

Data File : VX001757.D

Acq On : 15 May 2018 20:31

Operator : JC/MD

Sample : J2737-07

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 24 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

KY062MW146-180503

Quant Time: May 16 04:19:20 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M

Quant Title : SW846 8260

QLast Update : Tue May 15 01:36:22 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 237256   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 316823   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 271631   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 139289   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 173032   | 54.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.82% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 144010   | 53.86 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.72% |      |
| 50) Toluene-d8            | 8.72   | 98  | 486688   | 50.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.64% |      |
| 62) 4-Bromofluorobenzene  | 11.15  | 95  | 153046   | 44.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.78%  |      |

## Target Compounds

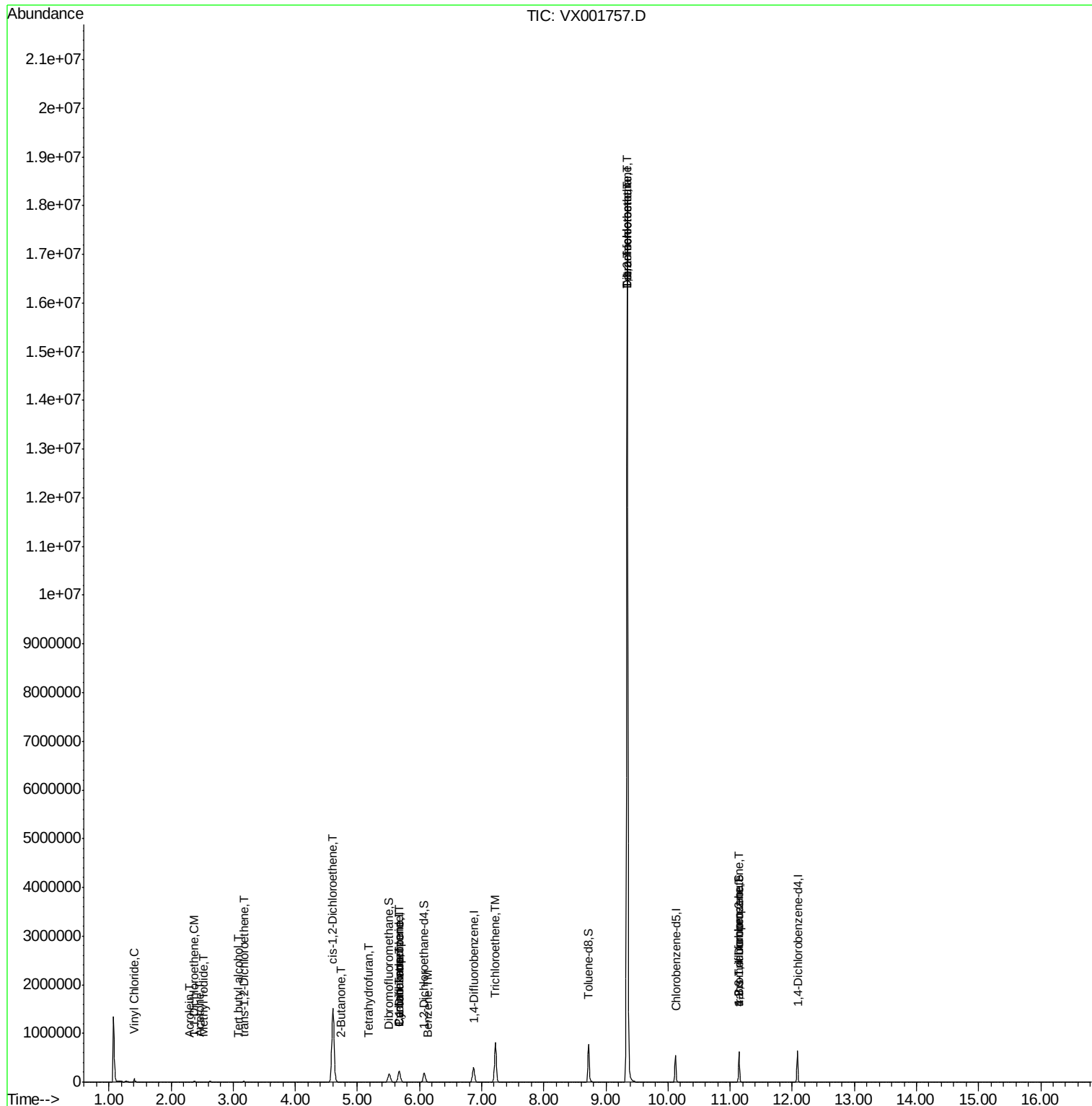
|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 4) Vinyl Chloride              | 1.40  | 62  | 35859   | 12.90   | ug/l   | 100    |
| 5) Bromomethane                | 1.65  | 94  | 992     | Below   | Cal    | 84     |
| 10) Methyl Iodide              | 2.52  | 142 | 773     | 0.35    | ug/l # | 85     |
| 11) Tert butyl alcohol         | 3.09  | 59  | 772     | 1.37    | ug/l # | 79     |
| 12) 1,1-Dichloroethene         | 2.38  | 96  | 2595    | 1.11    | ug/l   | 96     |
| 13) Acrolein                   | 2.29  | 56  | 209     | 0.52    | ug/l # | 15     |
| 16) Acetone                    | 2.45  | 43  | 1213    | 0.97    | ug/l # | 88     |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96  | 4625    | 1.79    | ug/l   | 91     |
| 25) 2-Butanone                 | 4.73  | 43  | 485     | 0.25    | ug/l # | 51     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96  | 988721  | 336.34  | ug/l   | 90     |
| 29) Tetrahydrofuran            | 5.19  | 42  | 442     | 0.35    | ug/l # | 33     |
| 31) Cyclohexane                | 5.67  | 56  | 3941    | 0.99    | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 14300   | 3.92    | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 19786   | 5.18    | ug/l # | 16     |
| 40) Benzene                    | 6.14  | 78  | 2558    | 0.24    | ug/l   | 99     |
| 44) Trichloroethene            | 7.22  | 130 | 336434  | 100.87  | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane      | 9.34  | 97  | 27428   | 10.39   | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129 | 3492447 | 1292.18 | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.35  | 164 | 4199894 | 1187.73 | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 73730   | 27.84   | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 73730   | 80.78   | ug/l # | 10     |

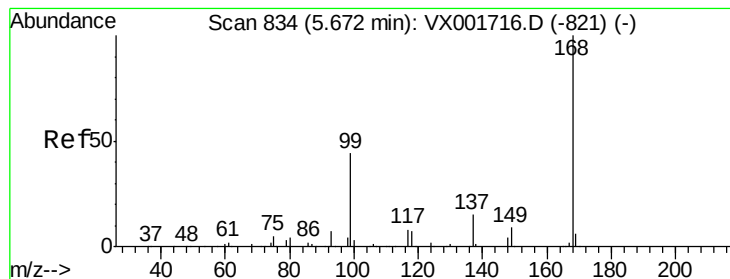
(#)=qualifier out of range (m)=manual integration (+)=signals summed

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Quant Title : SW846 8260  
QLast Update : Tue May 15 01:36:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

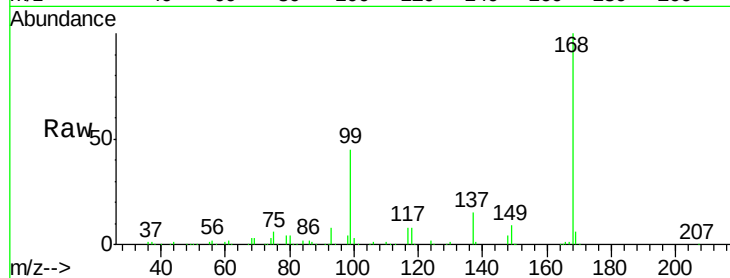
KY062MW146-180503

Tgt Ion:168 Resp: 237256

Ion Ratio Lower Upper

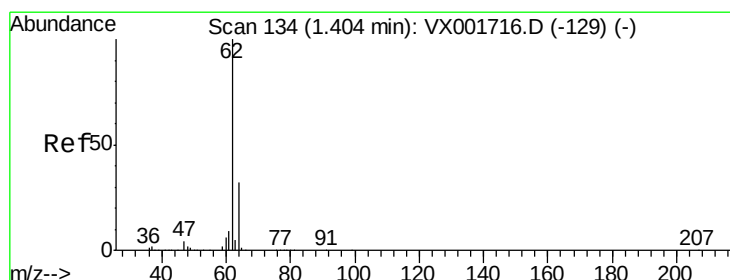
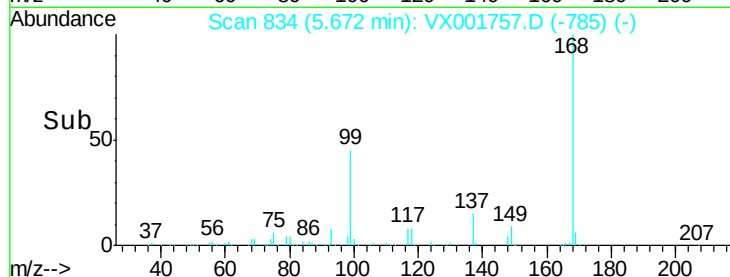
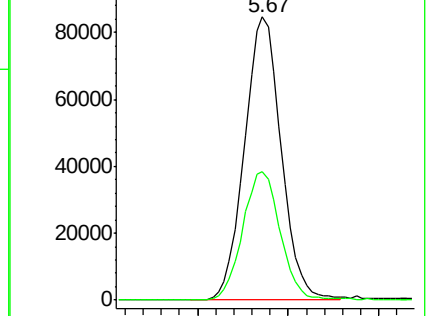
168 100

99 45.5 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 12.90 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001757.D

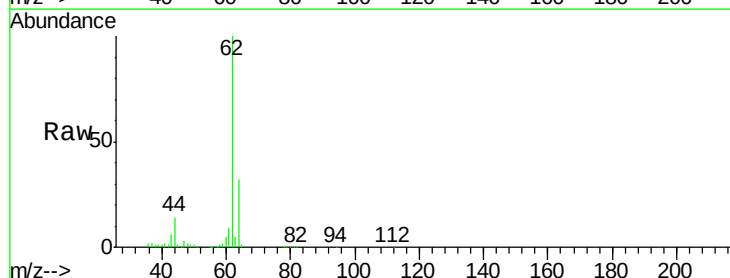
Acq: 15 May 2018 20:31

Tgt Ion: 62 Resp: 35859

Ion Ratio Lower Upper

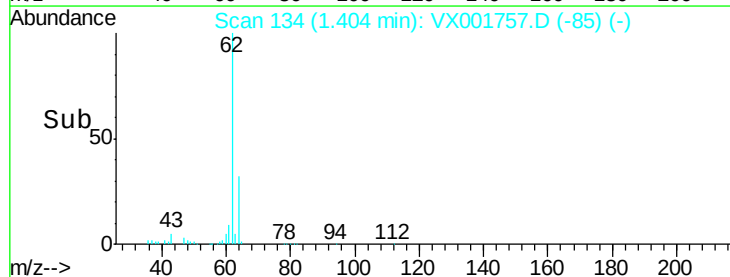
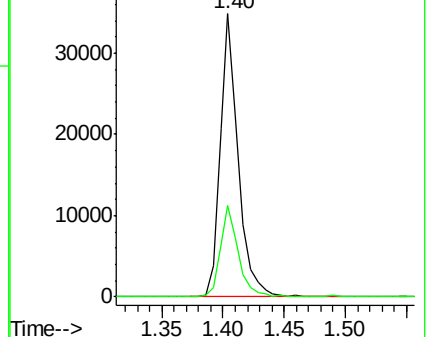
62 100

