

Data File : VX001234.D

Acq On : 29 Apr 2018 00:54

Operator : JC/MD

Sample : J2600-03

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 31 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20180424

Quant Time: Apr 30 01:41:44 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X042618W.M

Quant Title : SW846 8260

QLast Update : Fri Apr 27 01:51:42 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 179038   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 243188   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 222936   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 129142   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.08   | 65  | 137212   | 49.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.88%  |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 109250   | 54.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.56% |      |
| 50) Toluene-d8            | 8.72   | 98  | 414258   | 54.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.06% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 142567   | 48.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.08%  |      |

## Target Compounds

|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94  | 346   | Below Cal | #      | 79     |
| 10) Methyl Iodide              | 2.53  | 142 | 503   | 7.46      | ug/l # | 88     |
| 11) Tert butyl alcohol         | 3.09  | 59  | 562   | 1.03      | ug/l   | 97     |
| 13) Acrolein                   | 2.31  | 56  | 110   | 0.53      | ug/l # | 78     |
| 15) Acrylonitrile              | 3.17  | 53  | 274   | 0.23      | ug/l # | 26     |
| 16) Acetone                    | 2.45  | 43  | 3609  | 3.16      | ug/l   | 97     |
| 25) 2-Butanone                 | 4.72  | 43  | 1232  | 0.72      | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96  | 905   | 0.41      | ug/l   | 86     |
| 31) Cyclohexane                | 5.67  | 56  | 3386  | 1.15      | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 10700 | 3.99      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 15141 | 5.51      | ug/l # | 17     |
| 44) Trichloroethene            | 7.22  | 130 | 2864  | 1.24      | ug/l   | 86     |
| 59) 2-Hexanone                 | 9.32  | 43  | 1715  | 0.66      | ug/l   | 72     |
| 60) Dibromochloromethane       | 9.34  | 129 | 283   | 3.45      | ug/l # | 11     |
| 73) Isopropylbenzene           | 11.02 | 105 | 2313  | 0.27      | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 73831 | 28.08     | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 73831 | 85.22     | ug/l # | 6      |
| 90) Hexachloroethane           | 12.71 | 117 | 1449  | 4.46      | ug/l # | 1      |
| 94) Hexachlorobutadiene        | 13.79 | 225 | 348   | 0.21      | ug/l   | 91     |

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

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ALS Vial : 31 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20180424

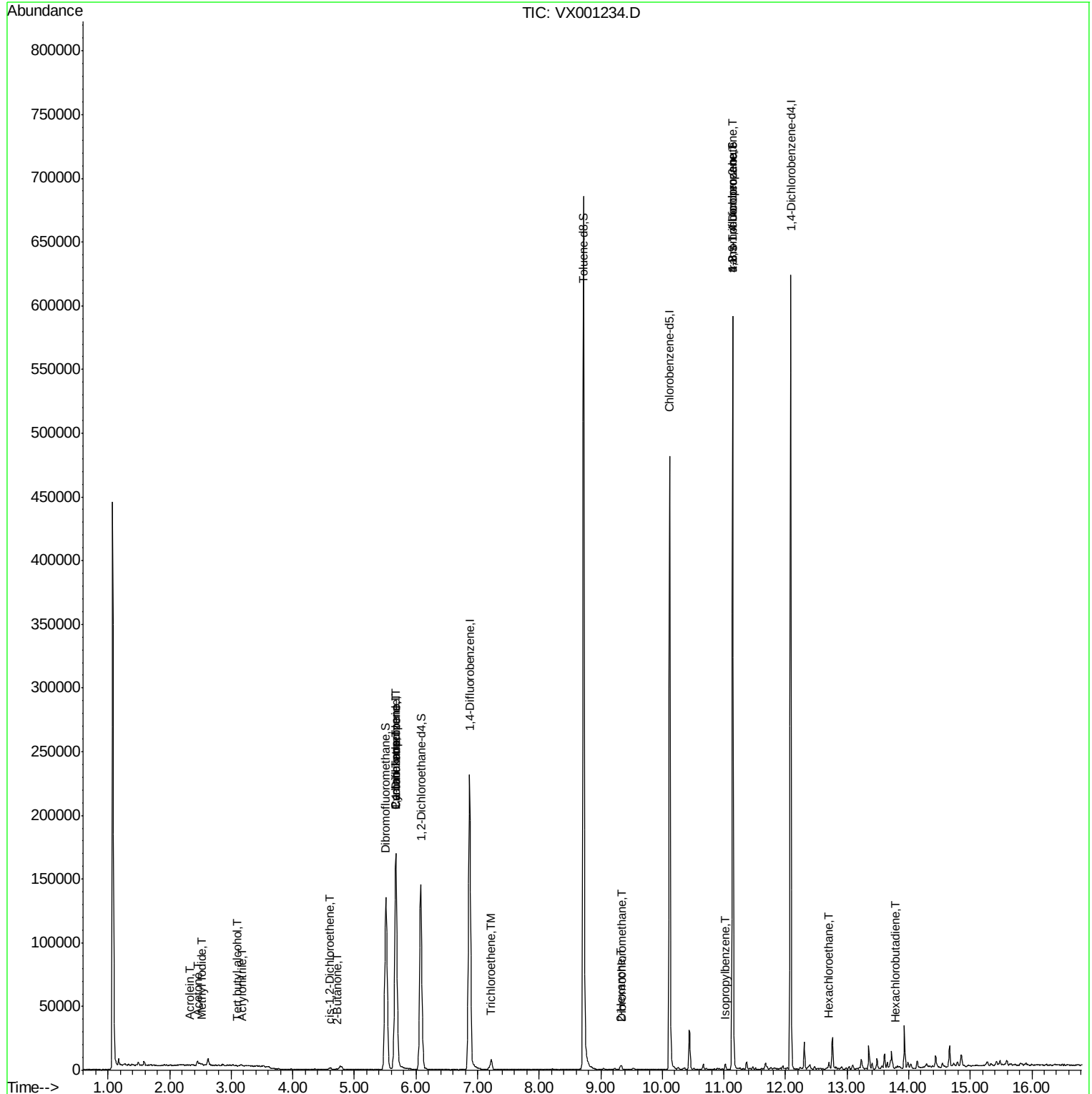
Quant Time: Apr 30 01:41:44 2018

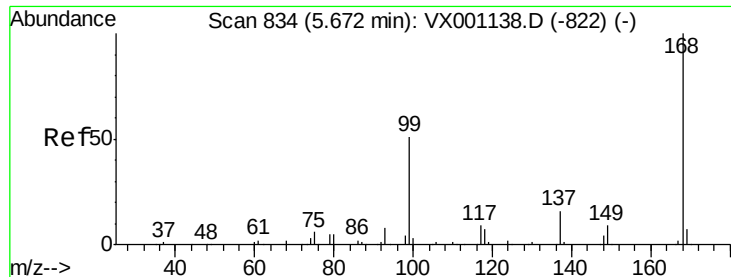
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X042618W.M

Quant Title : SW846 8260

QLast Update : Fri Apr 27 01:51:42 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: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

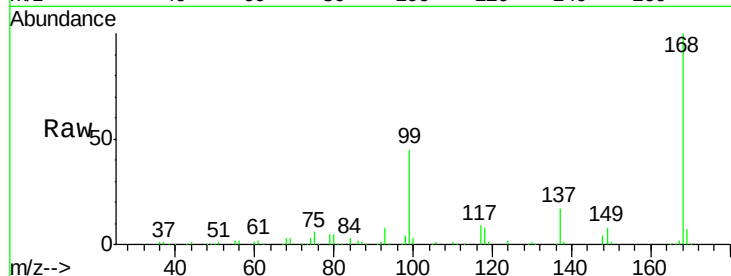
BP-TT-AOC22-MW04-20180424

Tgt Ion:168 Resp: 179038

Ion Ratio Lower Upper

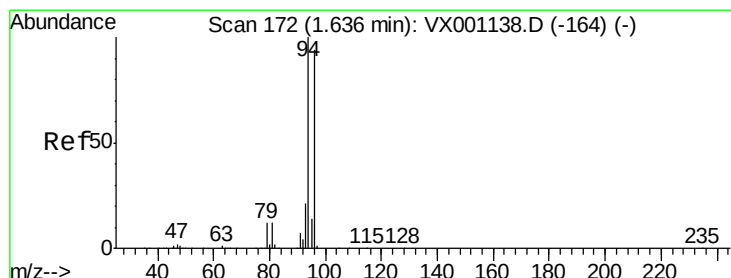
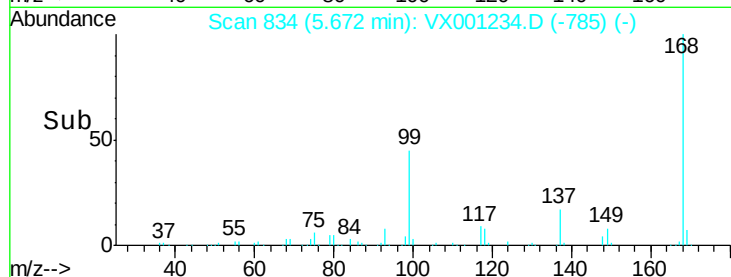
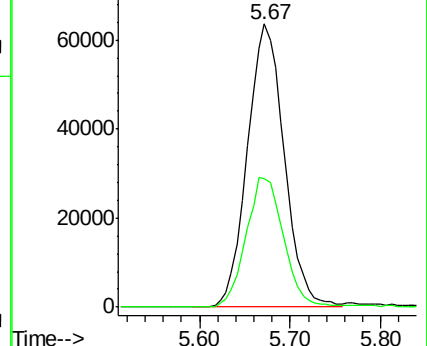
168 100

