

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX082719\  
 Data File : VX011863.D  
 Acq On : 27 Aug 2019 20:22  
 Operator : JC/SP  
 Sample : K4566-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-3

Quant Time: Aug 28 02:25:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 2019  
 Response via : Initial Calibration

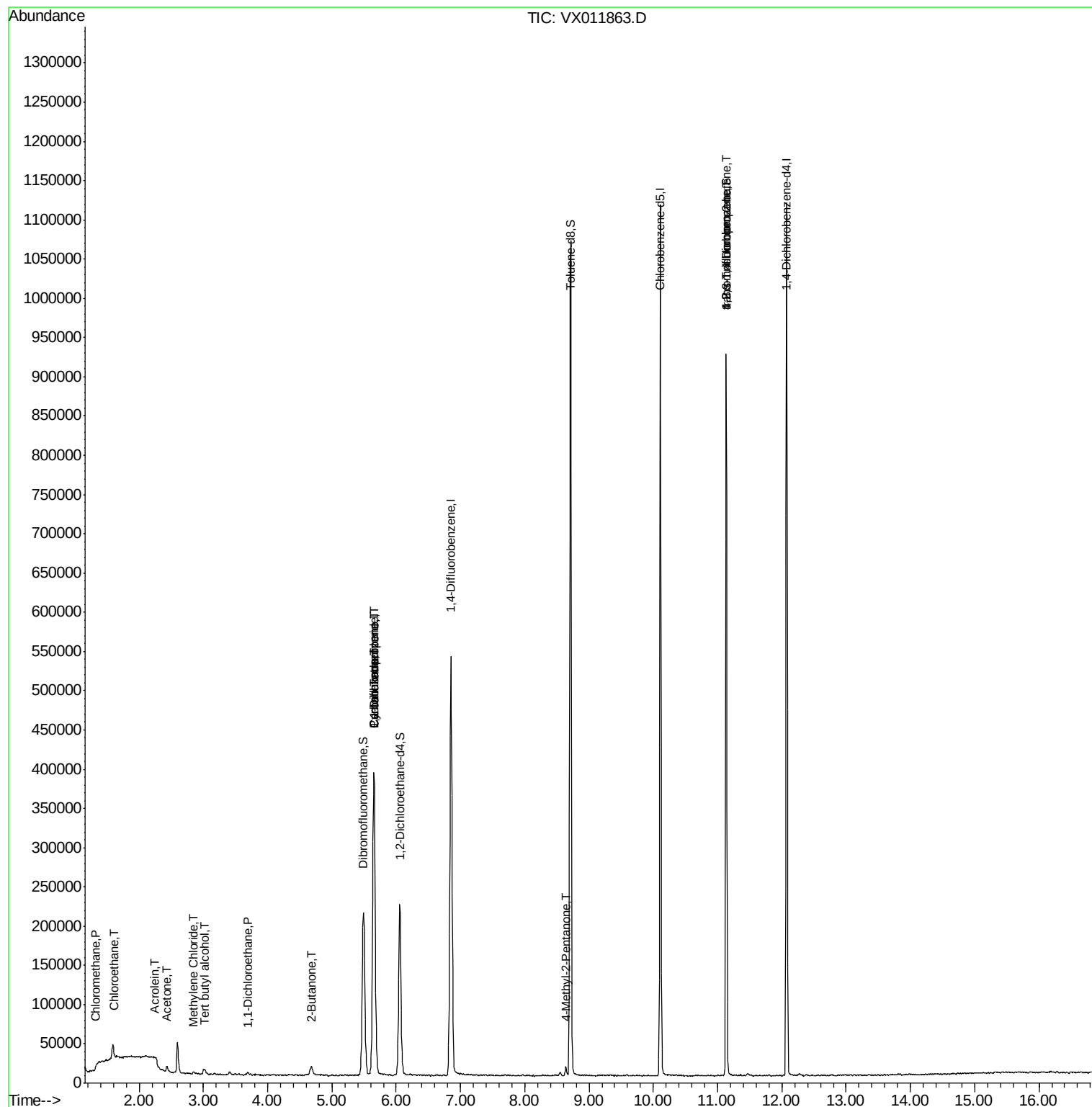
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 5.65  | 168  | 398725   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.85  | 114  | 555411   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.11 | 117  | 490343   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.07 | 152  | 230916   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.06  | 65   | 208677   | 52.10  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 104.20% |          |
| 35) Dibromofluoromethane       | 5.49  | 113  | 174293   | 48.53  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 97.06%  |          |
| 50) Toluene-d8                 | 8.71  | 98   | 639436   | 51.04  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 102.08% |          |
| 62) 4-Bromofluorobenzene       | 11.13 | 95   | 230027   | 46.46  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 92.92%  |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 3) Chloromethane               | 1.32  | 50   | 746      | 0.229  | ug/l    | 89       |
| 6) Chloroethane                | 1.62  | 64   | 3839     | 2.013  | ug/l #  | 47       |
| 11) Tert butyl alcohol         | 3.01  | 59   | 6282     | 7.937  | ug/l #  | 78       |
| 13) Acrolein                   | 2.25  | 56   | 164      | 0.536  | ug/l #  | 1        |
| 16) Acetone                    | 2.43  | 43   | 8011     | 4.598  | ug/l    | 94       |
| 20) Methylene Chloride         | 2.85  | 84   | 1084     | 0.304  | ug/l #  | 75       |
| 24) 1,1-Dichloroethane         | 3.68  | 63   | 3261     | 0.581  | ug/l #  | 94       |
| 25) 2-Butanone                 | 4.69  | 43   | 1779     | 0.711  | ug/l #  | 78       |
| 31) Cyclohexane                | 5.65  | 56   | 7302     | 1.483  | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 25689    | 5.898  | ug/l #  | 51       |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 34098    | 6.908  | ug/l #  | 15       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 7729     | 1.572  | ug/l    | 96       |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 115274   | 28.450 | ug/l #  | 35       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 115274   | 85.798 | ug/l #  | 11       |

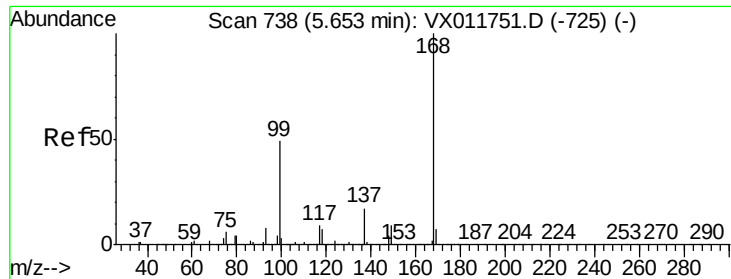
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

Quant Time: Aug 28 02:25:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 01:48:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

Instrument :

MSVOA\_X

ClientSampleId :

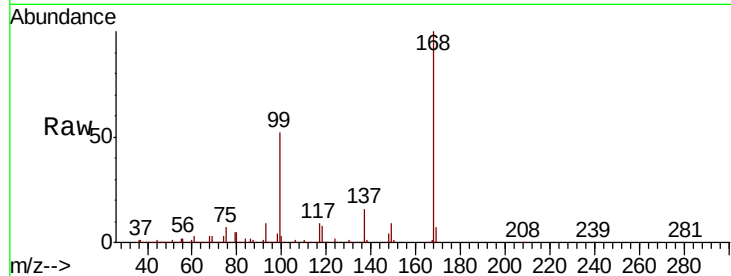
MW-3

Tgt Ion:168 Resp: 398725

Ion Ratio Lower Upper

168 100

99 52.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

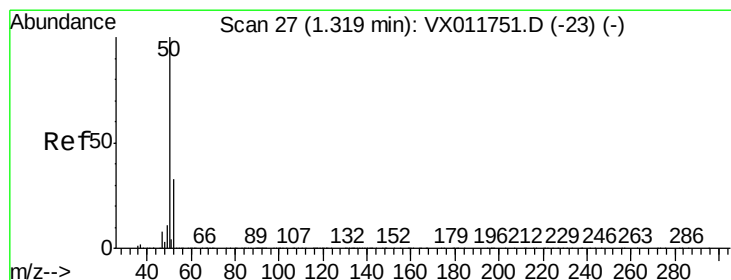
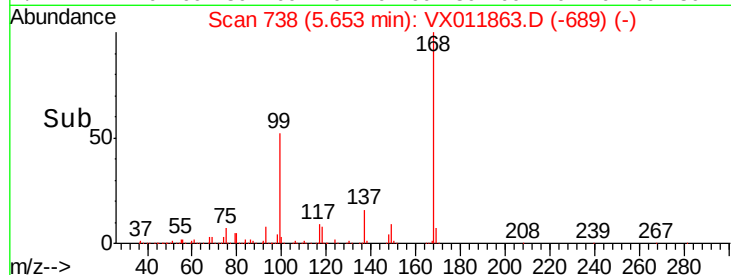
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.229 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX011863.D

