

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082120\  
 Data File : VX018058.D  
 Acq On : 21 Aug 2020 14:59  
 Operator : JC/SP  
 Sample : L3770-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 21 23:53:59 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  | 575453   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 939725   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 876240   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 398844   | 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   | 377658   | 47.27 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.54% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 309592   | 48.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.74% |          |
| 50) Toluene-d8              | 8.70  | 98   | 1092992  | 45.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.70% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 423198   | 45.12 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.24% |          |

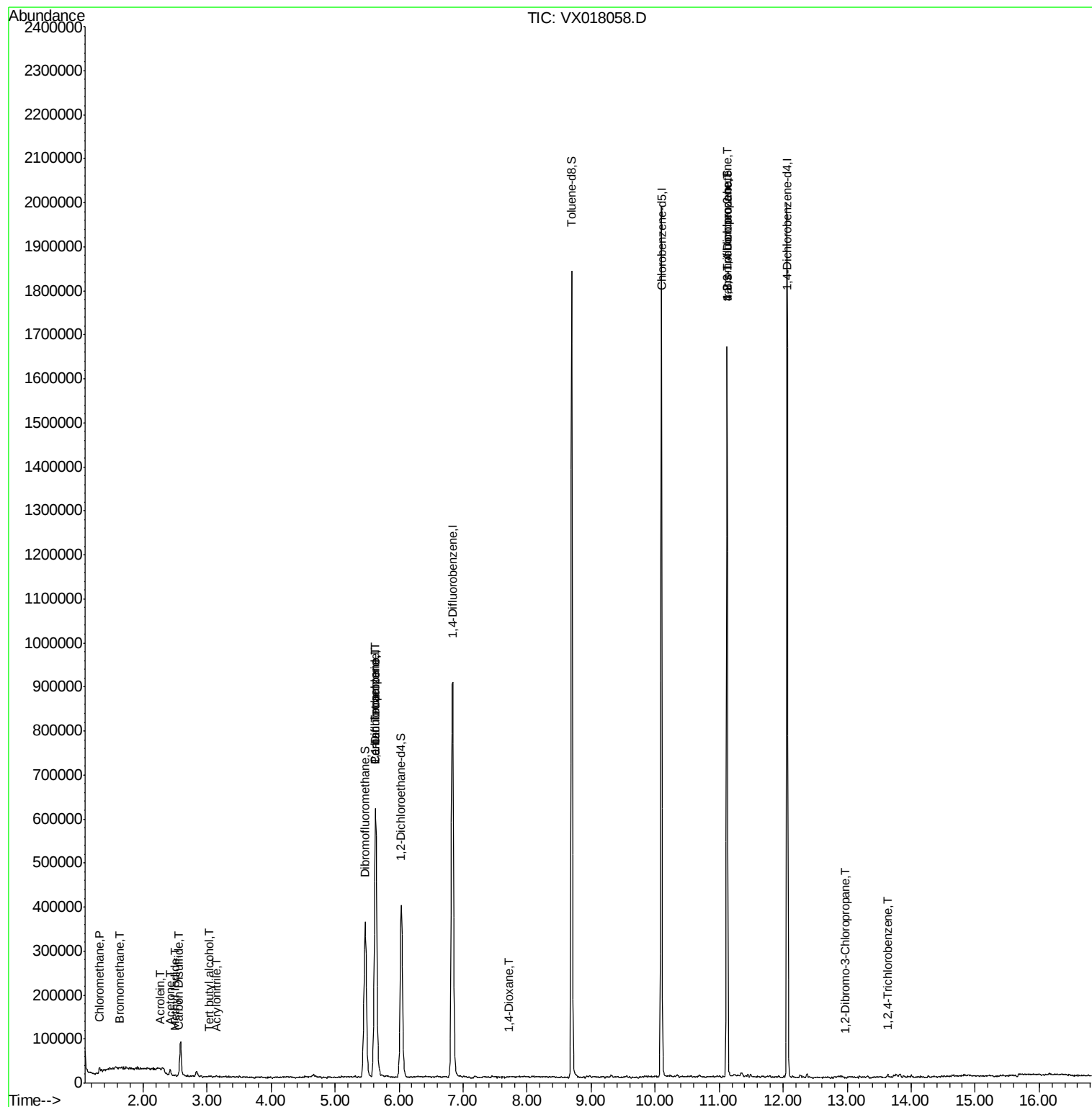
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 6440     | 0.872     | ug/l   | 89     |
| 5) Bromomethane                | 1.64  | 94   | 1455     | 0.410     | ug/l # | 30     |
| 10) Methyl Iodide              | 2.51  | 142  | 1097     | 5.456     | ug/l # | 79     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 324      | 0.209     | ug/l # | 71     |
| 13) Acrolein                   | 2.27  | 56   | 493      | 0.765     | ug/l # | 81     |
| 15) Acrylonitrile              | 3.14  | 53   | 912      | 0.259     | ug/l # | 44     |
| 16) Acetone                    | 2.42  | 43   | 14251    | 4.578     | ug/l   | 98     |
| 17) Carbon Disulfide           | 2.55  | 76   | 3894     | 0.229     | ug/l # | 90     |
| 20) Methylene Chloride         | 2.84  | 84   | 6172     | Below Cal |        | 92     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 44542    | 5.139     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 58958    | 6.036     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.71  | 88   | 240      | 1.637     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 211861   | 23.879    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 211861   | 64.492    | ug/l # | 12     |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 587      | 0.253     | ug/l # | 23     |
| 93) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 1666     | 0.208     | ug/l   | 98     |

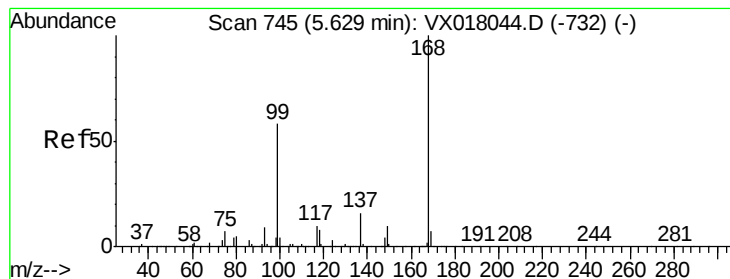
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082120\  
Data File : VX018058.D  
Acq On : 21 Aug 2020 14:59  
Operator : JC/SP  
Sample : L3770-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Aug 21 23:53:59 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: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

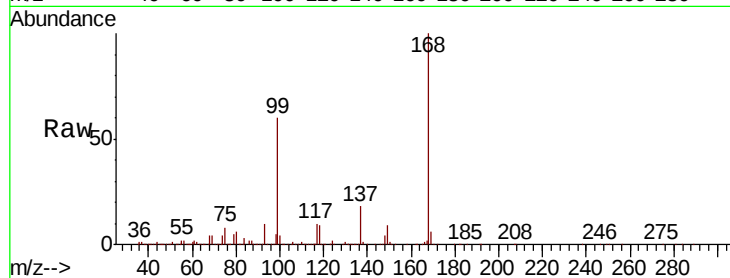
ClientSampleId :

Tot Ion:168 Resp: 575453

Ion Ratio Lower Upper

168 100

99 60.1 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

200000

150000

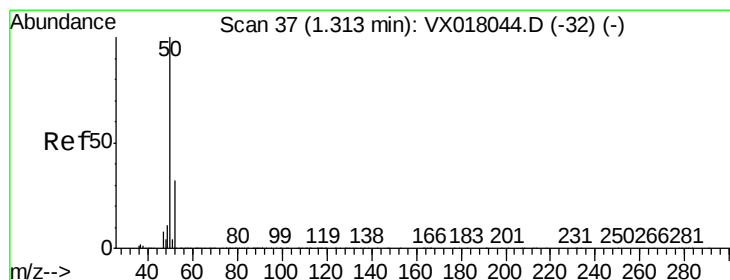
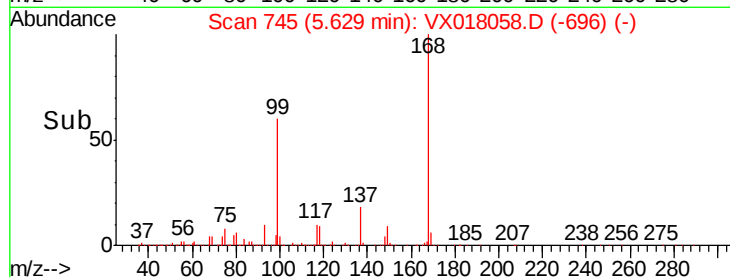
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.872 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX018058.D