99 45.2 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX001234.D

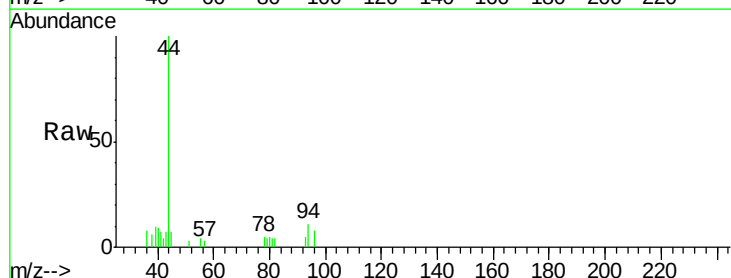
Acq: 29 Apr 2018 00:54

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

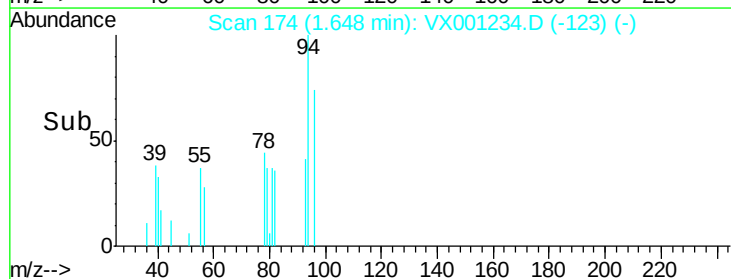
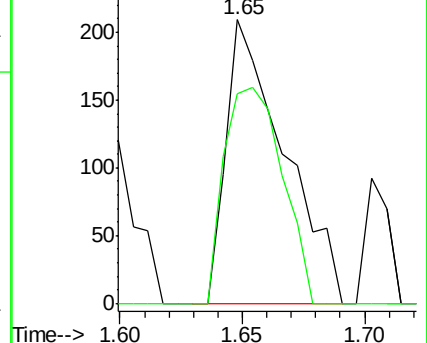
94 100

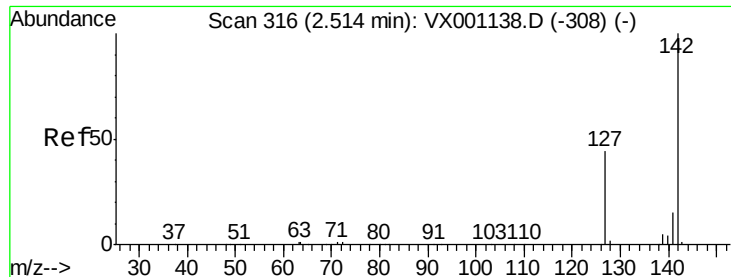
96 74.2 75.3 112.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

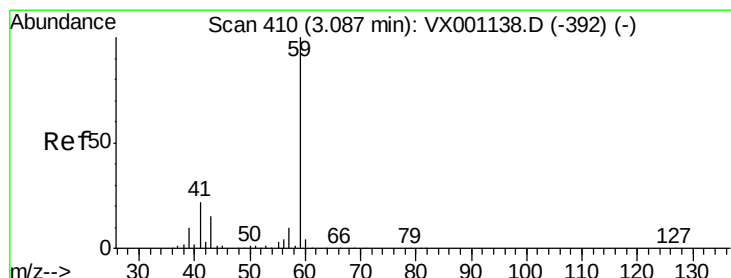
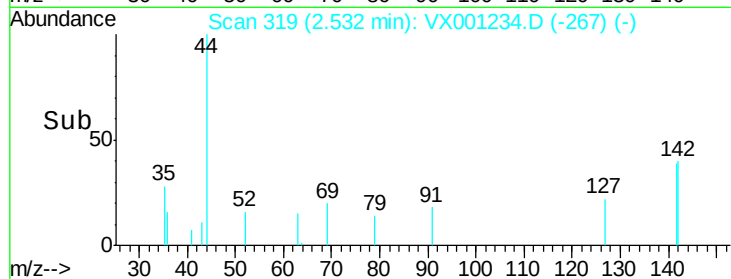
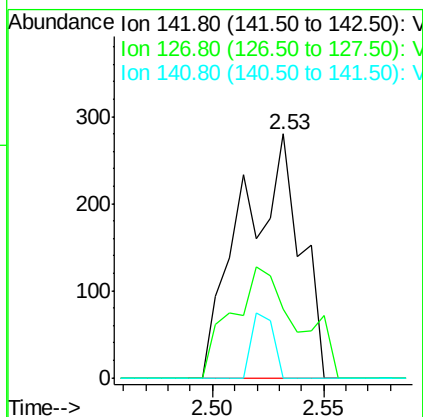
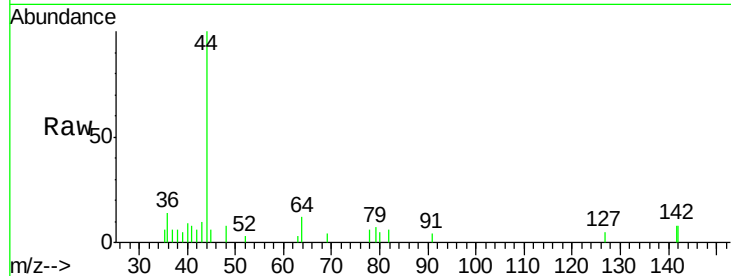




#10  
Methyl Iodide  
Concen: 7.46 ug/l  
RT: 2.53 min Scan# 319  
Delta R.T. 0.02 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

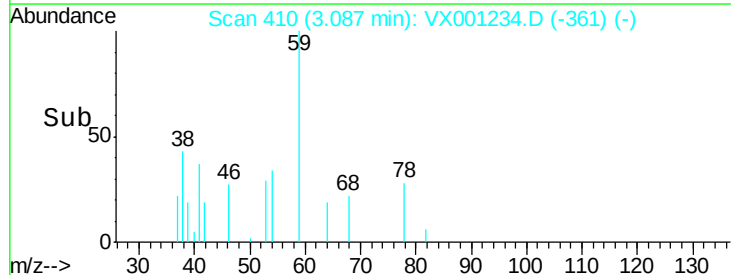
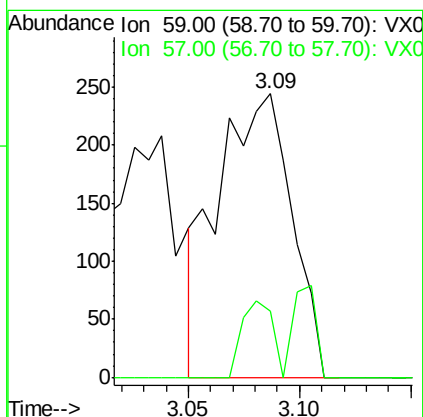
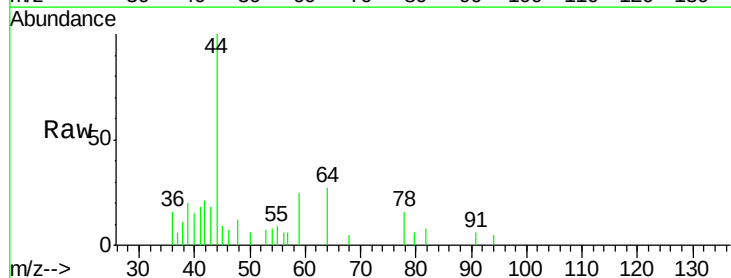
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW04-20180424

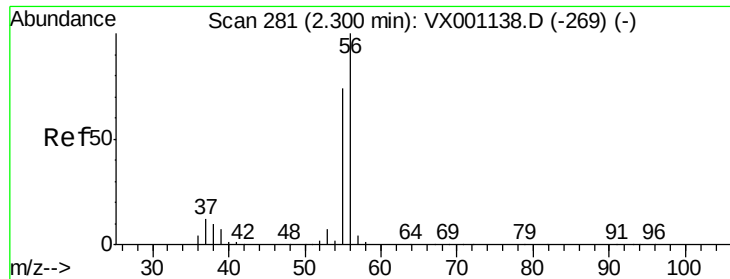
Tgt Ion: 142 Resp: 503  
Ion Ratio Lower Upper  
142 100  
127 51.5 34.7 52.1  
141 10.1 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 1.03 ug/l  
RT: 3.09 min Scan# 410  
Delta R.T. 0.00 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

Tgt Ion: 59 Resp: 562  
Ion Ratio Lower Upper  
59 100  
57 11.4 8.2 12.4

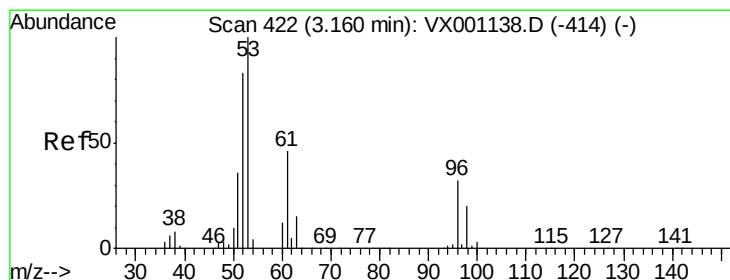
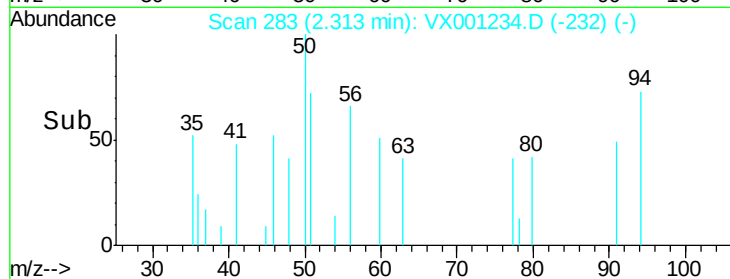
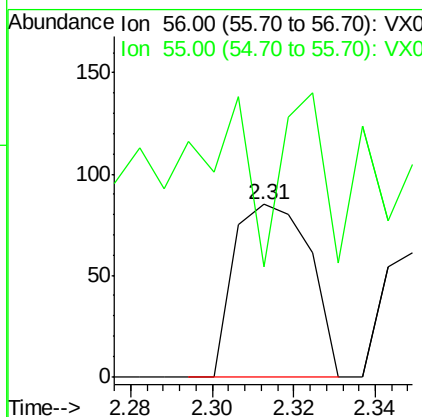
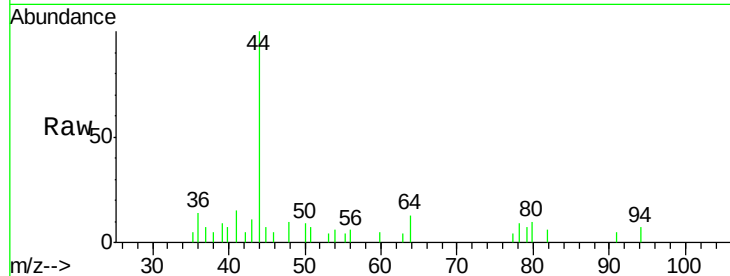




