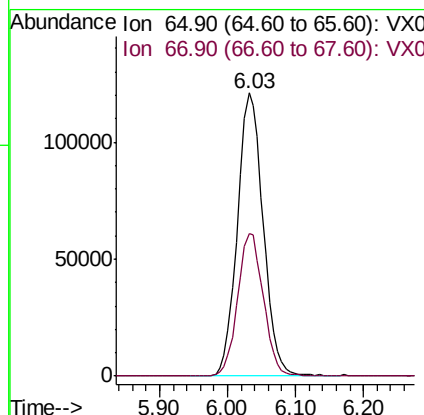
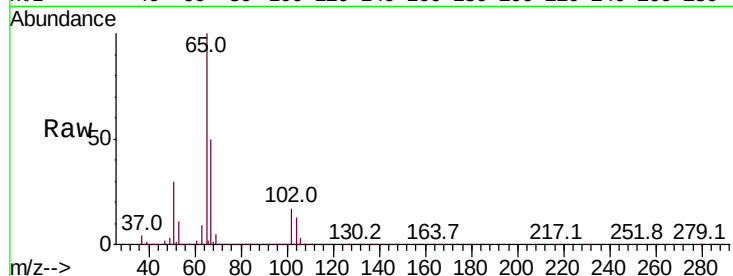
Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :  
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STORAGE-BLANK-WATER-REF-4

Tot Ion: 65 Resp: 318361

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 50.3  | 0.0   | 105.8 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

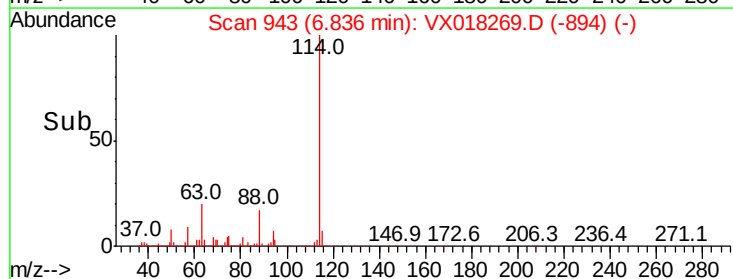
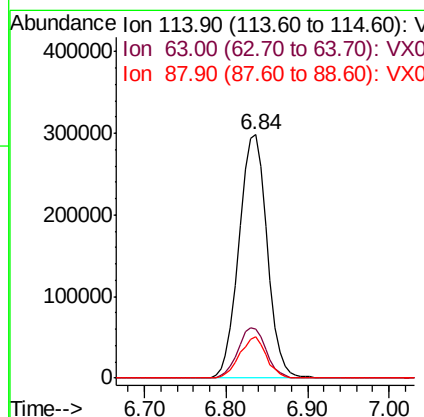
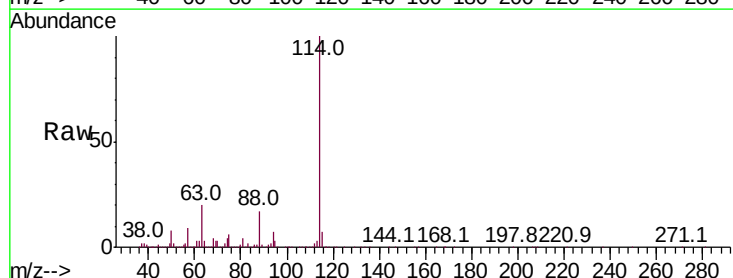
Delta R.T. -0.00 min

Lab File: VX018269.D

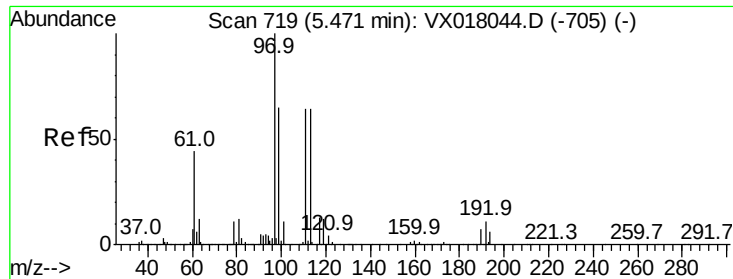
Acq: 08 Sep 2020 12:55

Tgt Ion: 114 Resp: 711630

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 20.2  | 0.0   | 42.6  |
| 88  | 16.7  | 0.0   | 31.8  |







