

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX092619\  
 Data File : VX012681.D  
 Acq On : 26 Sep 2019 18:00  
 Operator : JC/SP  
 Sample : K5049-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-5

Quant Time: Sep 26 23:36:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

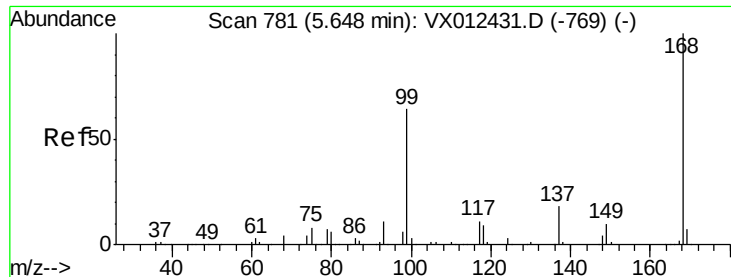
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 164701   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 282458   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 234600   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 85332    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 119791   | 49.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.90%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 85308    | 50.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.42% |          |
| 50) Toluene-d8              | 8.71  | 98   | 330063   | 50.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.90% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 110536   | 43.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.78%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 6) Chloroethane                | 1.72  | 64   | 415      | 0.291  | ug/l # | 83     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 662      | 1.105  | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 93       | 10.500 | ug/l # | 1      |
| 16) Acetone                    | 2.43  | 43   | 1664     | 1.310  | ug/l # | 83     |
| 19) Methyl tert-butyl Ether    | 3.18  | 73   | 9298     | 1.387  | ug/l   | 98     |
| 31) Cyclohexane                | 5.65  | 56   | 4332     | 1.298  | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14428    | 5.299  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18325    | 6.626  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 8.71  | 43   | 1635     | 0.498  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 57625    | 25.529 | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 57625    | 73.160 | ug/l # | 8      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012681.D

Acq: 26 Sep 2019 18:00

Instrument :

MSVOA\_X

ClientSampleId :

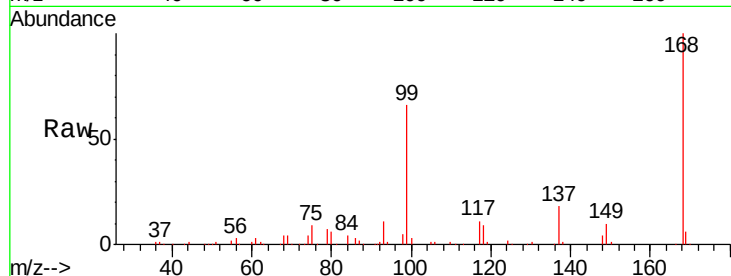
MW-5

Tgt Ion:168 Resp: 164701

Ion Ratio Lower Upper

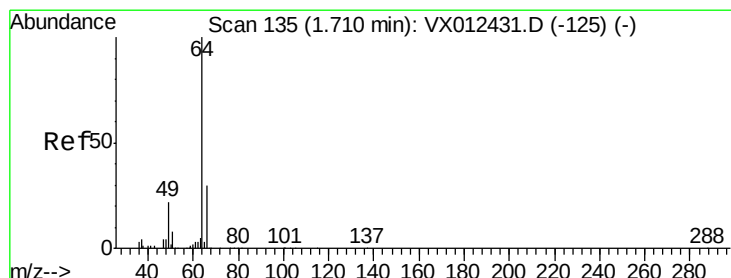
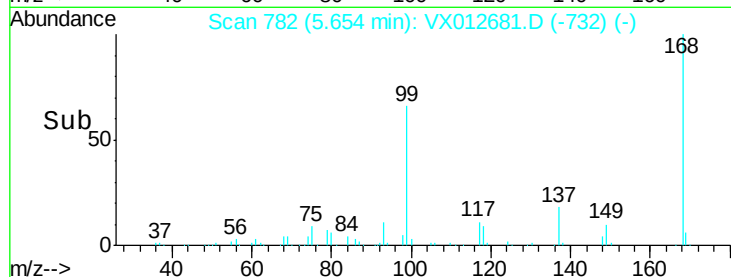
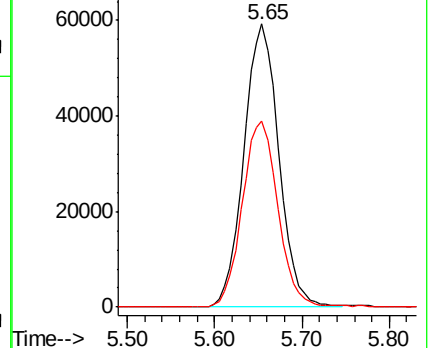
168 100

99 65.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.291 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012681.D

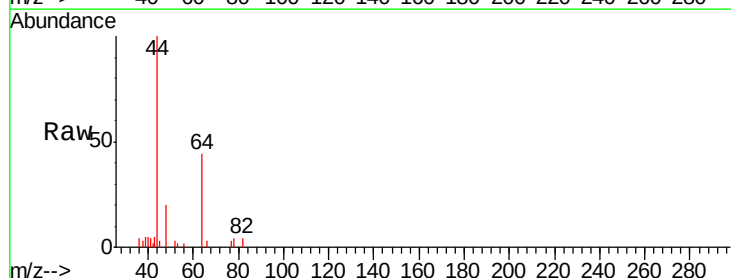
Acq: 26 Sep 2019 18:00

Tgt Ion: 64 Resp: 415

Ion Ratio Lower Upper

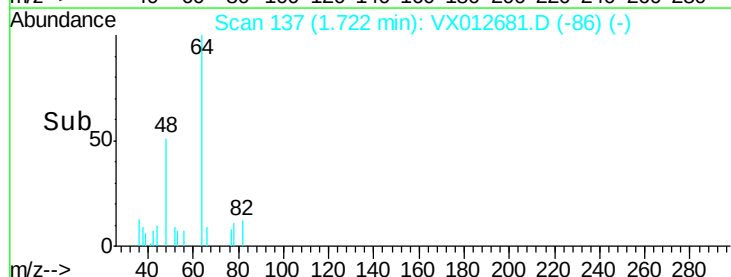
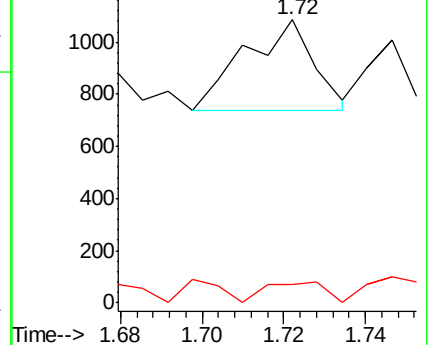
64 100

