

Data File : VX001873.D

Acq On : 21 May 2018 13:17

Operator : JC/MD

Sample : J2853-02RE

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

KY074MW067-180507RE

Quant Time: May 22 01:46:45 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  | 290168   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 393287   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 294715   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 159293   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 183068   | 47.07 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.14% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 162249   | 48.89 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.78% |      |
| 50) Toluene-d8            | 8.72   | 98  | 584825   | 49.20 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.40% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 159318   | 37.22 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.44% |      |

## Target Compounds

|                                |       |     |       |       |      | Qvalue |
|--------------------------------|-------|-----|-------|-------|------|--------|
| 4) Vinyl Chloride              | 1.40  | 62  | 7775  | 2.29  | ug/l | 97     |
| 5) Bromomethane                | 1.65  | 94  | 726   | Below | Cal  | # 57   |
| 6) Chloroethane                | 1.65  | 64  | 12236 | 5.71  | ug/l | # 58   |
| 11) Tert butyl alcohol         | 3.07  | 59  | 1614  | 2.34  | ug/l | # 94   |
| 13) Acrolein                   | 2.26  | 56  | 340   | 0.69  | ug/l | # 1    |
| 16) Acetone                    | 2.45  | 43  | 2066  | 1.35  | ug/l | 92     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96  | 6124  | 1.70  | ug/l | 75     |
| 31) Cyclohexane                | 5.67  | 56  | 4448  | 0.91  | ug/l | # 1    |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 16531 | 3.65  | ug/l | # 49   |
| 38) Carbon Tetrachloride       | 5.66  | 117 | 23490 | 4.95  | ug/l | # 15   |
| 40) Benzene                    | 6.15  | 78  | 9198  | 0.69  | ug/l | 100    |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 74149 | 24.48 | ug/l | # 39   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 74149 | 71.43 | ug/l | # 10   |

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

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ClientSampleId :

KY074MW067-180507RE

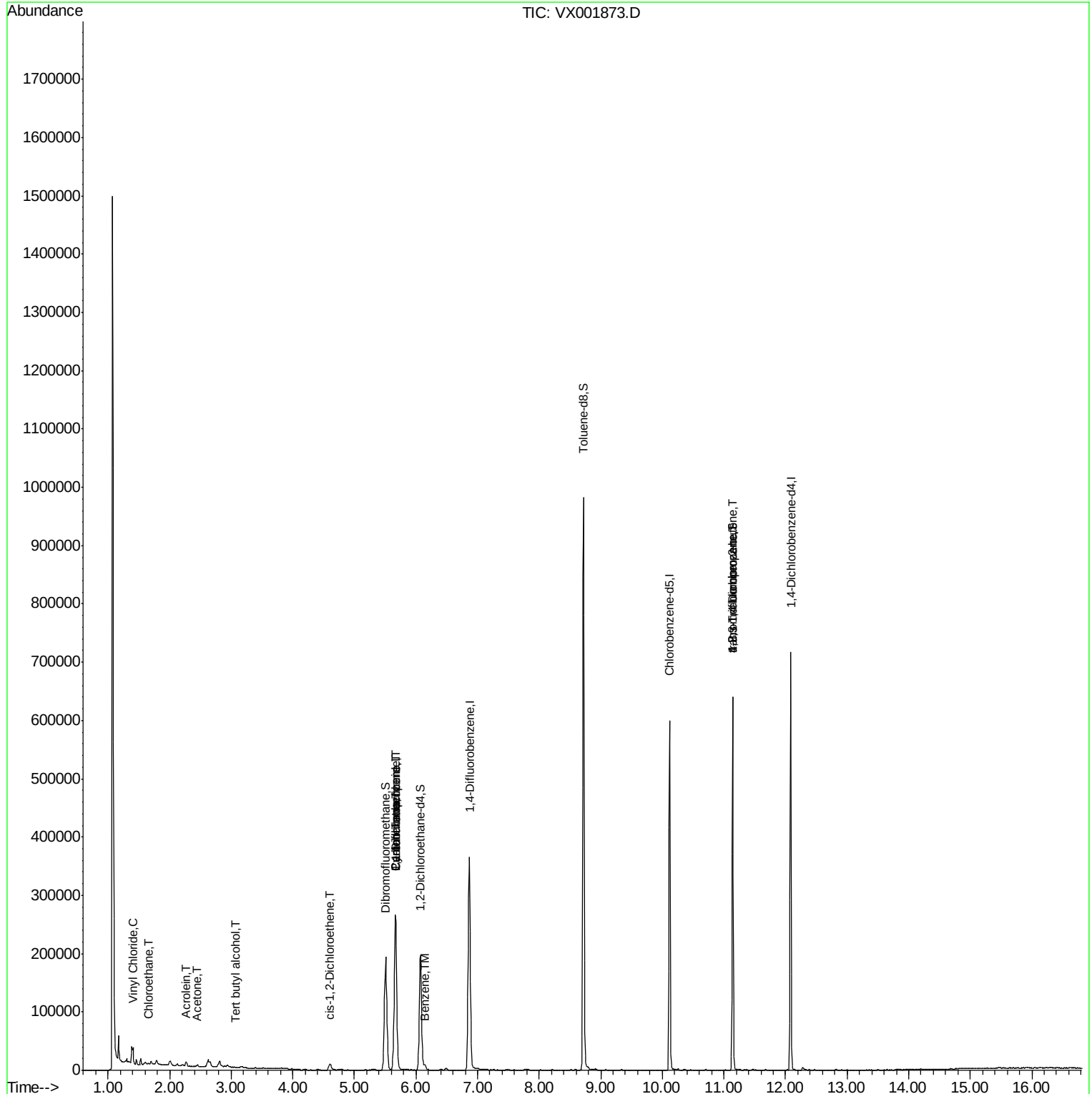
Quant Time: May 22 01:46:45 2018

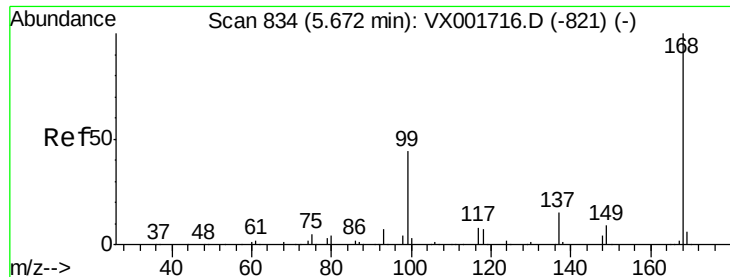
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M

Quant Title : SW846 8260

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

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

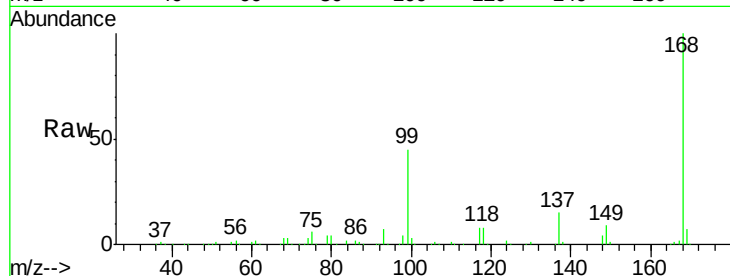
KY074MW067-180507RE

Tgt Ion: 168 Resp: 290168

Ion Ratio Lower Upper

168 100

99 45.0 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

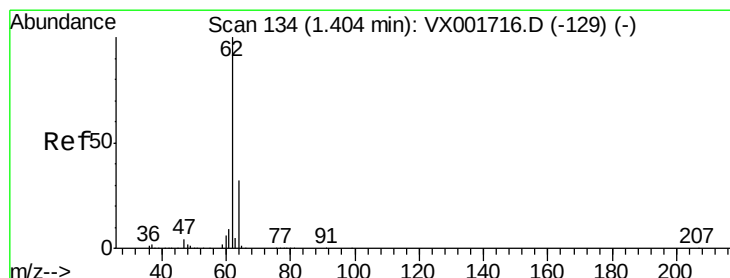
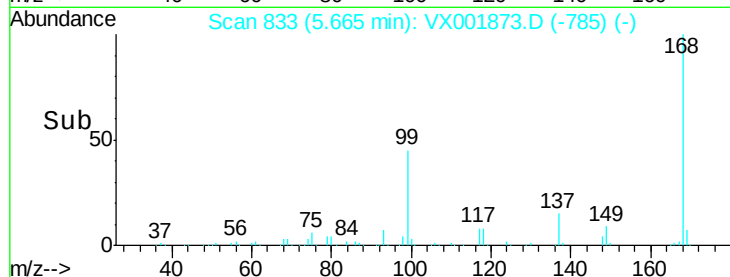
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 2.29 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX001873.D