#13  
 Acrolein  
 Concen: 0.53 ug/l  
 RT: 2.31 min Scan# 283  
 Delta R.T. 0.01 min  
 Lab File: VX001234.D  
 Acq: 29 Apr 2018 00:54

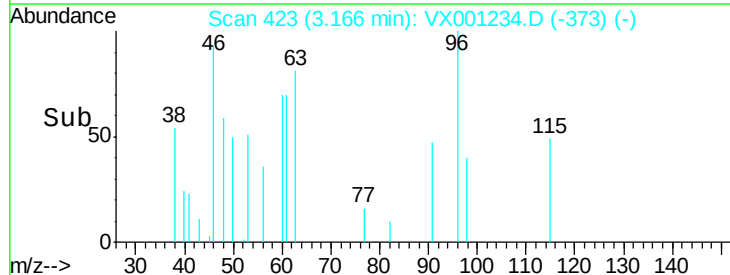
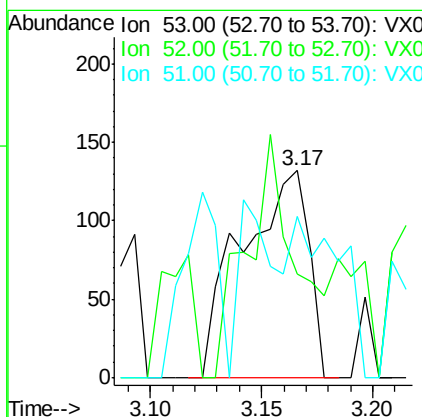
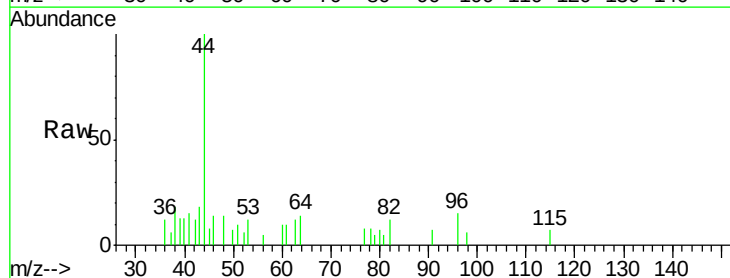
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW04-20180424

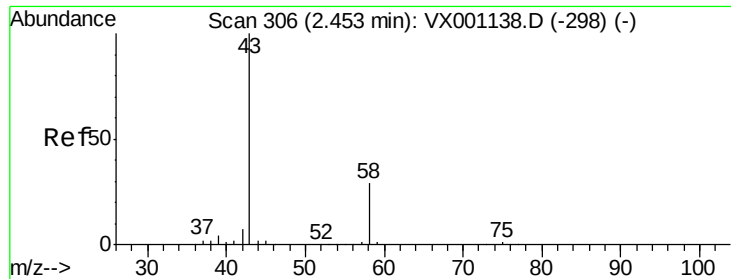
Tgt Ion: 56 Resp: 110  
 Ion Ratio Lower Upper  
 56 100  
 55 53.6 57.2 85.8#



#15  
 Acrylonitrile  
 Concen: 0.23 ug/l  
 RT: 3.17 min Scan# 423  
 Delta R.T. 0.01 min  
 Lab File: VX001234.D  
 Acq: 29 Apr 2018 00:54

Tgt Ion: 53 Resp: 274  
 Ion Ratio Lower Upper  
 53 100  
 52 0.0 66.5 99.7#  
 51 56.9 29.5 44.3#





#16

Acetone

Concen: 3.16 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

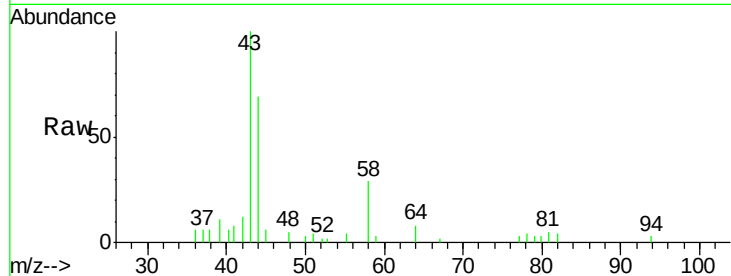
BP-TT-AOC22-MW04-20180424

Tgt Ion: 43 Resp: 3609

Ion Ratio Lower Upper

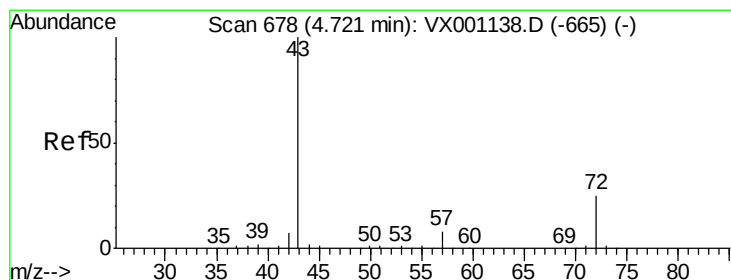
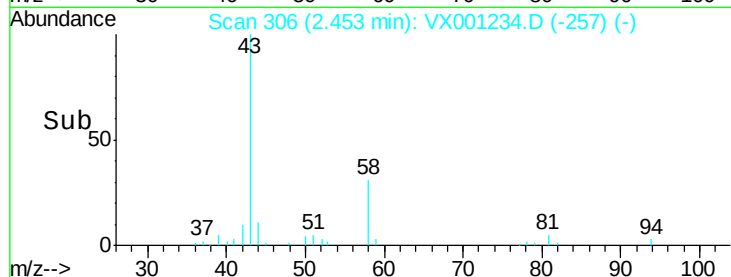
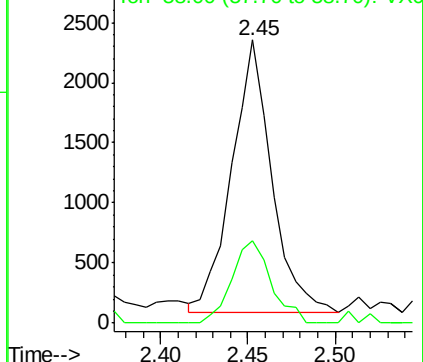
43 100

58 30.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.72 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.00 min

Lab File: VX001234.D

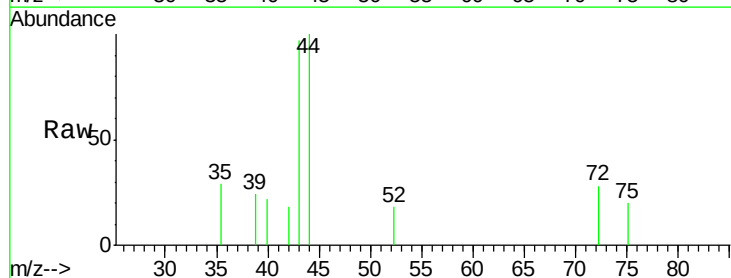
Acq: 29 Apr 2018 00:54

Tgt Ion: 43 Resp: 1232

Ion Ratio Lower Upper

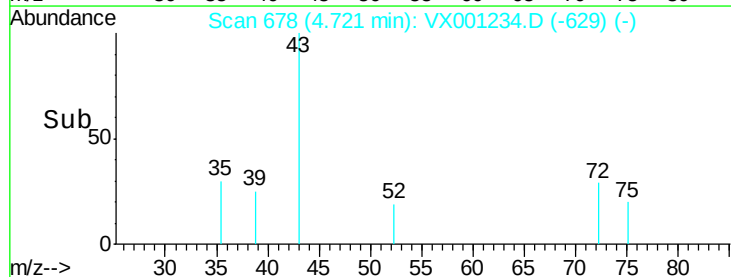
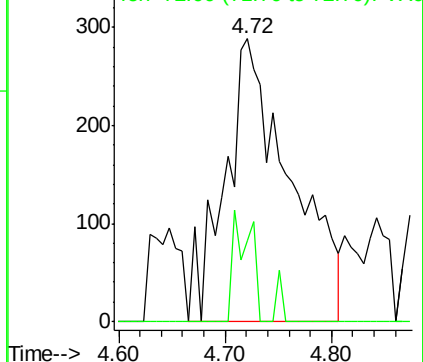
43 100

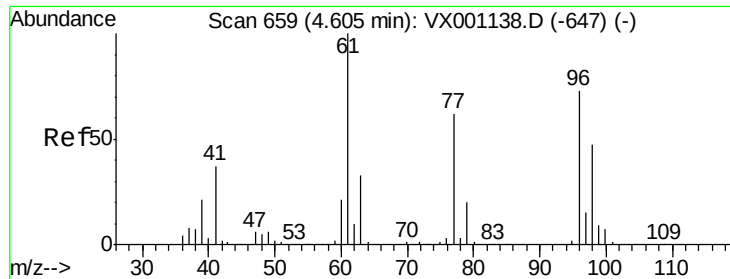
72 28.8 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.41 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20180424