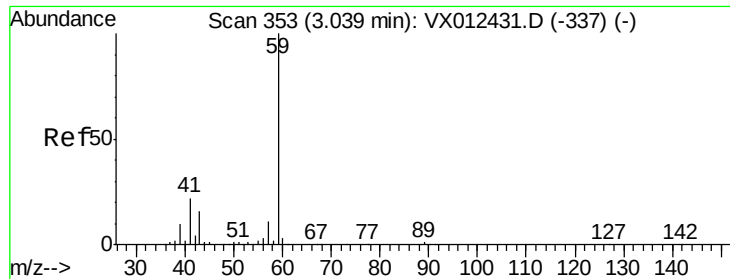
66 20.6 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

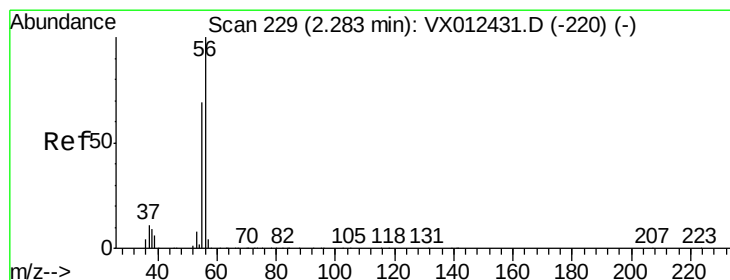
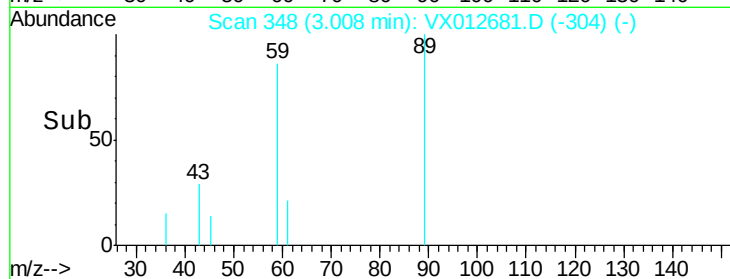
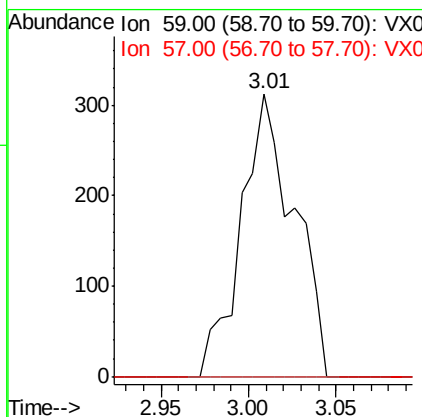
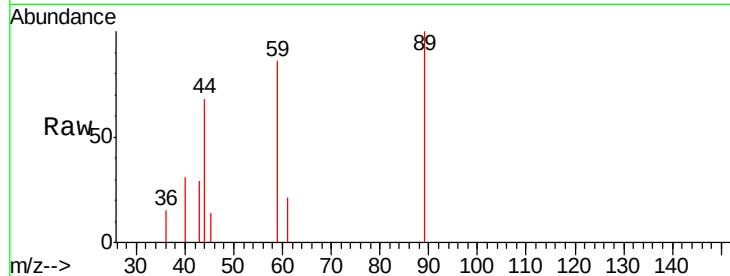




#11  
Tert butyl alcohol  
Concen: 1.105 ug/l  
RT: 3.01 min Scan# 348  
Delta R.T. -0.03 min  
Lab File: VX012681.D  
Acq: 26 Sep 2019 18:00

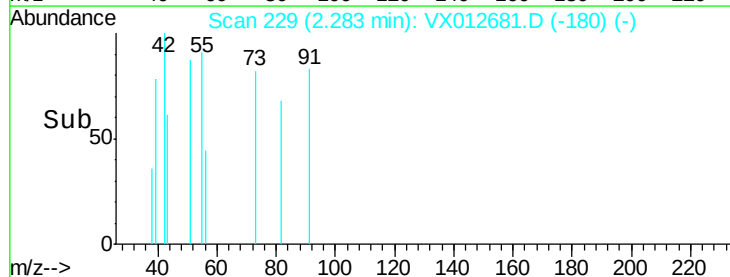
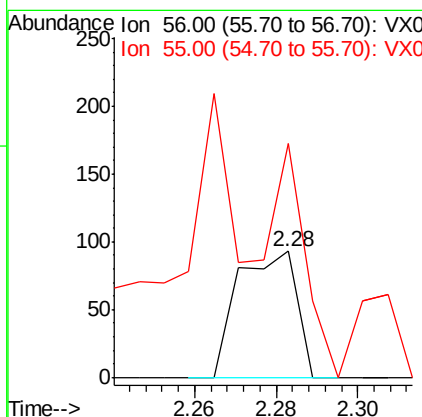
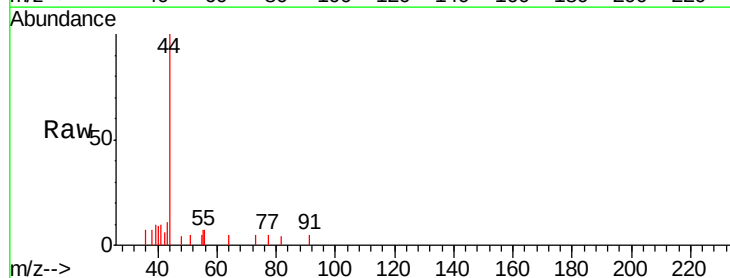
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-5

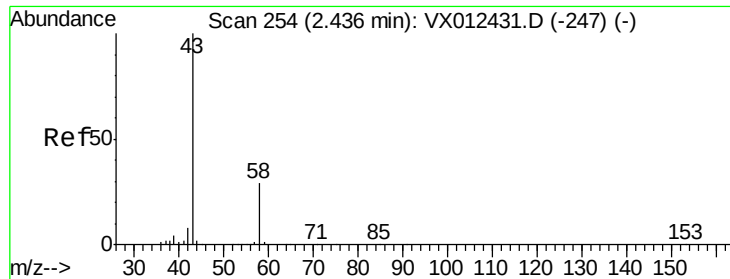
Tgt Ion: 59 Resp: 662  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#13  
Acrolein  
Concen: 10.500 ug/l  
RT: 2.28 min Scan# 229  
Delta R.T. -0.00 min  
Lab File: VX012681.D  
Acq: 26 Sep 2019 18:00

Tgt Ion: 56 Resp: 93  
Ion Ratio Lower Upper  
56 100  
55 262.4 55.8 83.8#





#16

Acetone

Concen: 1.310 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012681.D

Acq: 26 Sep 2019 18:00

Instrument :