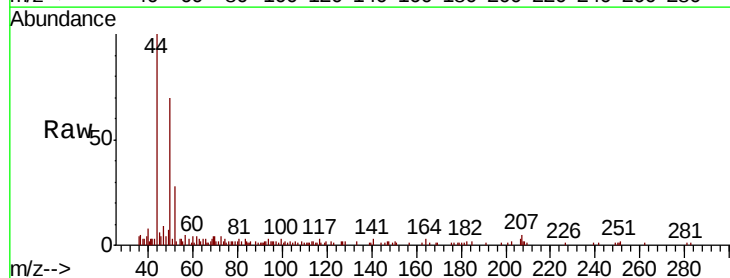
Acq: 21 Aug 2020 14:59

Tgt Ion: 50 Resp: 6440

Ion Ratio Lower Upper

50 100

52 37.9 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

6000

5000

4000

3000

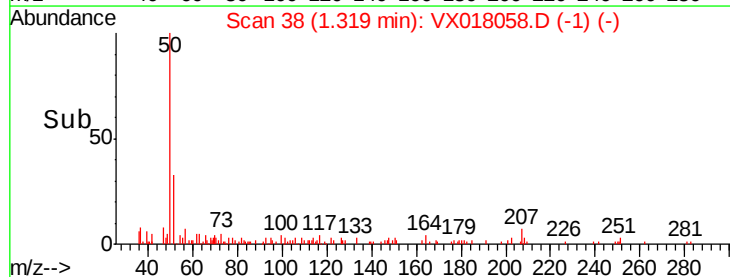
2000

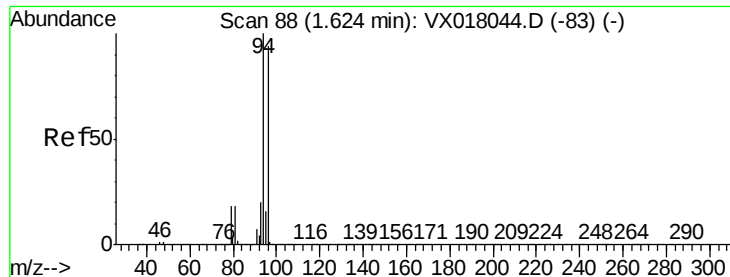
1000

0

Time-->

1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.410 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

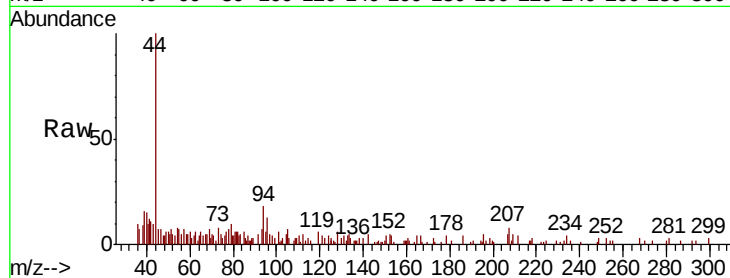
ClientSampleId :

Tot Ion: 94 Resp: 1455

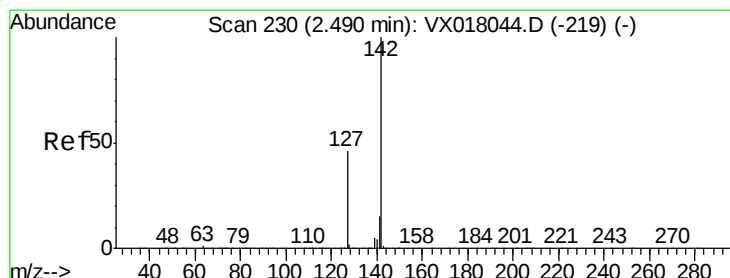
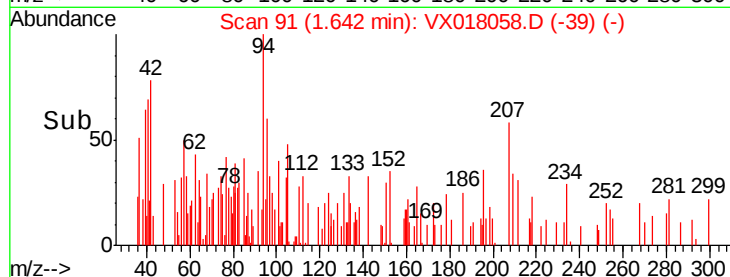
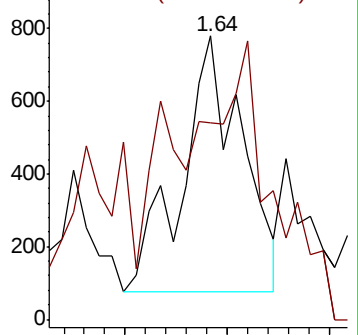
Ion Ratio Lower Upper

94 100

96 26.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#10

Methyl Iodide

Concen: 5.456 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

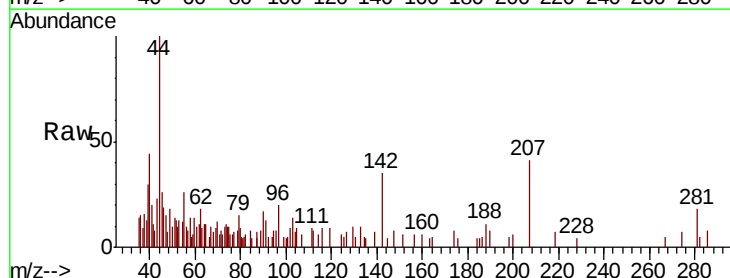
Tgt Ion: 142 Resp: 1097

Ion Ratio Lower Upper

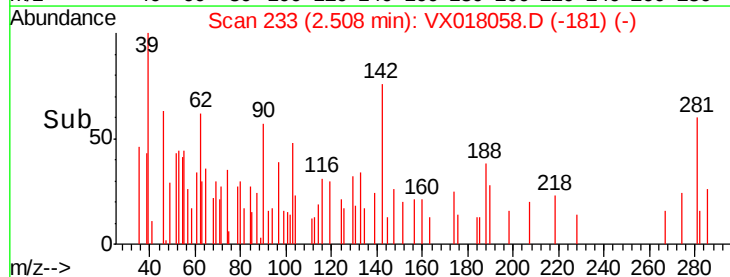
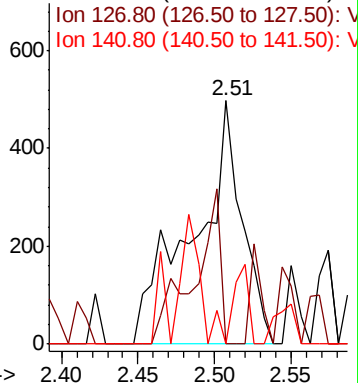
142 100

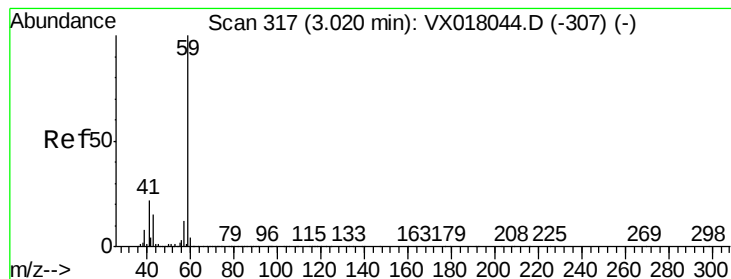
127 34.9 37.0 55.6#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V