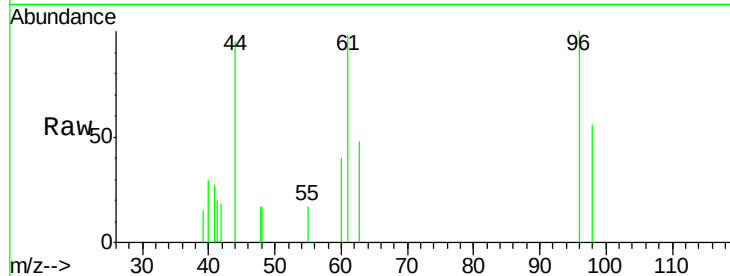
Tgt Ion: 96 Resp: 905

Ion Ratio Lower Upper

96 100

61 121.9 0.0 289.0

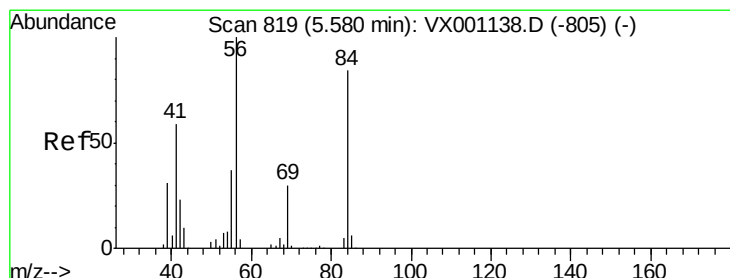
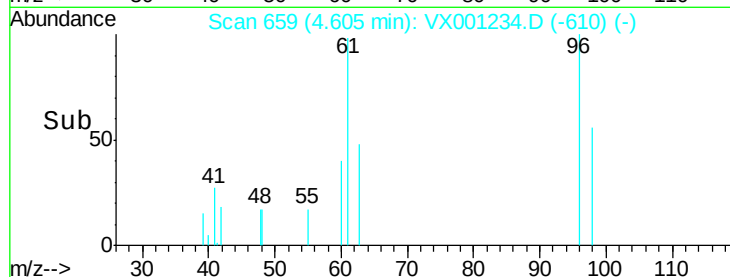
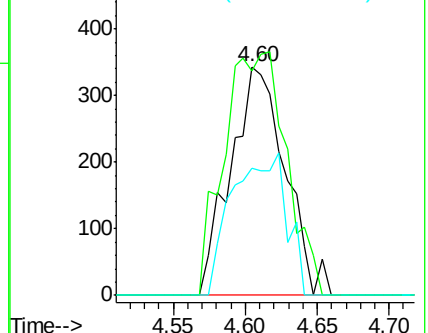
98 61.8 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 1.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

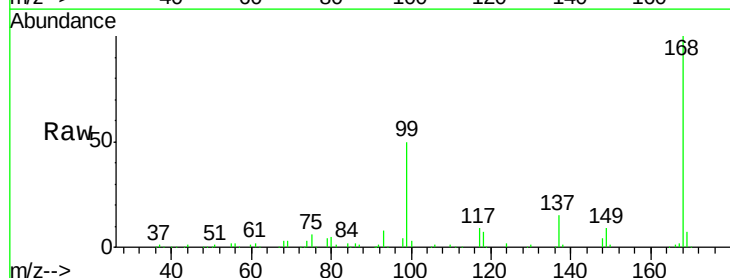
Tgt Ion: 56 Resp: 3386

Ion Ratio Lower Upper

56 100

69 148.3 24.2 36.2#

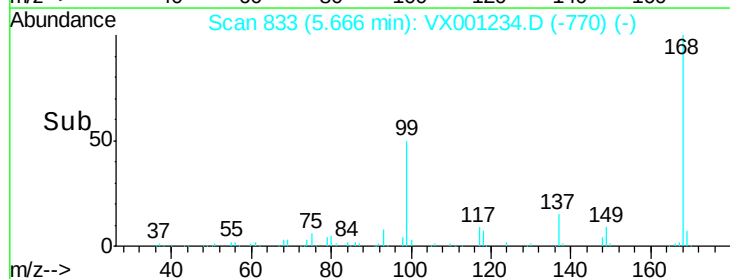
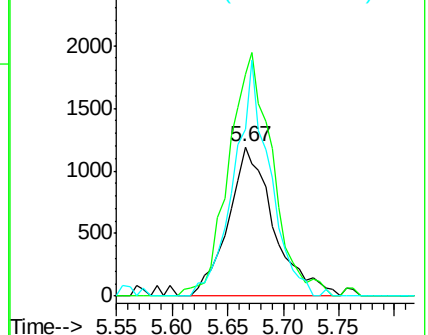
84 117.2 67.5 101.3#

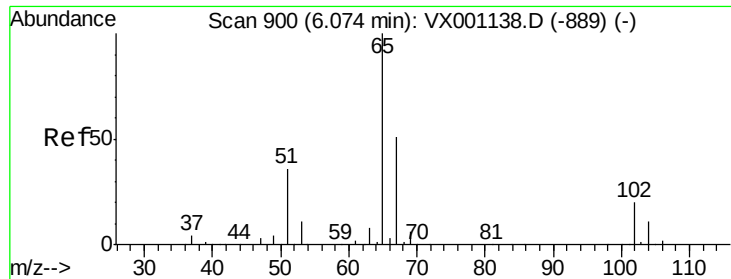


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

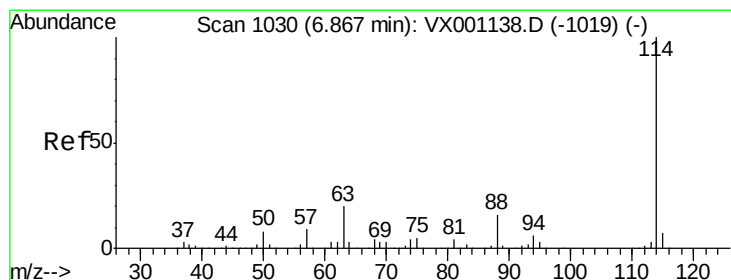
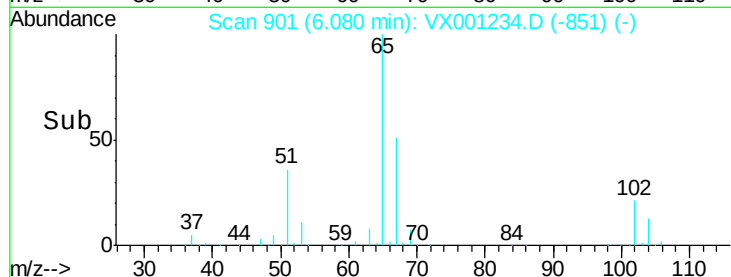
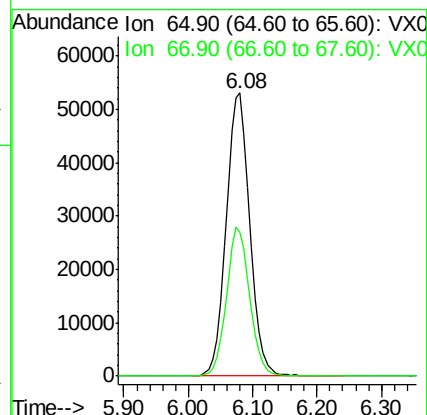
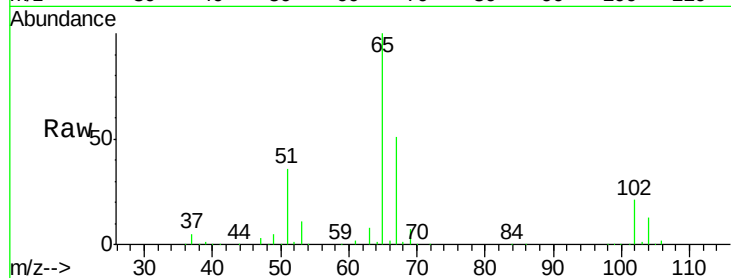




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.44 ug/l  
 RT: 6.08 min Scan# 901  
 Delta R.T. 0.01 min  
 Lab File: VX001234.D  
 Acq: 29 Apr 2018 00:54

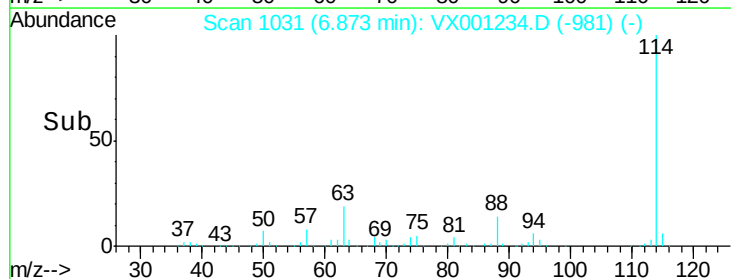
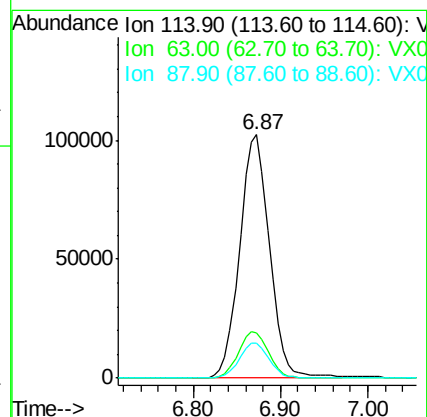
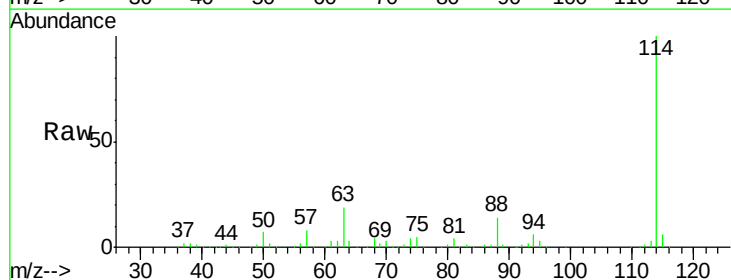
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW04-20180424

Tgt Ion: 65 Resp: 137212  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 102.2