MSVOA\_X

ClientSampleId :

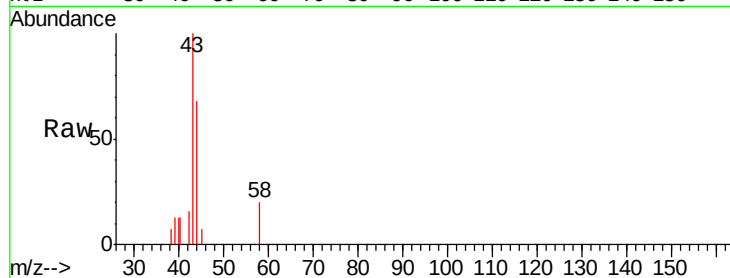
MW-5

Tgt Ion: 43 Resp: 1664

Ion Ratio Lower Upper

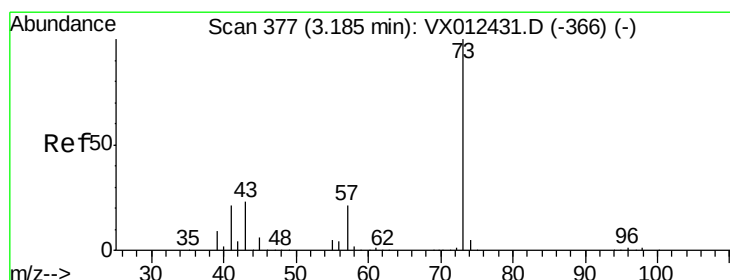
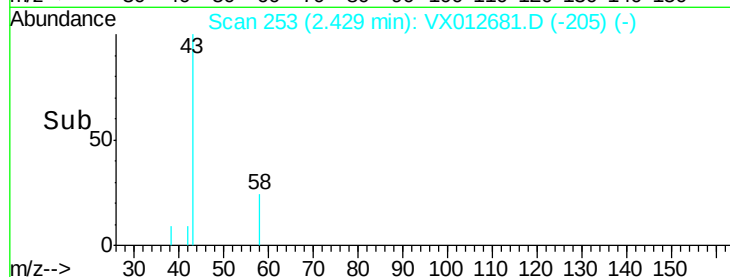
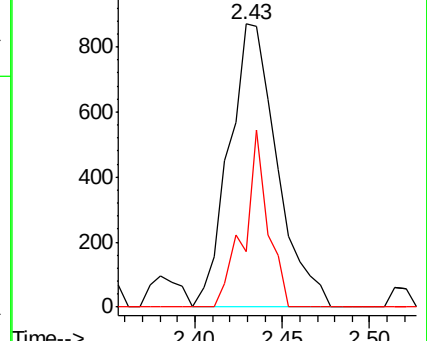
43 100

58 19.8 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#19

Methyl tert-butyl Ether

Concen: 1.387 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.01 min

Lab File: VX012681.D

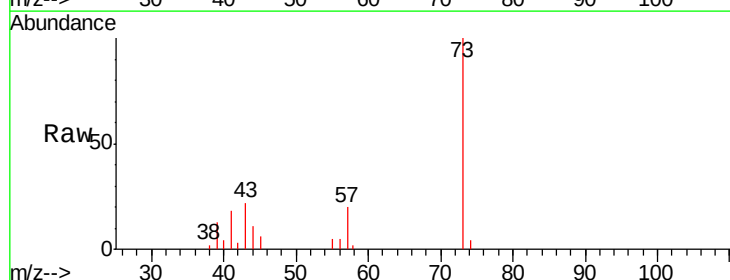
Acq: 26 Sep 2019 18:00

Tgt Ion: 73 Resp: 9298

Ion Ratio Lower Upper

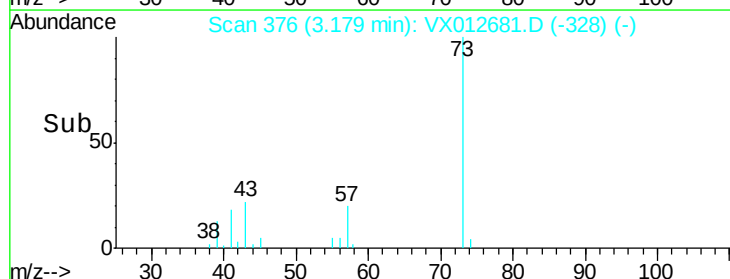
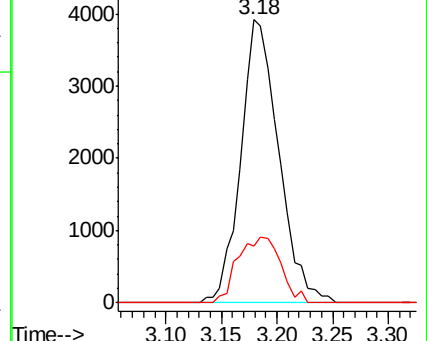
73 100