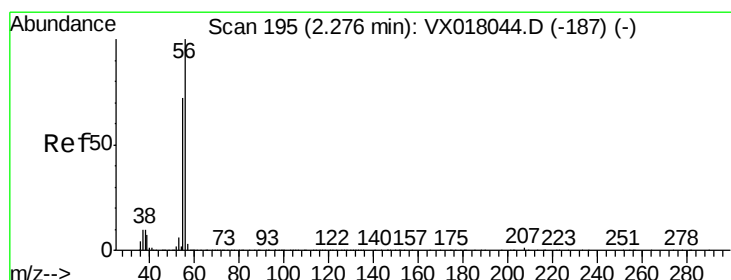
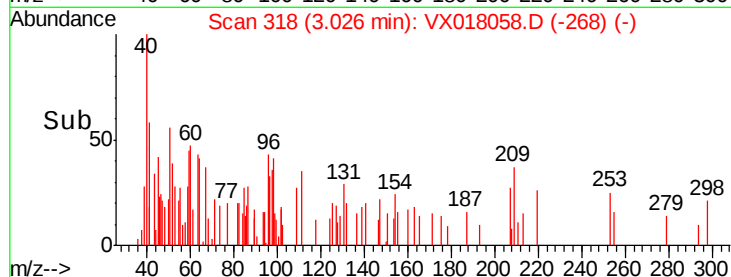
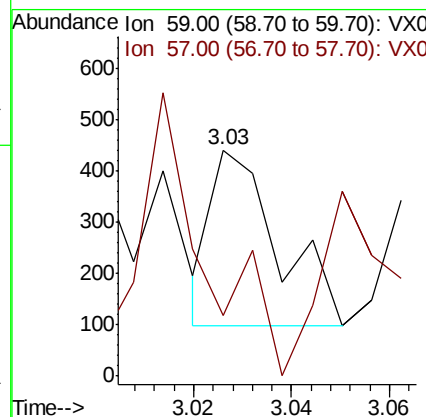
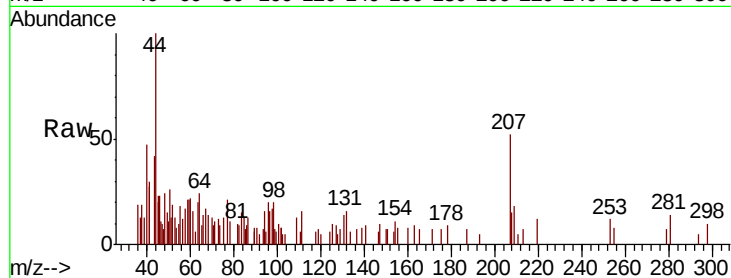


#11

Tert butyl alcohol  
Concen: 0.209 ug/l  
RT: 3.03 min Scan# 318  
Delta R.T. 0.01 min  
Lab File: VX018058.D  
Acq: 21 Aug 2020 14:59

Instrument :  
MSVOA\_X  
ClientSampled :

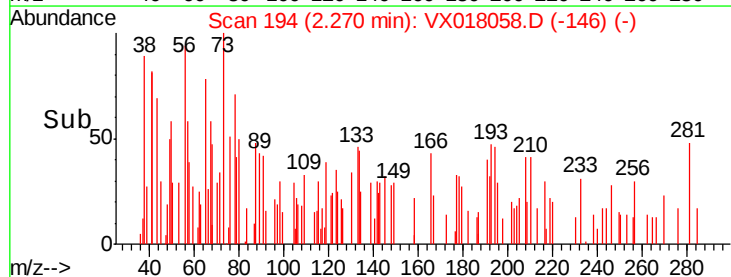
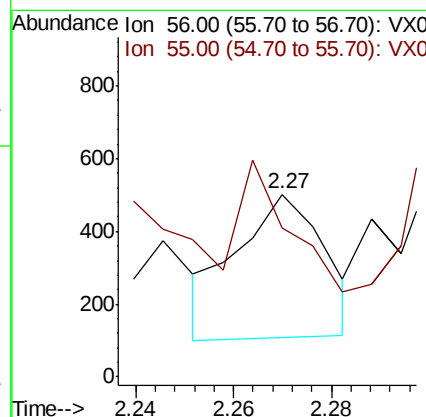
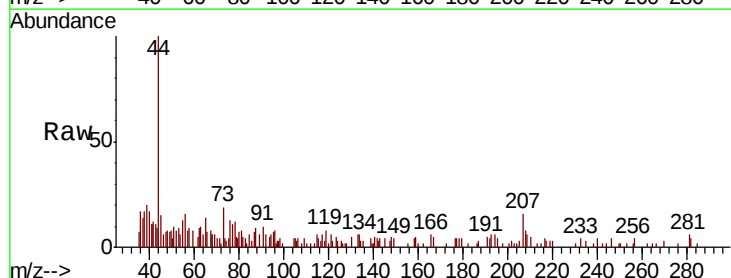
Tot Ion: 59 Resp: 324  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

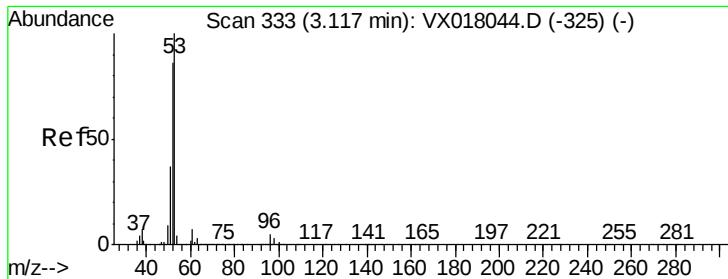


#13

Acrolein  
Concen: 0.765 ug/l  
RT: 2.27 min Scan# 194  
Delta R.T. -0.01 min  
Lab File: VX018058.D  
Acq: 21 Aug 2020 14:59

Tgt Ion: 56 Resp: 493  
Ion Ratio Lower Upper  
56 100  
55 55.4 57.0 85.6#





#15

Acrylonitrile

Concen: 0.259 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.02 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :  
MSVOA\_X  
ClientSampled :

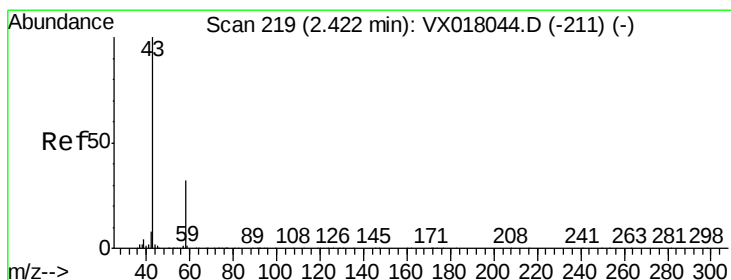
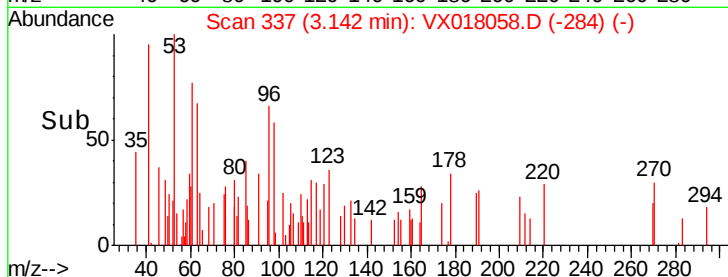
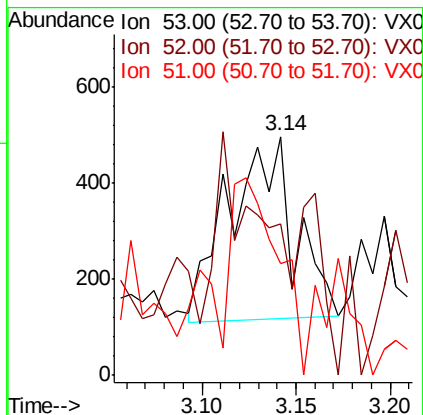
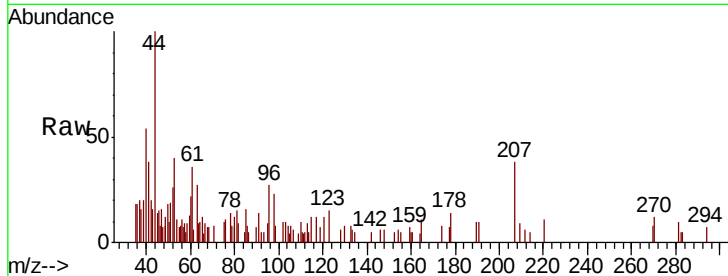
Tot Ion: 53 Resp: 912

Ion Ratio Lower Upper

53 100

52 35.4 66.9 100.3#

51 0.0 28.7 43.1#



#16

Acetone

Concen: 4.578 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018058.D

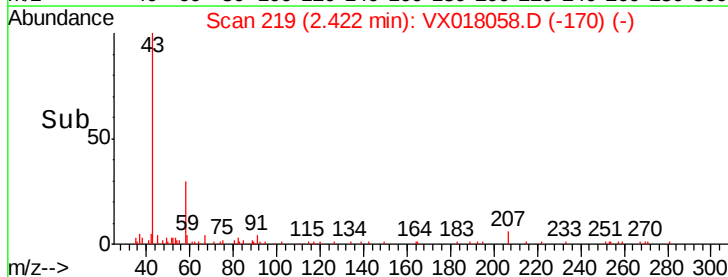
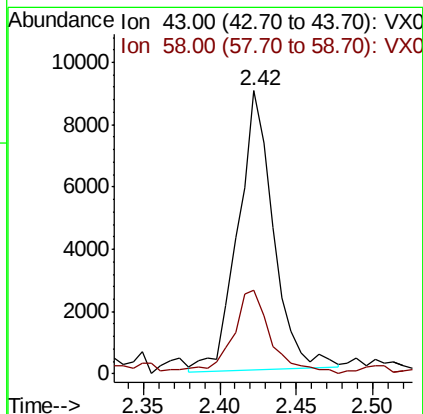
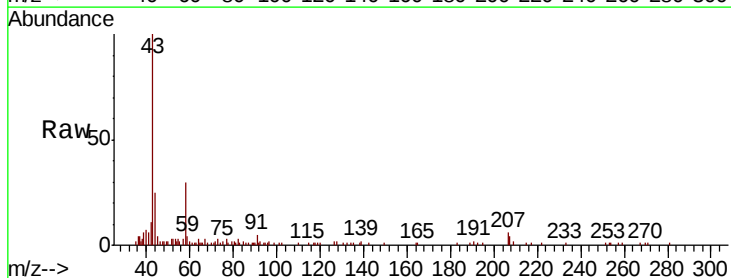
Acq: 21 Aug 2020 14:59