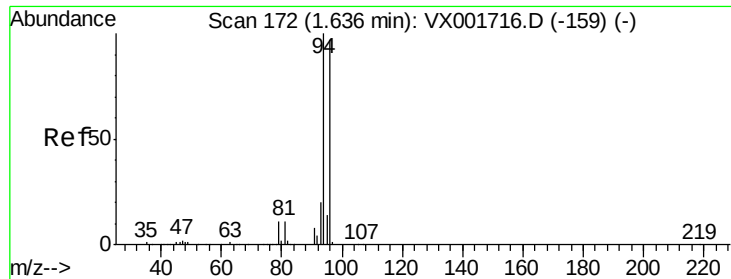
64 32.2 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

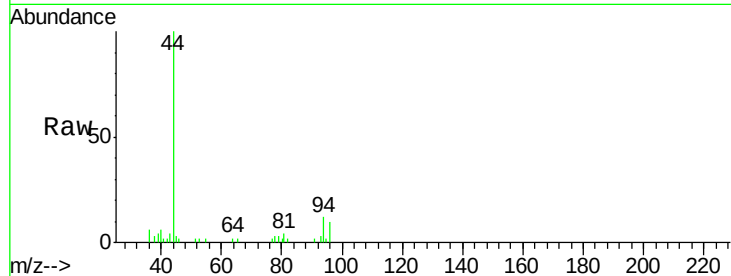
KY062MW146-180503

Tgt Ion: 94 Resp: 992

Ion Ratio Lower Upper

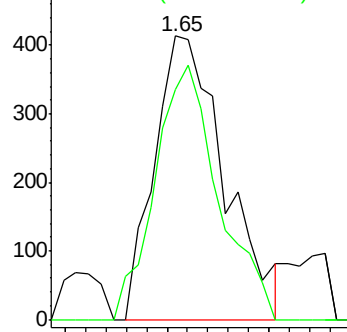
94 100

96 81.1 77.4 116.0

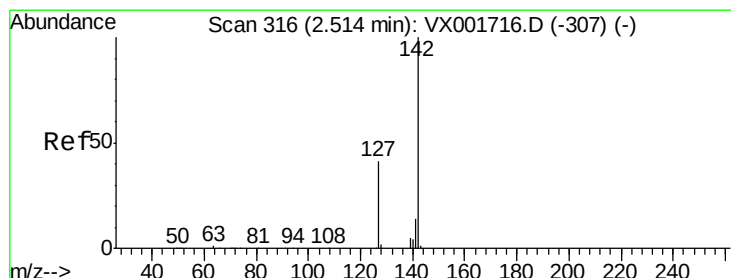
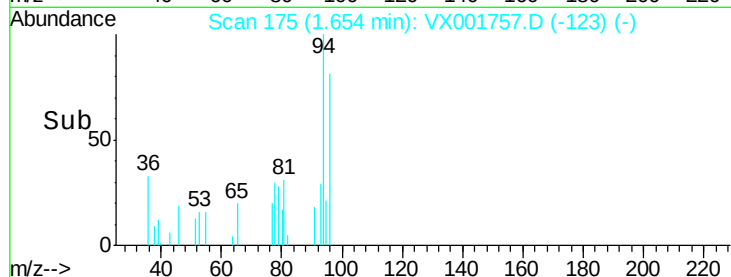


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 0.35 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

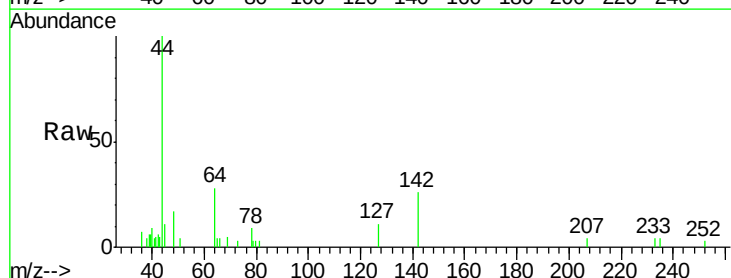
Tgt Ion: 142 Resp: 773

Ion Ratio Lower Upper

142 100

127 51.0 32.5 48.7#

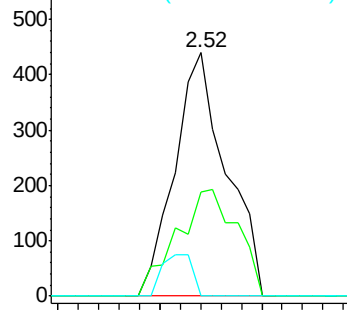
141 9.8 11.4 17.0#



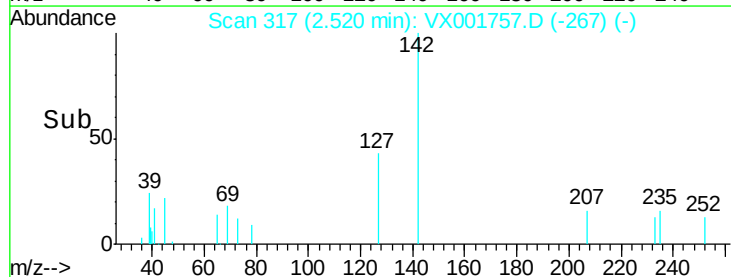
Abundance Ion 141.80 (141.50 to 142.50): V

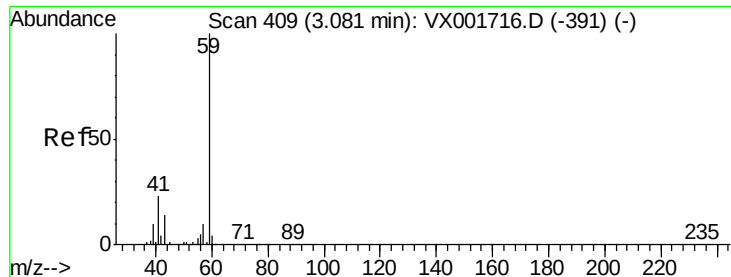
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



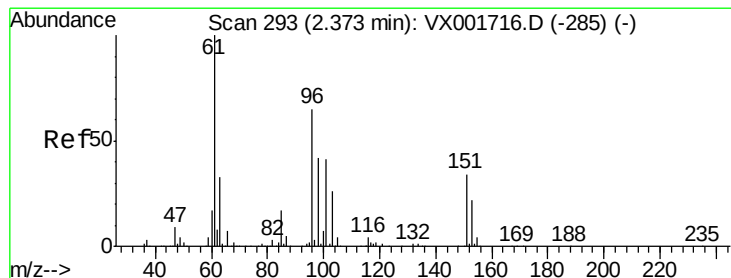
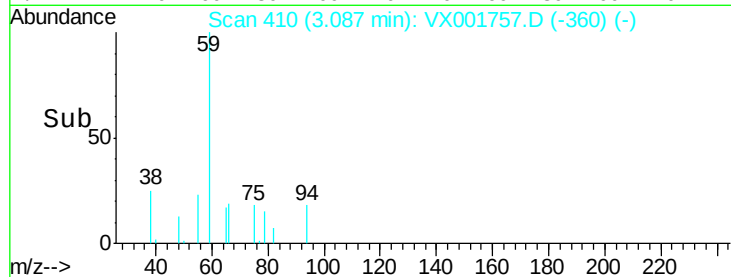
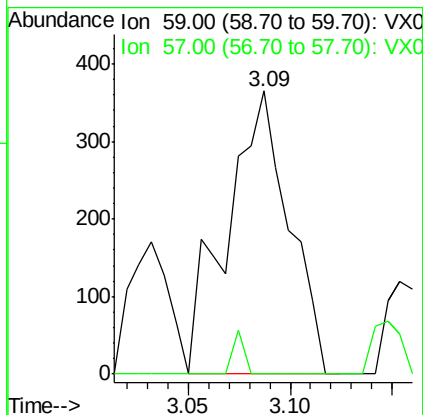
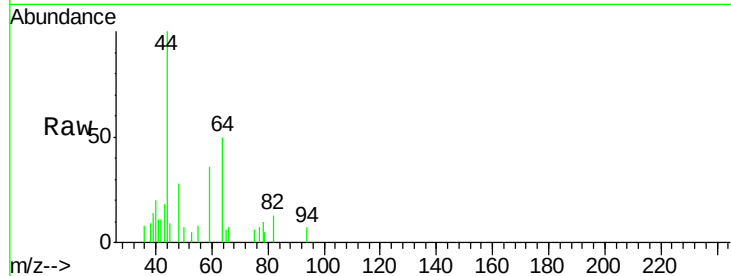


#11

Tert butyl alcohol  
Concen: 1.37 ug/l  
RT: 3.09 min Scan# 410  
Delta R.T. 0.01 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY062MW146-180503

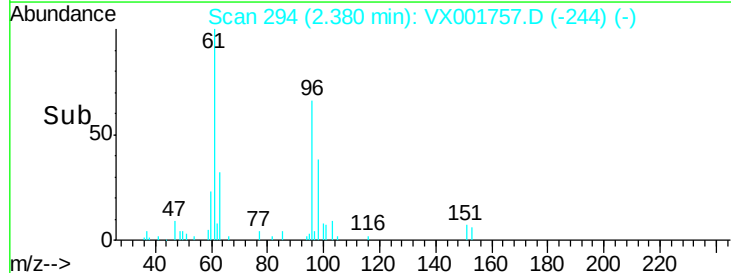
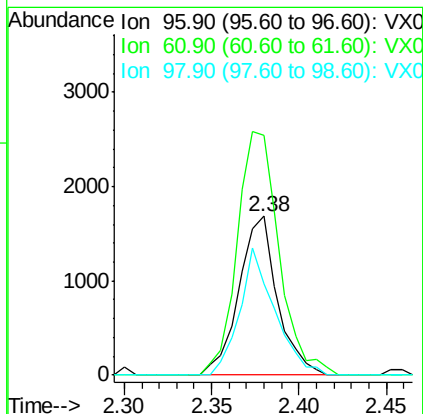
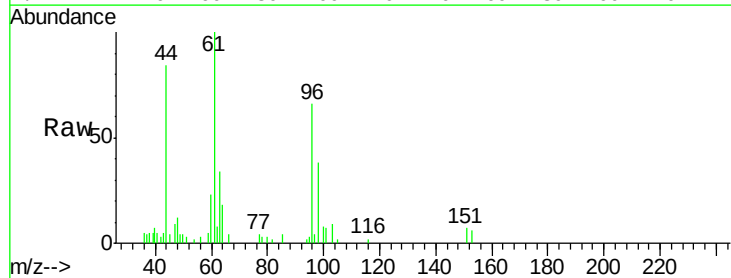
Tgt Ion: 59 Resp: 772  
Ion Ratio Lower Upper  
59 100  
57 2.7 8.5 12.7#