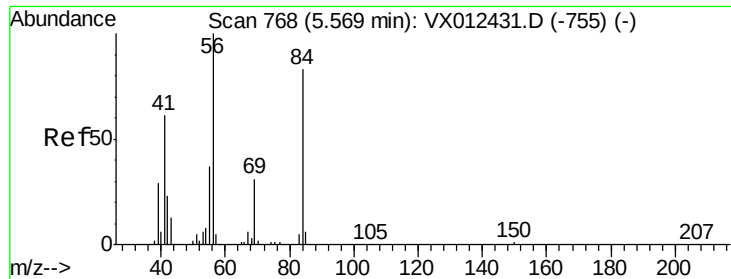
57 20.2 16.8 25.2



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

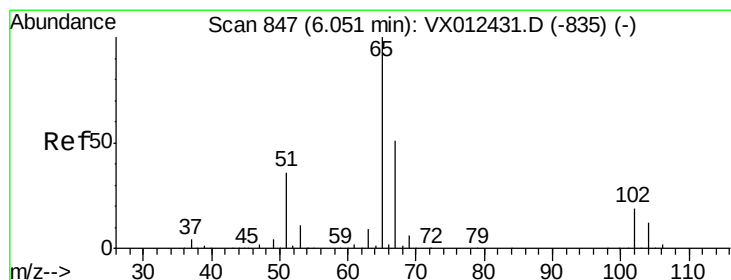
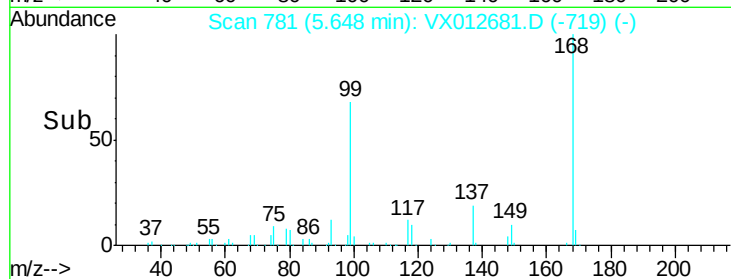
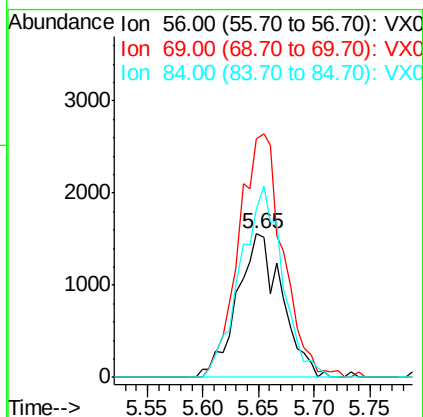
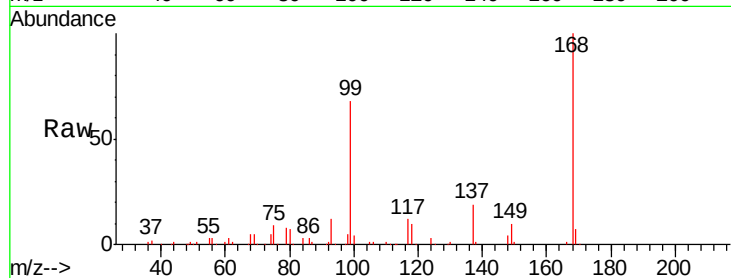




#31  
Cyclohexane  
Concen: 1.298 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. 0.08 min  
Lab File: VX012681.D  
Acq: 26 Sep 2019 18:00

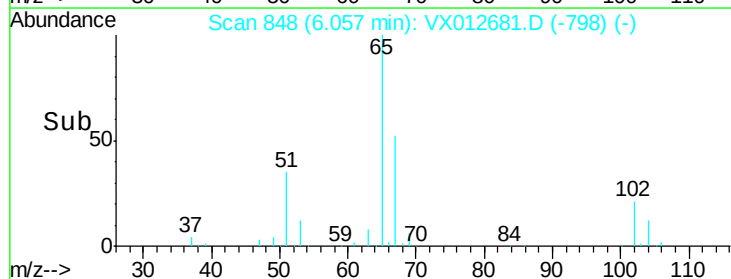
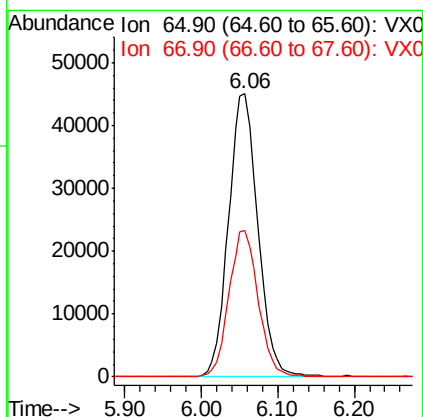
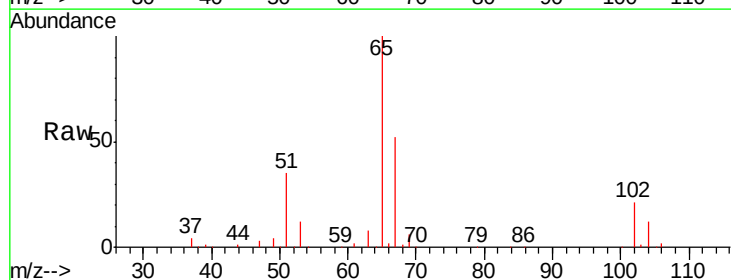
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-5

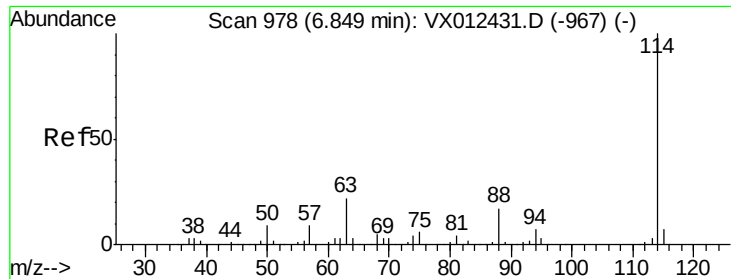
Tgt Ion: 56 Resp: 4332  
Ion Ratio Lower Upper  
56 100  
69 166.4 25.0 37.6#  
84 116.8 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 49.947 ug/l  
RT: 6.06 min Scan# 848  
Delta R.T. 0.01 min  
Lab File: VX012681.D  
Acq: 26 Sep 2019 18:00

Tgt Ion: 65 Resp: 119791  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 101.2

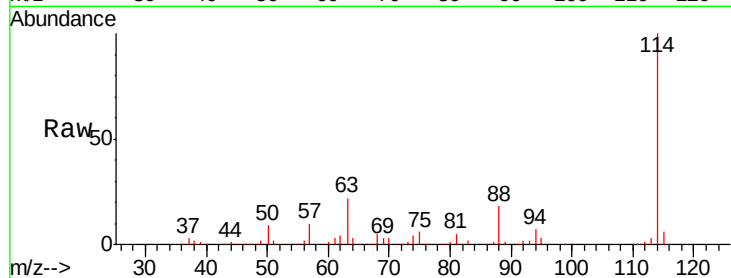




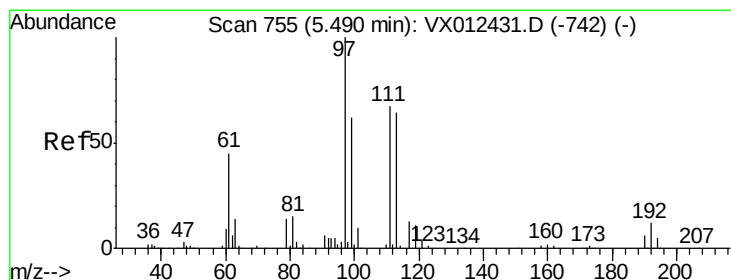
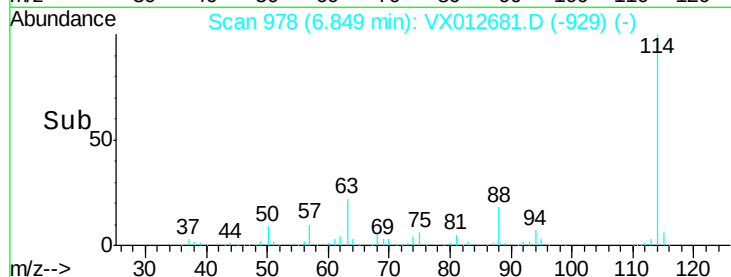
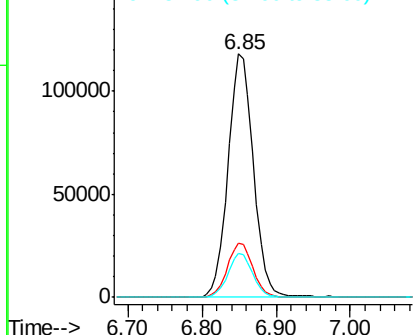
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012681.D  
 Acq: 26 Sep 2019 18:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-5