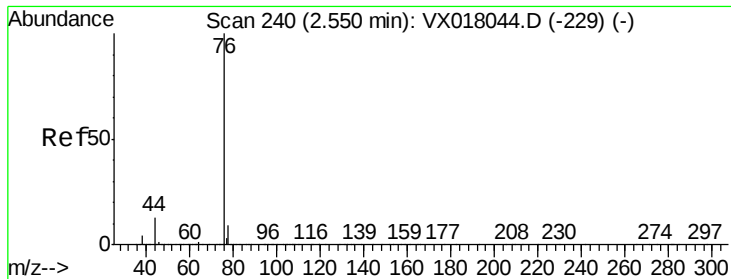
Tgt Ion: 43 Resp: 14251

Ion Ratio Lower Upper

43 100

58 30.5 25.5 38.3





#17

Carbon Disulfide

Concen: 0.229 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

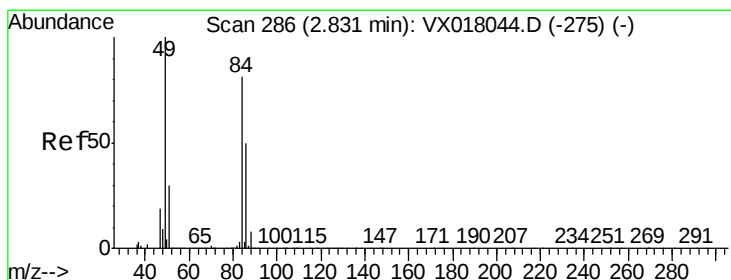
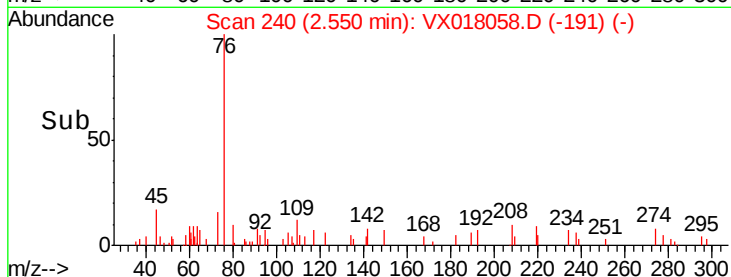
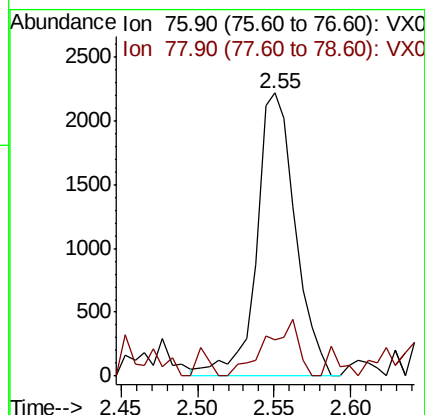
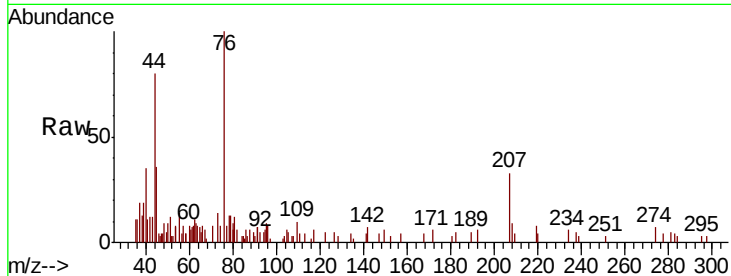
ClientSampleId :

Tot Ion: 76 Resp: 3894

Ion Ratio Lower Upper

76 100

78 12.8 7.4 11.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Tgt Ion: 84 Resp: 6172

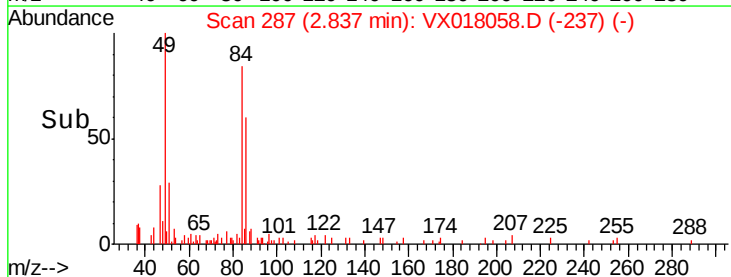
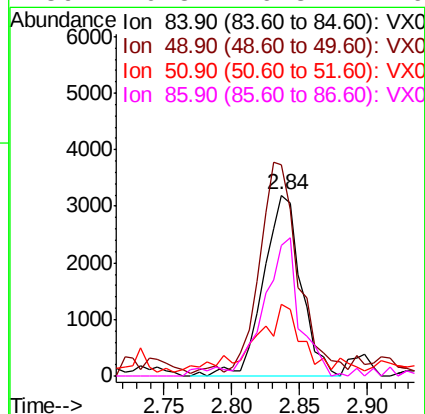
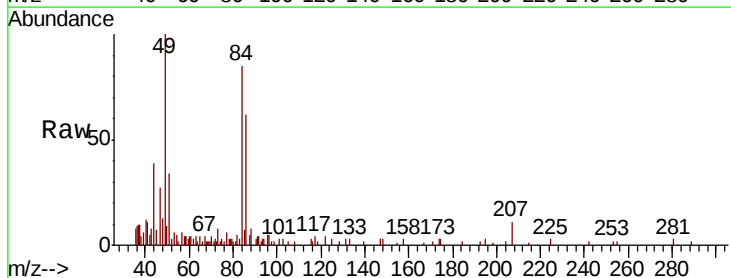
Ion Ratio Lower Upper

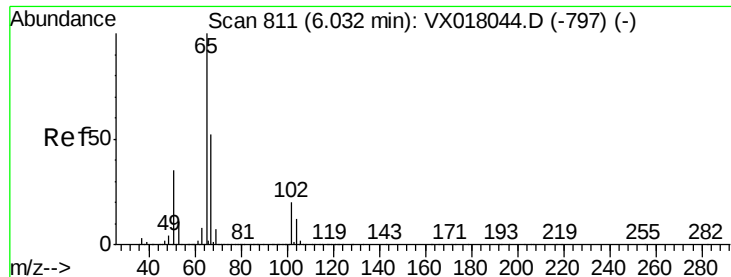
84 100

49 115.4 98.6 148.0

51 34.6 29.6 44.4

86 70.8 49.8 74.6

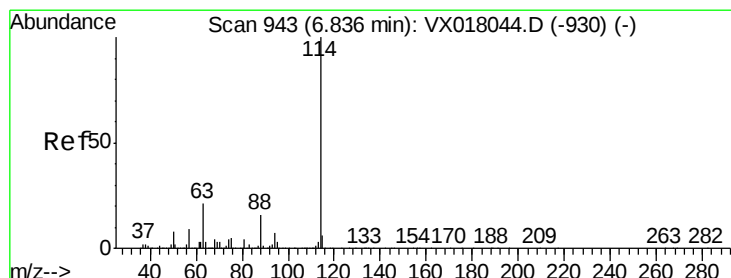
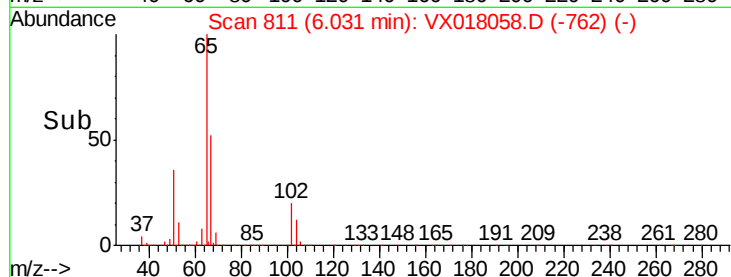
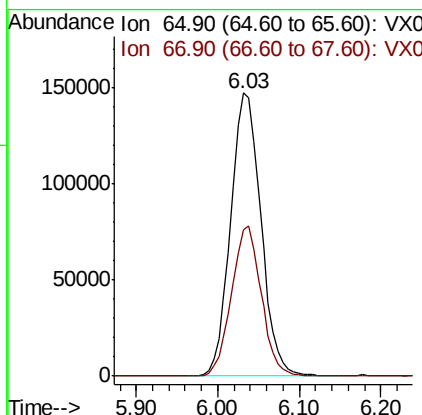
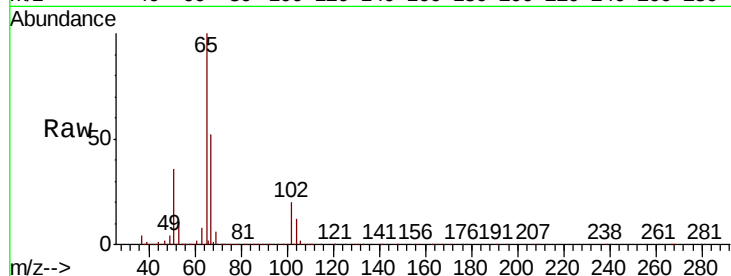