#35

Dibromofluoromethane

Concen: 51.211 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

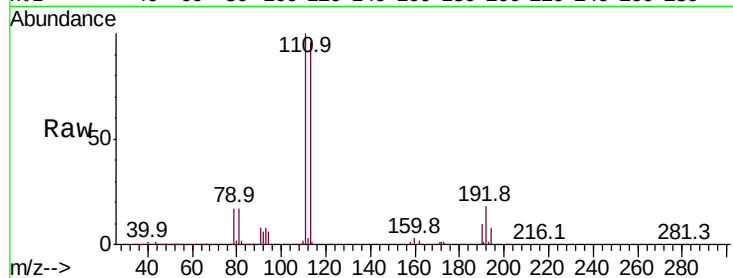
Tot Ion:113 Resp: 248198

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

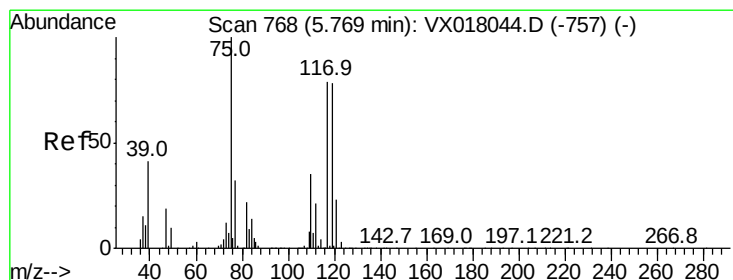
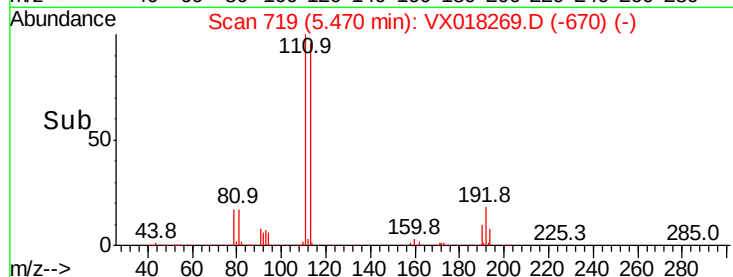
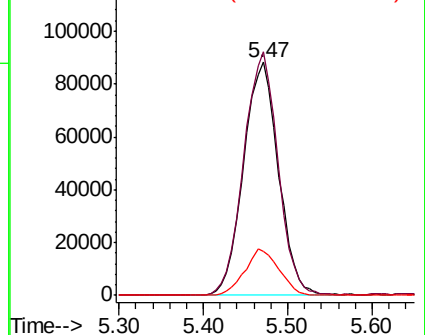
192 19.6 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.201 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