Tgt Ion:114 Resp: 282458  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 43.2  
 88 18.3 0.0 33.2

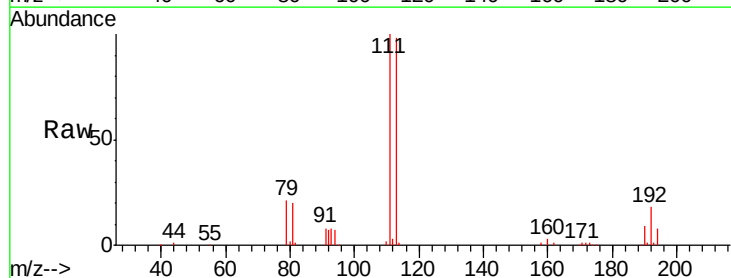


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

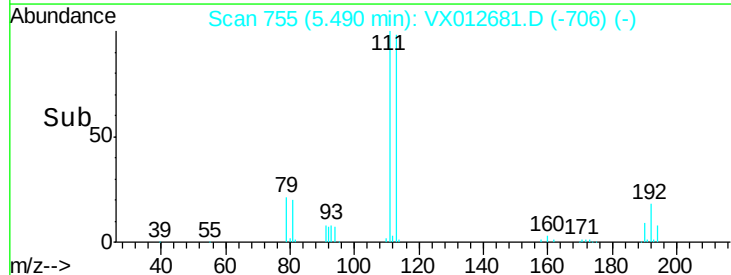
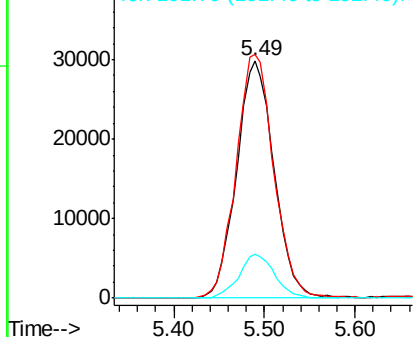


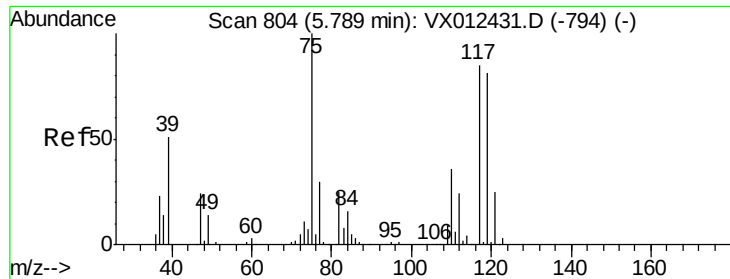
#35  
 Dibromofluoromethane  
 Concen: 50.713 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. -0.00 min  
 Lab File: VX012681.D  
 Acq: 26 Sep 2019 18:00

Tgt Ion:113 Resp: 85308  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 83.4 125.2  
 192 17.6 14.4 21.6



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

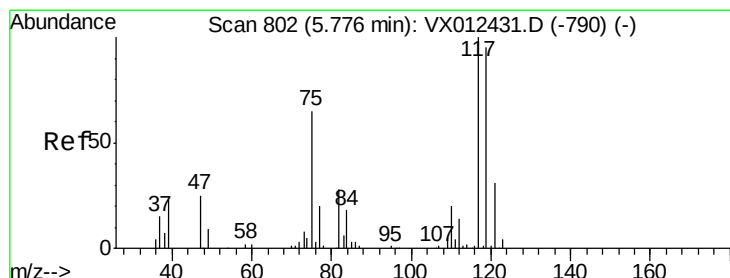
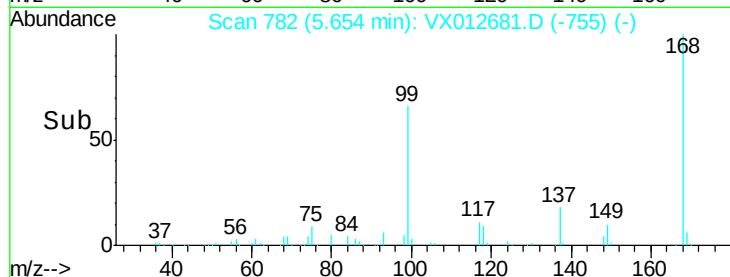
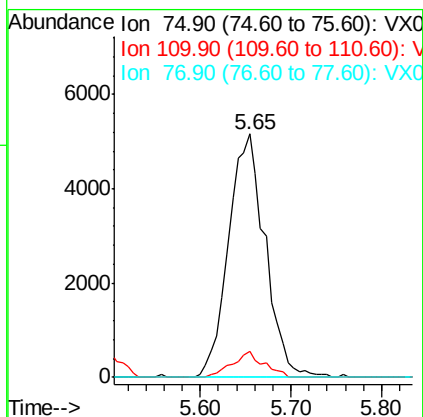
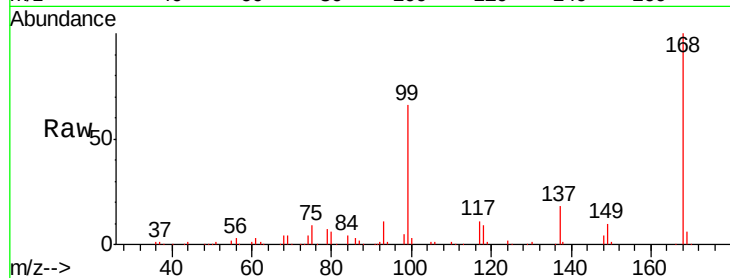




#36  
 1,1-Dichloropropene  
 Concen: 5.299 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.13 min  
 Lab File: VX012681.D  
 Acq: 26 Sep 2019 18:00