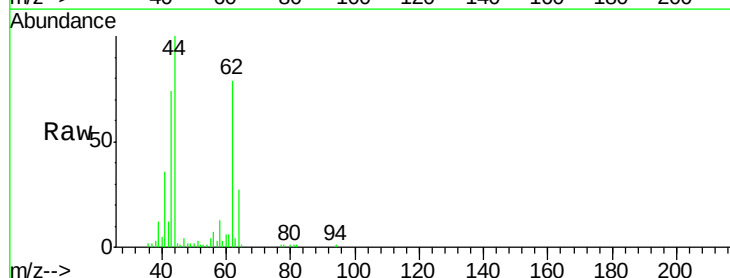
Acq: 21 May 2018 13:17

Tgt Ion: 62 Resp: 7775

Ion Ratio Lower Upper

62 100

64 33.8 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

8000

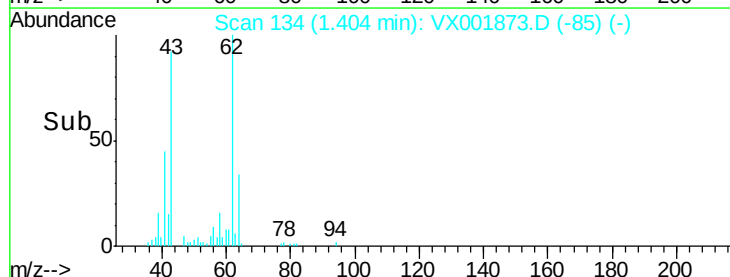
6000

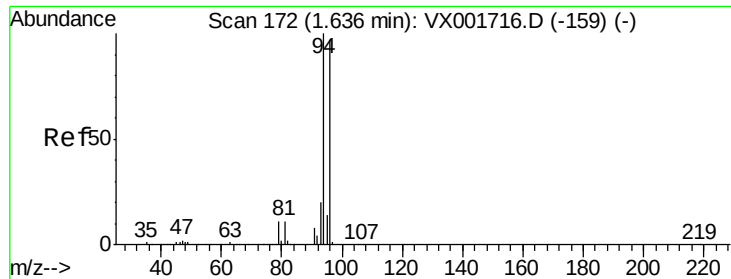
4000

2000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

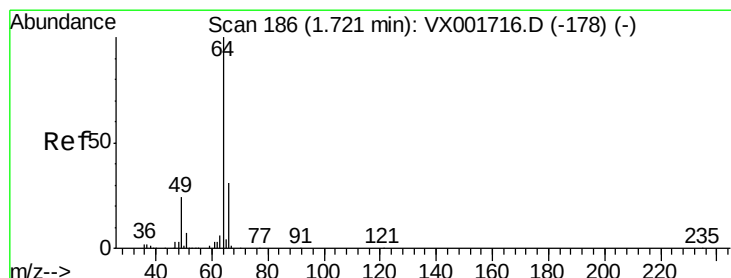
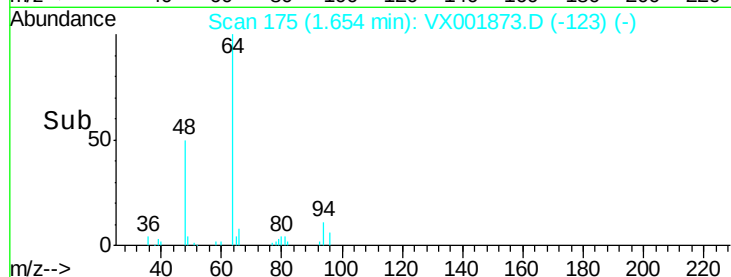
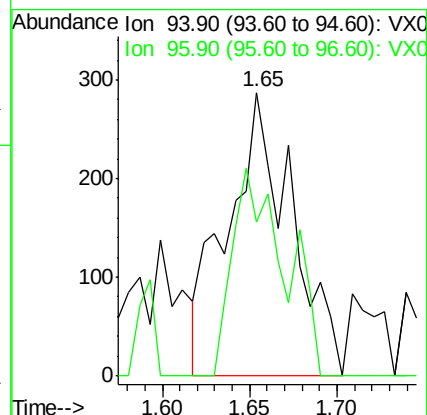
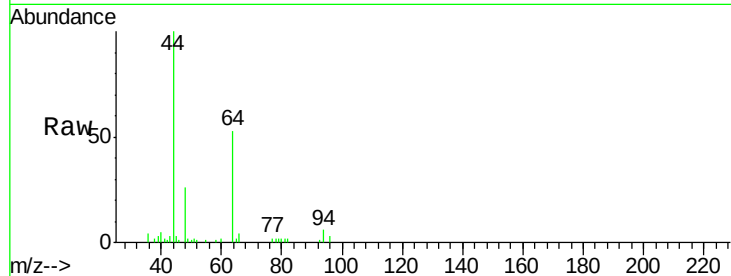
KY074MW067-180507RE

Tgt Ion: 94 Resp: 726

Ion Ratio Lower Upper

94 100

96 54.4 77.4 116.0#



#6

Chloroethane

Concen: 5.71 ug/l

RT: 1.65 min Scan# 175

Delta R.T. -0.07 min

Lab File: VX001873.D

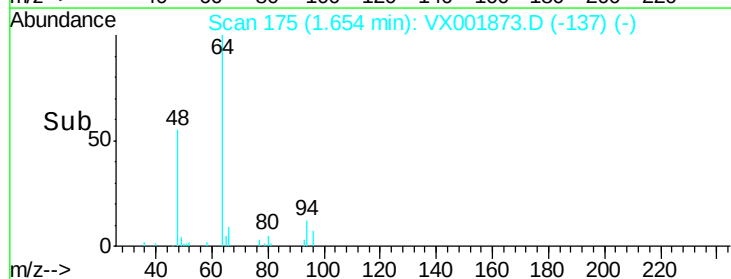
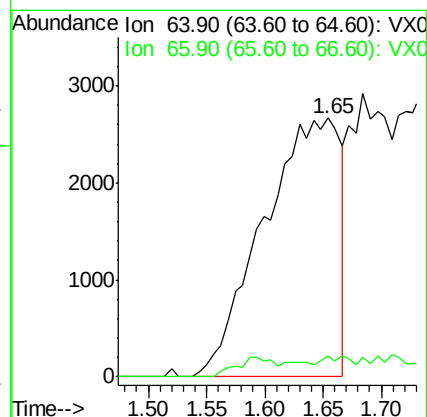
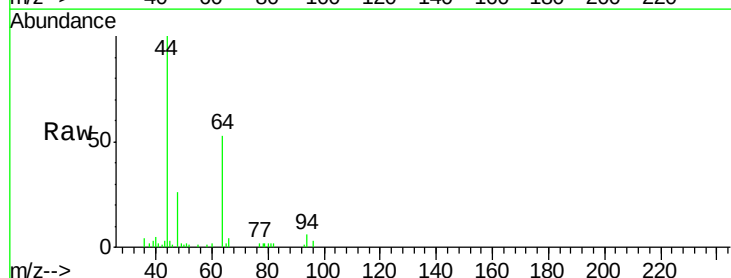
Acq: 21 May 2018 13:17