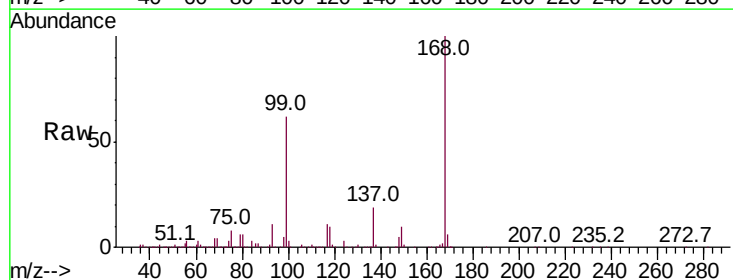
Tgt Ion: 75 Resp: 34138

Ion Ratio Lower Upper

75 100

110 12.1 18.0 54.0#

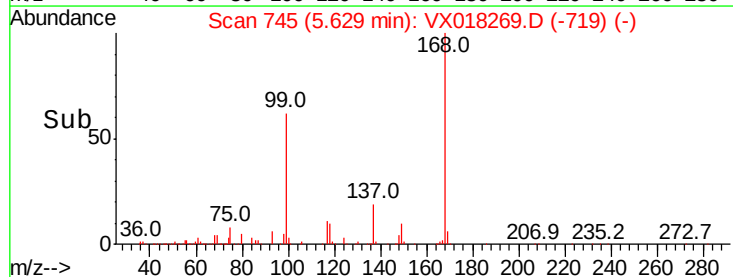
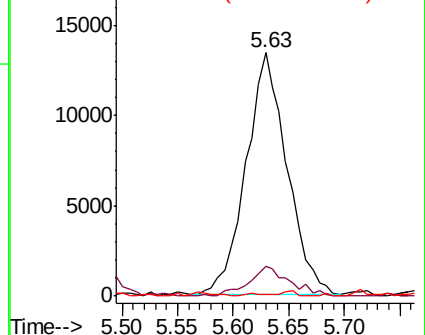
77 0.3 24.4 36.6#

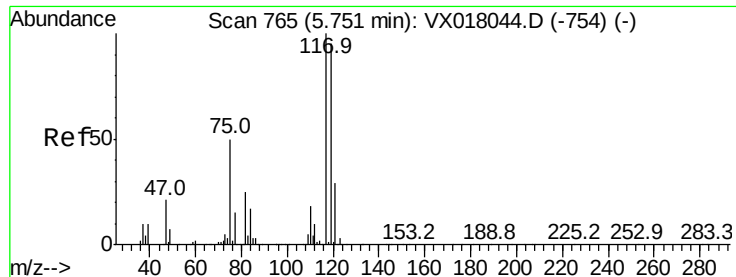


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.462 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

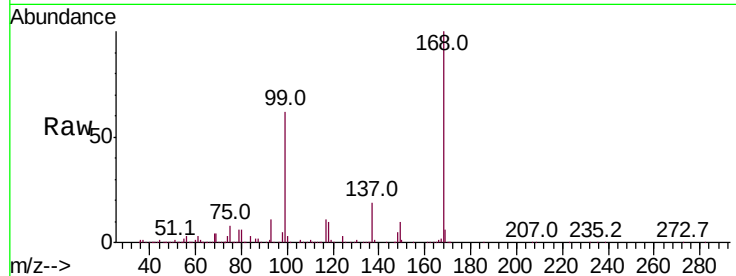
Tot Ion:117 Resp: 47798

Ion Ratio Lower Upper

117 100

119 5.4 75.8 113.6#

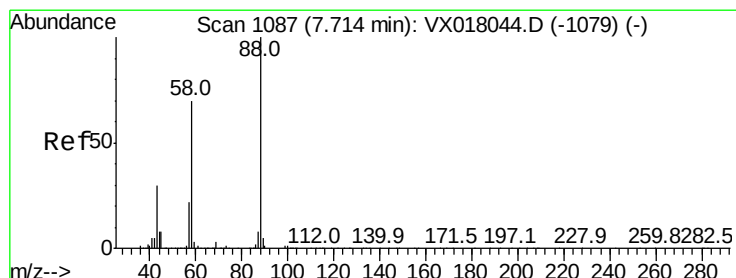
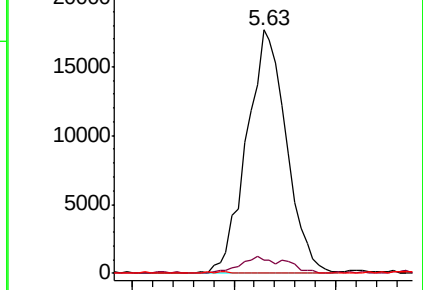
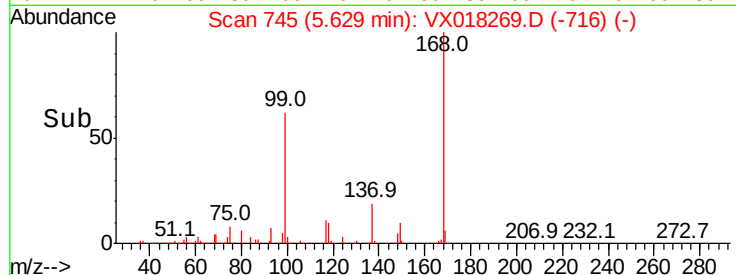
121 0.0 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 2.062 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