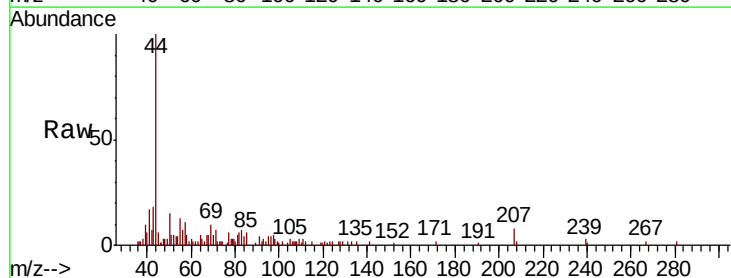
Acq: 27 Aug 2019 20:22

Tgt Ion: 50 Resp: 746

Ion Ratio Lower Upper

50 100

52 26.9 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

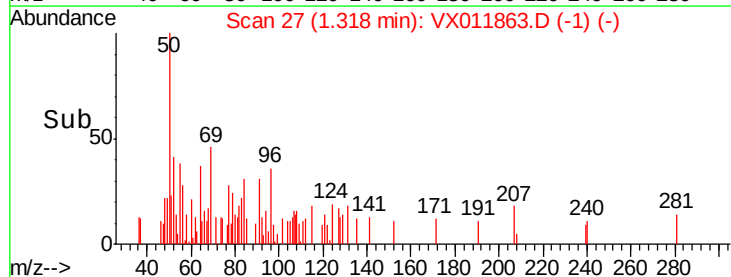
400

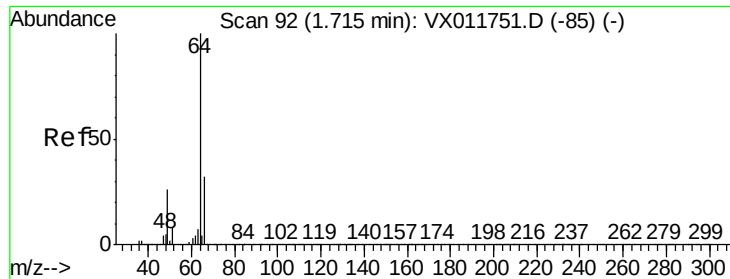
200

0

1.30 1.35

Time-->





#6

Chloroethane

Concen: 2.013 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.10 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

Instrument :

MSVOA\_X

ClientSampled :

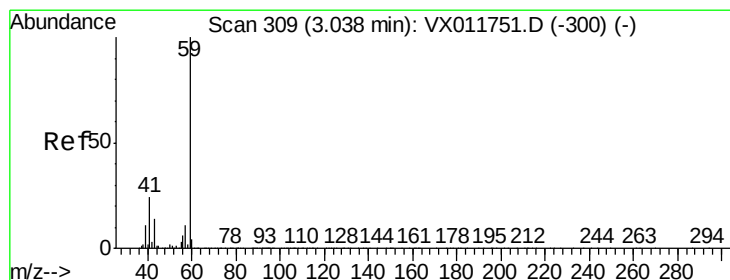
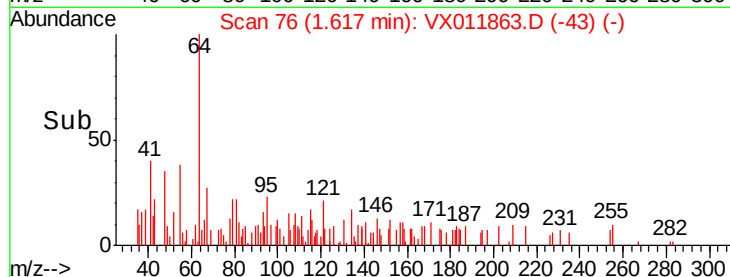
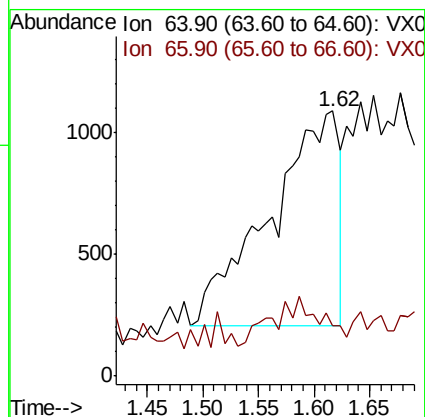
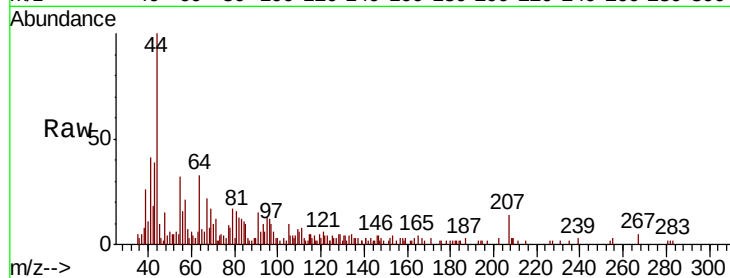
MW-3

Tgt Ion: 64 Resp: 3839

Ion Ratio Lower Upper

64 100

66 1.7 24.9 37.3#



#11

Tert butyl alcohol

Concen: 7.937 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011863.D

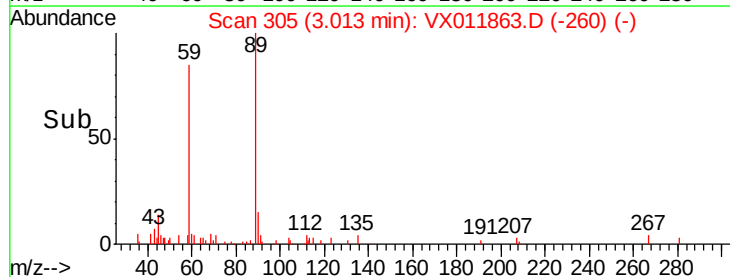
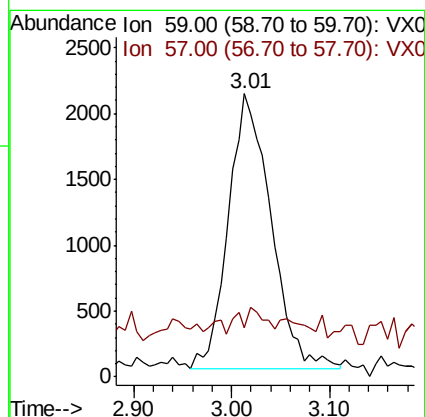
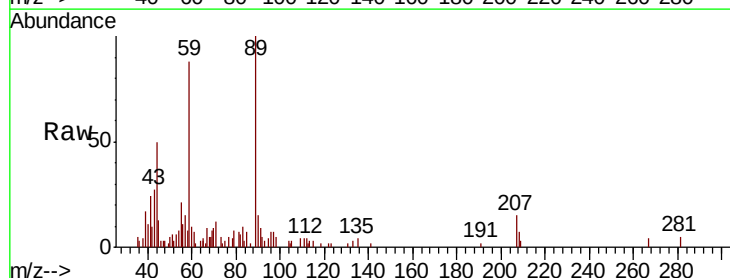
Acq: 27 Aug 2019 20:22