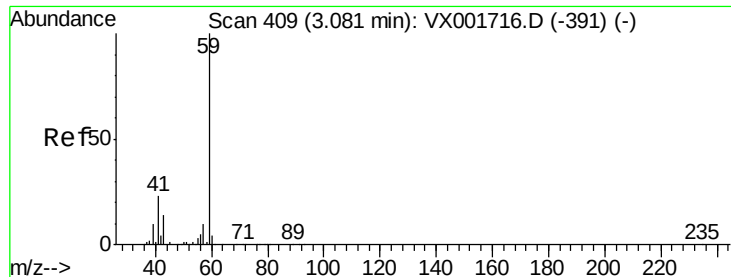
Tgt Ion: 64 Resp: 12236

Ion Ratio Lower Upper

64 100

66 8.0 25.2 37.8#

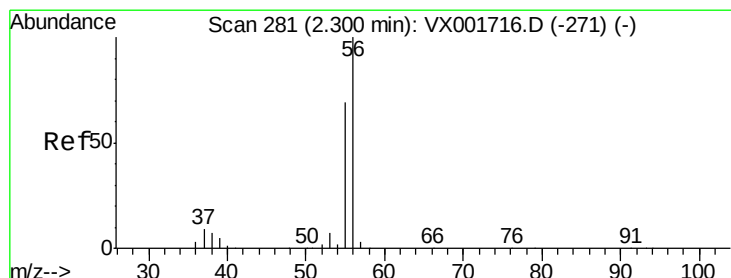
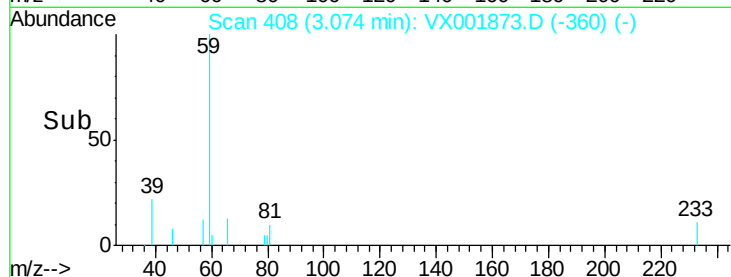
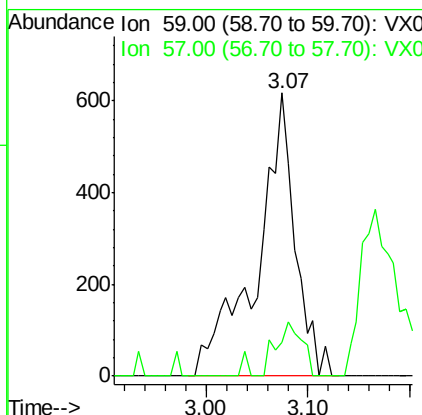
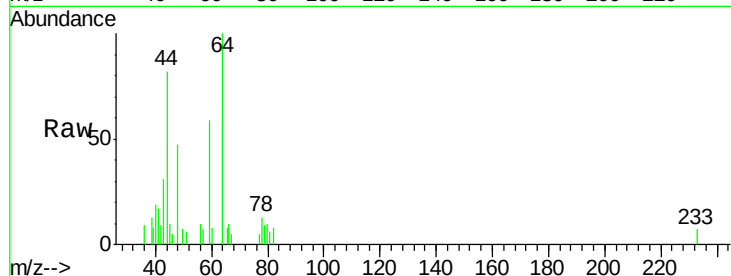




#11  
Tert butyl alcohol  
Concen: 2.34 ug/l  
RT: 3.07 min Scan# 408  
Delta R.T. -0.01 min  
Lab File: VX001873.D  
Acq: 21 May 2018 13:17

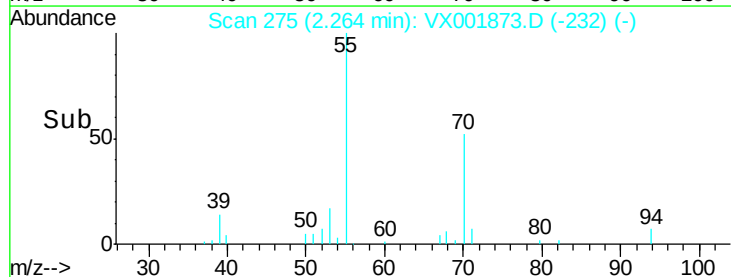
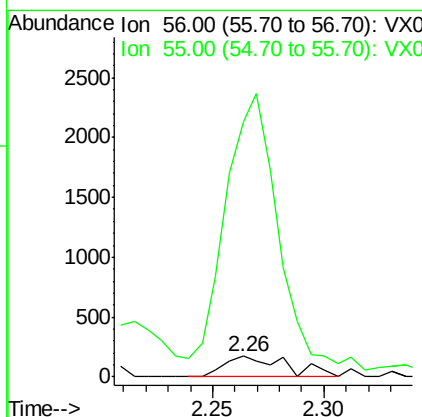
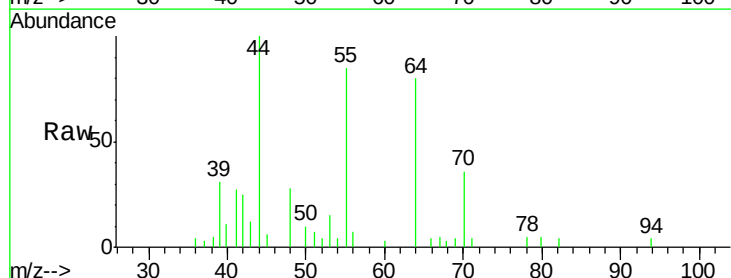
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY074MW067-180507RE

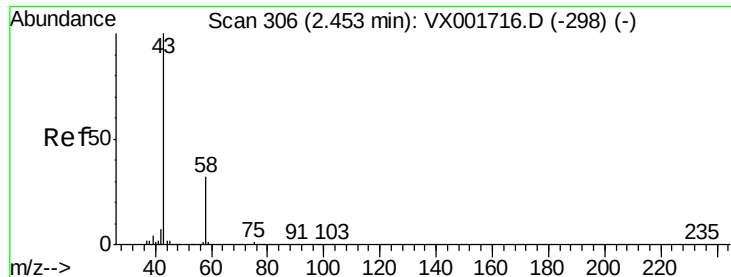
Tgt Ion: 59 Resp: 1614  
Ion Ratio Lower Upper  
59 100  
57 12.8 8.5 12.7#



#13  
Acrolein  
Concen: 0.69 ug/l  
RT: 2.26 min Scan# 275  
Delta R.T. -0.04 min  
Lab File: VX001873.D  
Acq: 21 May 2018 13:17