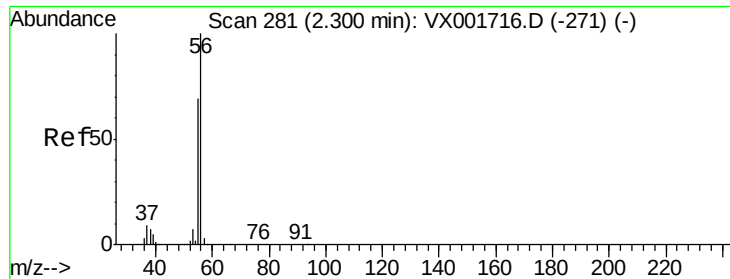


#12

1,1-Dichloroethene  
Concen: 1.11 ug/l  
RT: 2.38 min Scan# 294  
Delta R.T. 0.01 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

Tgt Ion: 96 Resp: 2595  
Ion Ratio Lower Upper  
96 100  
61 150.9 122.2 183.2  
98 57.3 51.4 77.0





#13

Acrolein

Concen: 0.52 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

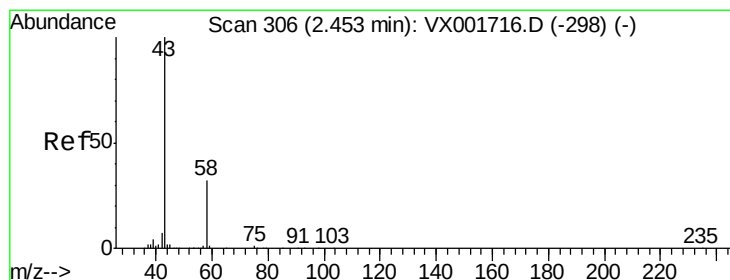
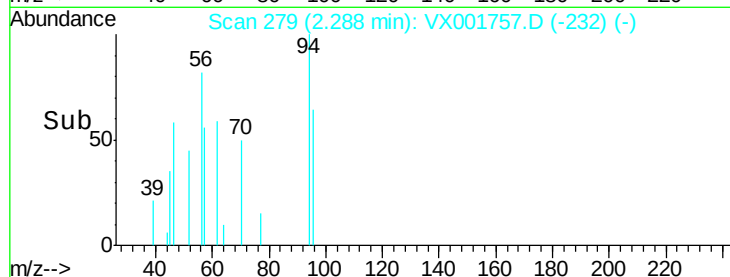
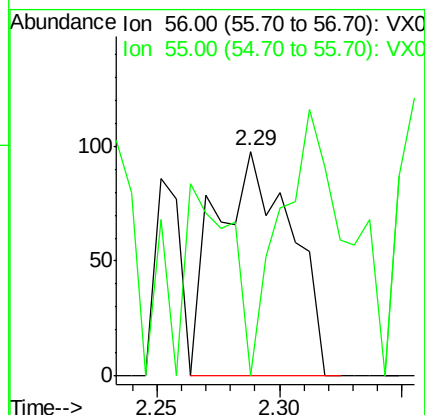
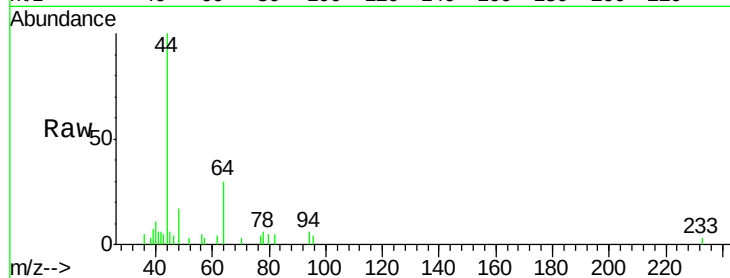
KY062MW146-180503

Tgt Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.2#



#16

Acetone

Concen: 0.97 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001757.D

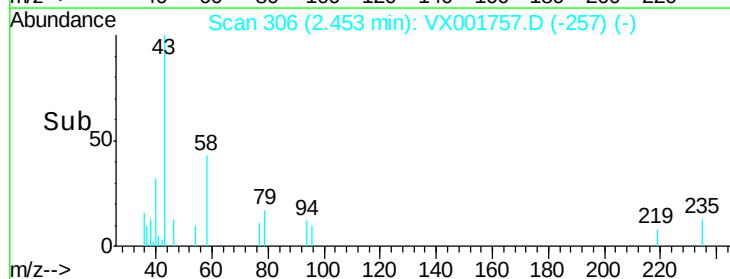
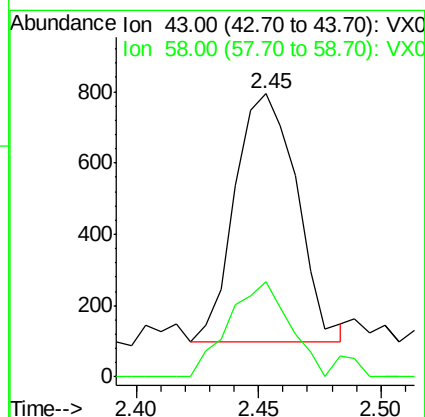
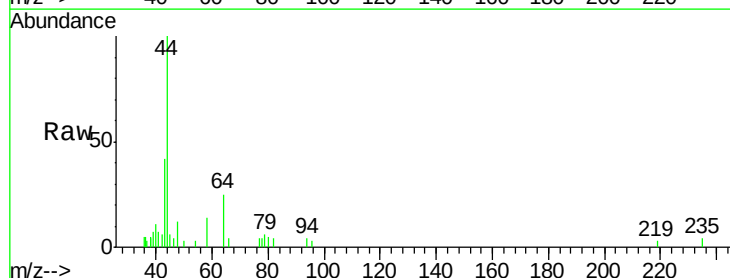
Acq: 15 May 2018 20:31

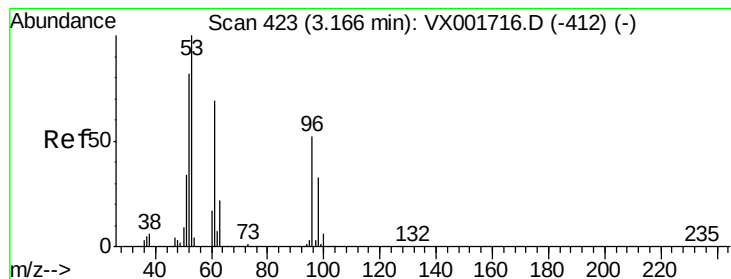
Tgt Ion: 43 Resp: 1213

Ion Ratio Lower Upper

43 100

58 38.3 25.3 37.9#





#21

trans-1,2-Dichloroethene

Concen: 1.79 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

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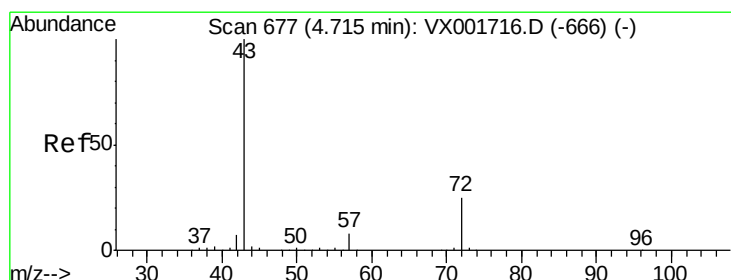
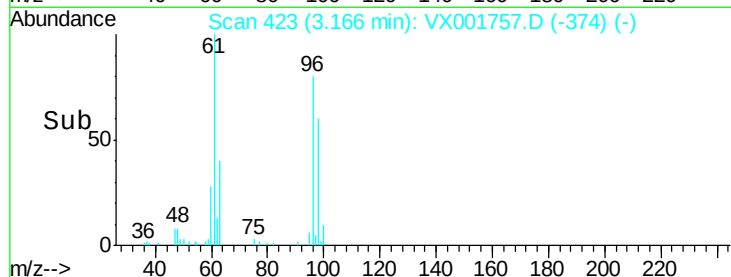
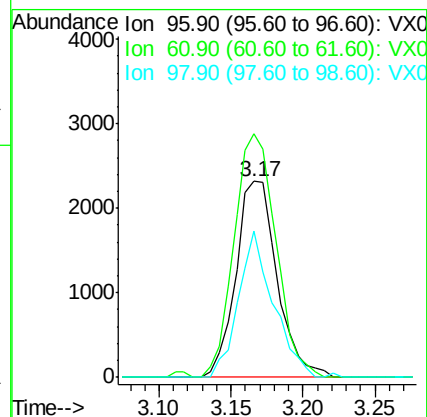
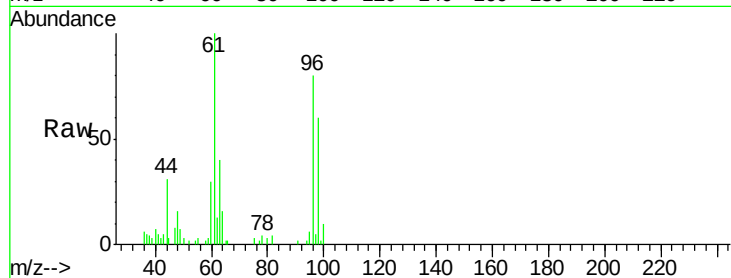
Tgt Ion: 96 Resp: 4625