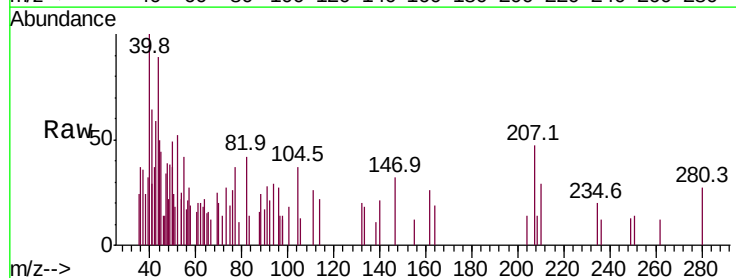
Tgt Ion: 88 Resp: 229

Ion Ratio Lower Upper

88 100

43 183.4 27.4 41.0#

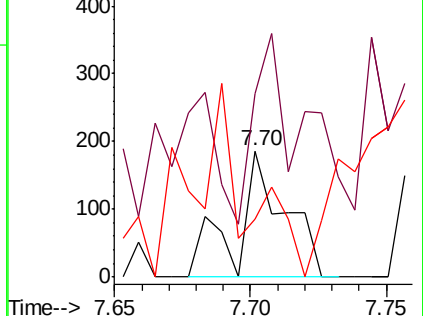
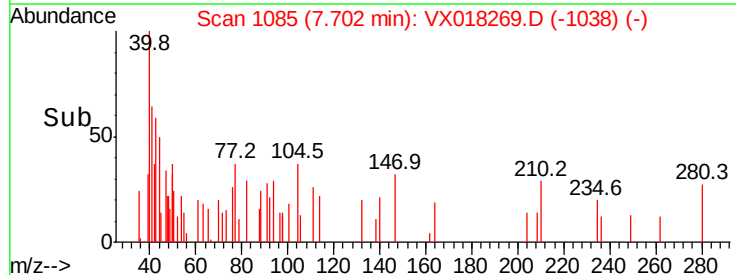
58 0.0 56.4 84.6#

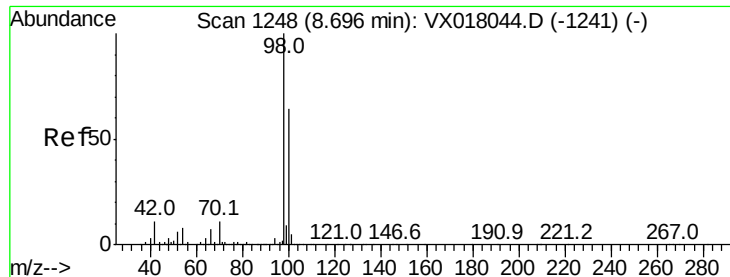


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.759 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :

MSVOA\_X

ClientSampleId :

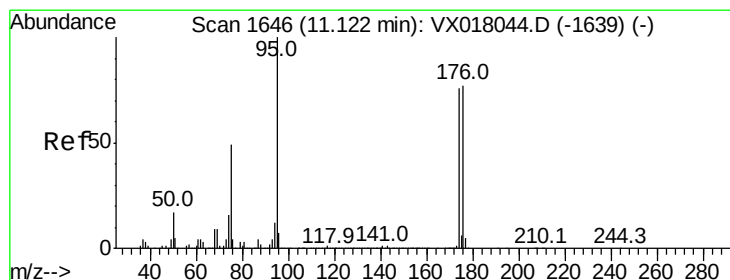
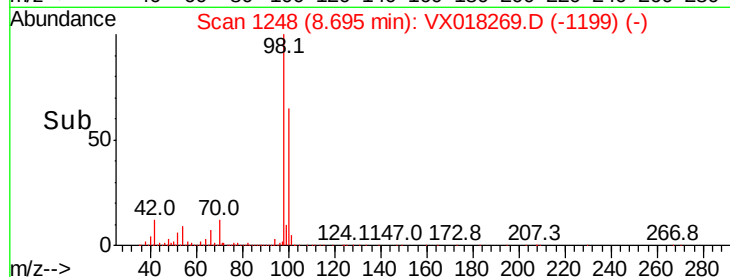
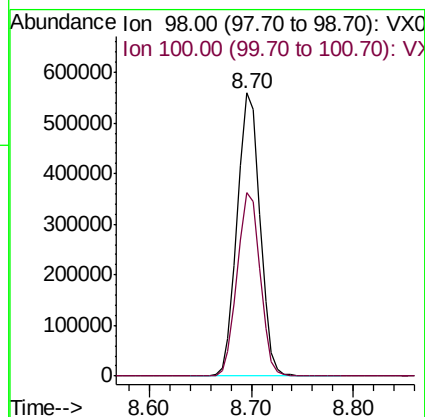
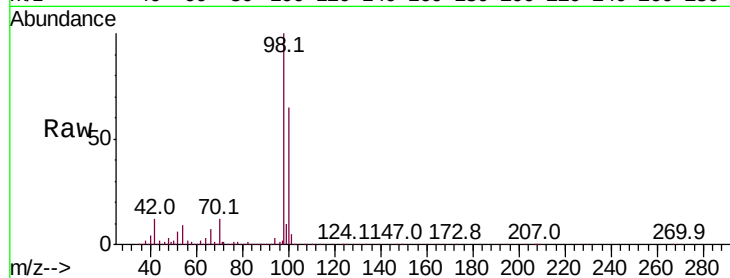
STORAGE-BLANK-WATER-REF-4