Tgt Ion: 56 Resp: 340  
Ion Ratio Lower Upper  
56 100  
55 1097.4 56.2 84.2#





#16

Acetone

Concen: 1.35 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

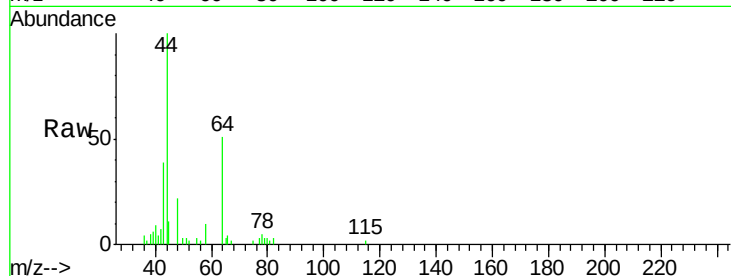
KY074MW067-180507RE

Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

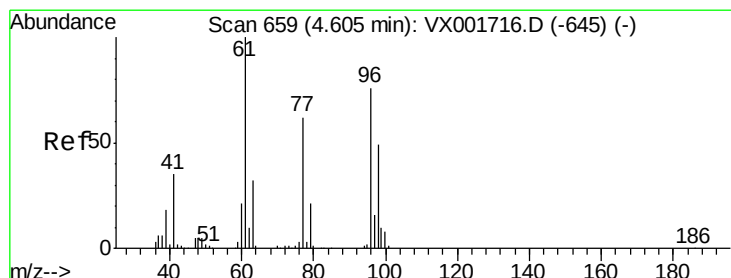
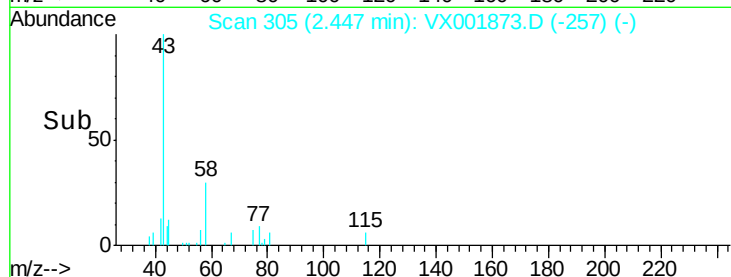
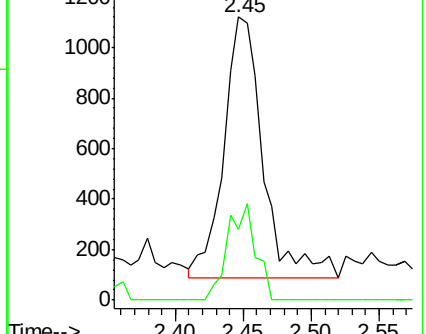
43 100

58 27.2 25.3 37.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 1.70 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

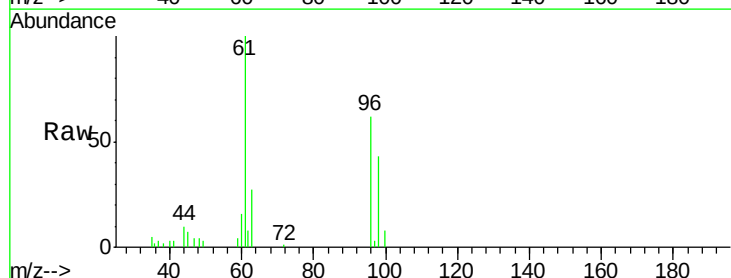
Tgt Ion: 96 Resp: 6124

Ion Ratio Lower Upper

96 100

61 183.9 0.0 280.4

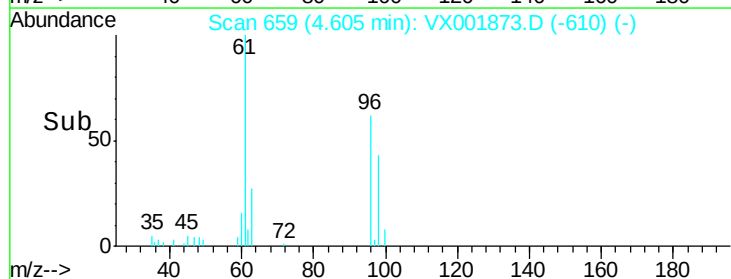
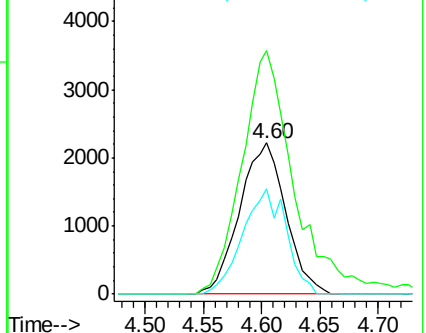
98 65.9 0.0 128.4

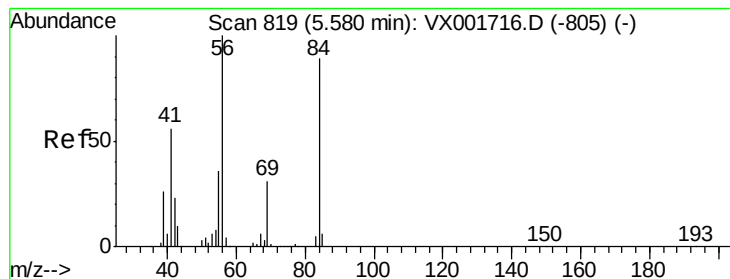


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

KY074MW067-180507RE

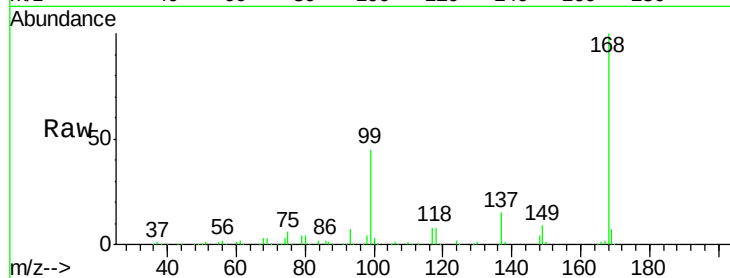
Tgt Ion: 56 Resp: 4448

Ion Ratio Lower Upper

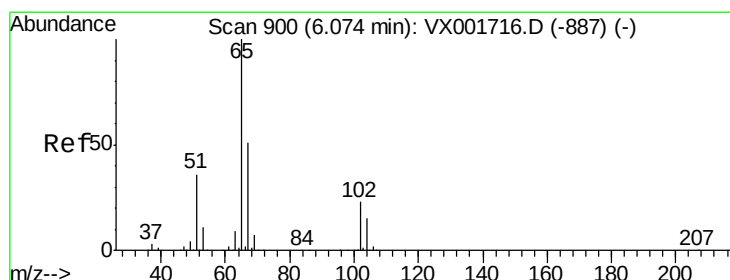
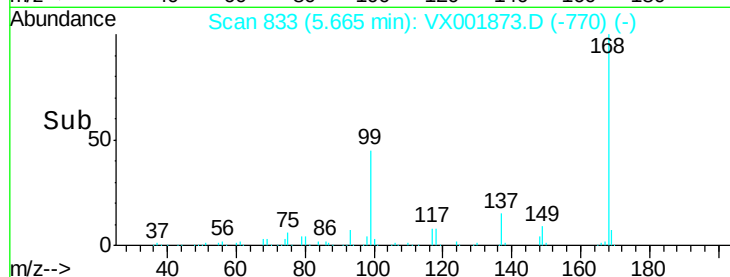
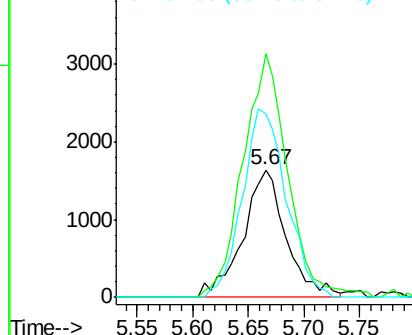
56 100

69 190.7 25.0 37.6#

84 144.1 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: 47.07 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001873.D