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.274 ug/l  
 RT: 6.03 min Scan# 811  
 Delta R.T. -0.00 min  
 Lab File: VX018058.D  
 Acq: 21 Aug 2020 14:59

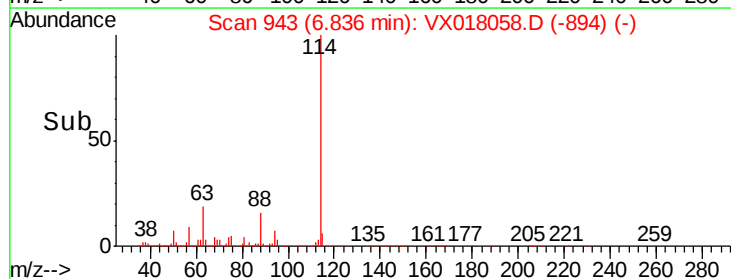
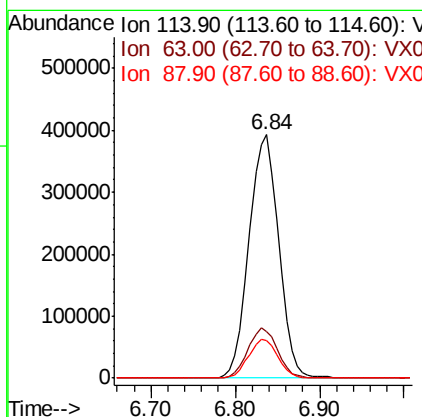
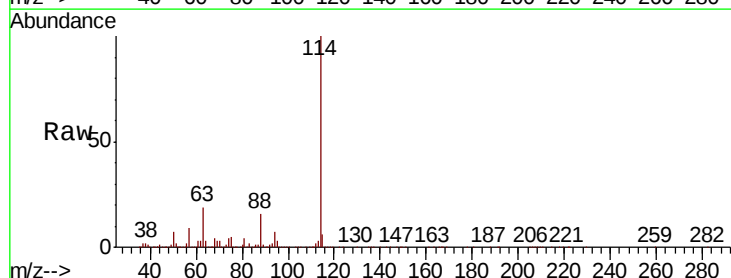
Instrument :  
 MSVOA\_X  
 ClientSampleId :

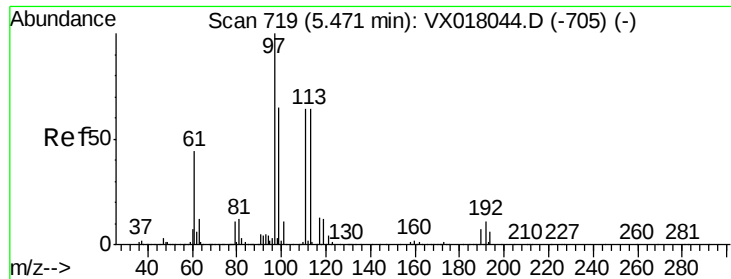
Tot Ion: 65 Resp: 377658  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. -0.00 min  
 Lab File: VX018058.D  
 Acq: 21 Aug 2020 14:59

Tgt Ion: 114 Resp: 939725  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 42.6  
 88 15.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.374 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

ClientSampleId :

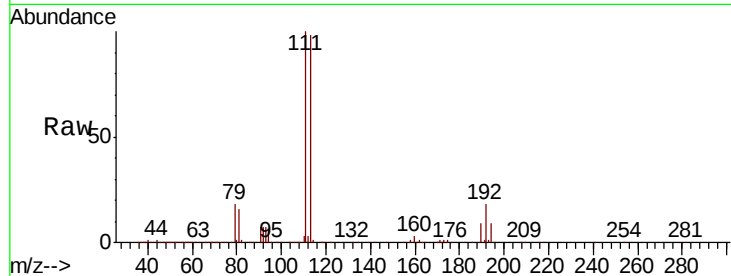
Tot Ion:113 Resp: 309592

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

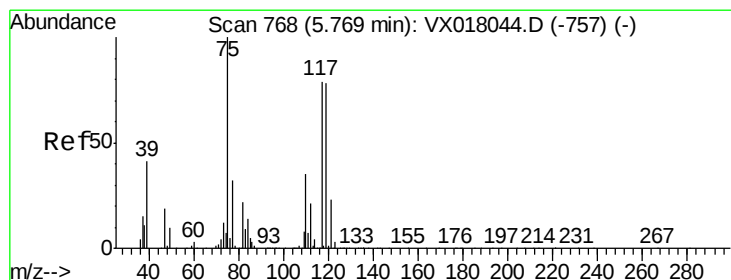
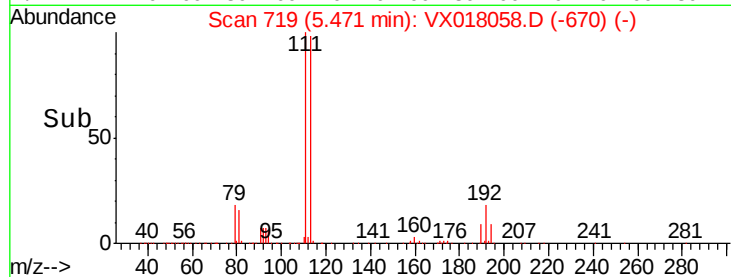
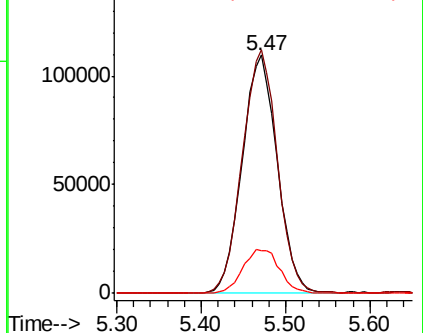
192 19.3 15.8 23.8



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: 5.139 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

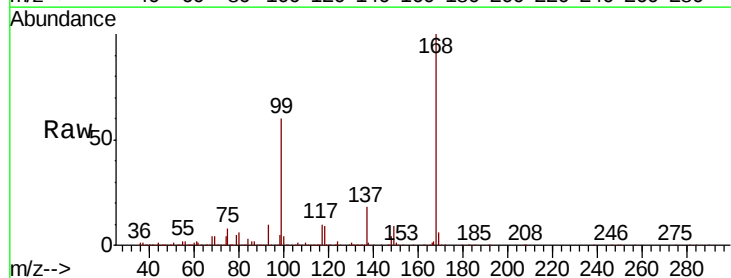
Tgt Ion: 75 Resp: 44542

Ion Ratio Lower Upper

75 100

110 10.6 18.0 54.0#

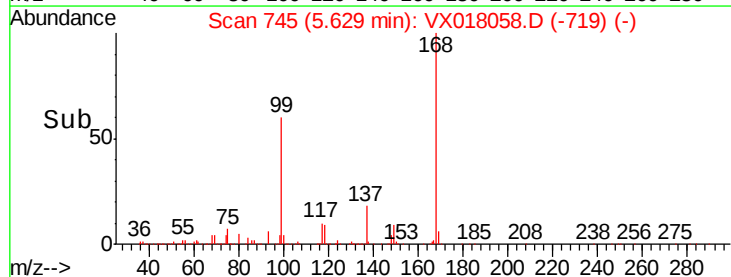
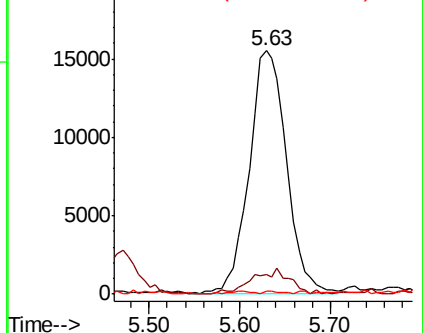
77 0.5 24.4 36.6#