Tot Ion: 98 Resp: 862110

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 46.167 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

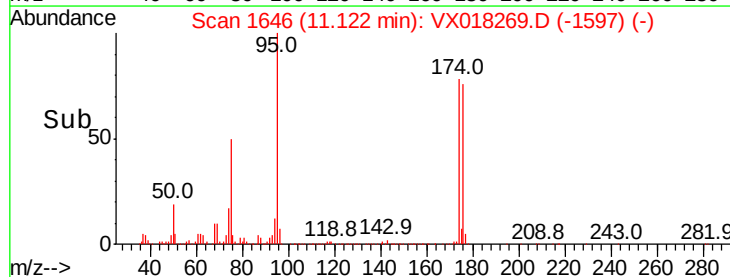
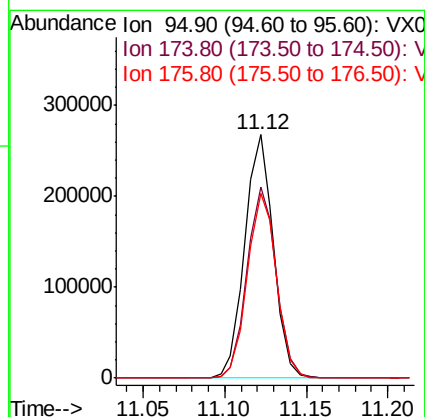
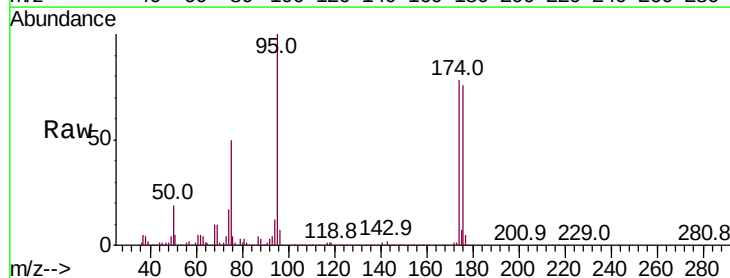
Tgt Ion: 95 Resp: 327881