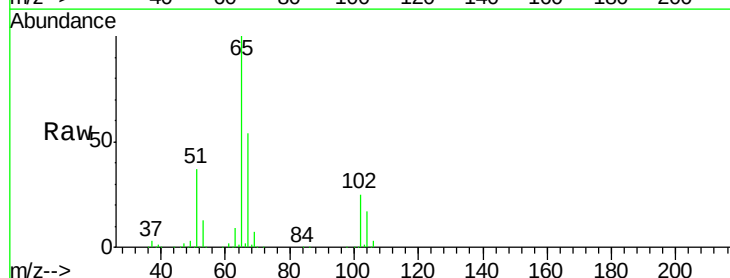
Acq: 21 May 2018 13:17

Tgt Ion: 65 Resp: 183068

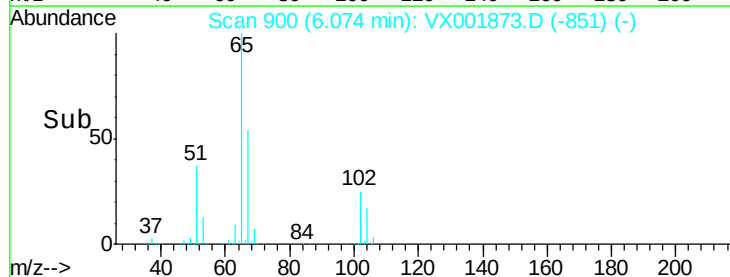
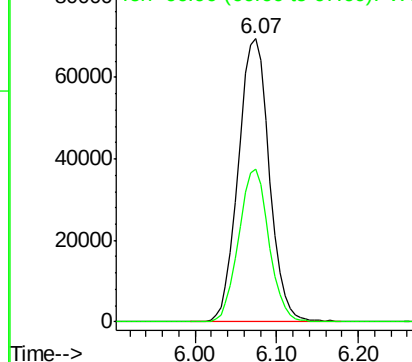
Ion Ratio Lower Upper

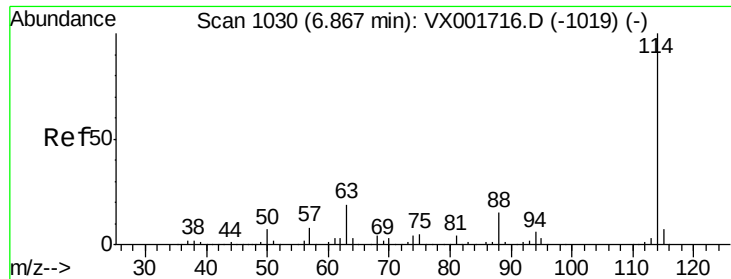
65 100

67 52.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

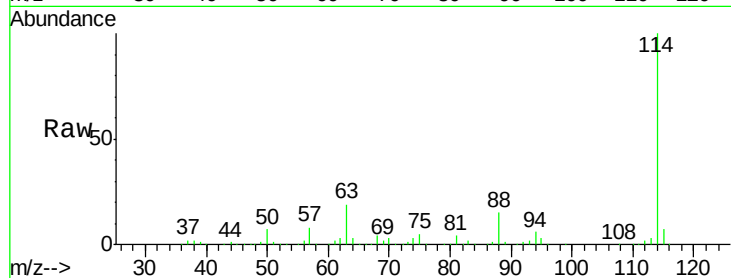




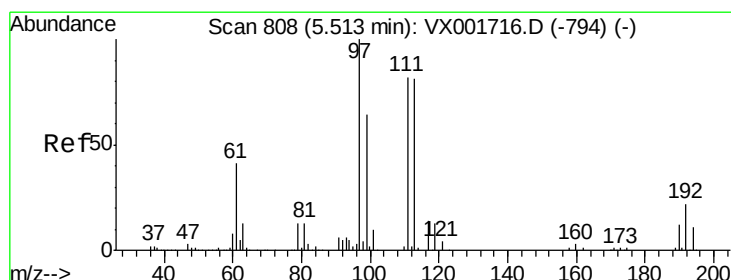
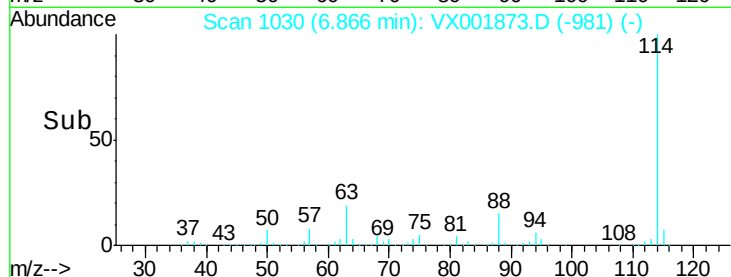
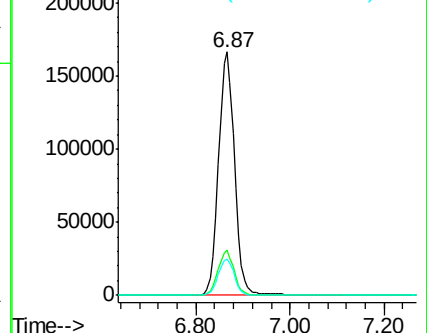
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX001873.D  
 Acq: 21 May 2018 13:17

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY074MW067-180507RE

Tgt Ion:114 Resp: 393287  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 37.0  
 88 14.7 0.0 29.8

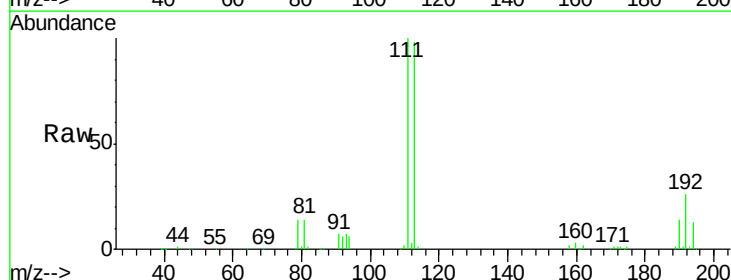


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

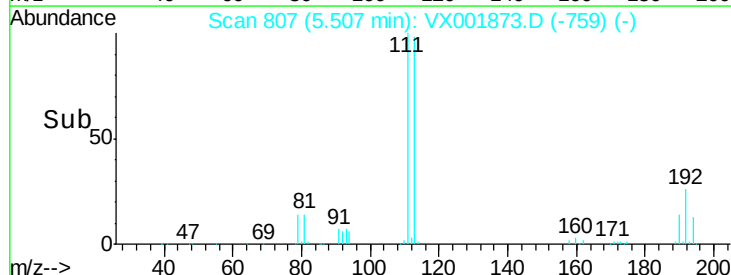
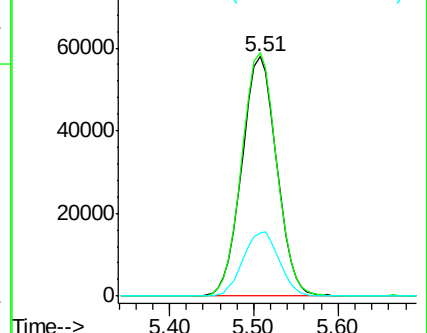


#35  
 Dibromofluoromethane  
 Concen: 48.89 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. -0.01 min  
 Lab File: VX001873.D  
 Acq: 21 May 2018 13:17