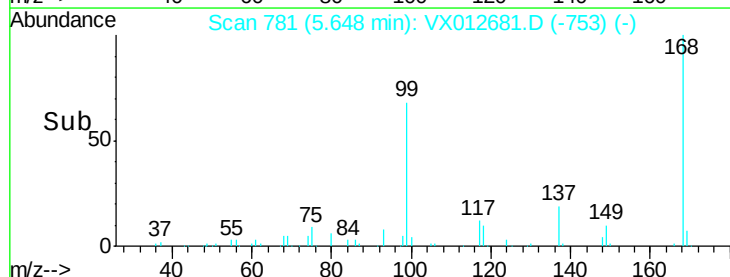
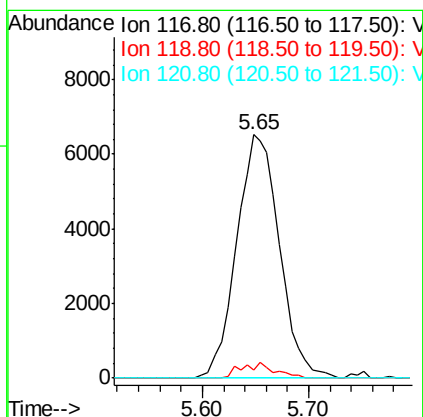
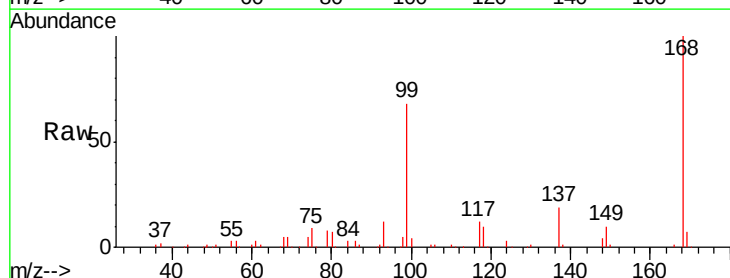
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-5

Tgt Ion: 75 Resp: 14428  
 Ion Ratio Lower Upper  
 75 100  
 110 9.2 16.7 50.0#  
 77 0.0 24.2 36.2#

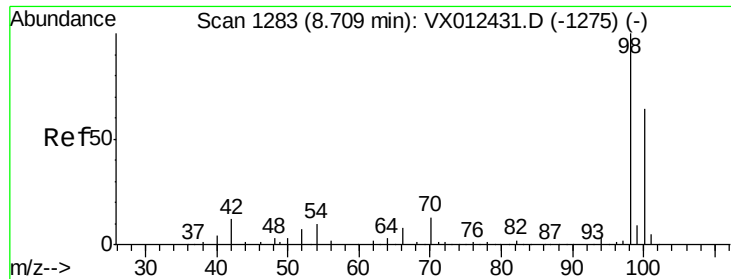


#38  
 Carbon Tetrachloride  
 Concen: 6.626 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.13 min  
 Lab File: VX012681.D  
 Acq: 26 Sep 2019 18:00

Tgt Ion: 117 Resp: 18325  
 Ion Ratio Lower Upper  
 117 100  
 119 3.5 75.7 113.5#  
 121 0.0 24.2 36.4#



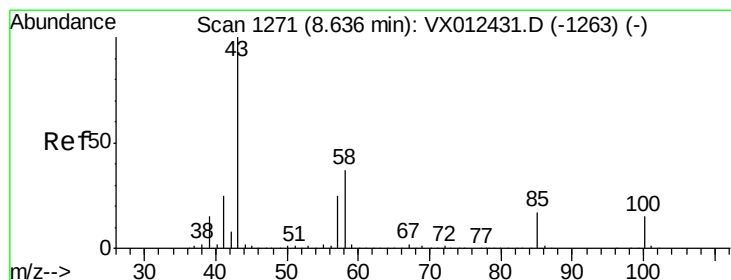
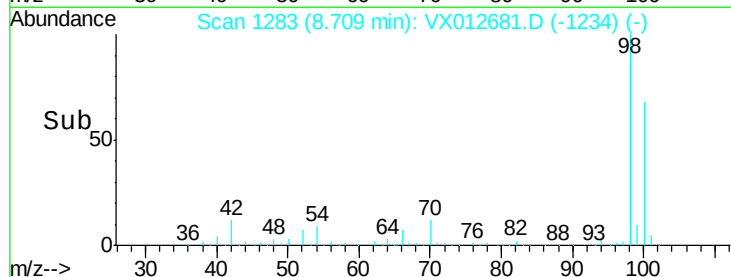
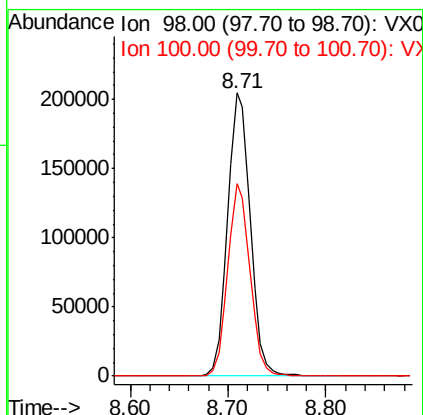
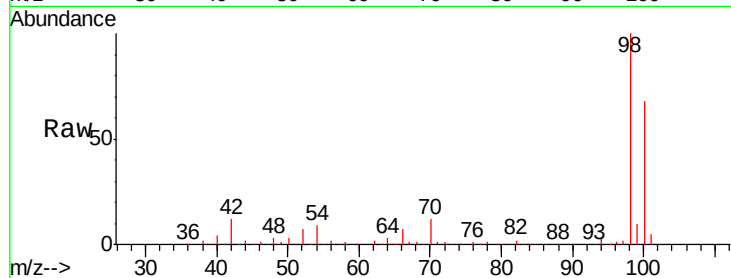




#50  
Toluene-d8  
Concen: 50.951 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012681.D  
Acq: 26 Sep 2019 18:00

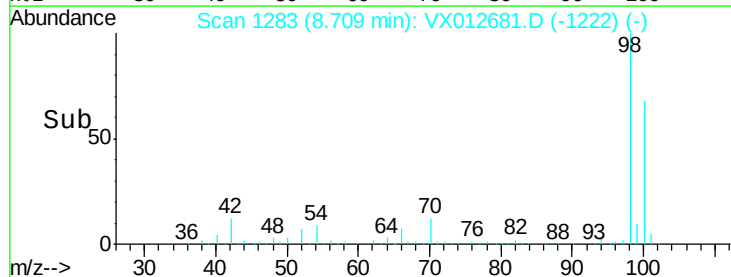
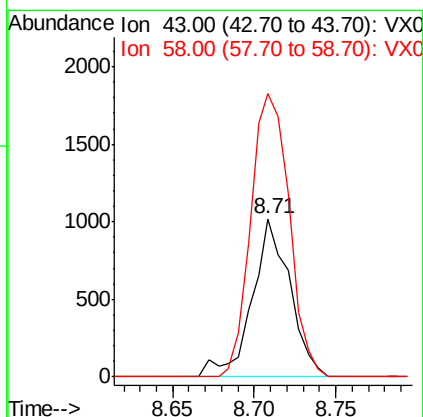
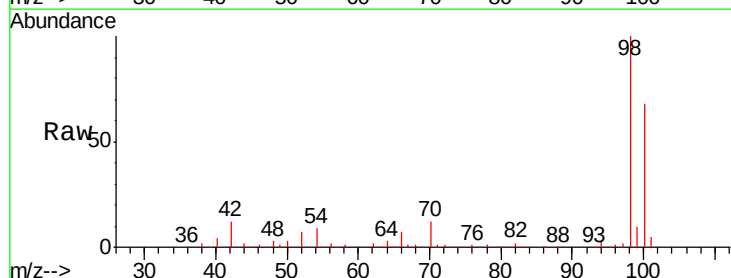
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-5