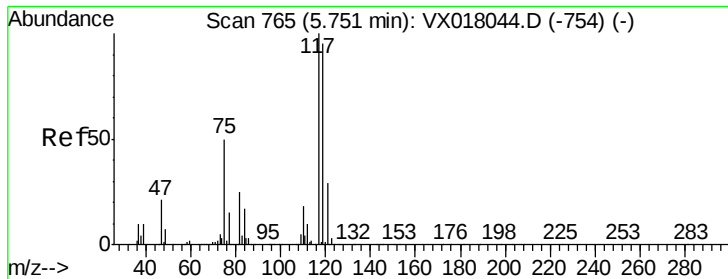


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.036 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

ClientSampled :

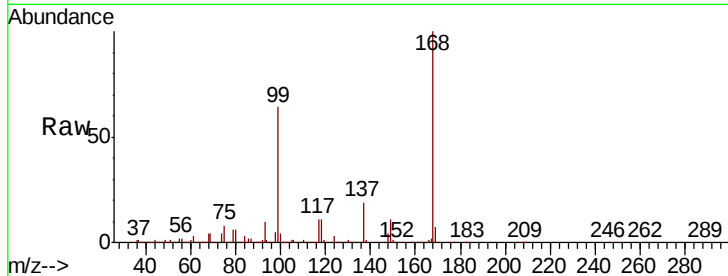
Tot Ion:117 Resp: 58958

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

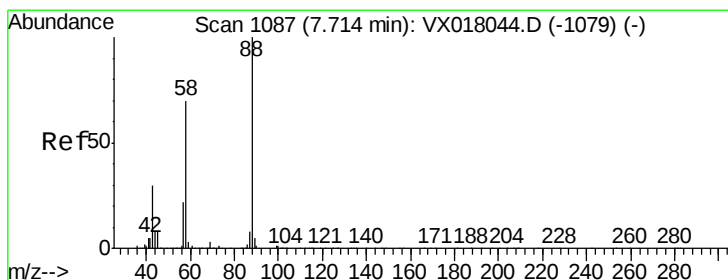
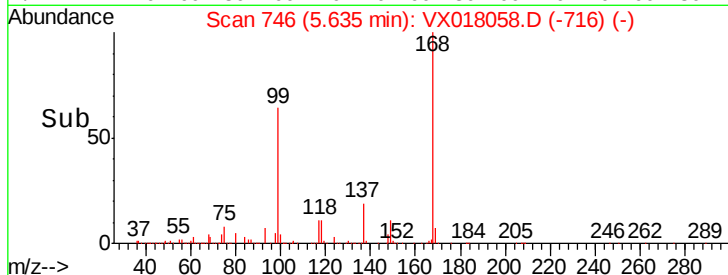
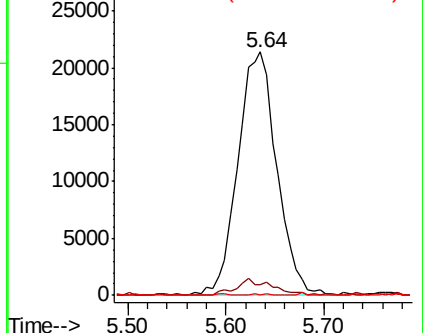
121 0.0 23.4 35.0#



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: 1.637 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

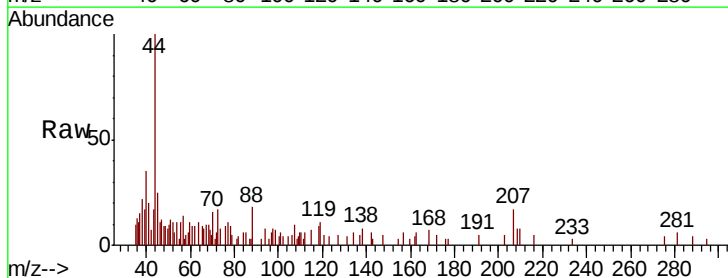
Tgt Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 204.6 27.4 41.0#

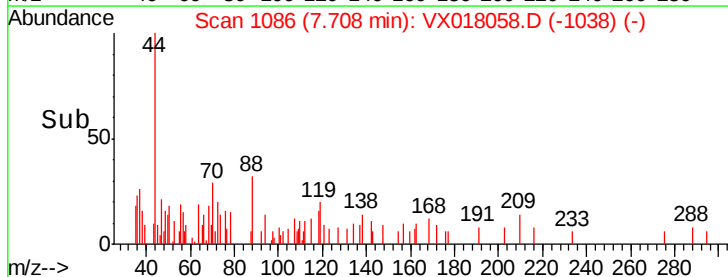
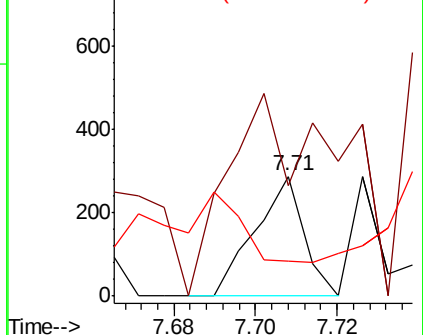
58 0.0 56.4 84.6#

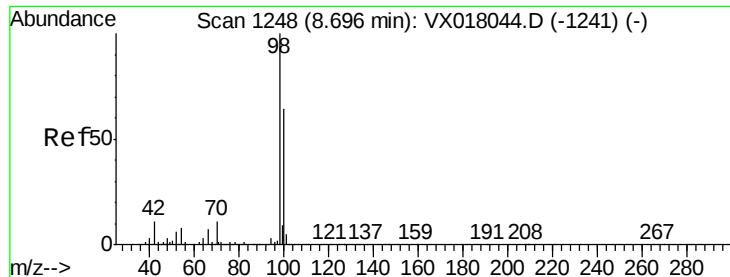


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 45.853 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

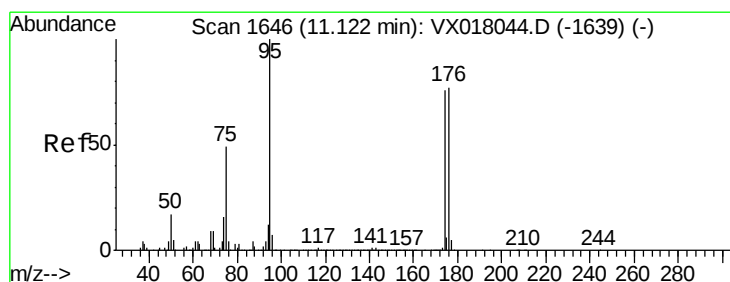
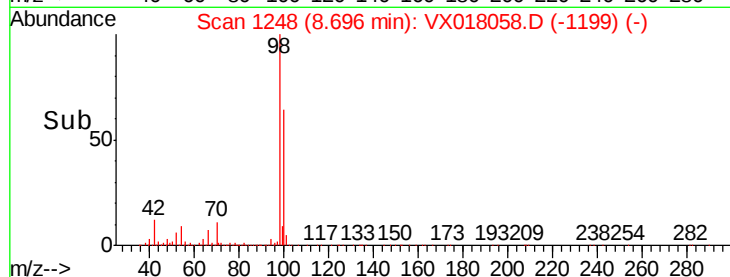
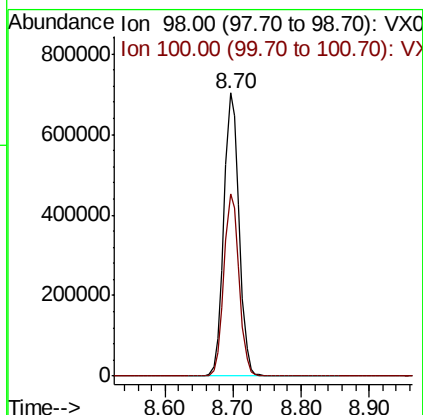
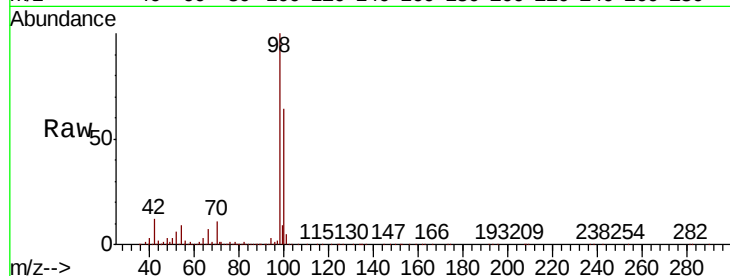
ClientSampleId :