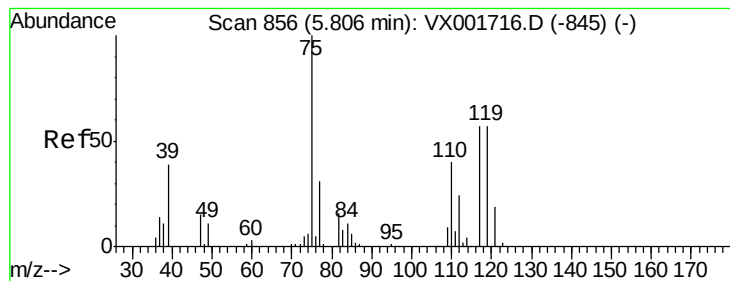
Tgt Ion:113 Resp: 162249  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 82.0 123.0  
 192 27.5 21.6 32.4



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: 3.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

KY074MW067-180507RE

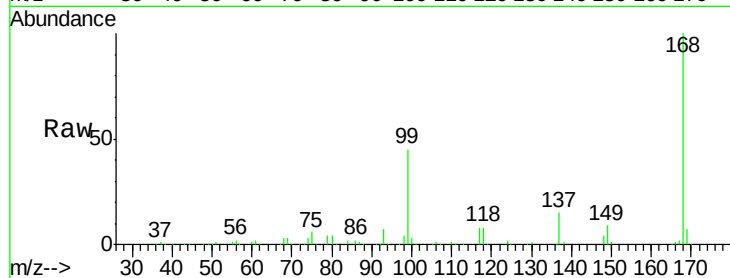
Tgt Ion: 75 Resp: 16531

Ion Ratio Lower Upper

75 100

110 10.1 19.1 57.1#

77 0.0 24.6 37.0#

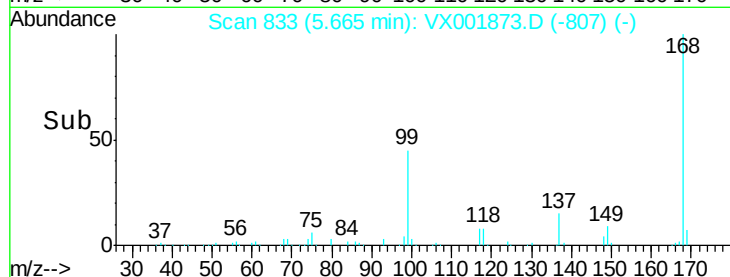


Abundance Ion 74.90 (74.60 to 75.60): VX001716.D (-845) (-)

Ion 109.90 (109.60 to 110.60): VX001716.D (-845) (-)

Ion 76.90 (76.60 to 77.60): VX001716.D (-845) (-)

Time-->

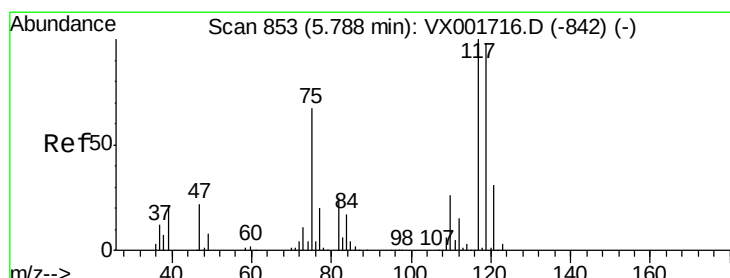


Abundance Ion 74.90 (74.60 to 75.60): VX001716.D (-845) (-)

Ion 109.90 (109.60 to 110.60): VX001716.D (-845) (-)

Ion 76.90 (76.60 to 77.60): VX001716.D (-845) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.95 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.13 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

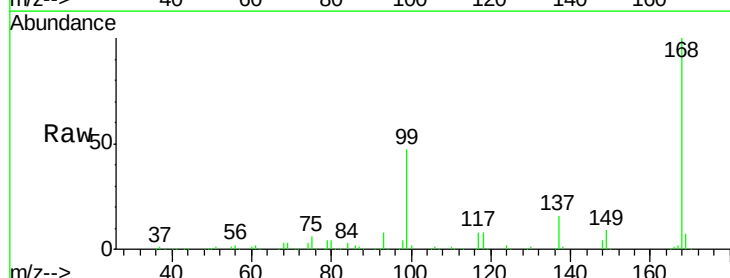
Tgt Ion: 117 Resp: 23490

Ion Ratio Lower Upper

117 100

119 4.5 77.6 116.4#

121 0.0 24.6 36.8#

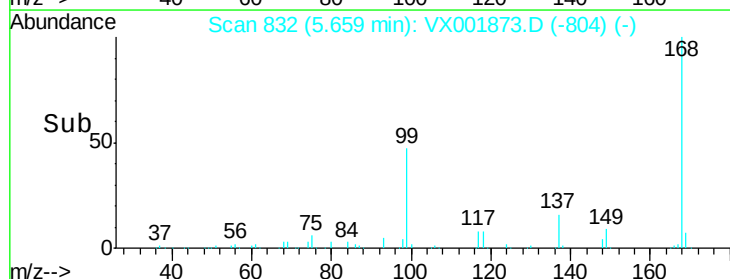


Abundance Ion 116.80 (116.50 to 117.50): VX001716.D (-842) (-)

Ion 118.80 (118.50 to 119.50): VX001716.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX001716.D (-842) (-)

Time-->

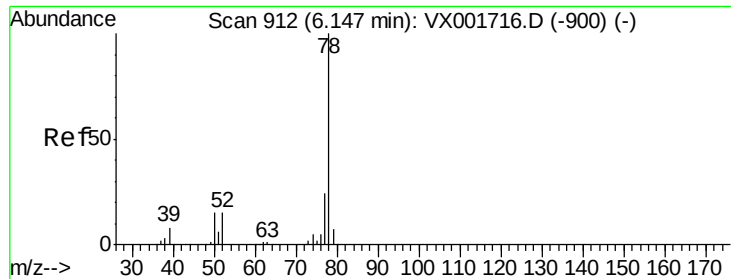


Abundance Ion 116.80 (116.50 to 117.50): VX001716.D (-842) (-)

Ion 118.80 (118.50 to 119.50): VX001716.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX001716.D (-842) (-)

Time-->



#40

Benzene

Concen: 0.69 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

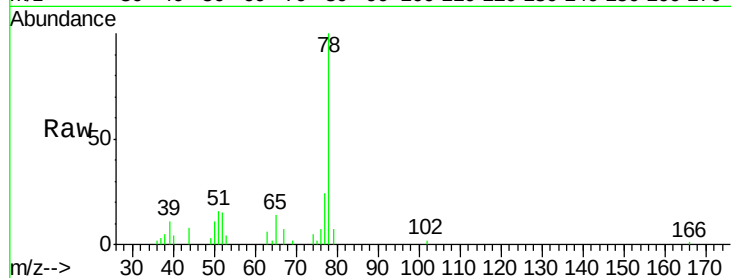
KY074MW067-180507RE

Tgt Ion: 78 Resp: 9198

Ion Ratio Lower Upper

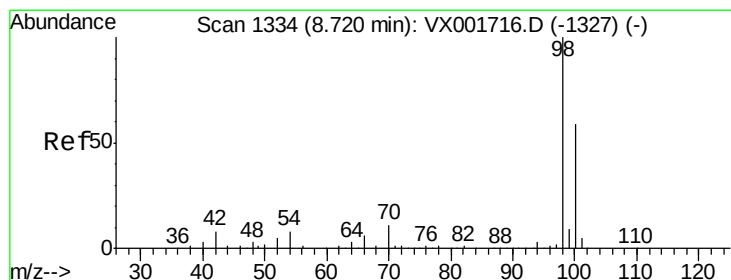
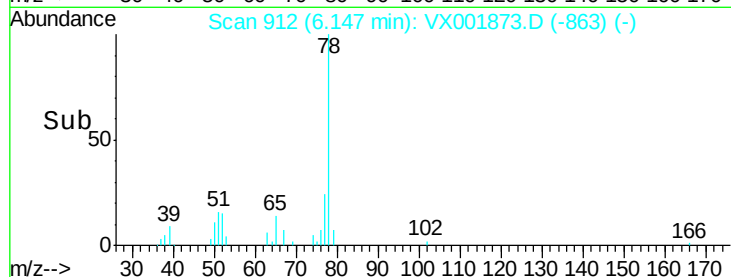
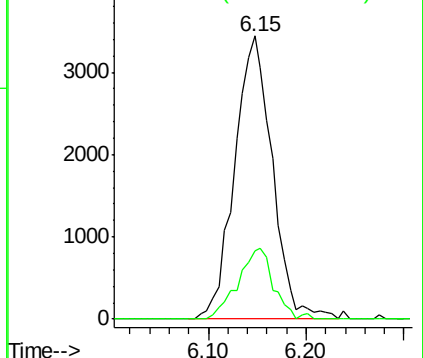
78 100