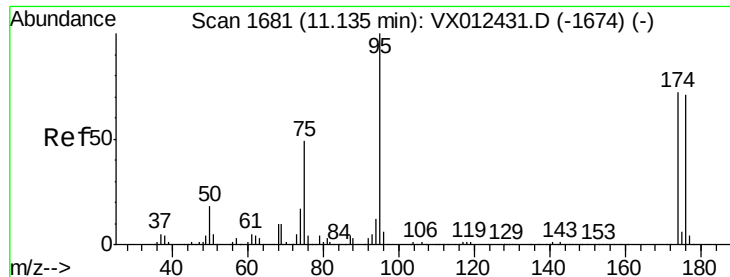
Tgt Ion: 98 Resp: 330063  
Ion Ratio Lower Upper  
98 100  
100 66.8 53.4 80.2



#51  
4-Methyl-2-Pentanone  
Concen: 0.498 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.07 min  
Lab File: VX012681.D  
Acq: 26 Sep 2019 18:00

Tgt Ion: 43 Resp: 1635  
Ion Ratio Lower Upper  
43 100  
58 182.3 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 43.395 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012681.D

Acq: 26 Sep 2019 18:00

Instrument :

MSVOA\_X

ClientSampleId :

MW-5

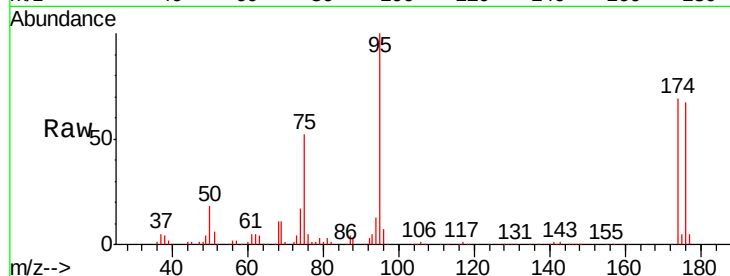
Tgt Ion: 95 Resp: 110536

Ion Ratio Lower Upper

95 100

174 68.3 0.0 140.0

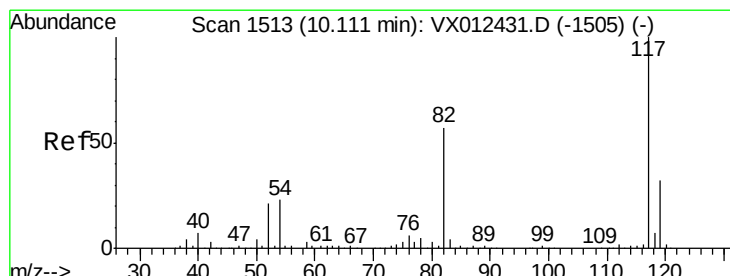
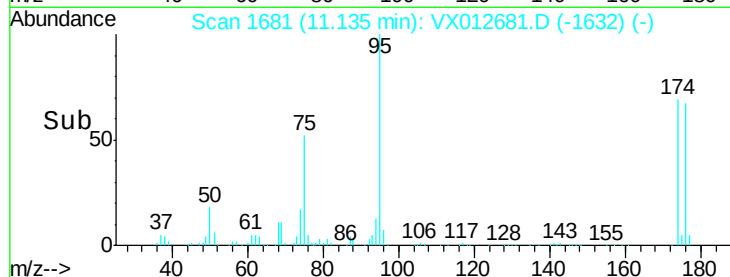
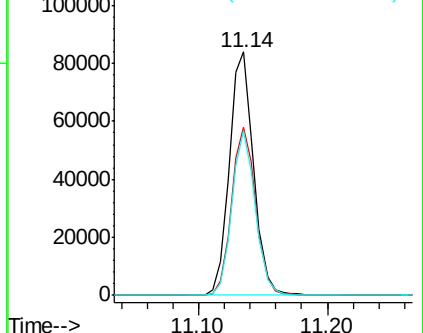
176 65.2 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012681.D

Acq: 26 Sep 2019 18:00

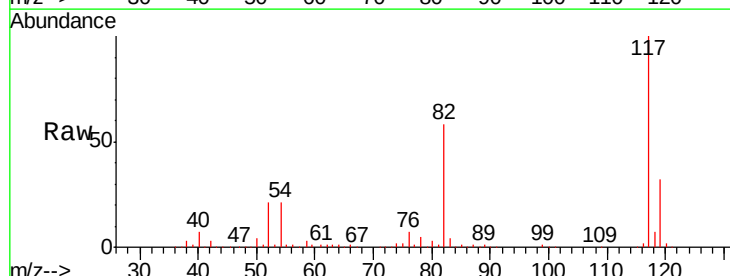
Tgt Ion: 117 Resp: 234600

Ion Ratio Lower Upper

117 100

82 58.0 45.9 68.9

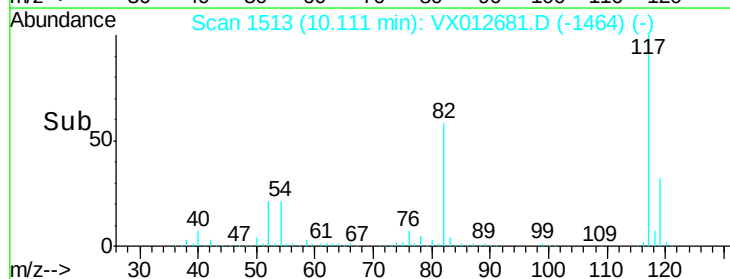
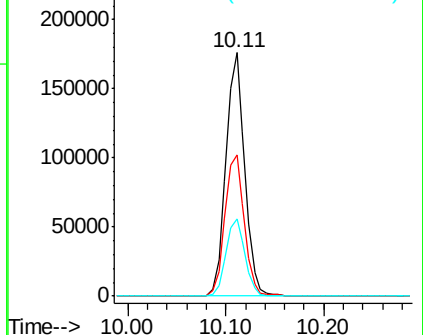
119 31.7 25.3 37.9