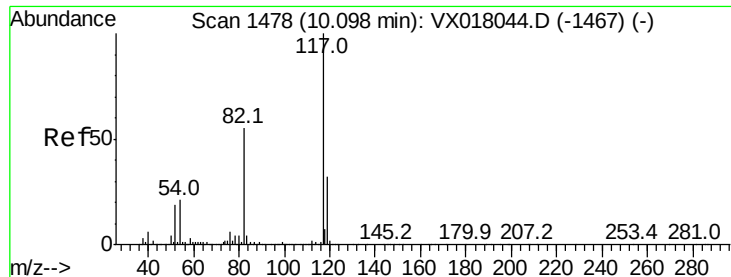
Ion Ratio Lower Upper

95 100

174 80.4 0.0 160.2

176 77.4 0.0 155.8

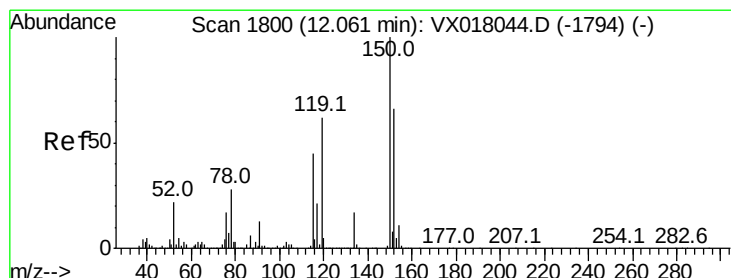
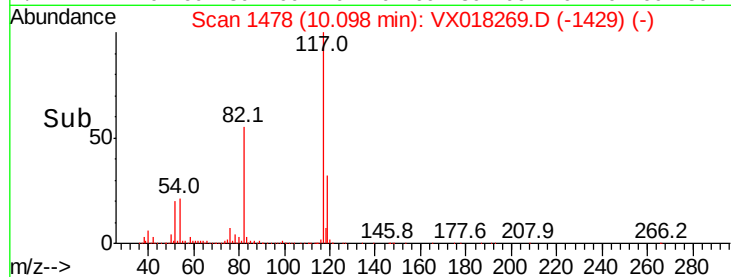
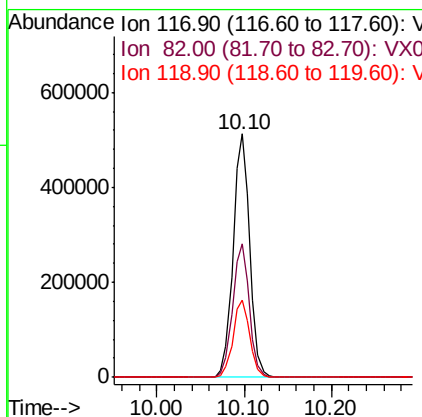
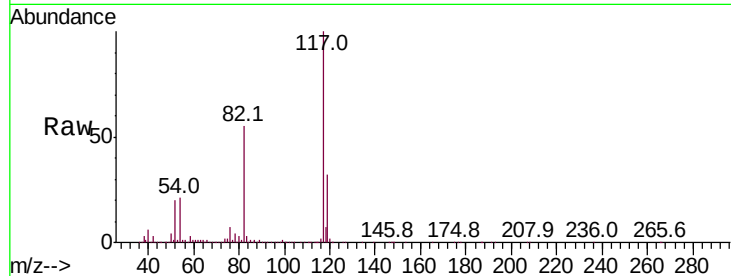




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

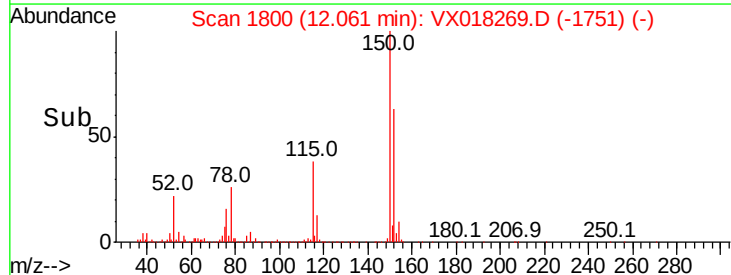
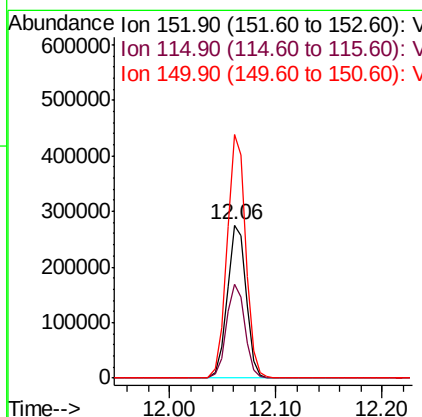
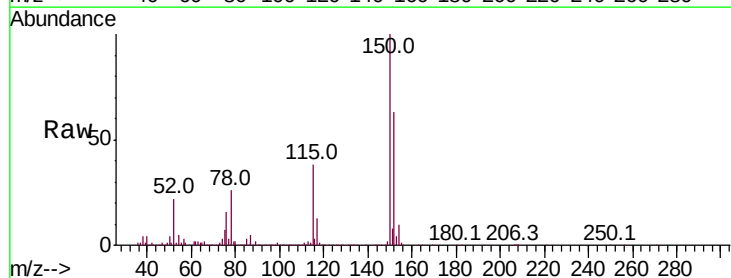
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