77 23.9 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 49.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001873.D

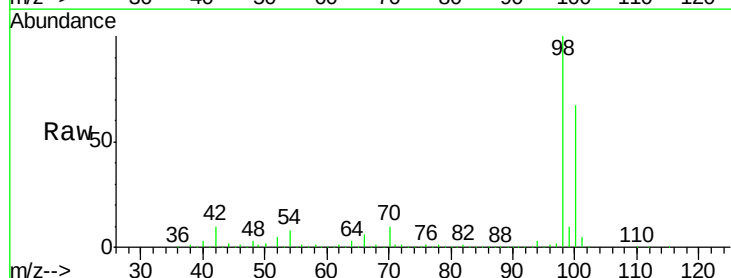
Acq: 21 May 2018 13:17

Tgt Ion: 98 Resp: 584825

Ion Ratio Lower Upper

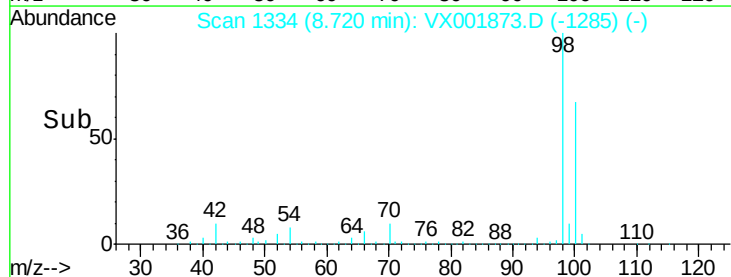
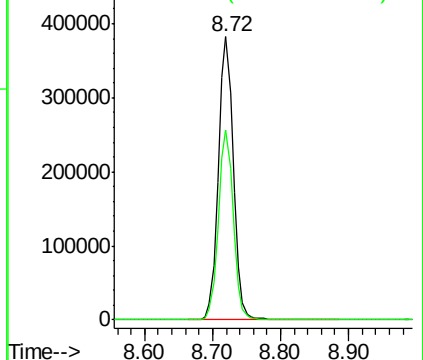
98 100

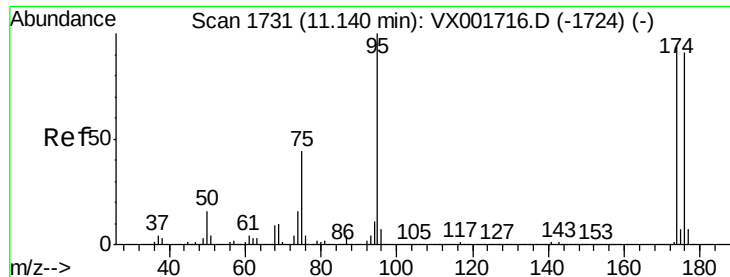
100 66.5 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

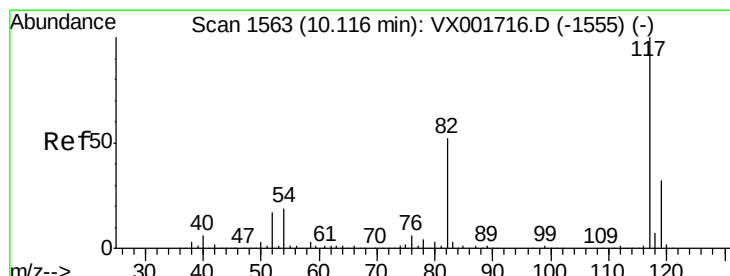
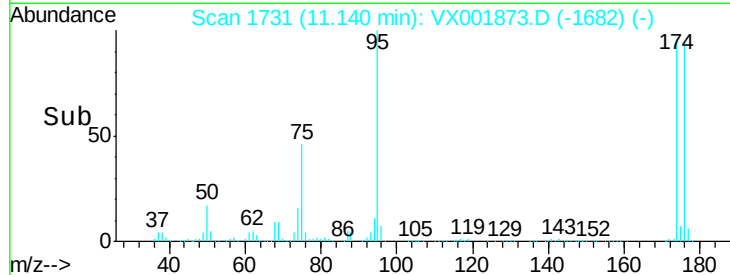
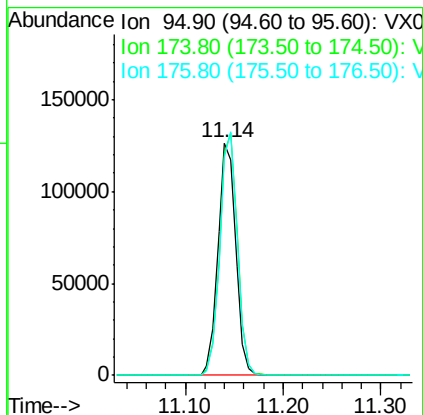
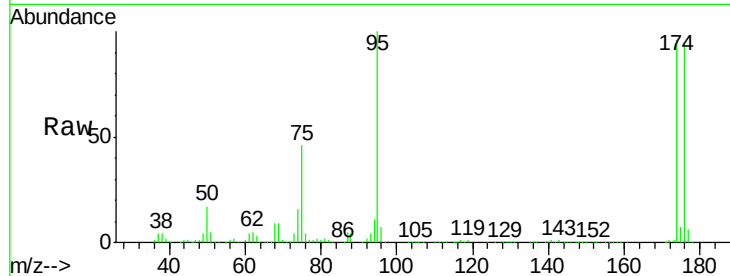




#62  
4-Bromofluorobenzene  
Concen: 37.22 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX001873.D  
Acq: 21 May 2018 13:17

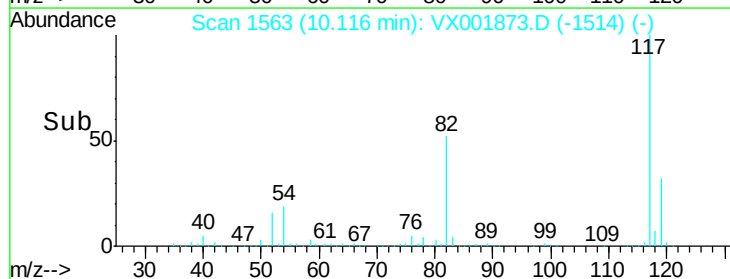
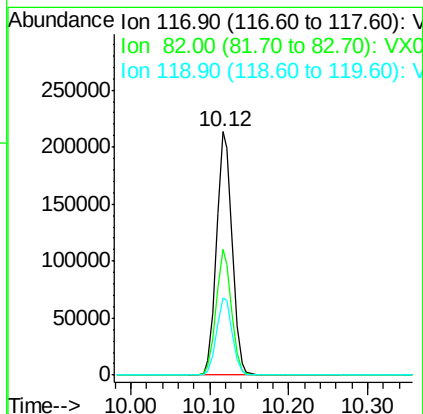
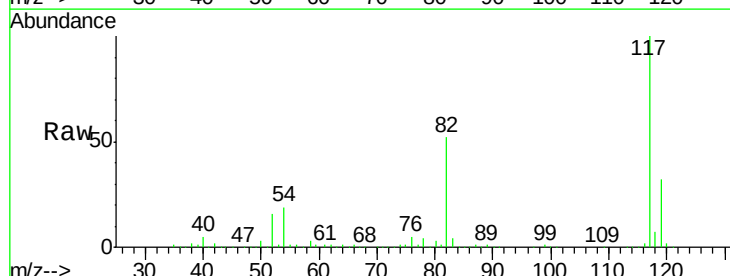
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY074MW067-180507RE