Tot Ion: 98 Resp: 1092992

Ion Ratio Lower Upper

98 100

100 64.1 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 45.124 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

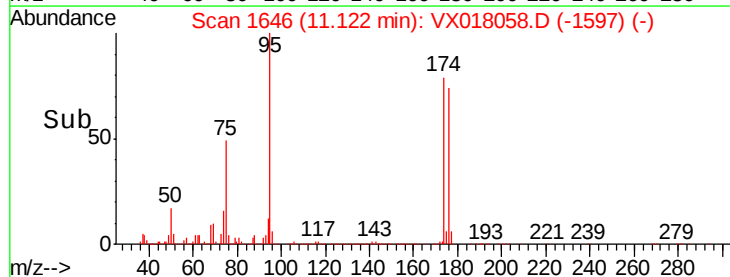
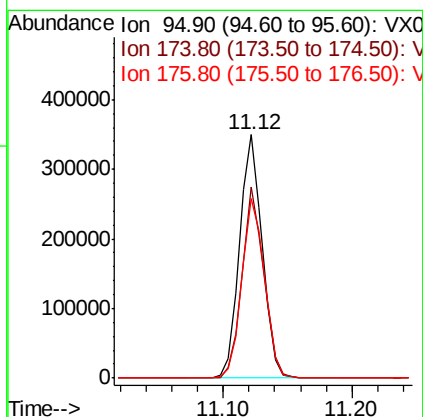
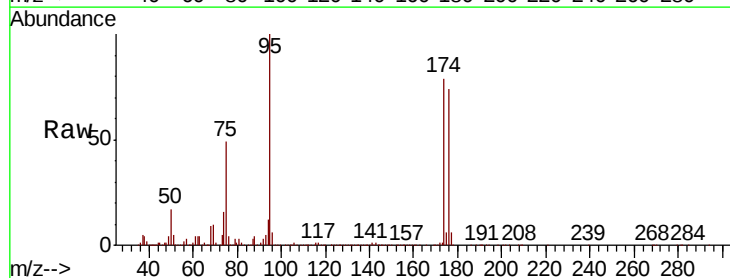
Tgt Ion: 95 Resp: 423198

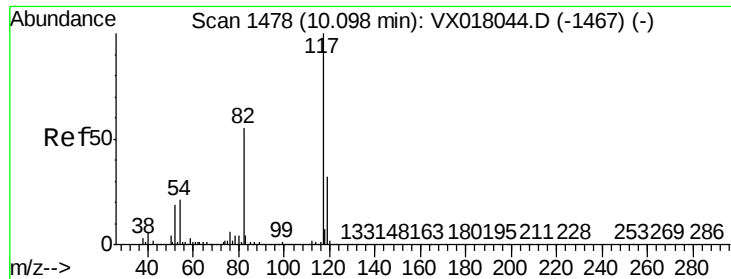
Ion Ratio Lower Upper

95 100

174 75.7 0.0 160.2

176 74.2 0.0 155.8

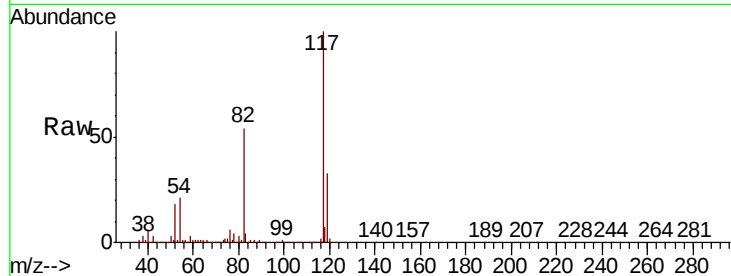




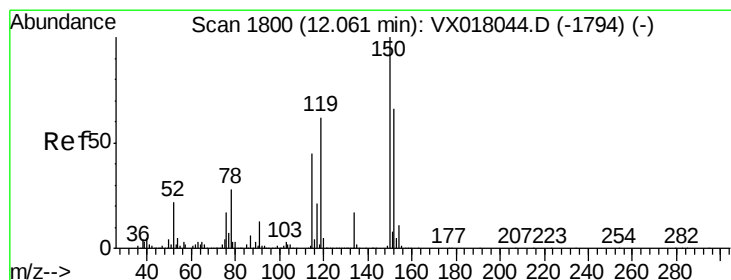
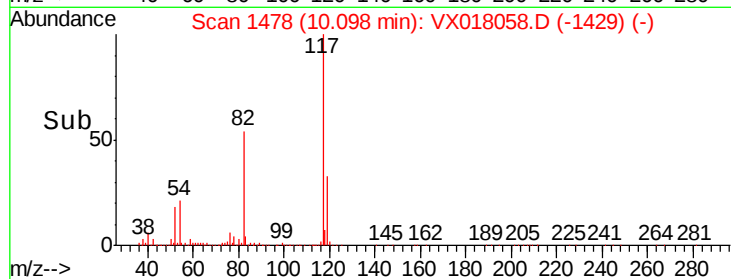
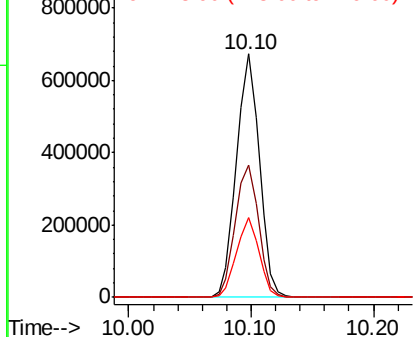
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX018058.D  
Acq: 21 Aug 2020 14:59

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 44.2  | 66.2  |
| 119     | 32.5  | 25.7  | 38.5  |

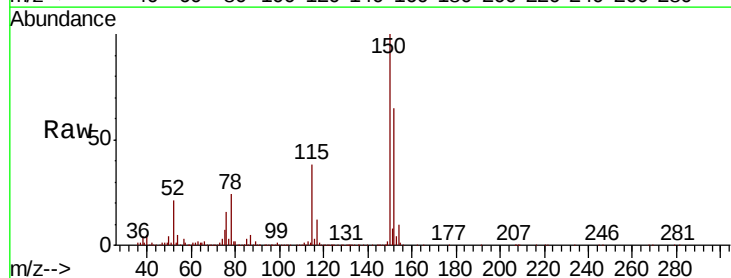


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

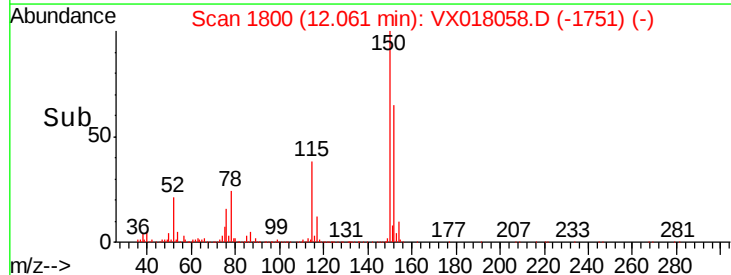
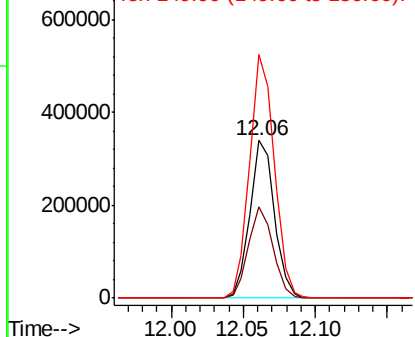


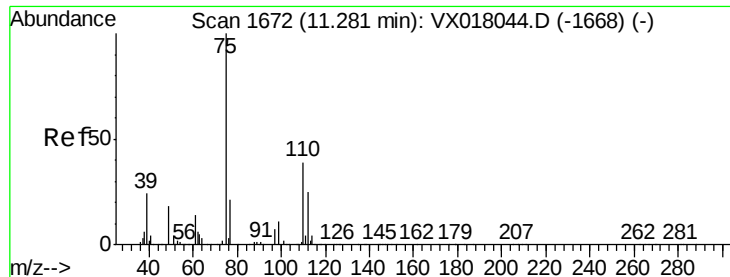
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX018058.D  
Acq: 21 Aug 2020 14:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.4  | 41.5  | 124.5 |
| 150     | 155.8 | 0.0   | 343.8 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.879 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

Instrument :