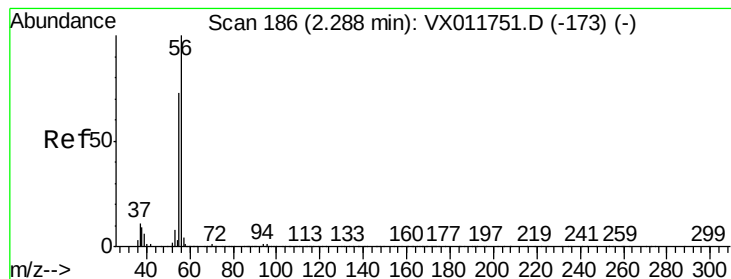
Tgt Ion: 59 Resp: 6282

Ion Ratio Lower Upper

59 100

57 2.4 8.4 12.6#





#13

Acrolein

Concen: 0.536 ug/l

RT: 2.25 min Scan# 179

Delta R.T. -0.04 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

Instrument :

MSVOA\_X

ClientSampleId :

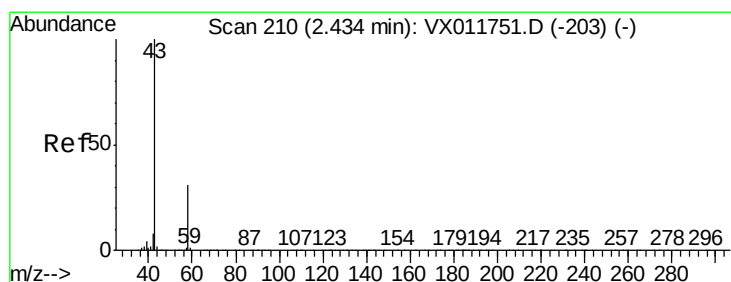
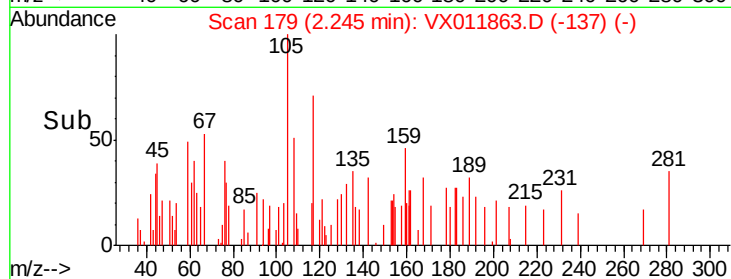
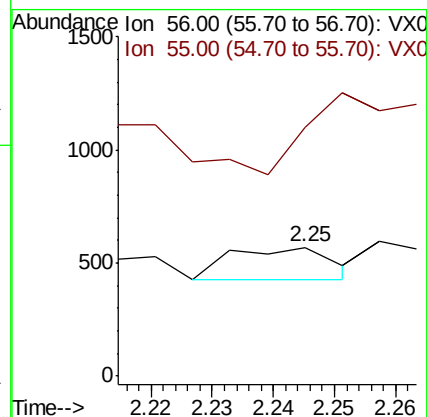
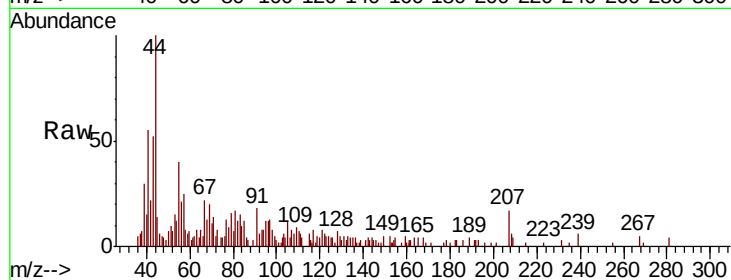
MW-3

Tgt Ion: 56 Resp: 164

Ion Ratio Lower Upper

56 100

55 878.0 54.8 82.2#



#16

Acetone

Concen: 4.598 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011863.D

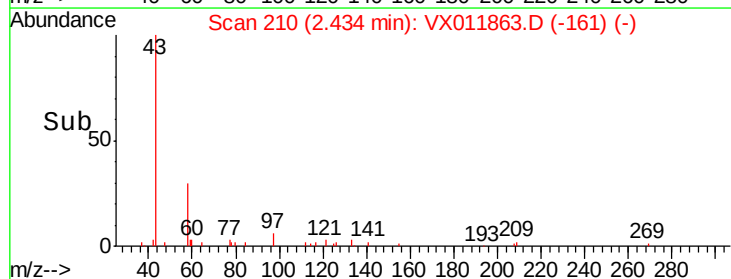
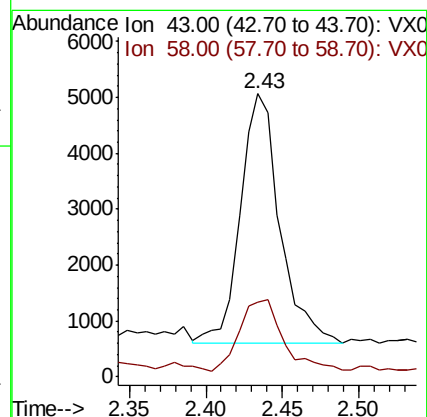
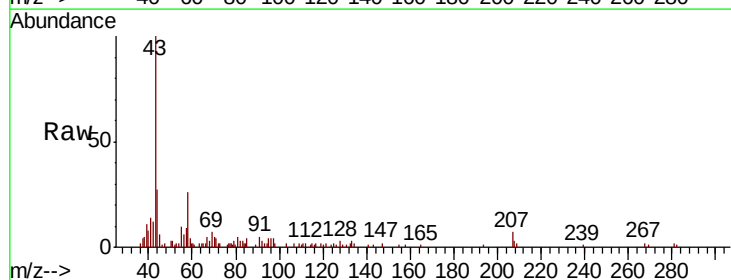
Acq: 27 Aug 2019 20:22

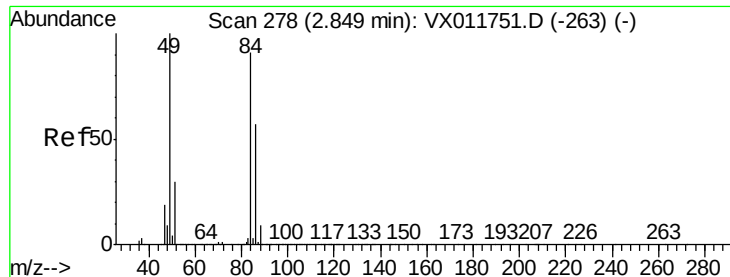
Tgt Ion: 43 Resp: 8011

Ion Ratio Lower Upper

43 100

58 27.1 24.4 36.6

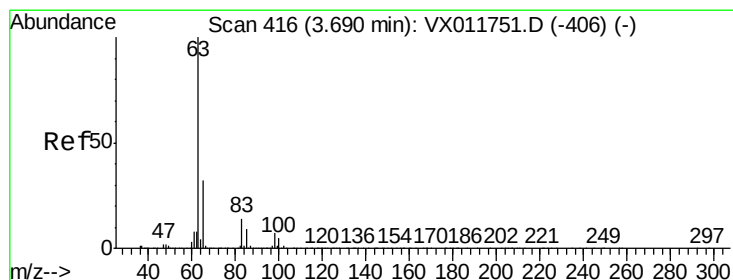
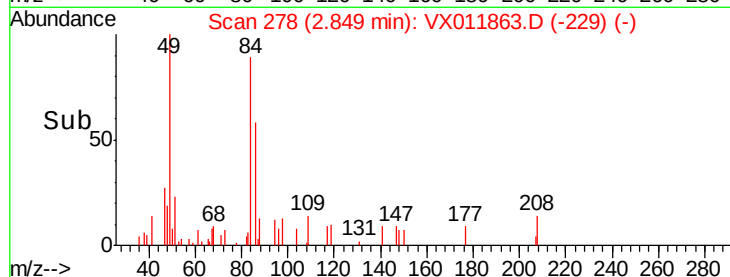
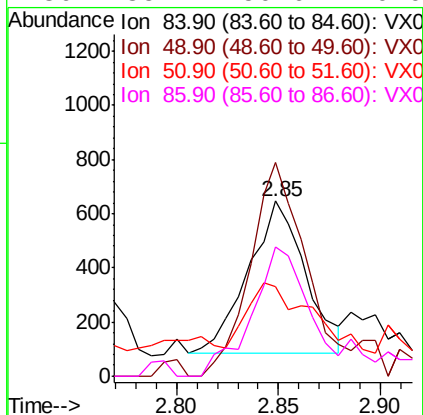
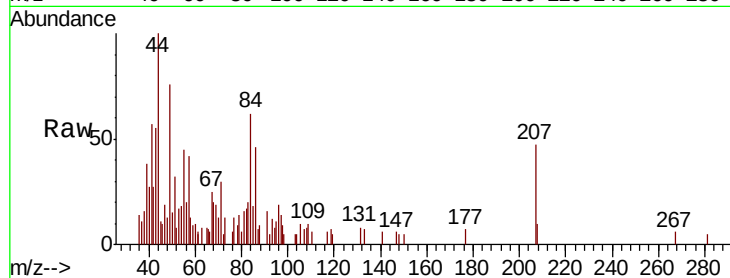