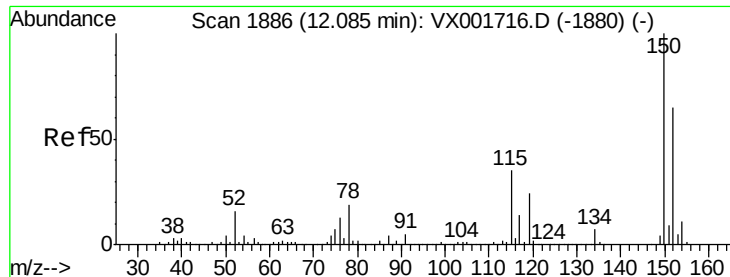
Tgt Ion: 95 Resp: 159318  
Ion Ratio Lower Upper  
95 100  
174 104.4 0.0 201.8  
176 101.8 0.0 196.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX001873.D  
Acq: 21 May 2018 13:17

Tgt Ion: 117 Resp: 294715  
Ion Ratio Lower Upper  
117 100  
82 51.5 41.4 62.2  
119 31.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

KY074MW067-180507RE

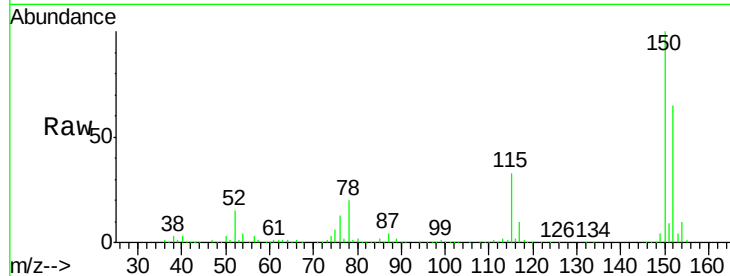
Tgt Ion:152 Resp: 159293

Ion Ratio Lower Upper

152 100

115 51.1 37.4 112.2

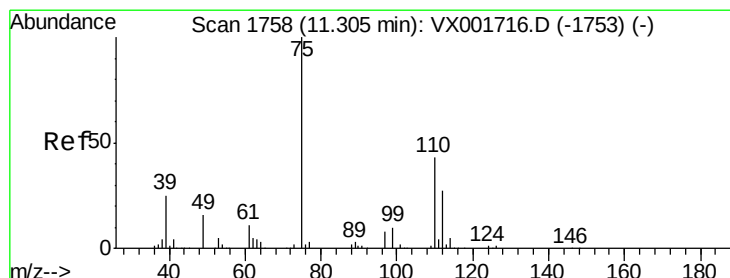
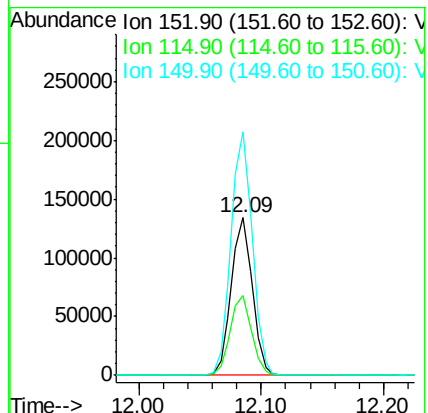
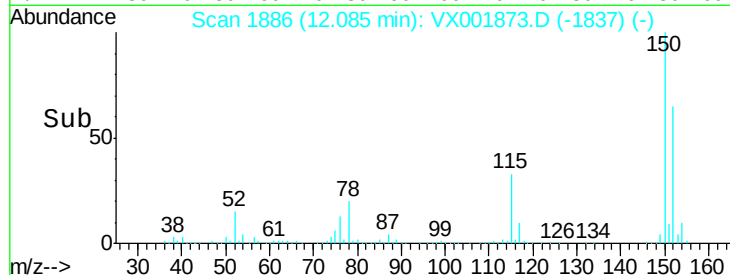
150 155.9 0.0 344.8



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: 24.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001873.D

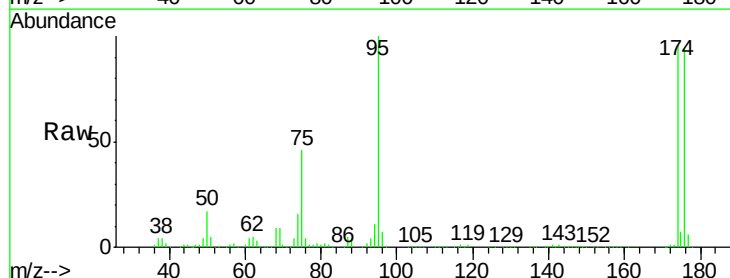
Acq: 21 May 2018 13:17

Tgt Ion: 75 Resp: 74149

Ion Ratio Lower Upper

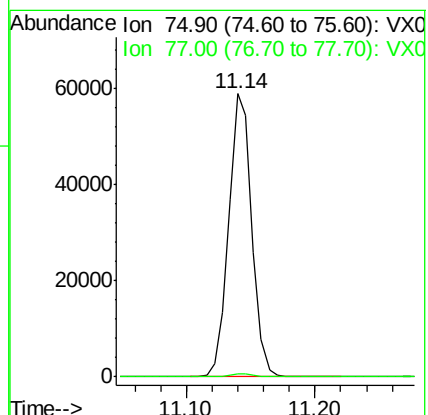
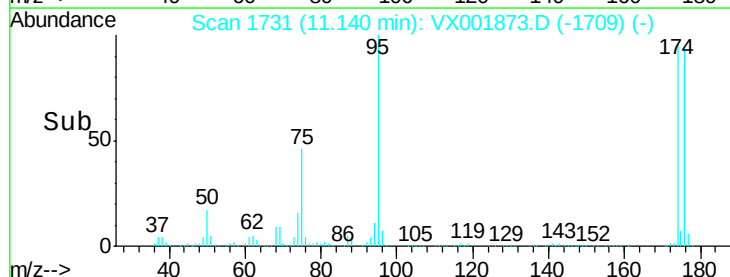
75 100

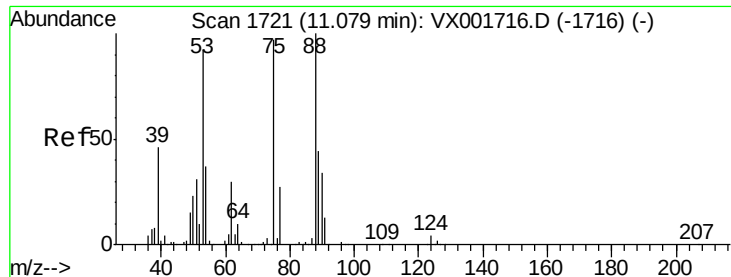
77 1.4 18.9 56.7#



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: 71.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001873.D

Acq: 21 May 2018 13:17

Instrument :

MSVOA\_X

ClientSampleId :

KY074MW067-180507RE

Tgt Ion: 75 Resp: 74149

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.2#

89 0.0 38.8 58.2#