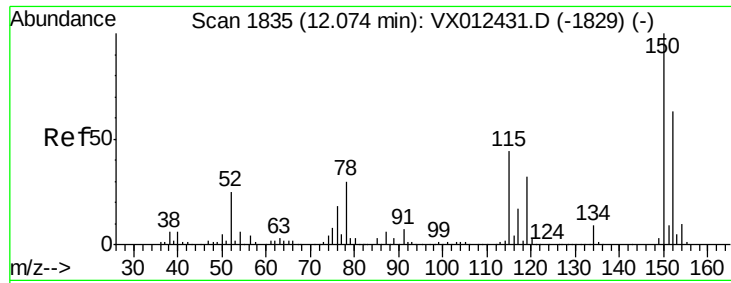


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012681.D

Acq: 26 Sep 2019 18:00

Instrument :

MSVOA\_X

ClientSampleId :

MW-5

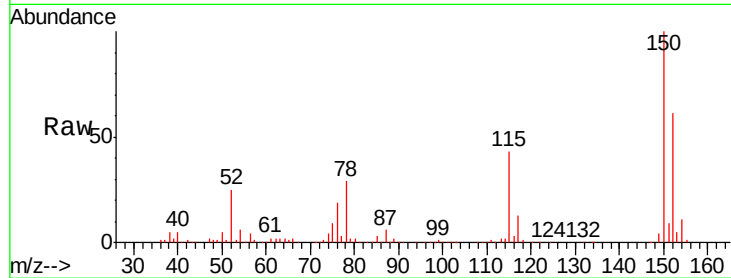
Tgt Ion: 152 Resp: 85332

Ion Ratio Lower Upper

152 100

115 66.9 44.1 132.3

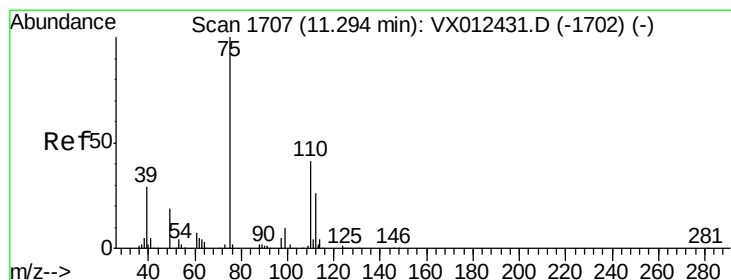
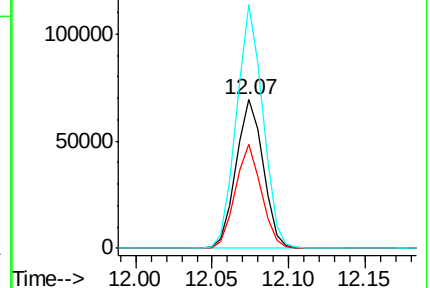
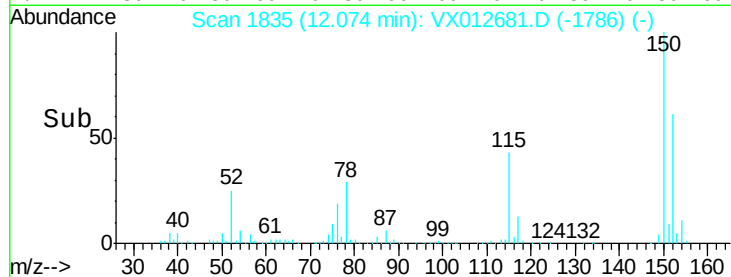
150 159.4 0.0 343.8



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: 25.529 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012681.D

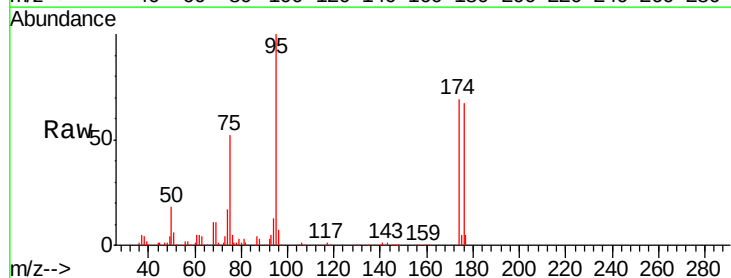
Acq: 26 Sep 2019 18:00

Tgt Ion: 75 Resp: 57625

Ion Ratio Lower Upper

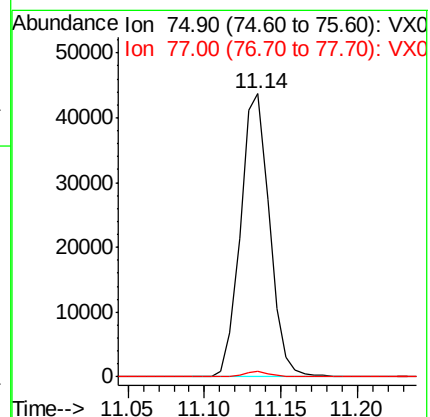
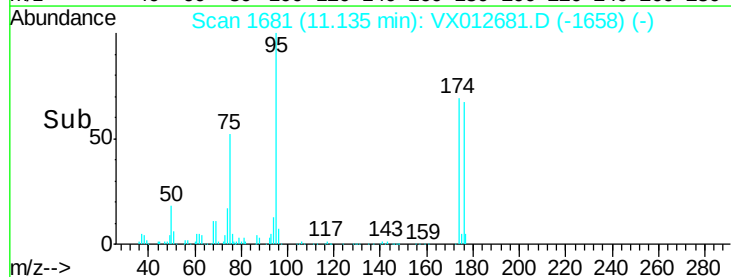
75 100

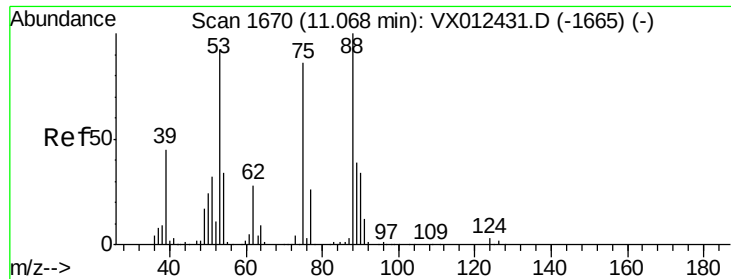
77 1.6 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.160 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012681.D

Acq: 26 Sep 2019 18:00

Instrument :

MSVOA\_X

ClientSampleId :

MW-5

Tgt Ion: 75 Resp: 57625

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