Ion Ratio Lower Upper

96 100

61 124.4 105.8 158.8

98 74.6 50.2 75.4



#25

2-Butanone

Concen: 0.25 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX001757.D

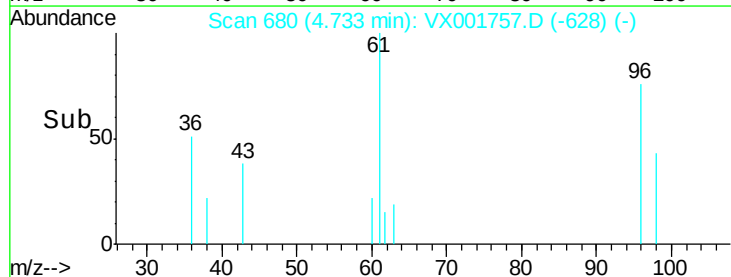
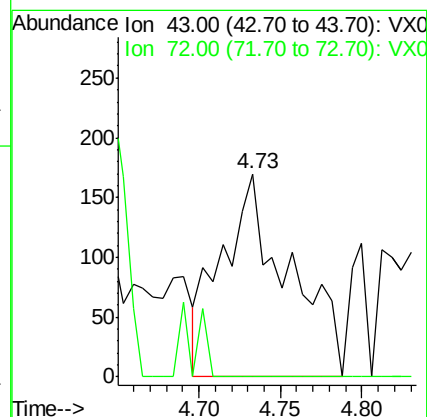
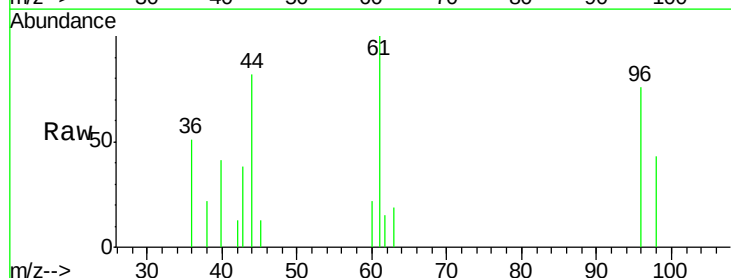
Acq: 15 May 2018 20:31

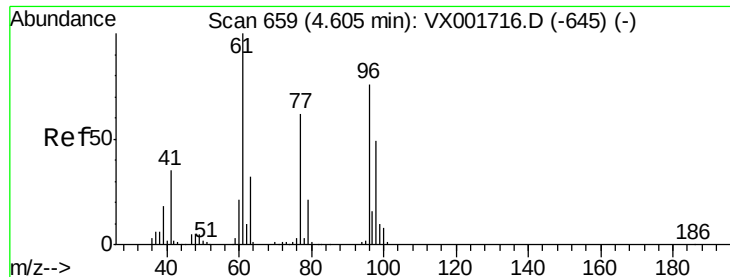
Tgt Ion: 43 Resp: 485

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



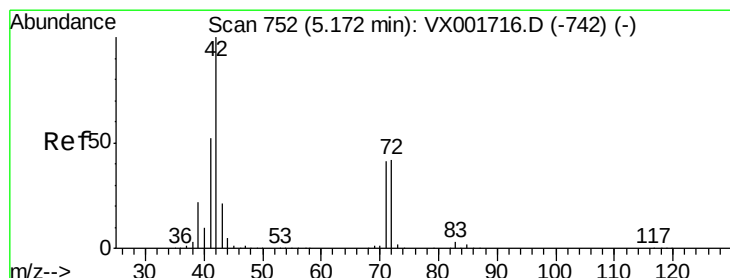
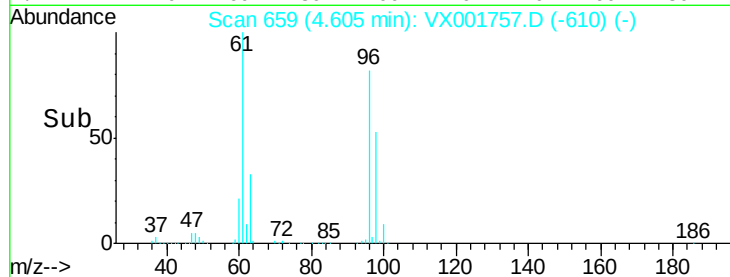
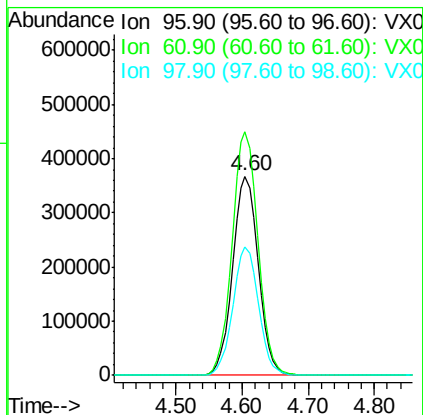
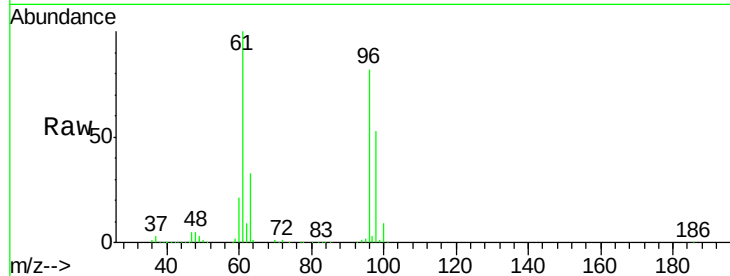


#27

cis-1,2-Dichloroethene  
 Concen: 336.34 ug/l  
 RT: 4.60 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VX001757.D  
 Acq: 15 May 2018 20:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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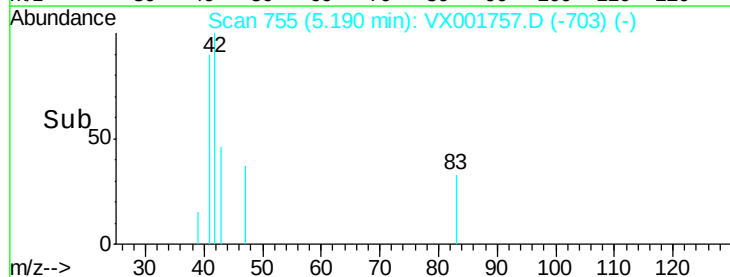
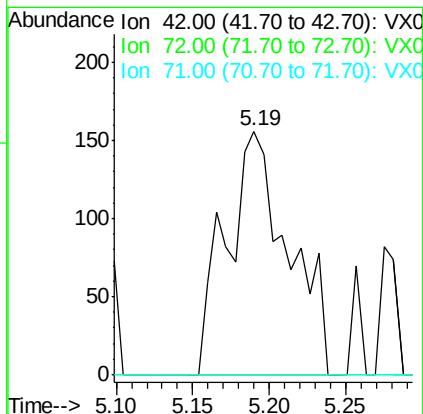
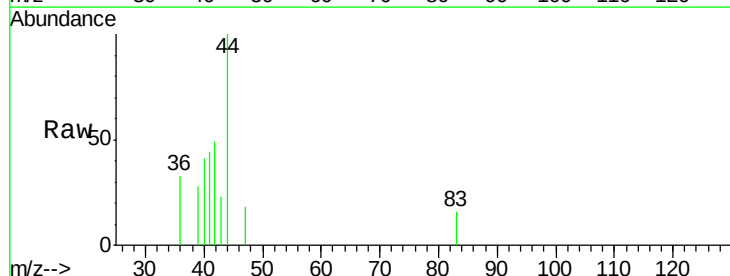
Tgt Ion: 96 Resp: 988721  
 Ion Ratio Lower Upper  
 96 100  
 61 123.4 0.0 280.4  
 98 64.7 0.0 128.4



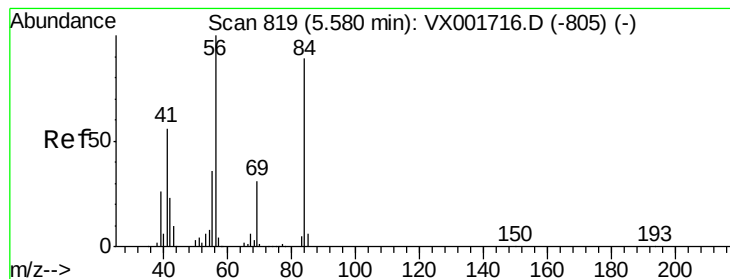
#29

Tetrahydrofuran  
 Concen: 0.35 ug/l  
 RT: 5.19 min Scan# 755  
 Delta R.T. 0.02 min  
 Lab File: VX001757.D  
 Acq: 15 May 2018 20:31

Tgt Ion: 42 Resp: 442  
 Ion Ratio Lower Upper  
 42 100  
 72 0.0 35.4 53.2#  
 71 0.0 33.2 49.8#







#31

Cyclohexane

Concen: 0.99 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

KY062MW146-180503

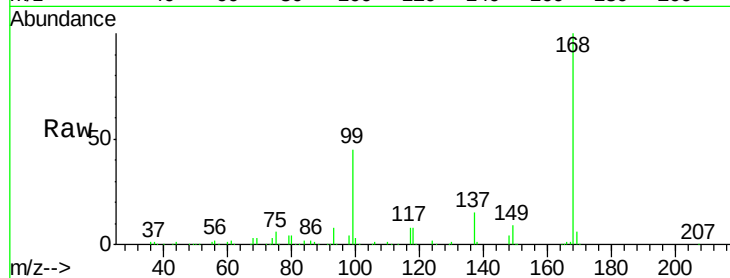
Tgt Ion: 56 Resp: 3941

Ion Ratio Lower Upper

56 100

69 163.5 25.0 37.6#

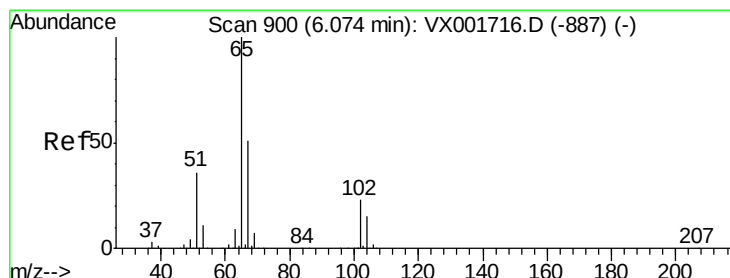
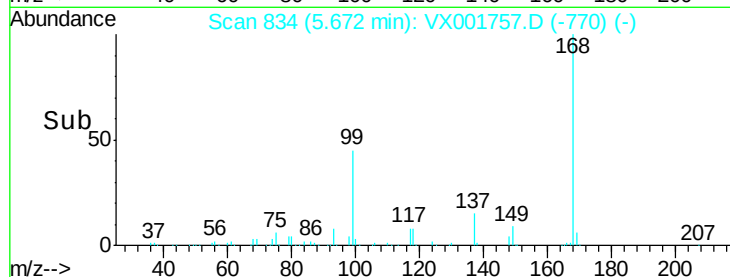
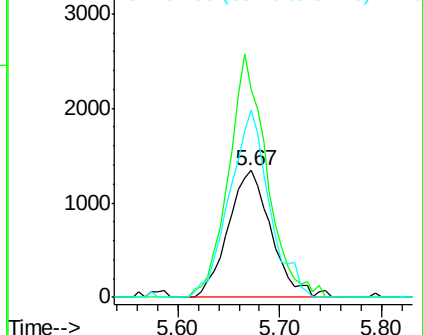
84 147.4 71.0 106.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.41 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001757.D