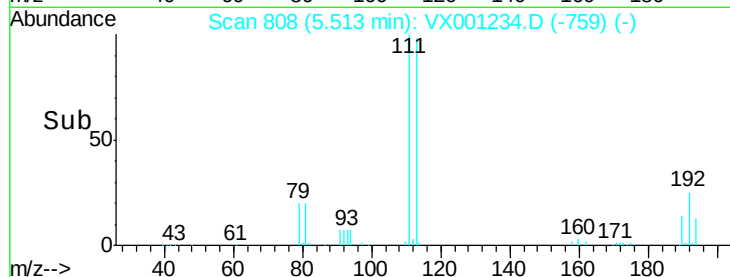
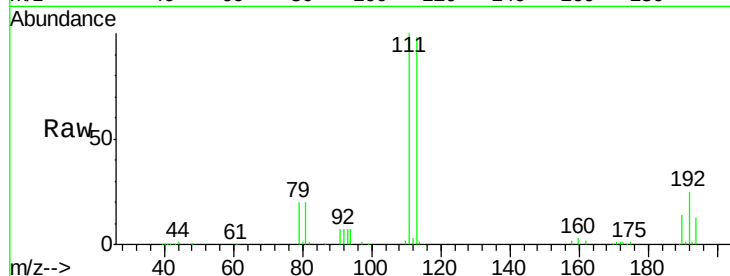
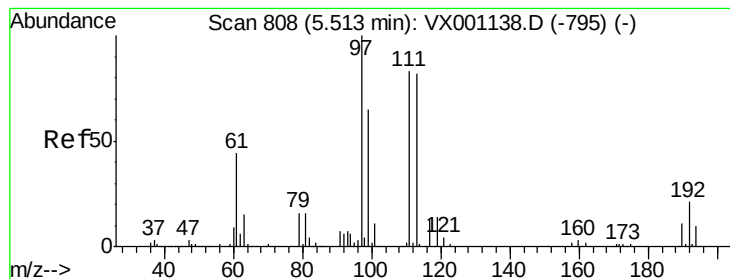


#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX001234.D  
 Acq: 29 Apr 2018 00:54

Tgt Ion: 114 Resp: 243188  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 40.4  
 88 14.2 0.0 31.8







#35

Dibromofluoromethane

Concen: 54.28 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20180424

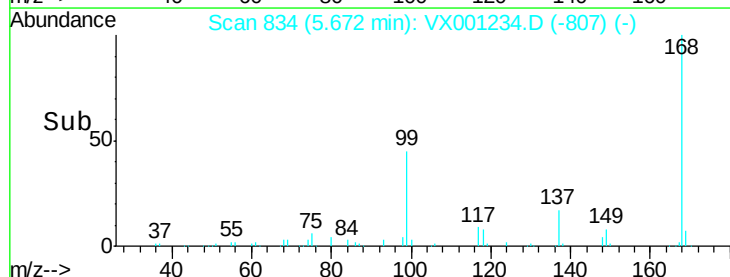
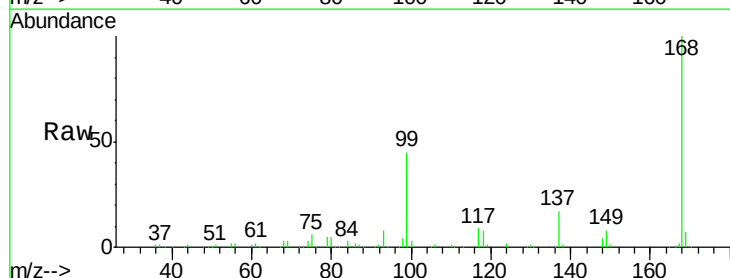
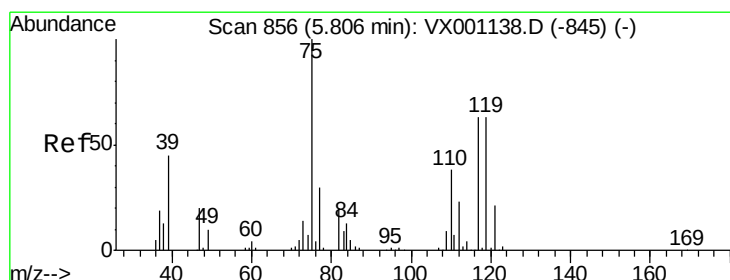
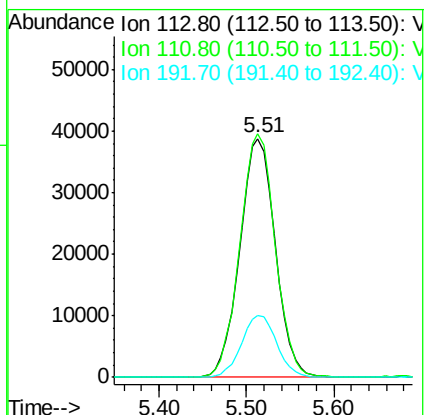
Tgt Ion:113 Resp: 109250

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

192 25.7 20.6 30.8



#36

1,1-Dichloropropene

Concen: 3.99 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

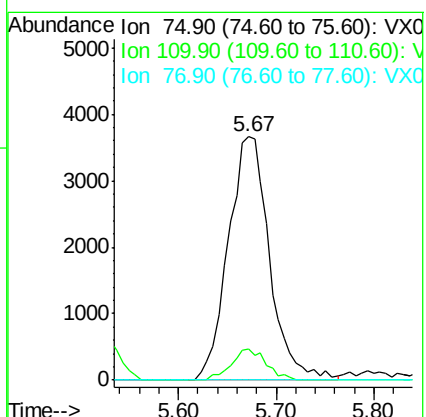
Tgt Ion: 75 Resp: 10700

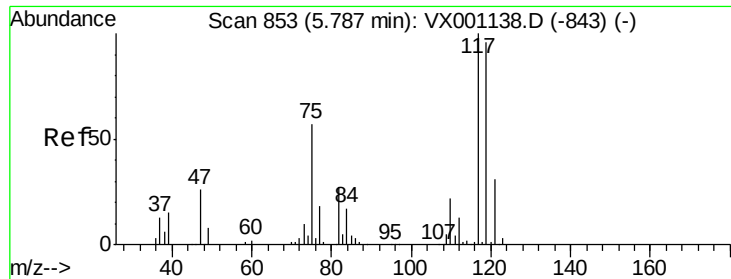
Ion Ratio Lower Upper

75 100

110 10.9 19.0 57.0#

77 0.0 24.8 37.2#

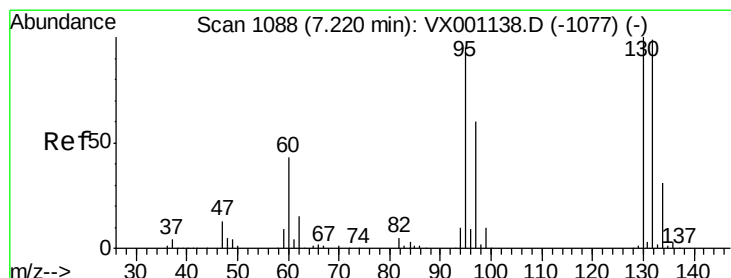
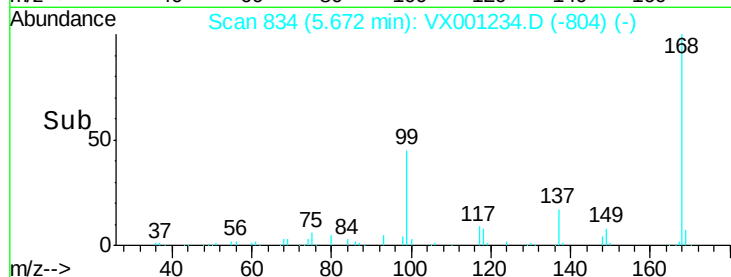
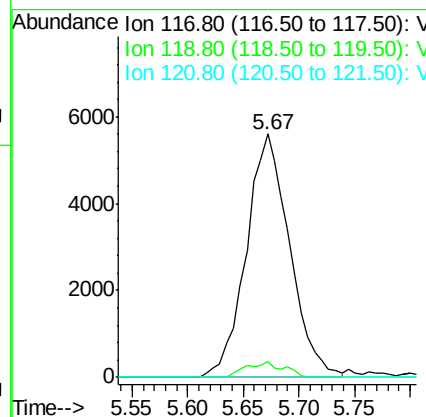
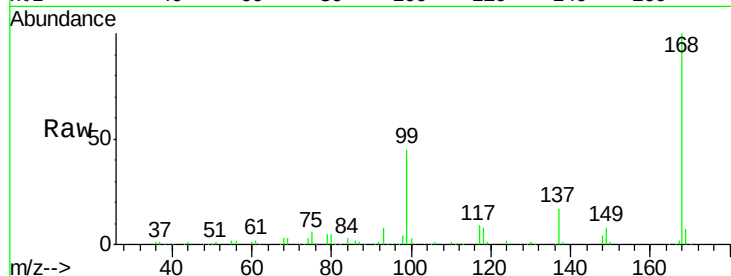




#38  
Carbon Tetrachloride  
Concen: 5.51 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.12 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

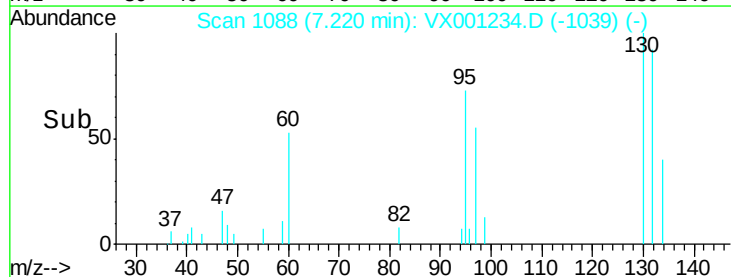
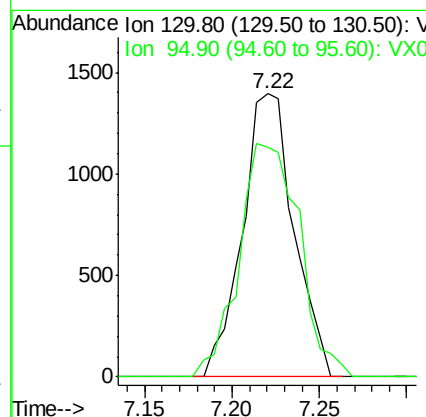
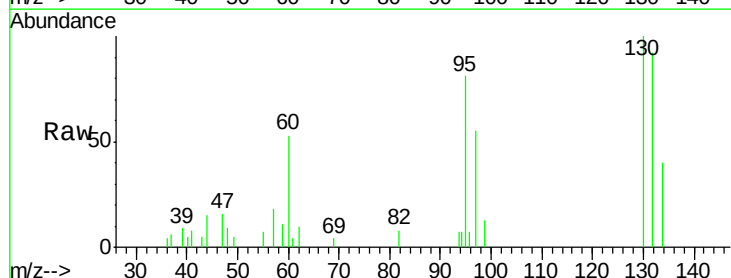
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW04-20180424