#20  
Methylene Chloride  
Concen: 0.304 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. -0.00 min  
Lab File: VX011863.D  
Acq: 27 Aug 2019 20:22

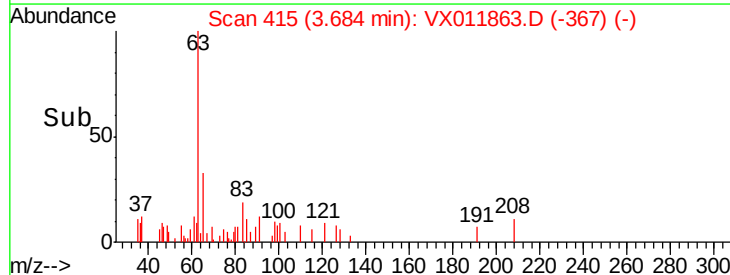
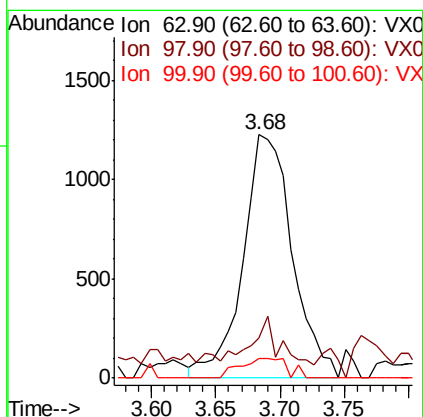
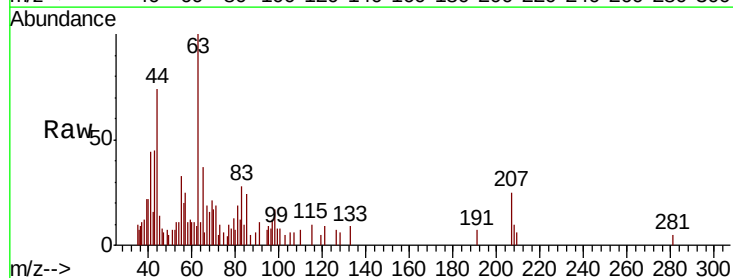
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-3

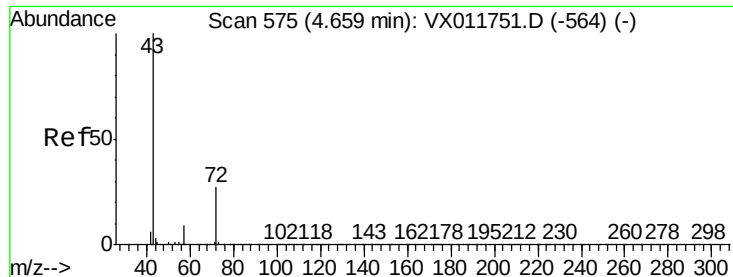
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 1084   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 140.9 | 88.3  | 132.5# |
| 51       | 35.4  | 26.2  | 39.2   |
| 86       | 85.2  | 50.6  | 76.0#  |



#24  
1,1-Dichloroethane  
Concen: 0.581 ug/l  
RT: 3.68 min Scan# 415  
Delta R.T. -0.01 min  
Lab File: VX011863.D  
Acq: 27 Aug 2019 20:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 3261  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 8.8   | 3.7   | 11.1  |
| 100      | 8.0   | 2.3   | 6.9#  |





#25

2-Butanone

Concen: 0.711 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.03 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

Instrument :

MSVOA\_X

ClientSampleId :

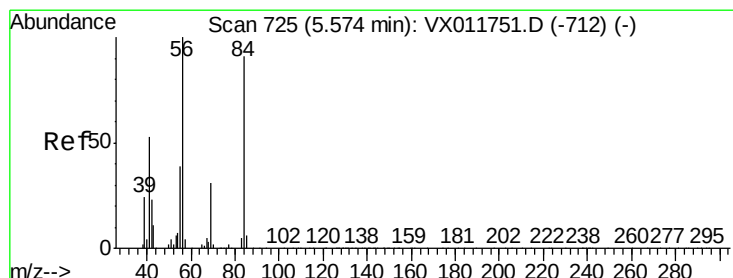
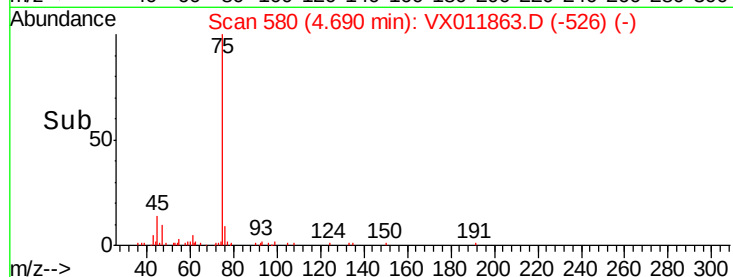
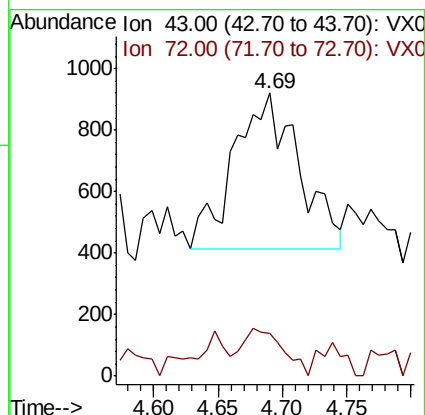
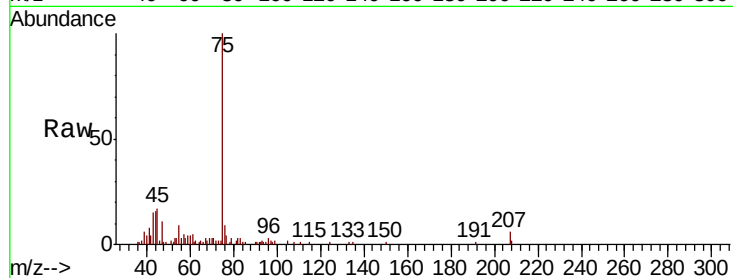
MW-3

Tgt Ion: 43 Resp: 1779

Ion Ratio Lower Upper

43 100

72 15.7 21.8 32.6#



#31

Cyclohexane

Concen: 1.483 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

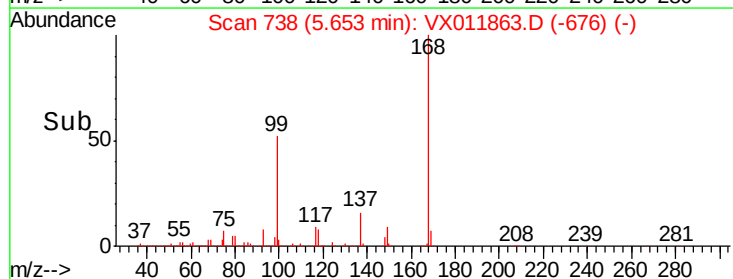
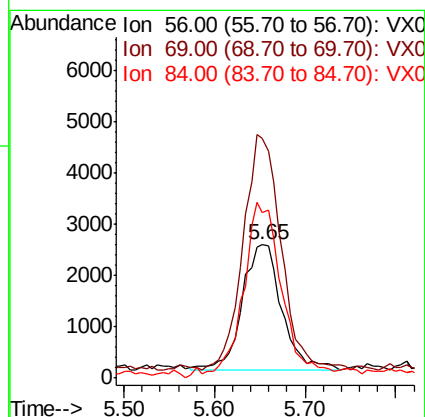
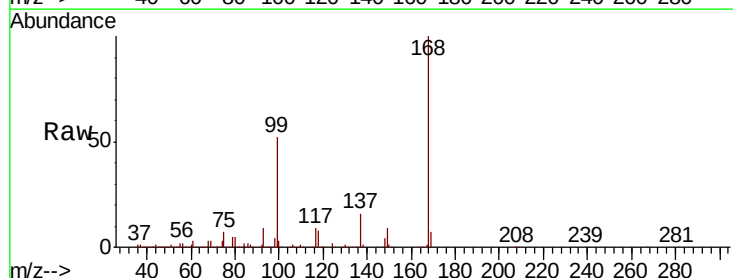
Tgt Ion: 56 Resp: 7302