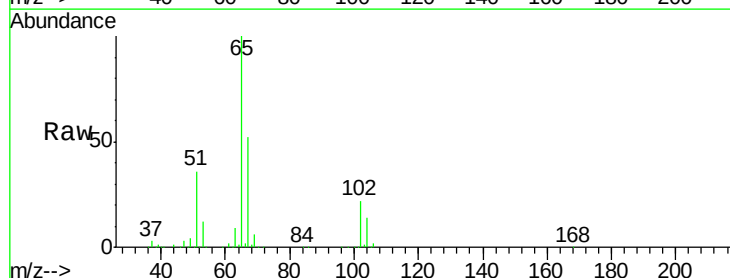
Acq: 15 May 2018 20:31

Tgt Ion: 65 Resp: 173032

Ion Ratio Lower Upper

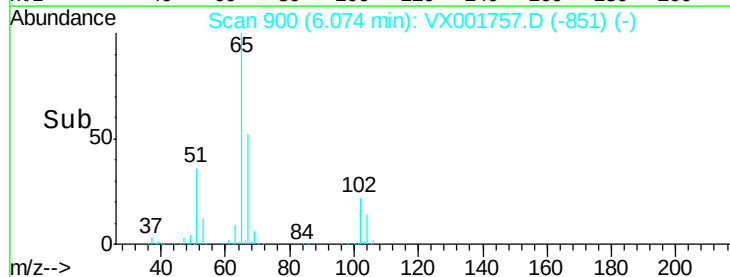
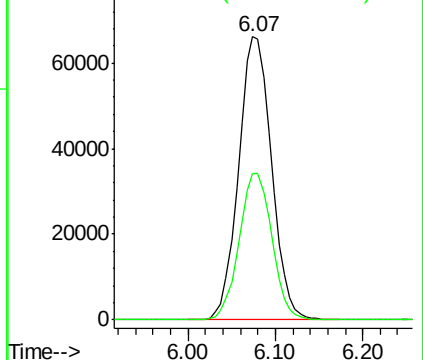
65 100

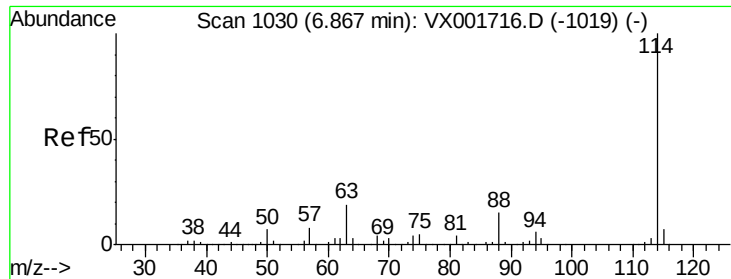
67 51.7 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

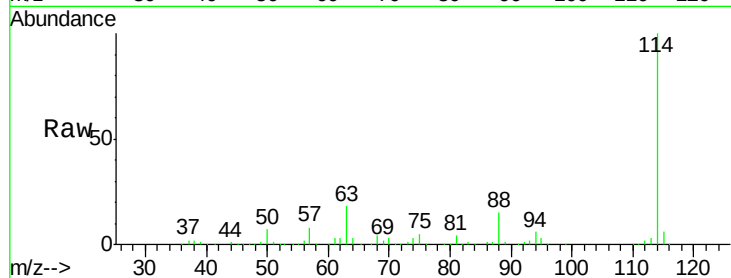




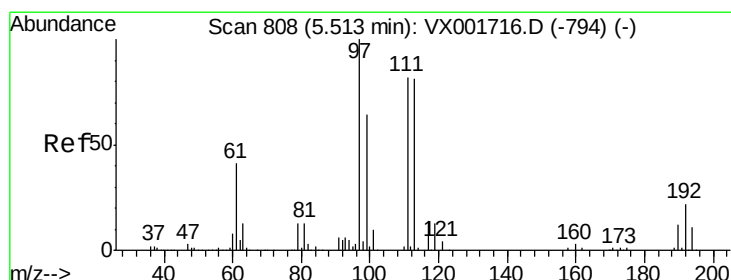
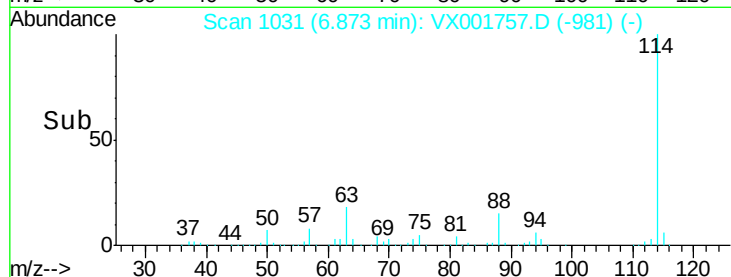
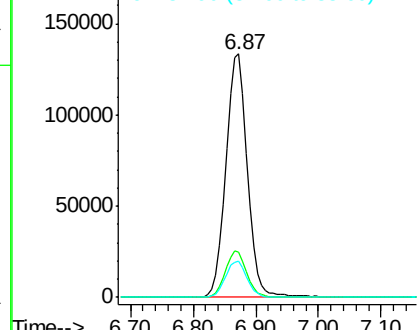
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX001757.D  
 Acq: 15 May 2018 20:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY062MW146-180503

Tgt Ion:114 Resp: 316823  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 37.0  
 88 15.0 0.0 29.8

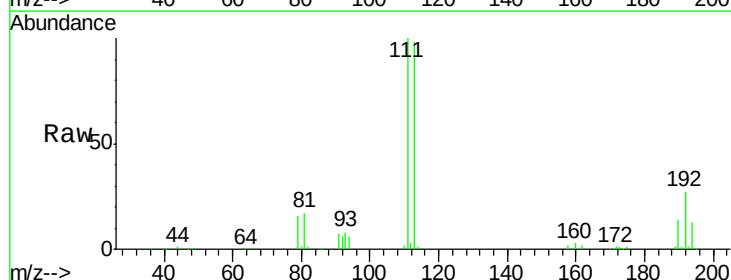


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

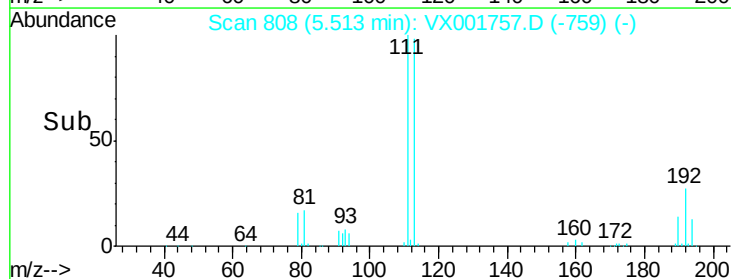
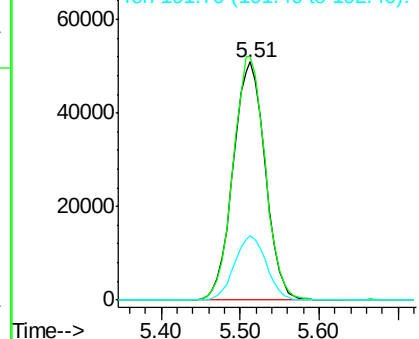


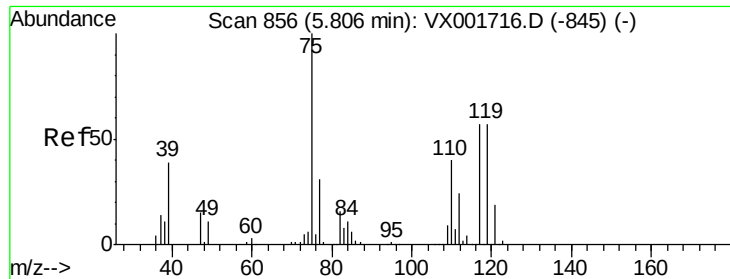
#35  
 Dibromofluoromethane  
 Concen: 53.86 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. 0.00 min  
 Lab File: VX001757.D  
 Acq: 15 May 2018 20:31

Tgt Ion:113 Resp: 144010  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 82.0 123.0  
 192 26.8 21.6 32.4



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

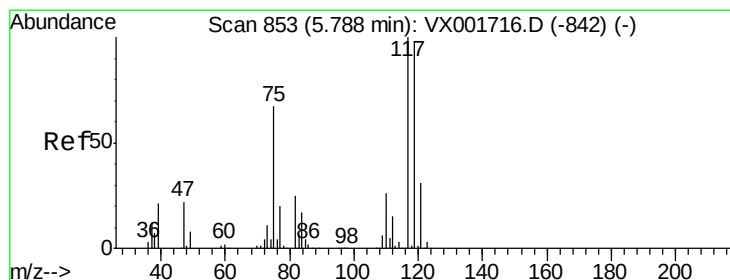
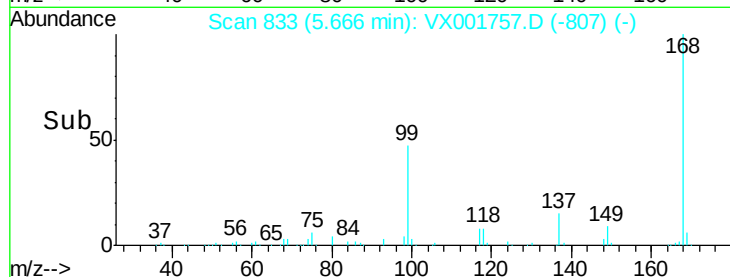
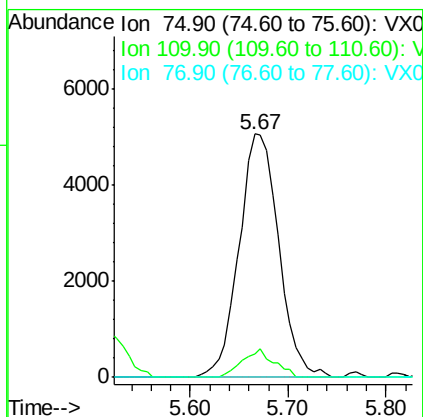
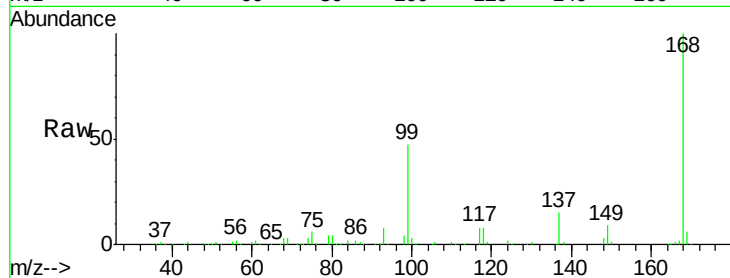