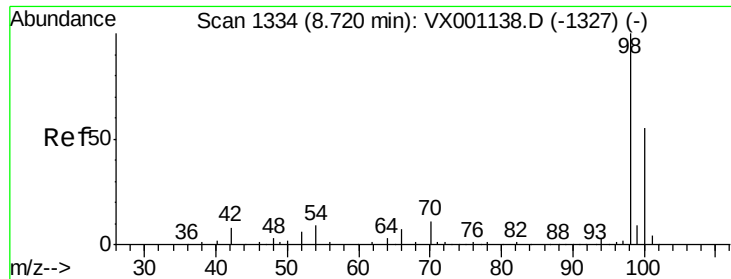
Tgt Ion:117 Resp: 15141  
Ion Ratio Lower Upper  
117 100  
119 6.3 76.5 114.7#  
121 0.0 24.6 37.0#



#44  
Trichloroethene  
Concen: 1.24 ug/l  
RT: 7.22 min Scan# 1088  
Delta R.T. 0.00 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

Tgt Ion:130 Resp: 2864  
Ion Ratio Lower Upper  
130 100  
95 81.1 0.0 189.6

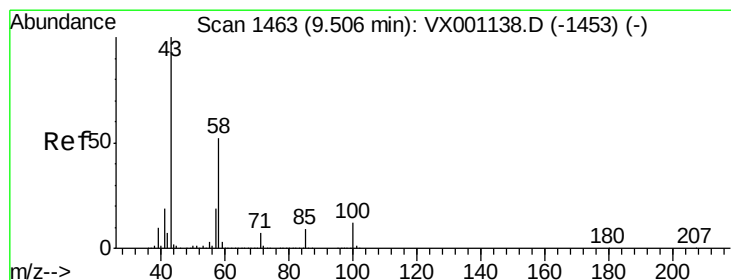
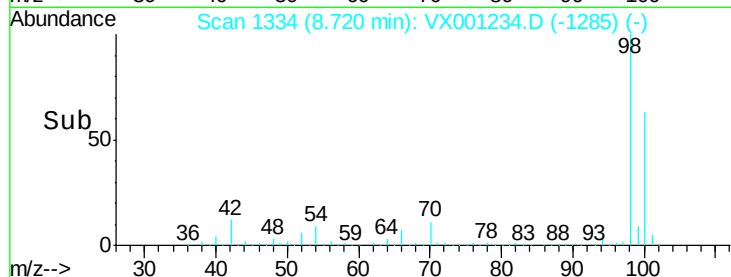
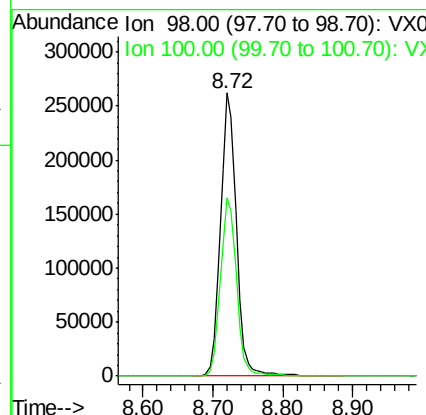
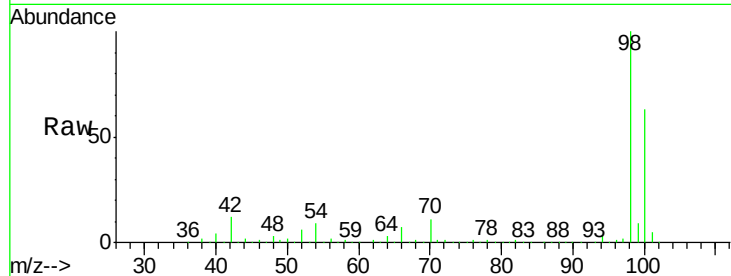




#50  
Toluene-d8  
Concen: 54.53 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

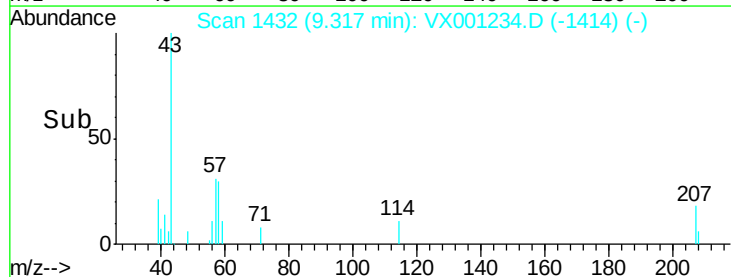
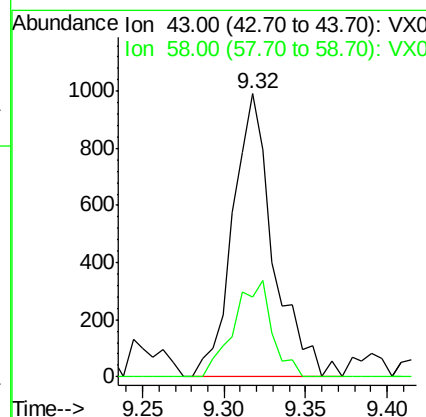
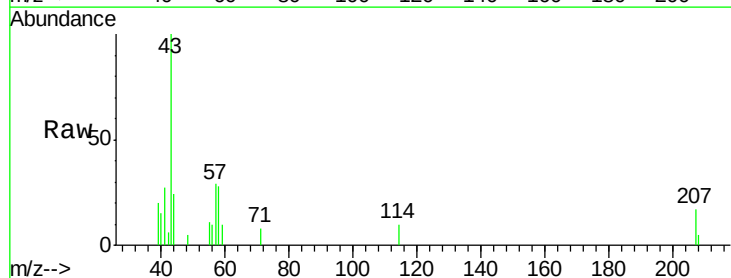
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW04-20180424

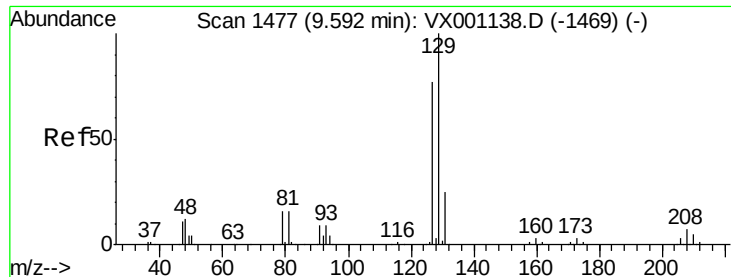
Tgt Ion: 98 Resp: 414258  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.8 77.6



#59  
2-Hexanone  
Concen: 0.66 ug/l  
RT: 9.32 min Scan# 1432  
Delta R.T. -0.19 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

Tgt Ion: 43 Resp: 1715  
Ion Ratio Lower Upper  
43 100  
58 32.1 25.8 77.4





#60

Dibromochloromethane

Concen: 3.45 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

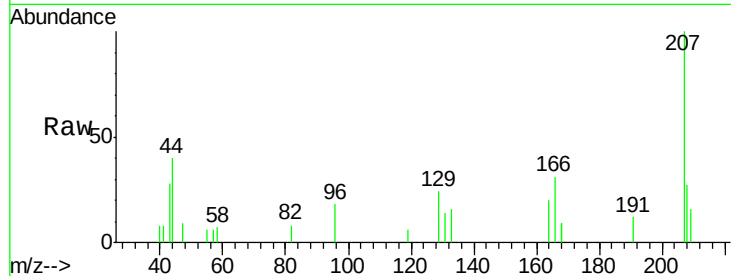
BP-TT-AOC22-MW04-20180424

Tgt Ion:129 Resp: 283

Ion Ratio Lower Upper

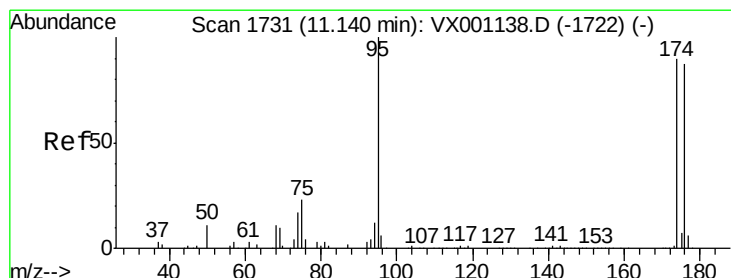
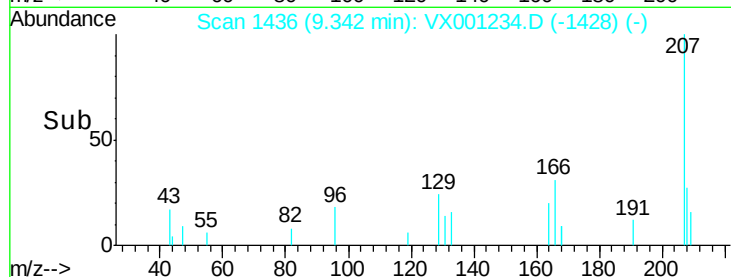
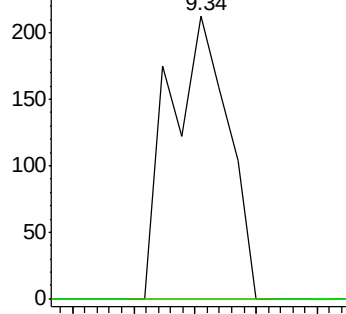
129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.04 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