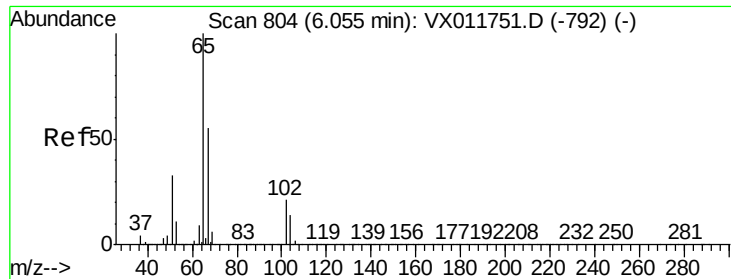
Ion Ratio Lower Upper

56 100

69 184.5 24.5 36.7#

84 130.6 72.7 109.1#

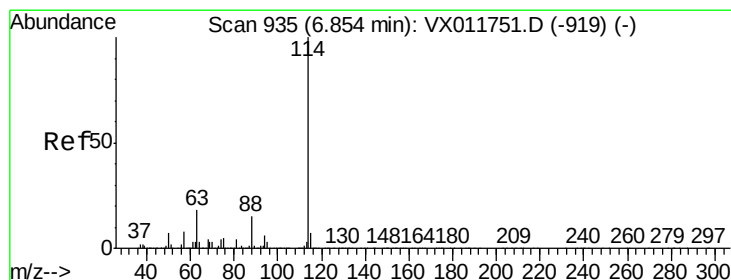
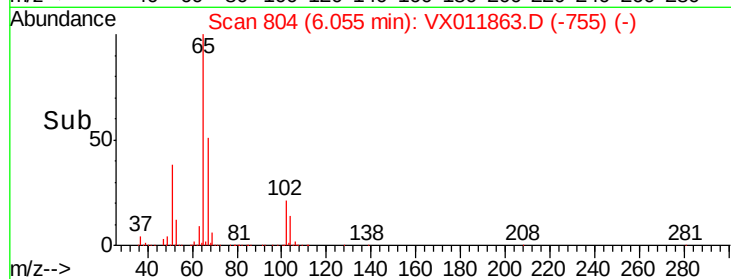
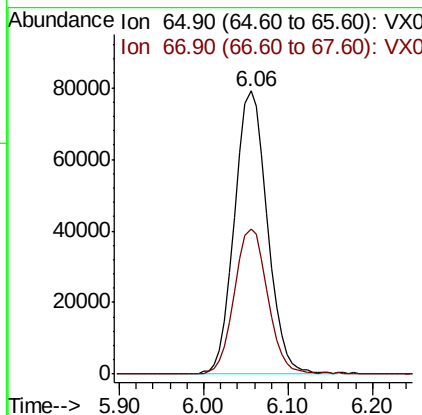
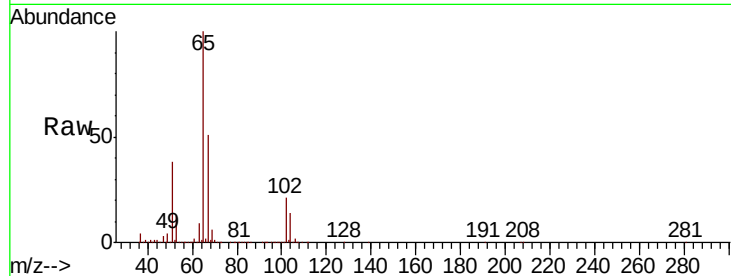




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.098 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. -0.00 min  
 Lab File: VX011863.D  
 Acq: 27 Aug 2019 20:22

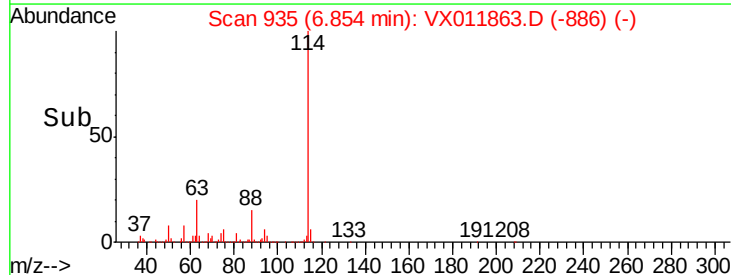
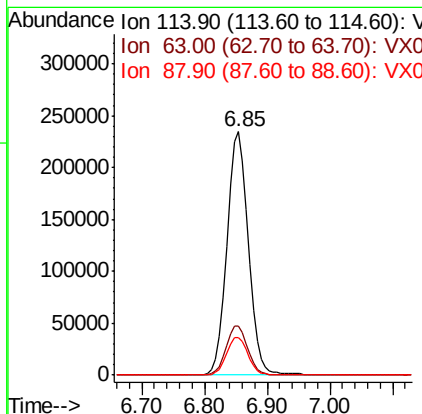
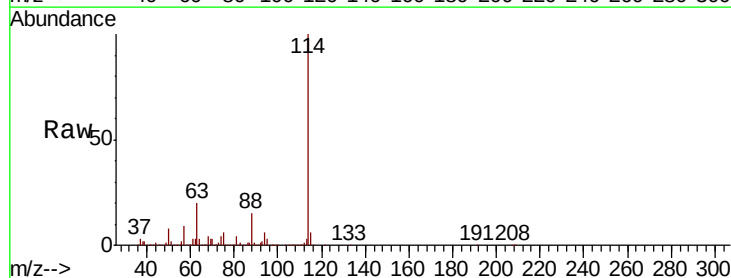
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-3

Tgt Ion: 65 Resp: 208677  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 107.8

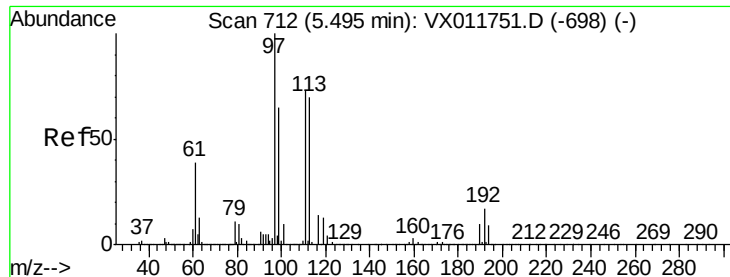


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.00 min  
 Lab File: VX011863.D  
 Acq: 27 Aug 2019 20:22

Tgt Ion: 114 Resp: 555411  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 36.8  
 88 15.4 0.0 30.2