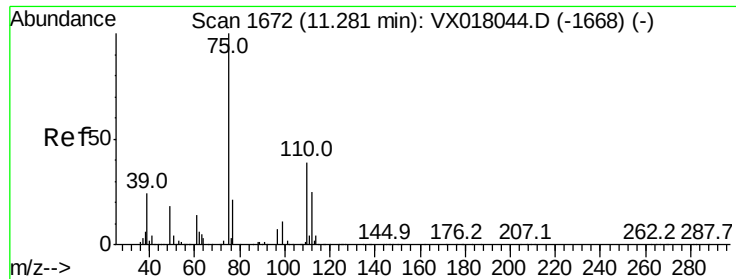
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.0  | 44.2  | 66.2  |
| 119     | 31.7  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX018269.D  
Acq: 08 Sep 2020 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.1  | 41.5  | 124.5 |
| 150     | 156.6 | 0.0   | 343.8 |





#76

1,2,3-Trichloropropane

Concen: 21.613 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Instrument :

MSVOA\_X

ClientSampleId :

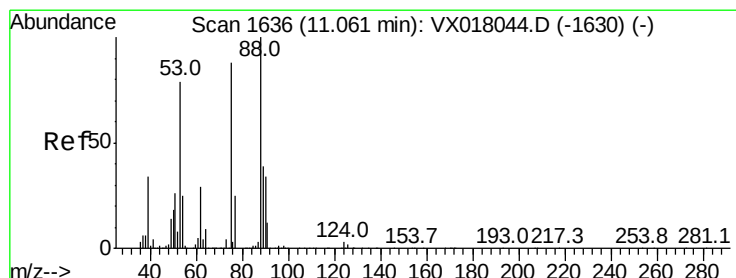
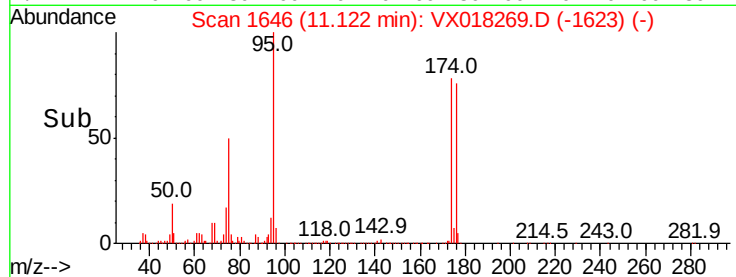
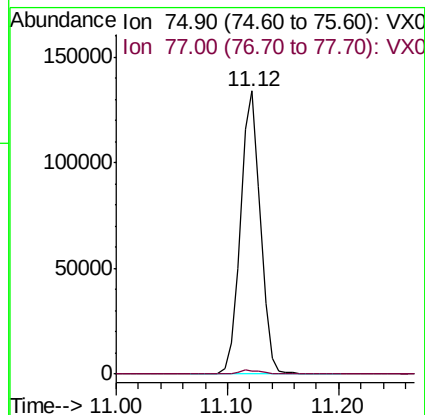
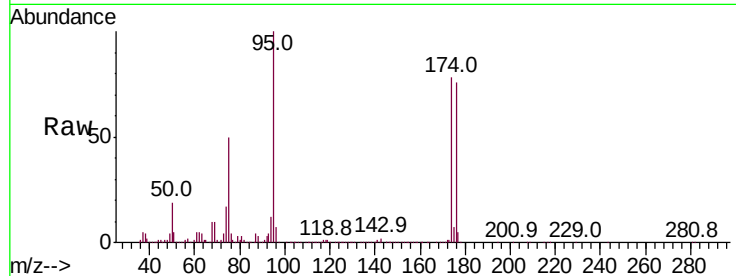
STORAGE-BLANK-WATER-REF-4

Tot Ion: 75 Resp: 164797

Ion Ratio Lower Upper

75 100

77 1.5 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.374 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018269.D

Acq: 08 Sep 2020 12:55

Tgt Ion: 75 Resp: 164797

Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

89 0.1 36.6 54.8#