#36  
 1,1-Dichloropropene  
 Concen: 3.92 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.14 min  
 Lab File: VX001757.D  
 Acq: 15 May 2018 20:31

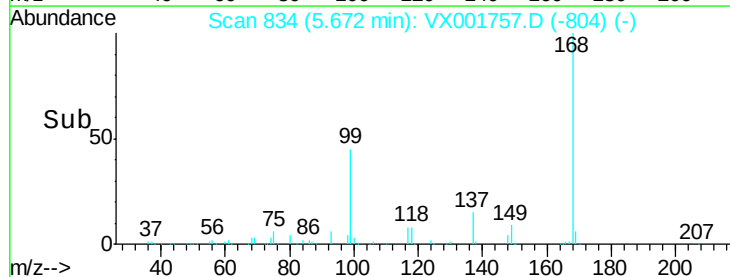
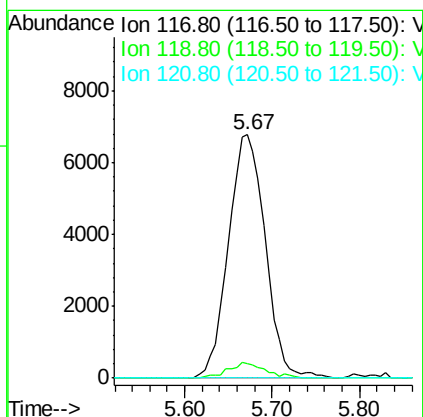
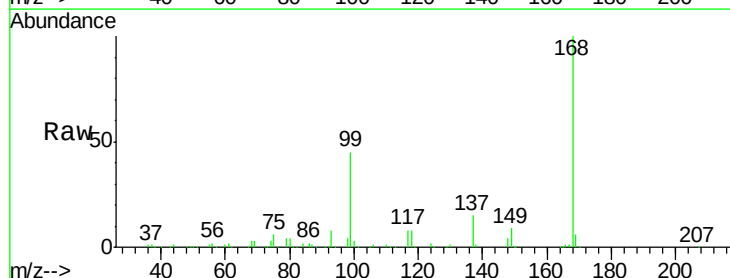
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY062MW146-180503

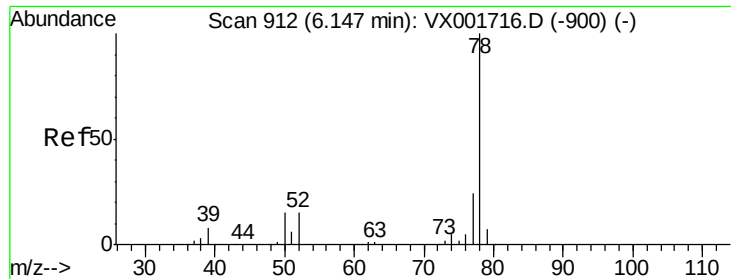
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.4   | 19.1  | 57.1# |
| 77      | 0.0   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 5.18 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX001757.D  
 Acq: 15 May 2018 20:31

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.1   | 77.6  | 116.4# |
| 121     | 0.0   | 24.6  | 36.8#  |

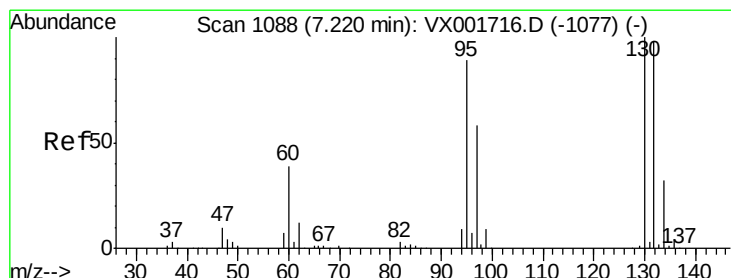
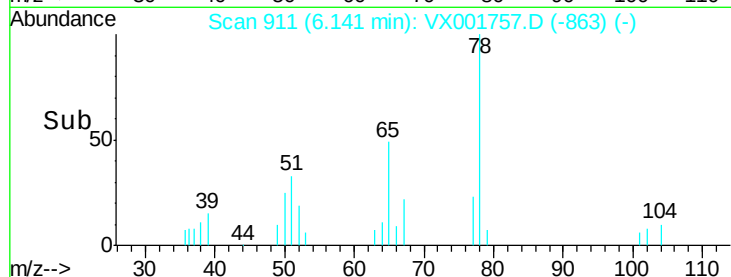
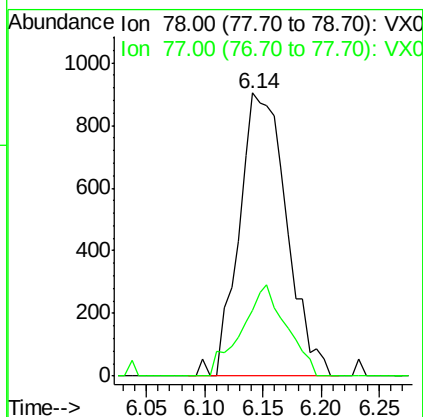
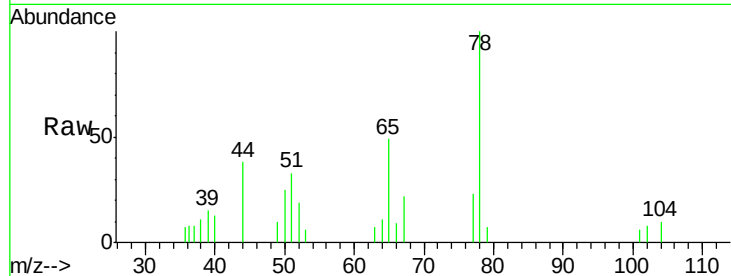




#40  
Benzene  
Concen: 0.24 ug/l  
RT: 6.14 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

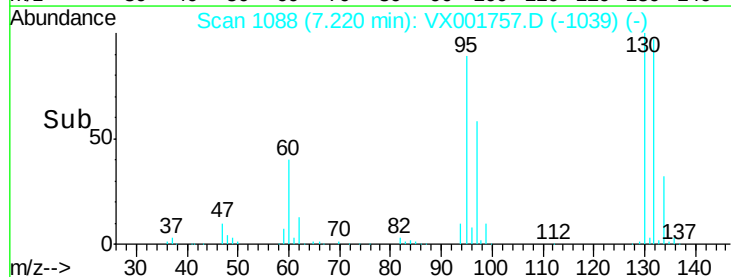
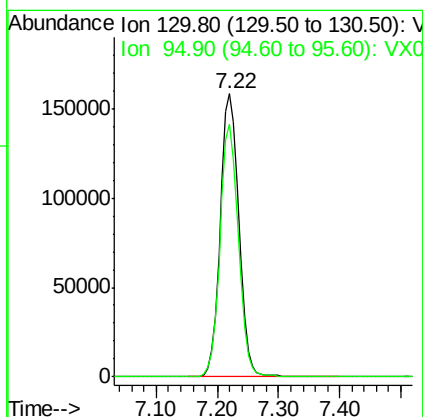
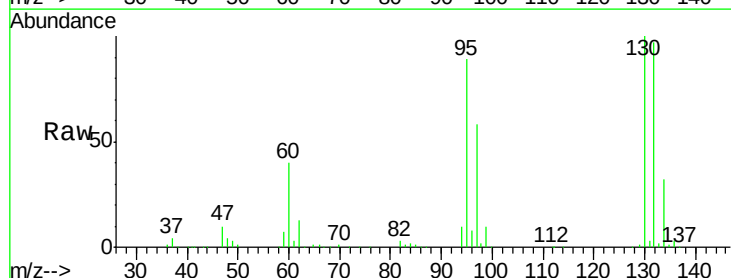
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY062MW146-180503

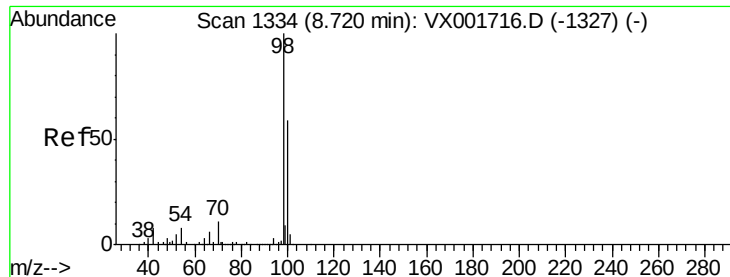
Tgt Ion: 78 Resp: 2558  
Ion Ratio Lower Upper  
78 100  
77 23.4 19.0 28.4



#44  
Trichloroethene  
Concen: 100.87 ug/l  
RT: 7.22 min Scan# 1088  
Delta R.T. 0.00 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

Tgt Ion: 130 Resp: 336434  
Ion Ratio Lower Upper  
130 100  
95 89.4 0.0 177.2

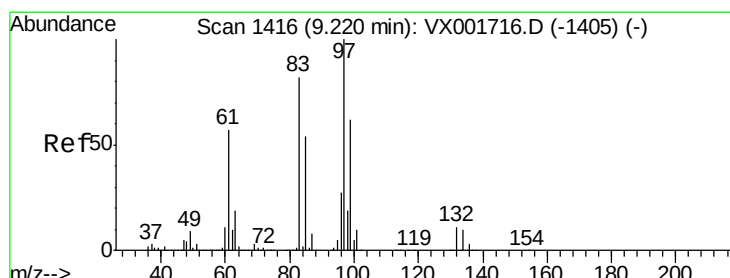
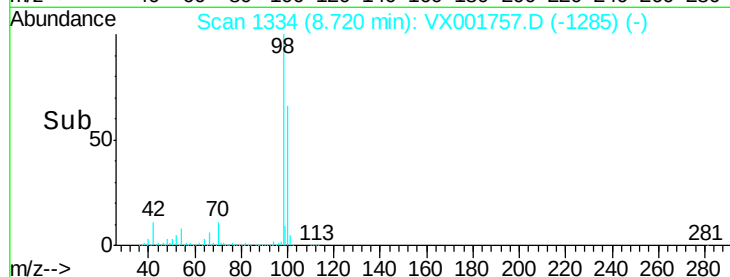
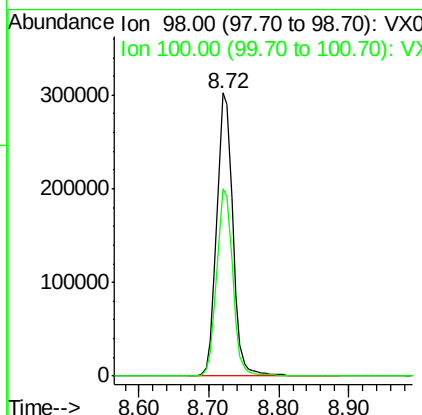
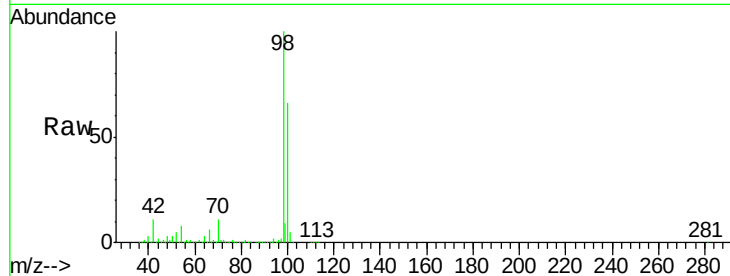