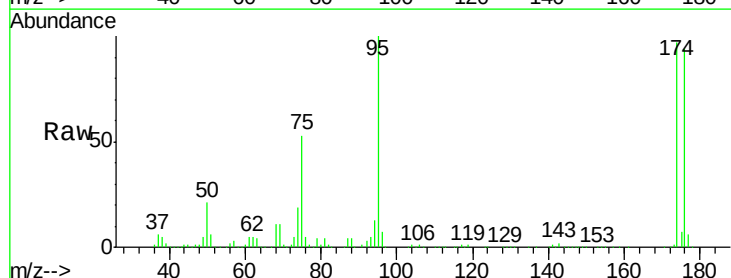
Tgt Ion: 95 Resp: 142567

Ion Ratio Lower Upper

95 100

174 102.5 0.0 194.4

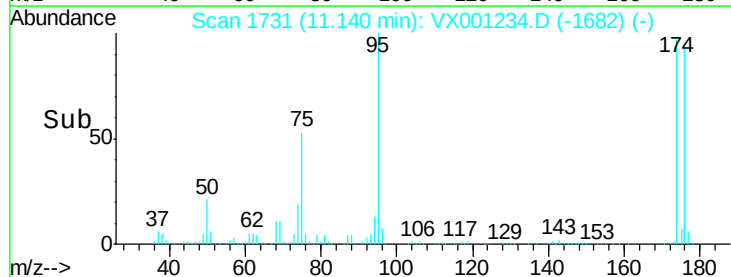
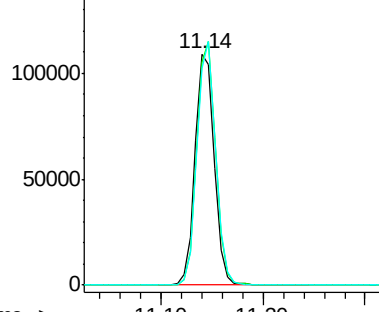
176 101.4 0.0 190.2

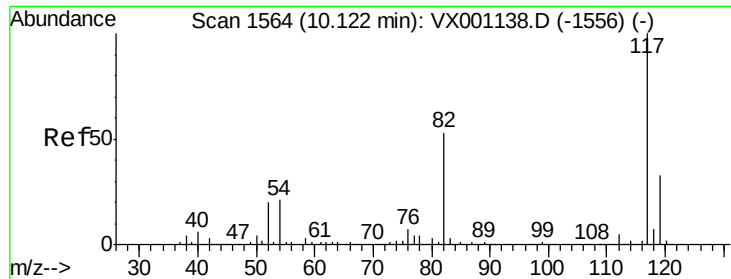


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

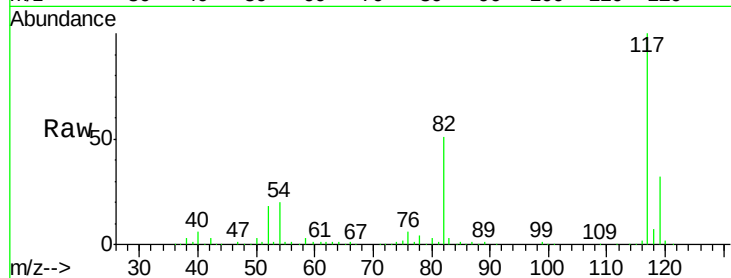




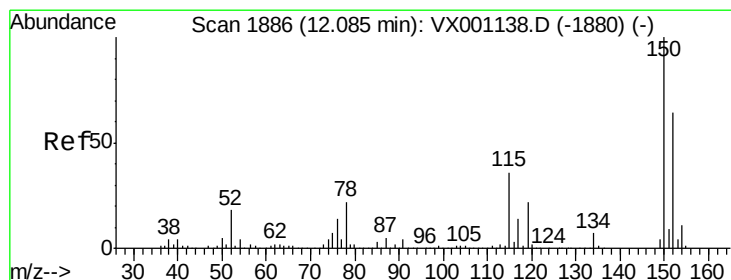
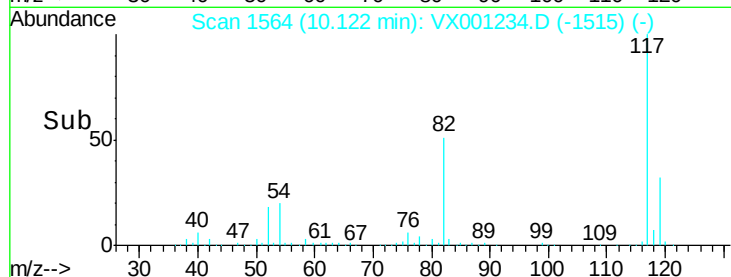
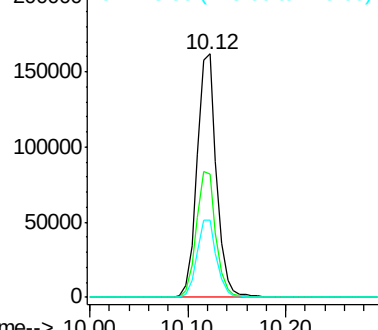
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.00 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW04-20180424

Tgt Ion:117 Resp: 222936  
Ion Ratio Lower Upper  
117 100  
82 50.7 42.1 63.1  
119 31.9 26.1 39.1

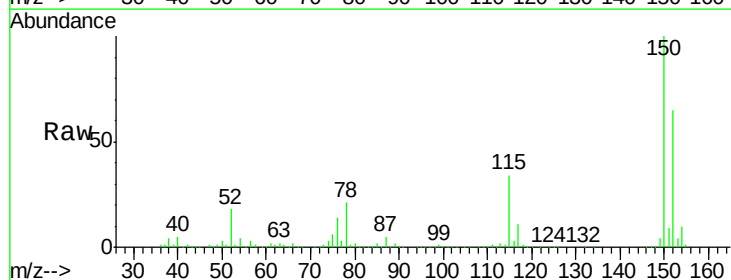


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

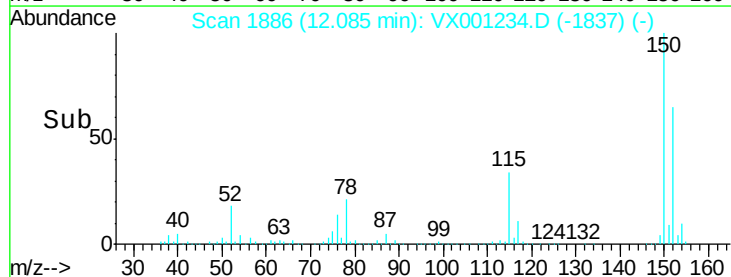
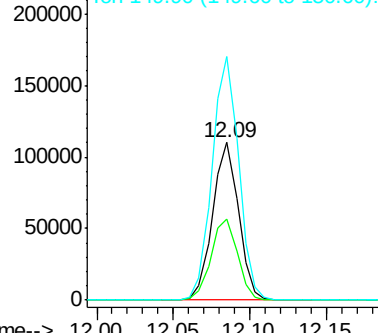


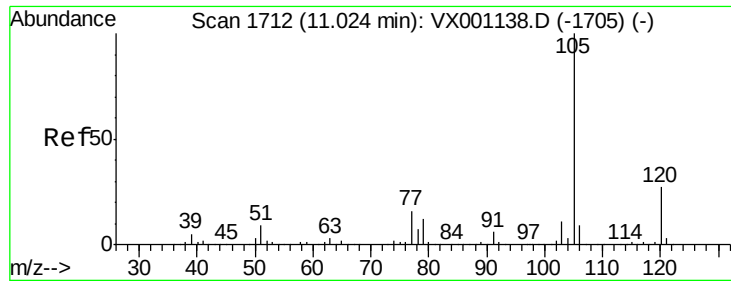
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001234.D  
Acq: 29 Apr 2018 00:54

Tgt Ion:152 Resp: 129142  
Ion Ratio Lower Upper  
152 100  
115 53.3 38.0 114.0  
150 158.4 0.0 349.6



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





#73

Isopropylbenzene

Concen: 0.27 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

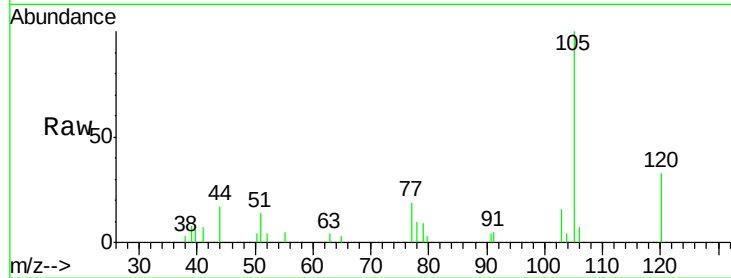
BP-TT-AOC22-MW04-20180424

Tgt Ion: 105 Resp: 2313

Ion Ratio Lower Upper

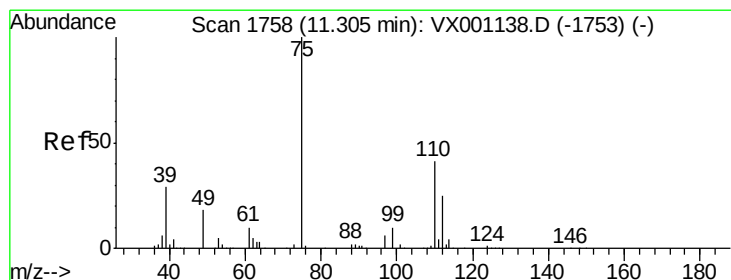
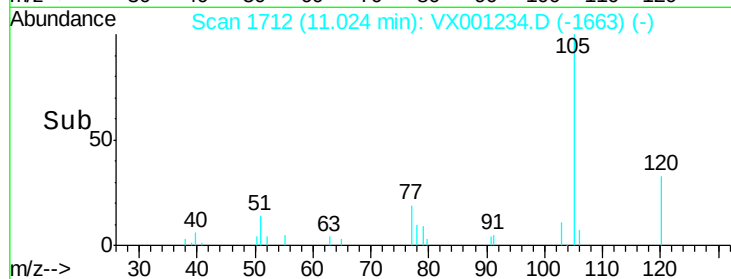
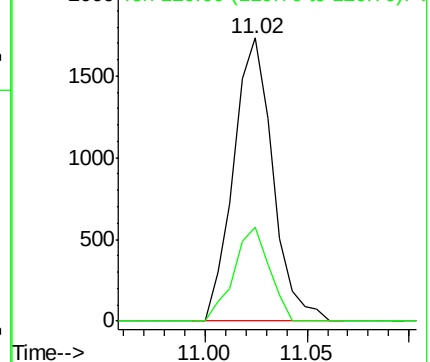
105 100