#35

Dibromofluoromethane

Concen: 48.529 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

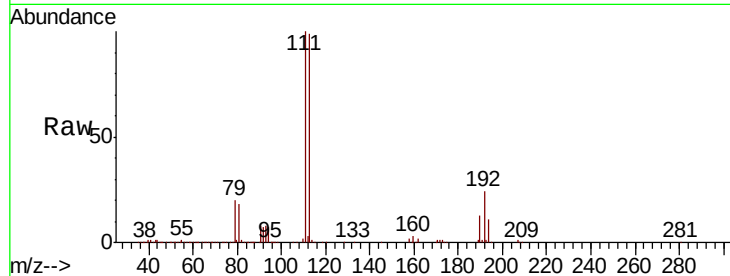
Tgt Ion:113 Resp: 174293

Ion Ratio Lower Upper

113 100

111 102.2 81.0 121.4

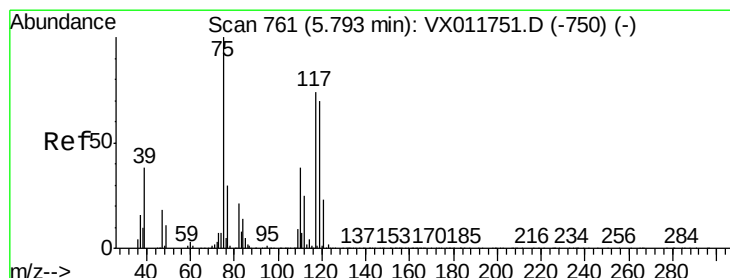
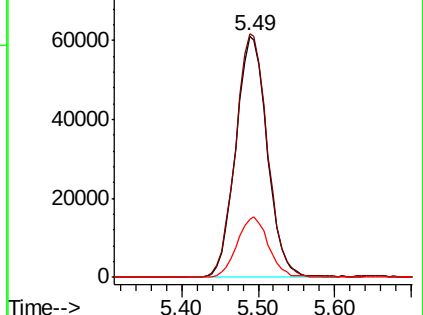
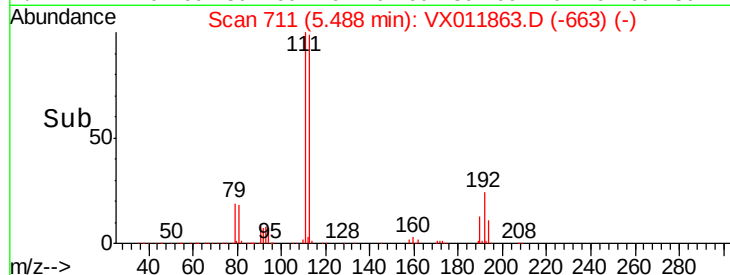
192 25.0 19.9 29.9



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: 5.898 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

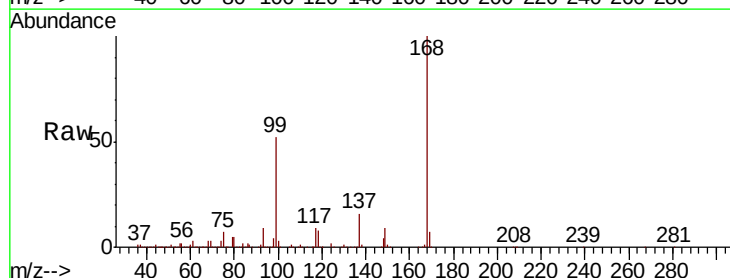
Tgt Ion: 75 Resp: 25689

Ion Ratio Lower Upper

75 100

110 11.7 19.0 57.0#

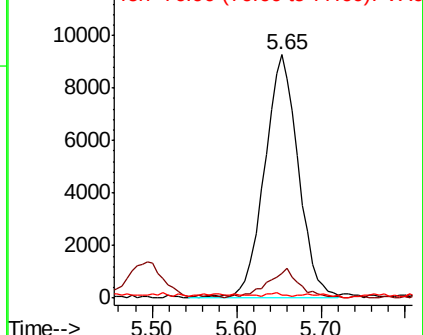
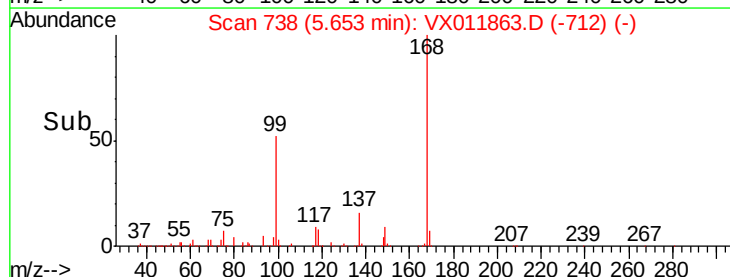
77 0.5 24.6 36.8#

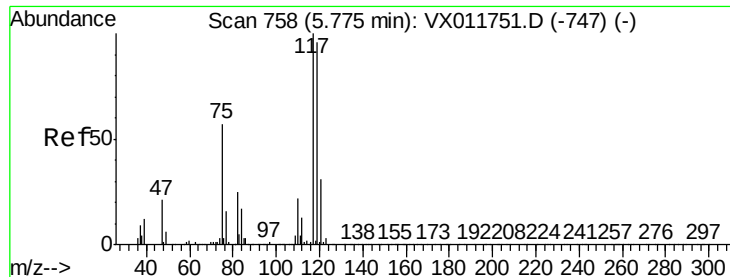


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.908 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011863.D

Acq: 27 Aug 2019 20:22

Instrument :

MSVOA\_X

ClientSampleId :

MW-3

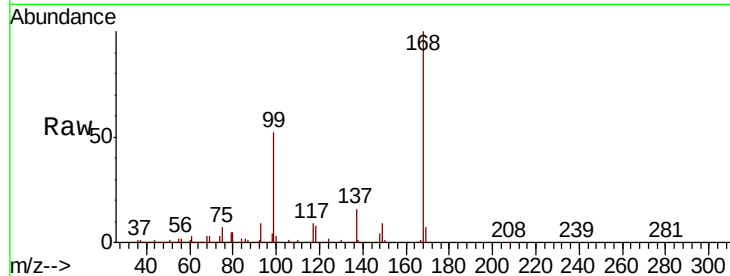
Tgt Ion:117 Resp: 34098

Ion Ratio Lower Upper

117 100

119 4.4 76.6 114.8#

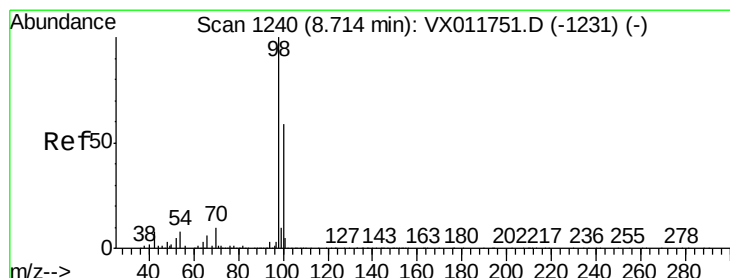
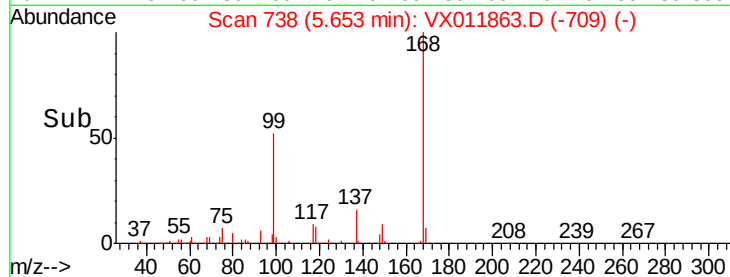
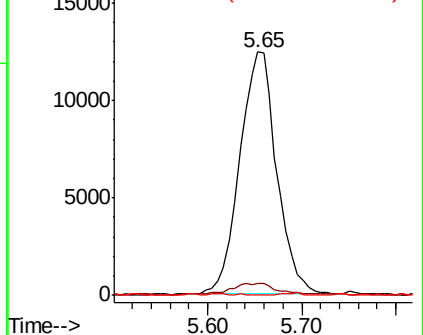
121 0.0 25.2 37.8#