MSVOA\_X

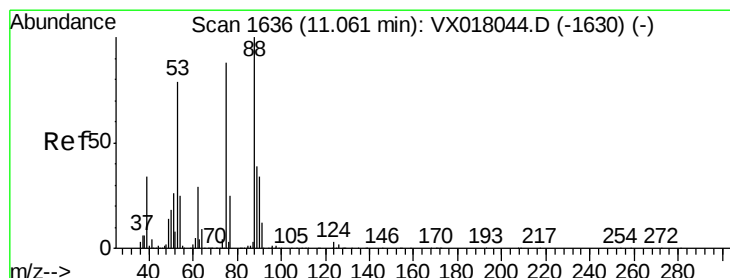
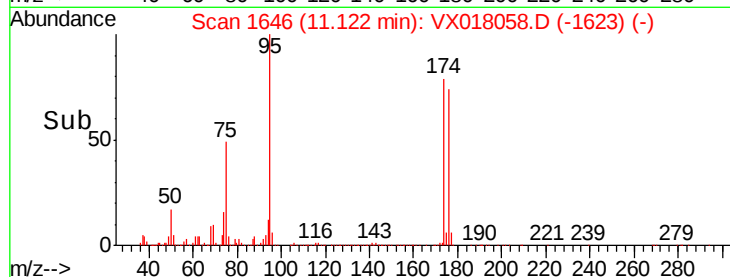
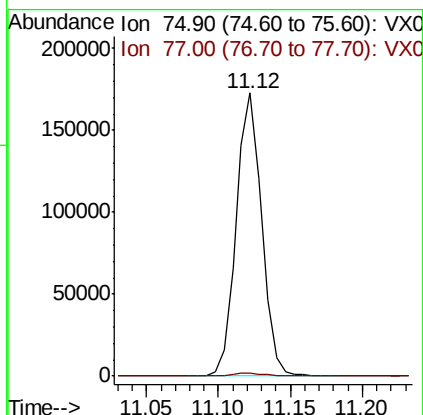
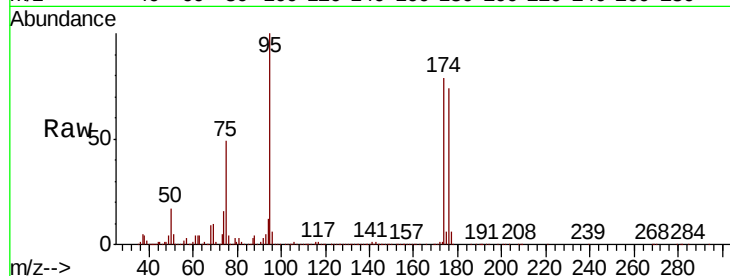
ClientSampleId :

Tot Ion: 75 Resp: 211861

Ion Ratio Lower Upper

75 100

77 1.7 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.492 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018058.D

Acq: 21 Aug 2020 14:59

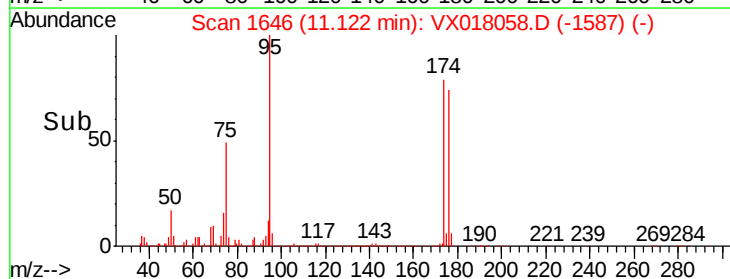
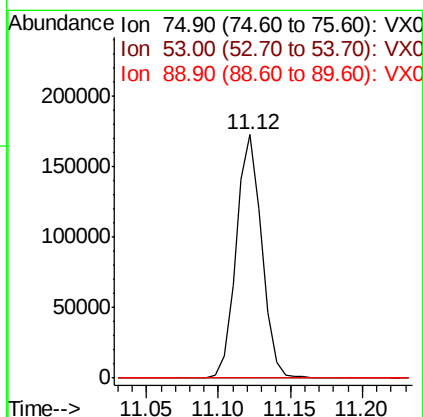
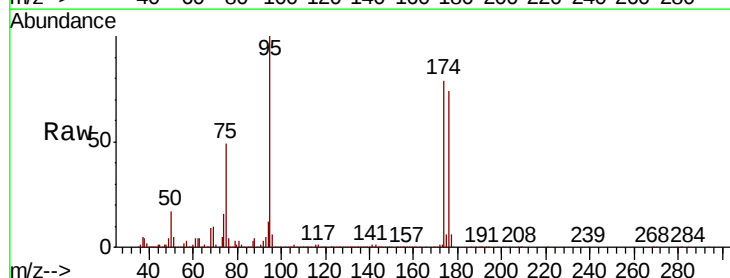
Tgt Ion: 75 Resp: 211861

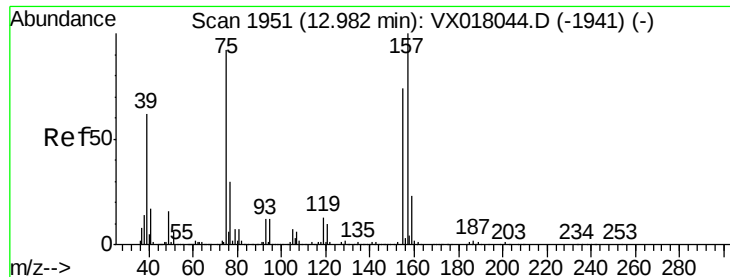
Ion Ratio Lower Upper

75 100

53 0.2 74.7 112.1#

89 0.1 36.6 54.8#

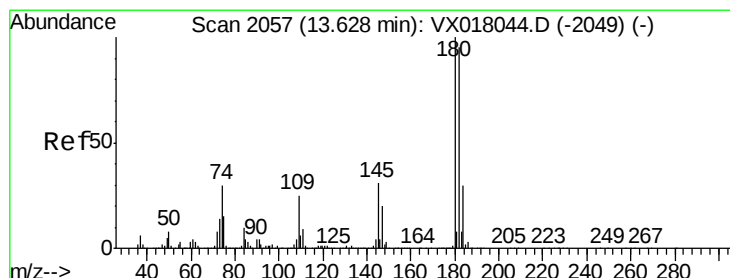
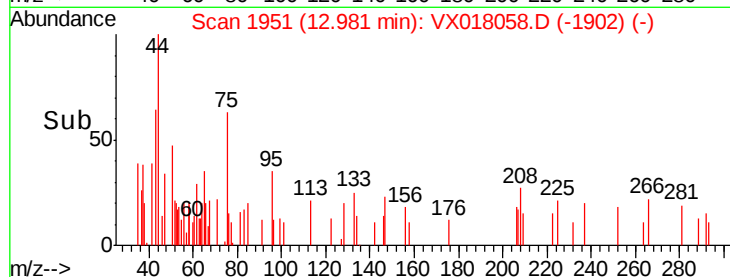
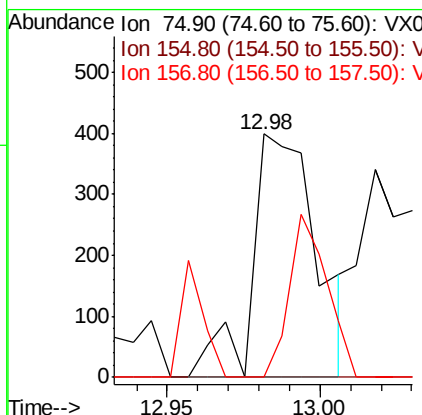
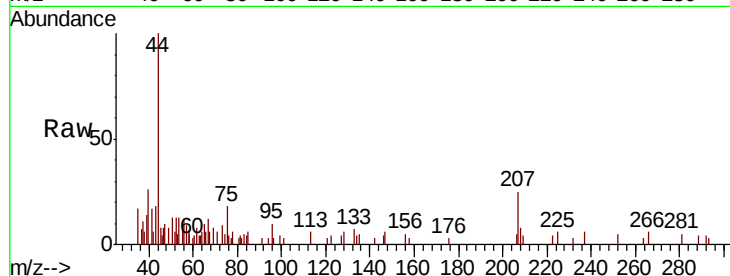




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.253 ug/l  
 RT: 12.98 min Scan# 1951  
 Delta R.T. -0.00 min  
 Lab File: VX018058.D  
 Acq: 21 Aug 2020 14:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 75 Resp: 587  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 40.2 120.6#  
 157 39.2 55.0 165.2#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.208 ug/l  
 RT: 13.63 min Scan# 2058  
 Delta R.T. 0.01 min  
 Lab File: VX018058.D  
 Acq: 21 Aug 2020 14:59

Tgt Ion: 180 Resp: 1666  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 47.5 142.6  
 145 35.6 15.7 47.1