120 30.0 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 28.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001234.D

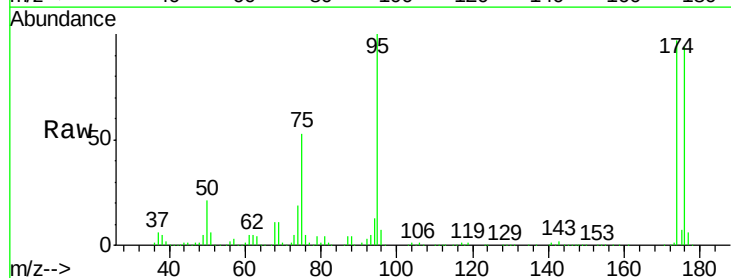
Acq: 29 Apr 2018 00:54

Tgt Ion: 75 Resp: 73831

Ion Ratio Lower Upper

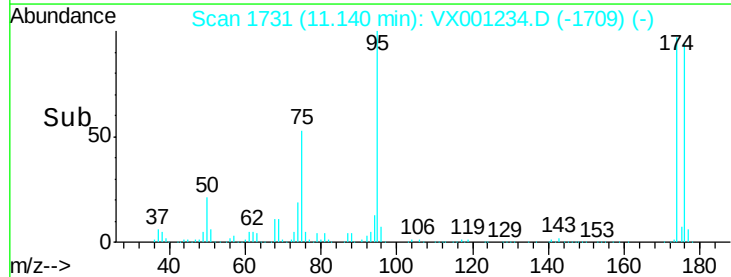
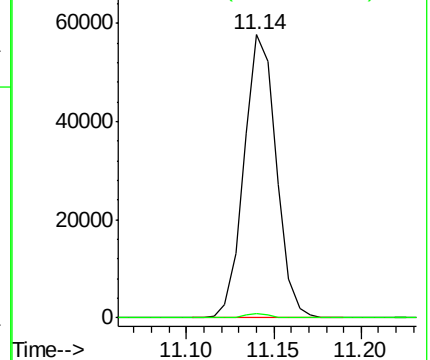
75 100

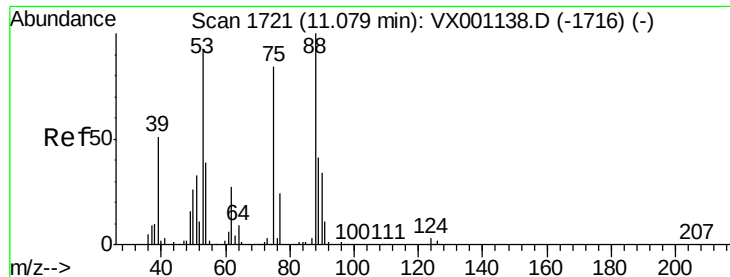
77 1.3 18.9 56.9#



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: 85.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001234.D

Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20180424

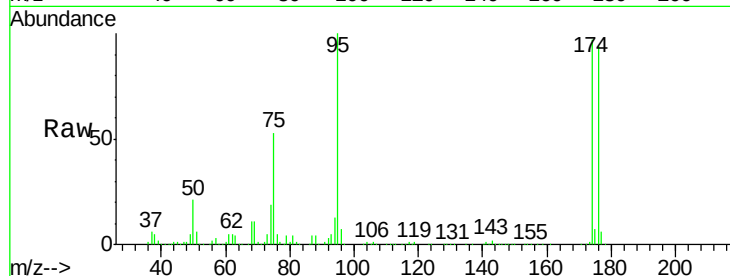
Tgt Ion: 75 Resp: 73831

Ion Ratio Lower Upper

75 100

53 0.1 87.9 131.9#

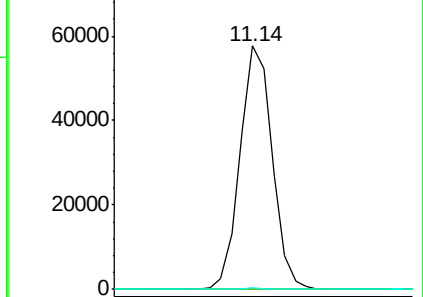
89 0.1 37.7 56.5#



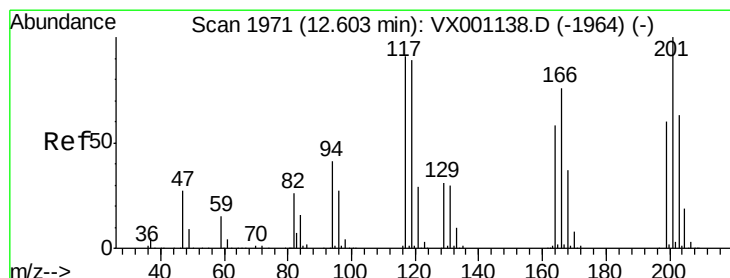
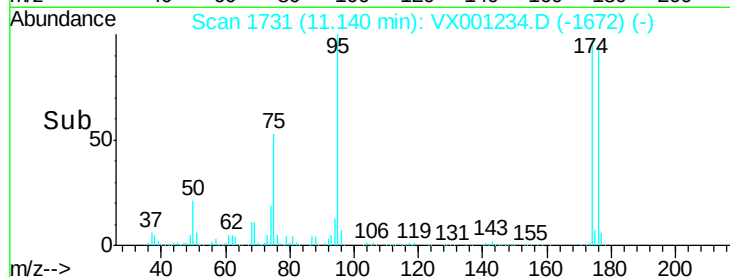
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->



#90

Hexachloroethane

Concen: 4.46 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VX001234.D

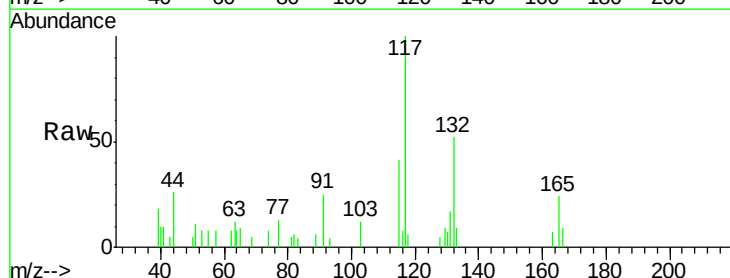
Acq: 29 Apr 2018 00:54

Tgt Ion: 117 Resp: 1449

Ion Ratio Lower Upper

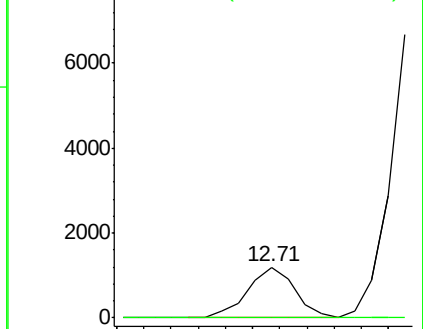
117 100

201 0.0 51.8 155.4#

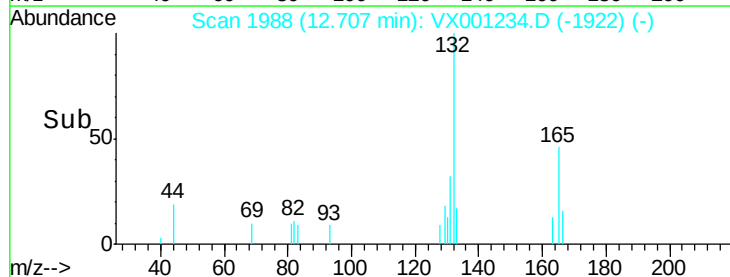


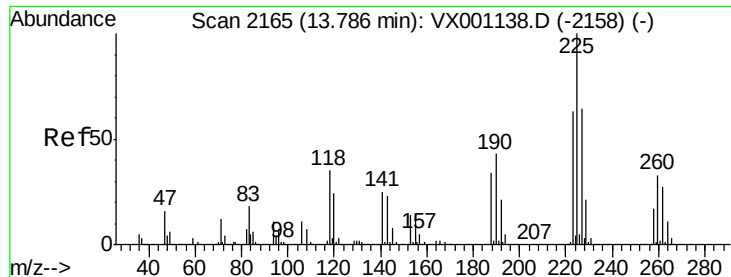
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->





#94

Hexachlorobutadiene

Concen: 0.21 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX001234.D

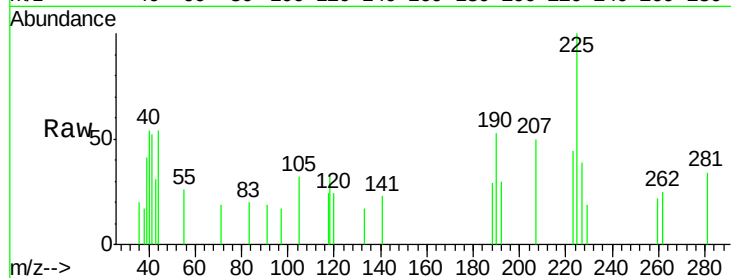
Acq: 29 Apr 2018 00:54

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20180424



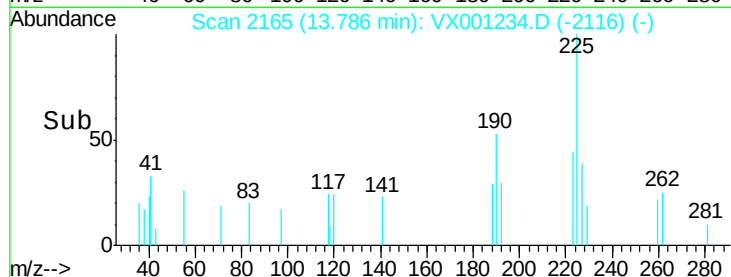
Tgt Ion: 225 Resp: 348

Ion Ratio Lower Upper

225 100

223 65.5 31.3 93.9

227 53.4 32.2 96.6



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