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



#50

Toluene-d8

Concen: 51.044 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011863.D

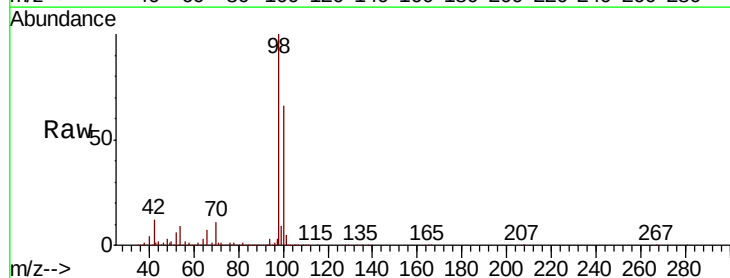
Acq: 27 Aug 2019 20:22

Tgt Ion: 98 Resp: 639436

Ion Ratio Lower Upper

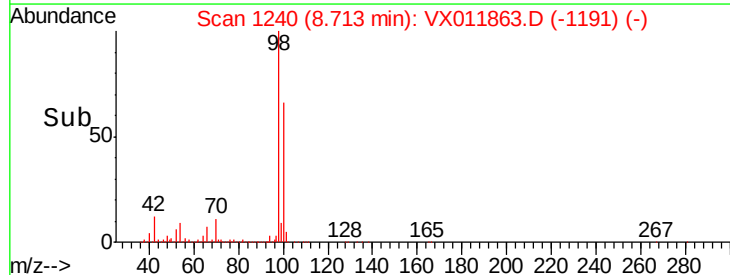
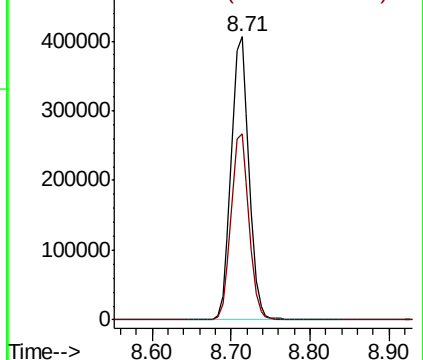
98 100

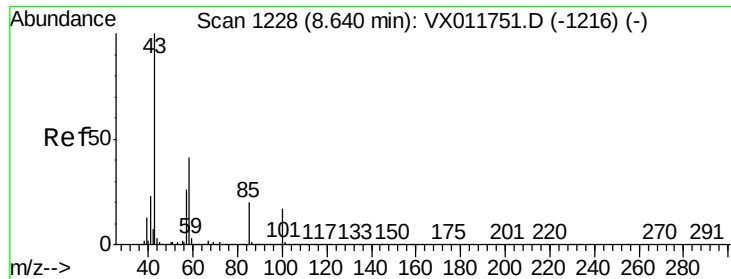
100 66.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

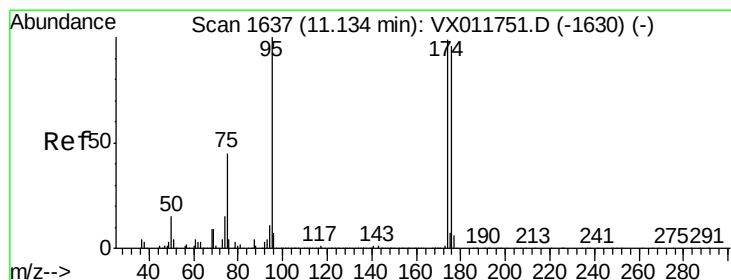
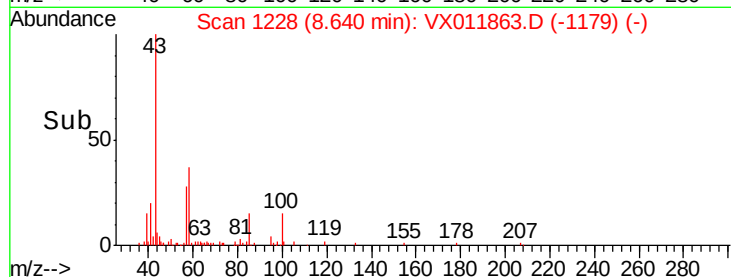
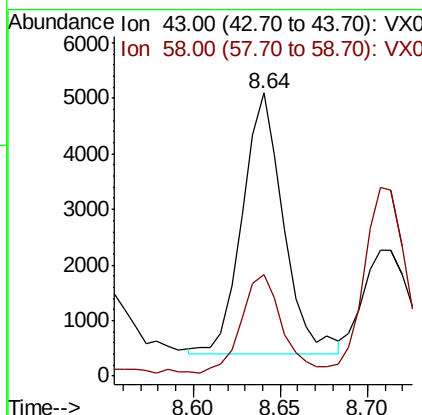
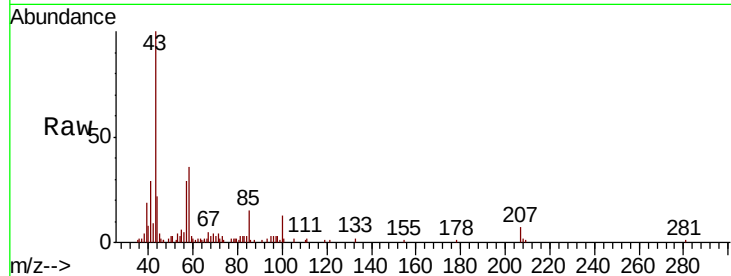




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.572 ug/l  
 RT: 8.64 min Scan# 1228  
 Delta R.T. -0.00 min  
 Lab File: VX011863.D  
 Acq: 27 Aug 2019 20:22

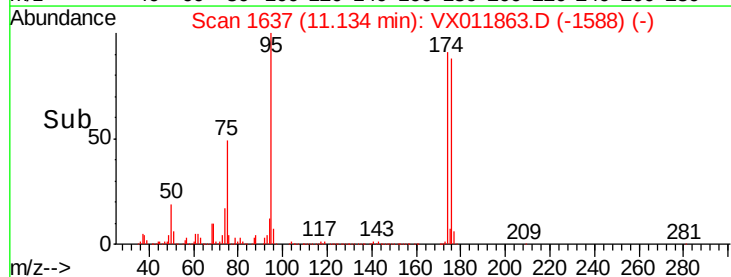
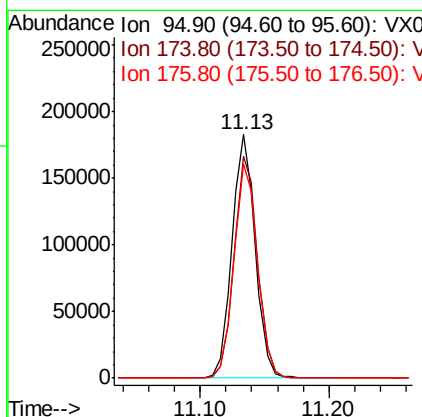
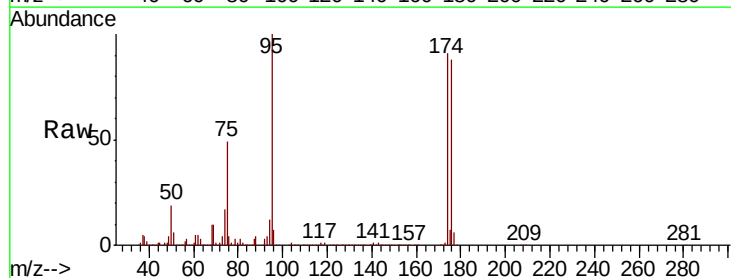
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-3

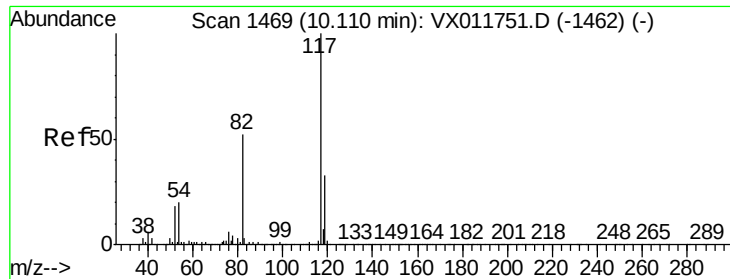
Tgt Ion: 43 Resp: 7729  
 Ion Ratio Lower Upper  
 43 100  
 58 37.5 31.8 47.6



#62  
 4-Bromofluorobenzene  
 Concen: 46.456 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.00 min  
 Lab File: VX011863.D  
 Acq: 27 Aug 2019 20:22

Tgt Ion: 95 Resp: 230027  
 Ion Ratio Lower Upper  
 95 100  
 174 91.7 0.0 197.4  
 176 89.6 0.0 194.4