#50  
Toluene-d8  
Concen: 50.82 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

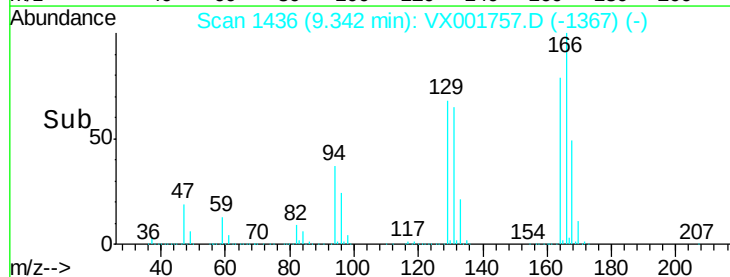
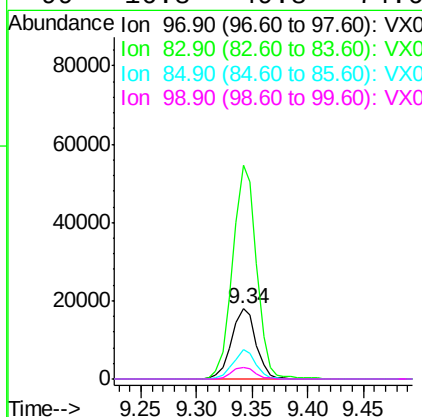
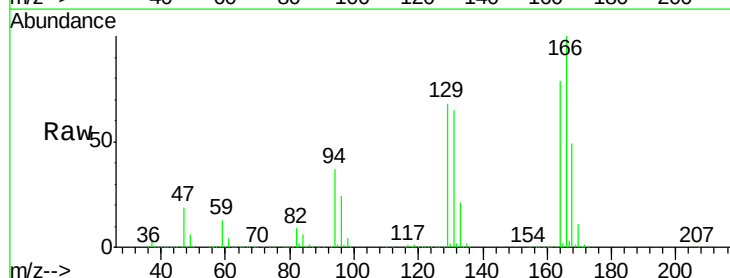
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY062MW146-180503

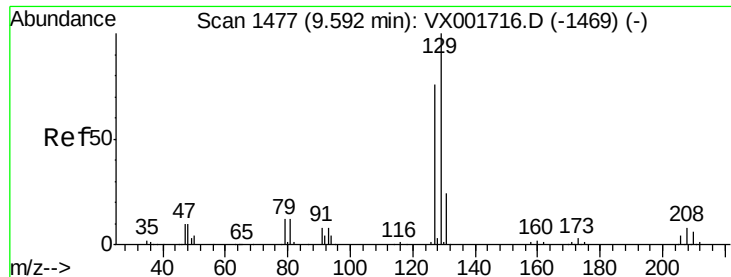
Tgt Ion: 98 Resp: 486688  
Ion Ratio Lower Upper  
98 100  
100 66.3 54.0 81.0



#55  
1,1,2-Trichloroethane  
Concen: 10.39 ug/l  
RT: 9.34 min Scan# 1436  
Delta R.T. 0.12 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

Tgt Ion: 97 Resp: 27428  
Ion Ratio Lower Upper  
97 100  
83 304.8 65.8 98.8#  
85 42.6 43.4 65.0#  
99 16.8 49.8 74.6#





#60

Dibromochloromethane

Concen: 1292.18 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

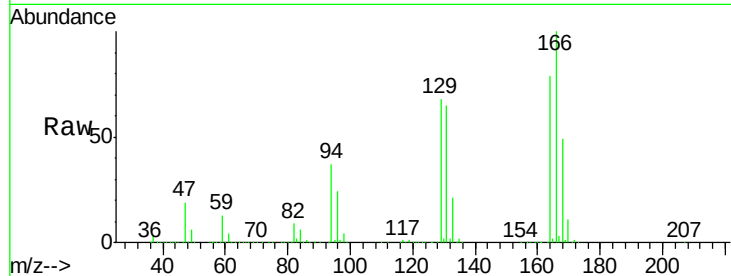
KY062MW146-180503

Tgt Ion:129 Resp: 3492447

Ion Ratio Lower Upper

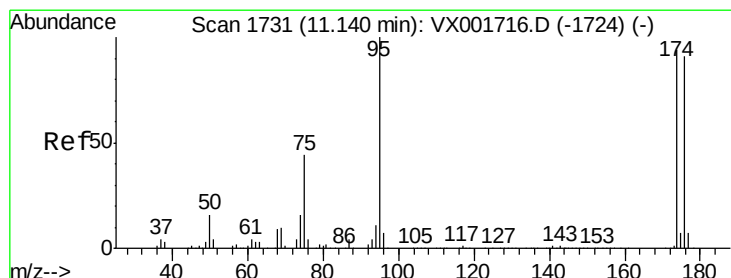
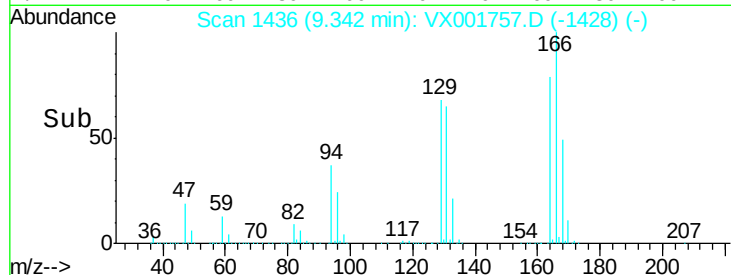
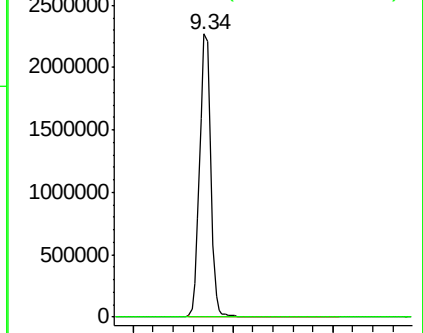
129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.39 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.01 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

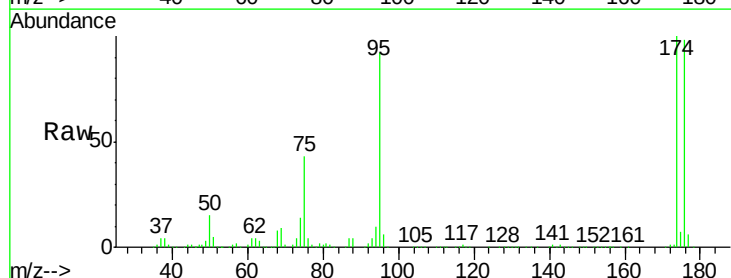
Tgt Ion: 95 Resp: 153046

Ion Ratio Lower Upper

95 100

174 103.4 0.0 201.8

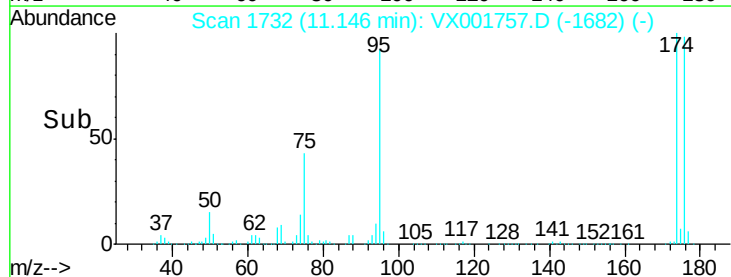
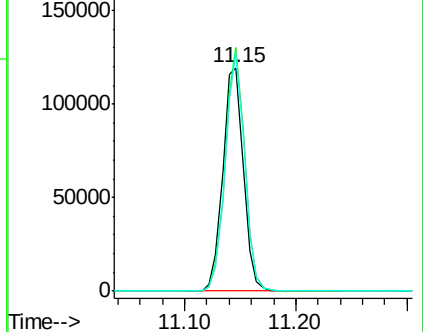
176 99.8 0.0 196.8

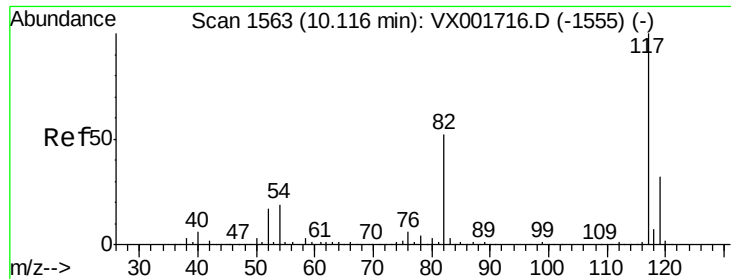


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

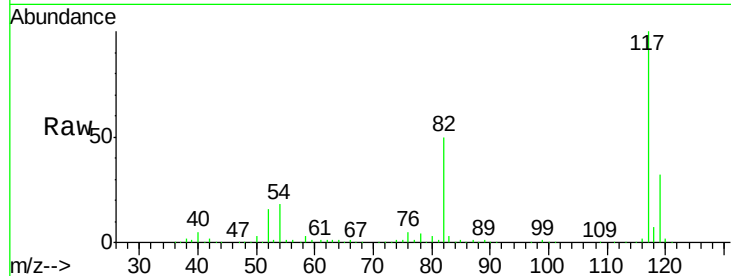




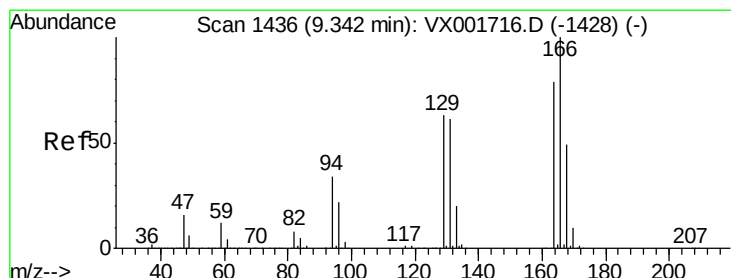
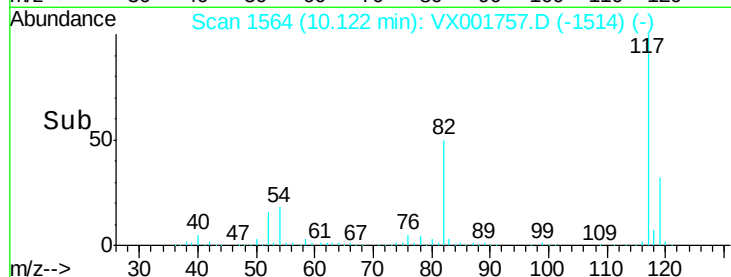
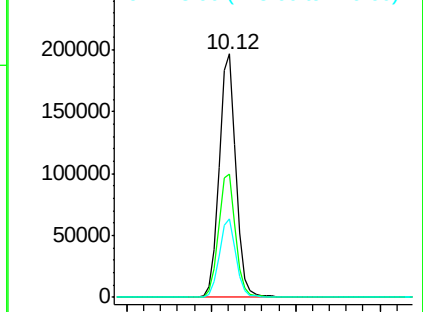
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY062MW146-180503