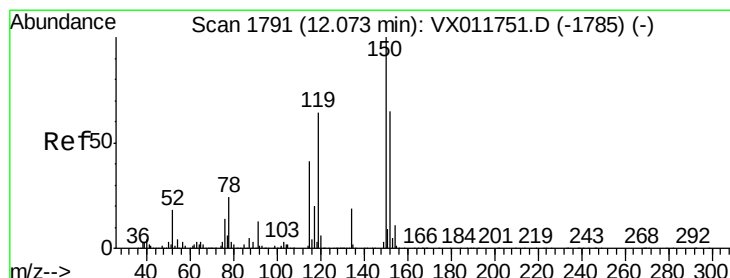
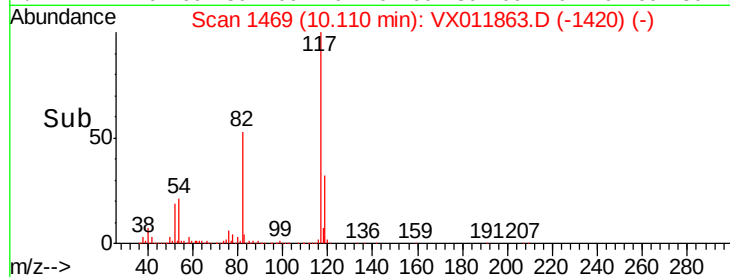
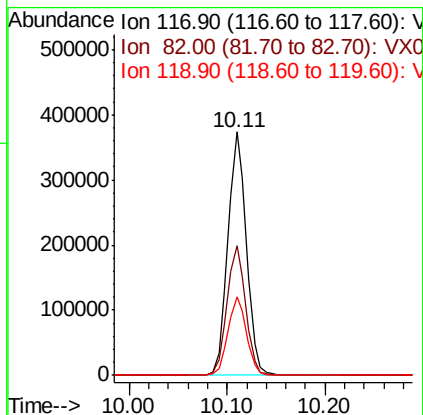
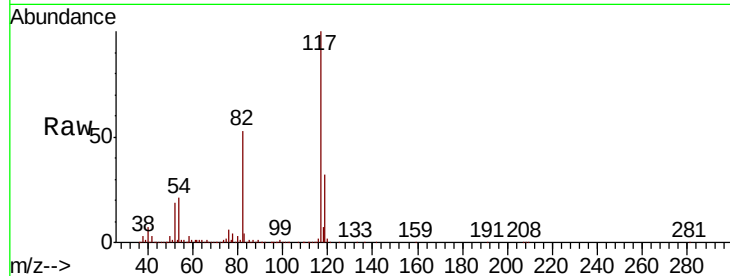




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX011863.D  
Acq: 27 Aug 2019 20:22

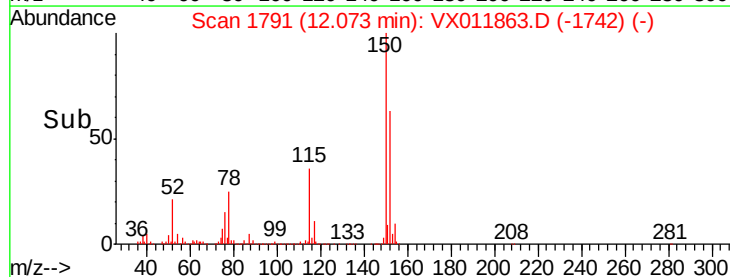
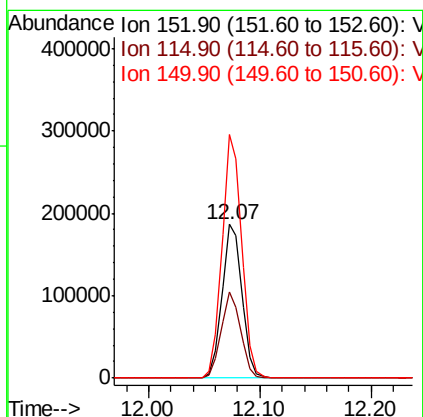
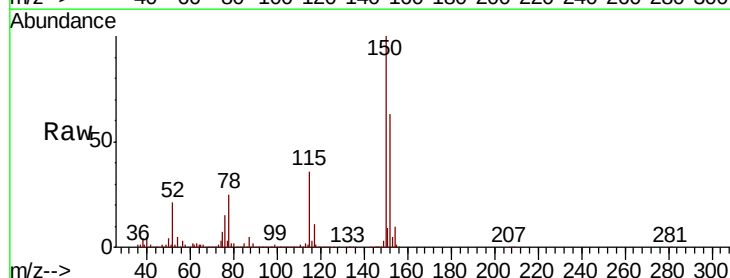
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3

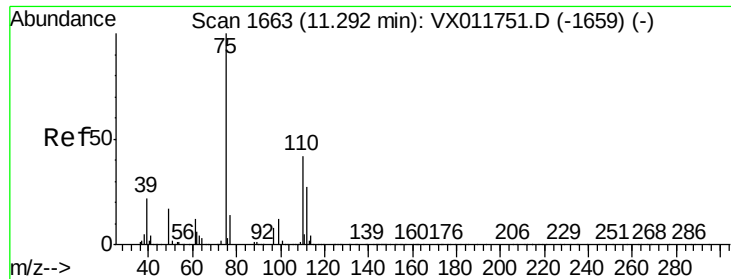
Tgt Ion:117 Resp: 490343  
Ion Ratio Lower Upper  
117 100  
82 53.3 41.7 62.5  
119 32.4 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.00 min  
Lab File: VX011863.D  
Acq: 27 Aug 2019 20:22

Tgt Ion:152 Resp: 230916  
Ion Ratio Lower Upper  
152 100  
115 54.6 37.3 111.8  
150 156.5 0.0 343.0

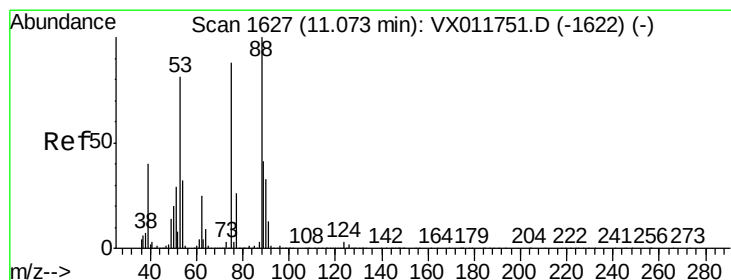
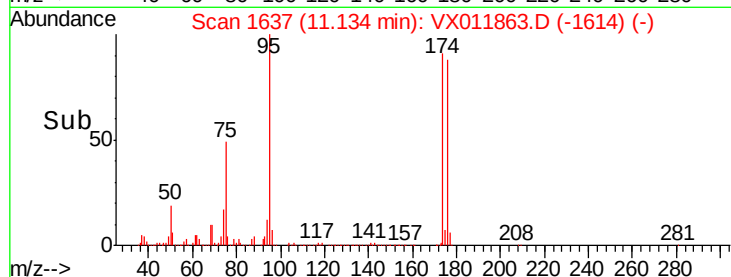
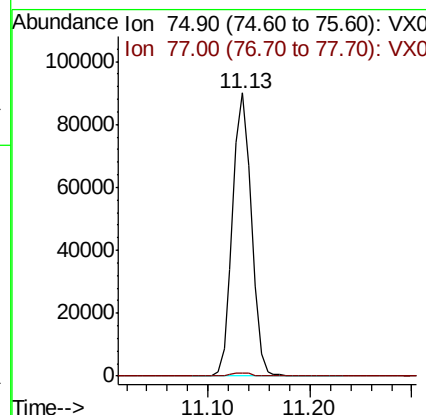
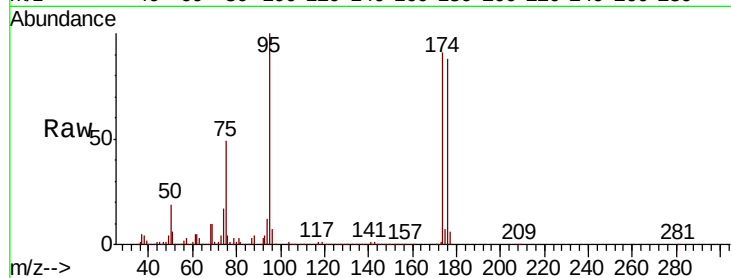




#76  
 1,2,3-Trichloropropane  
 Concen: 28.450 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX011863.D  
 Acq: 27 Aug 2019 20:22

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-3

Tgt Ion: 75 Resp: 115274  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 21.1 63.3#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 85.798 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX011863.D  
 Acq: 27 Aug 2019 20:22

Tgt Ion: 75 Resp: 115274  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.1 115.7#  
 89 0.1 38.5 57.7#