Tgt Ion:117 Resp: 271631  
Ion Ratio Lower Upper  
117 100  
82 50.5 41.4 62.2  
119 32.5 25.6 38.4

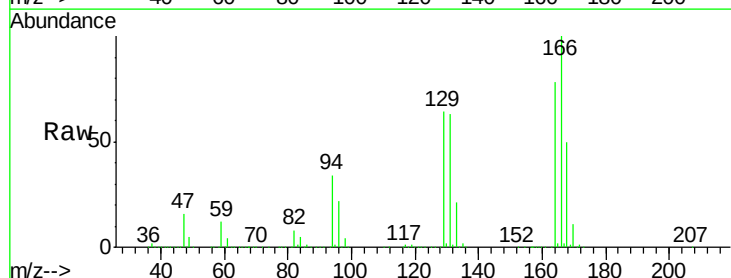


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

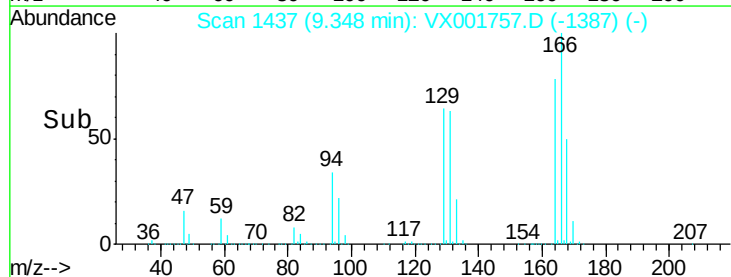
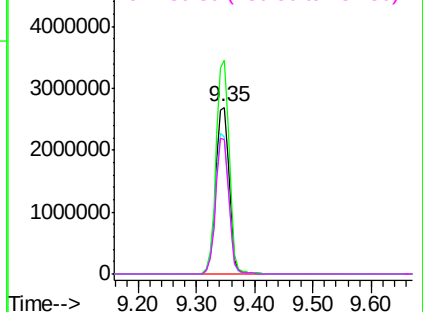


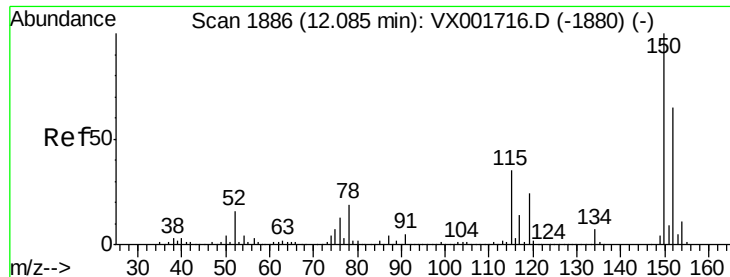
#64  
Tetrachloroethene  
Concen: 1187.73 ug/l  
RT: 9.35 min Scan# 1437  
Delta R.T. 0.01 min  
Lab File: VX001757.D  
Acq: 15 May 2018 20:31

Tgt Ion:164 Resp: 4199894  
Ion Ratio Lower Upper  
164 100  
166 128.1 101.8 152.8  
129 82.0 63.8 95.6  
131 80.6 62.2 93.2



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001757.D

Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

KY062MW146-180503

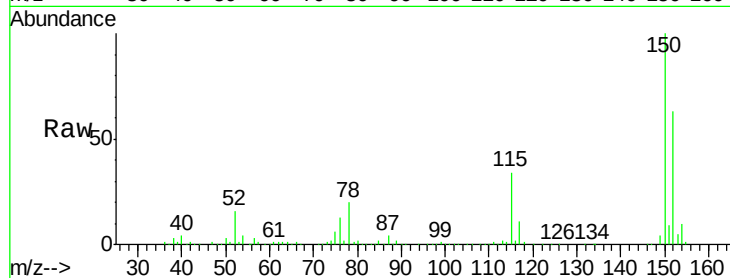
Tgt Ion:152 Resp: 139289

Ion Ratio Lower Upper

152 100

115 52.7 37.4 112.2

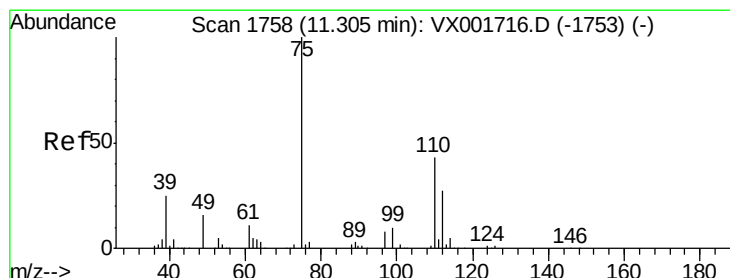
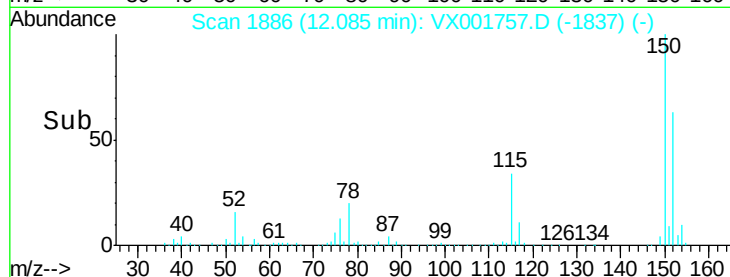
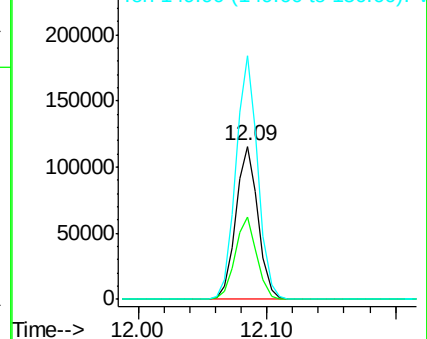
150 157.0 0.0 344.8



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: 27.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001757.D

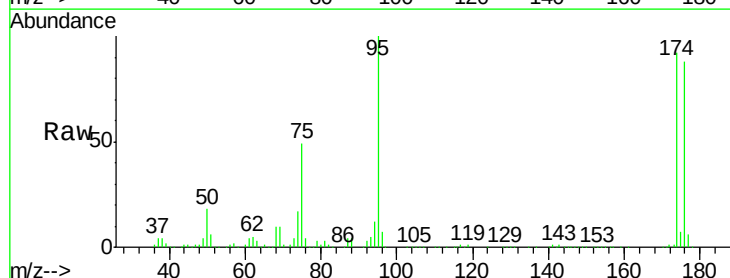
Acq: 15 May 2018 20:31

Tgt Ion: 75 Resp: 73730

Ion Ratio Lower Upper

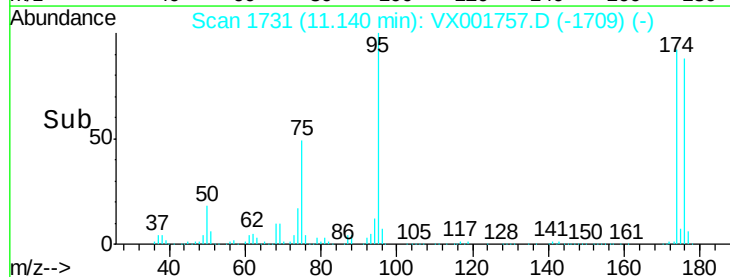
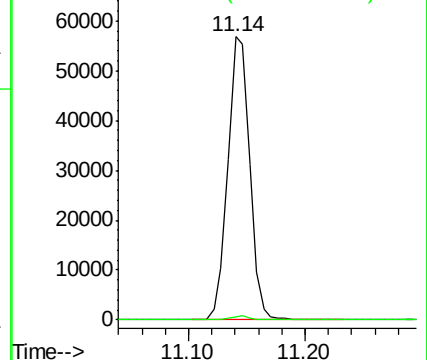
75 100

77 1.3 18.9 56.7#

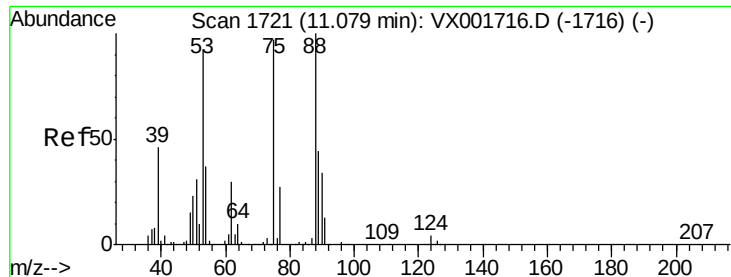


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0







#81

trans-1,4-Dichloro-2-butene

Concen: 80.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001757.D

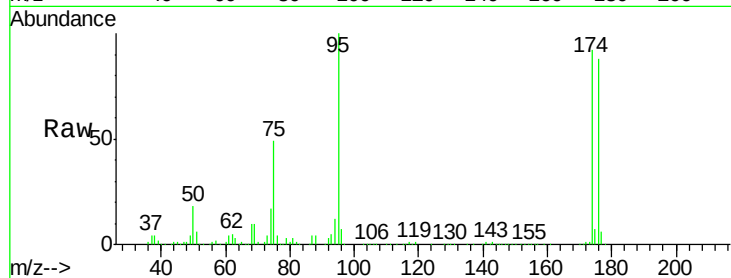
Acq: 15 May 2018 20:31

Instrument :

MSVOA\_X

ClientSampleId :

KY062MW146-180503



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 73730  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.1   | 79.4  | 119.2# |
| 89       | 0.0   | 38.8  | 58.2#  |

