

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052118\  
 Data File : VX001878.D  
 Acq On : 21 May 2018 15:31  
 Operator : JC/MD  
 Sample : J2986-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS040MW320-180514

Quant Time: May 22 02:19:15 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  | 280784   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 372922   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 280970   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 147562   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 181554   | 48.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.48%  |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 165229   | 52.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.00% |          |
| 50) Toluene-d8              | 8.72  | 98   | 531467   | 47.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.30%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 161481   | 39.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.58%  |          |

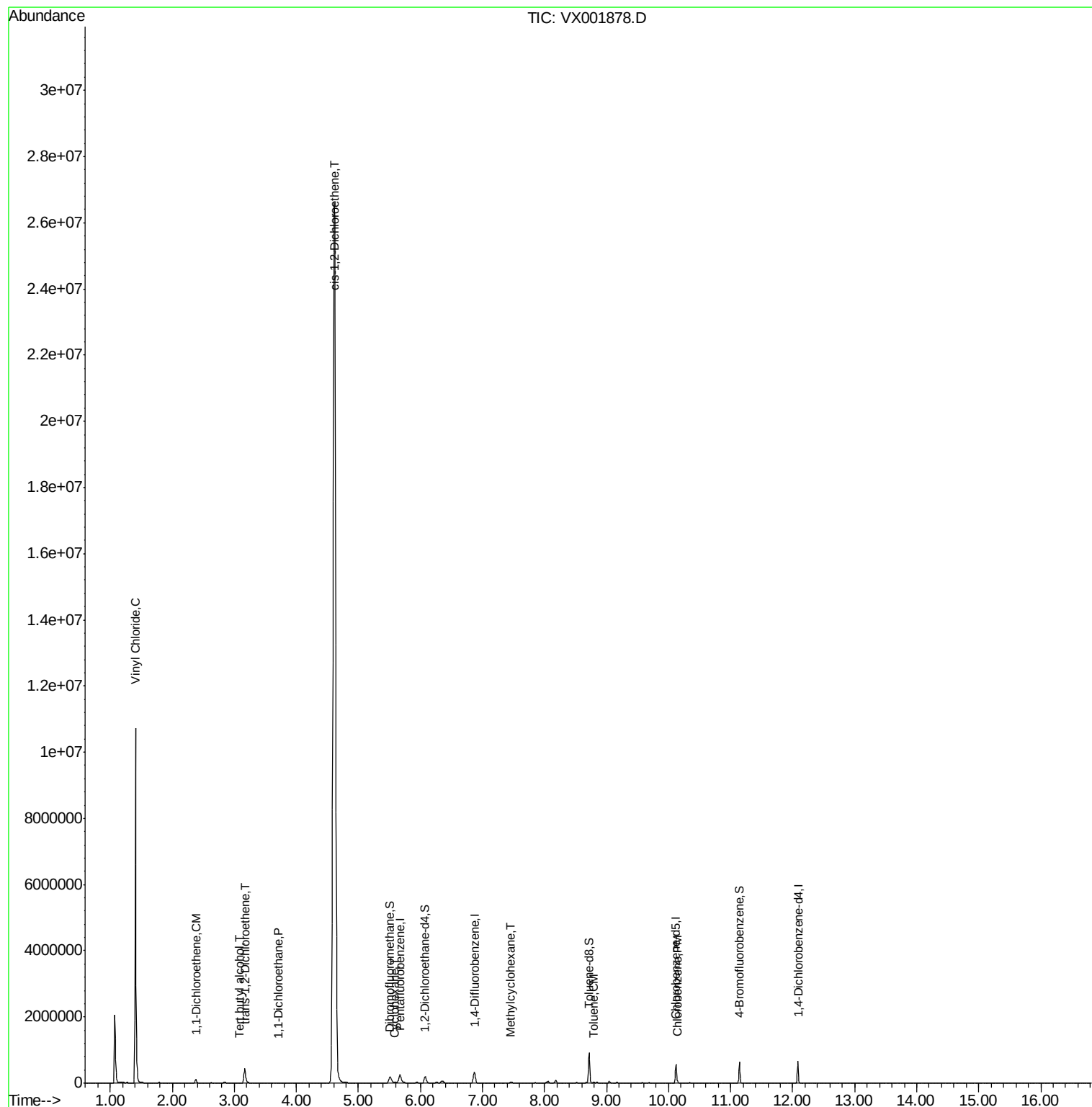
| Target Compounds             | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|------------------------------|-------|------|----------|----------|--------|--------|
| 4) Vinyl Chloride            | 1.40  | 62   | 7326647  | 2226.475 | ug/l   | 91     |
| 11) Tert butyl alcohol       | 3.09  | 59   | 4273     | 6.395    | ug/l # | 91     |
| 12) 1,1-Dichloroethene       | 2.38  | 96   | 38647    | 13.926   | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene | 3.17  | 96   | 204345   | 66.840   | ug/l   | 99     |
| 24) 1,1-Dichloroethane       | 3.70  | 63   | 2792     | 0.517    | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene   | 4.61  | 96   | 19638907 | 5645.118 | ug/l   | 84     |
| 31) Cyclohexane              | 5.58  | 56   | 17349    | 3.667    | ug/l   | 98     |
| 39) Methylcyclohexane        | 7.46  | 83   | 15351    | 3.061    | ug/l   | 88     |
| 52) Toluene                  | 8.79  | 92   | 8284     | 1.019    | ug/l   | 97     |
| 65) Chlorobenzene            | 10.15 | 112  | 27020    | 3.496    | ug/l   | 97     |

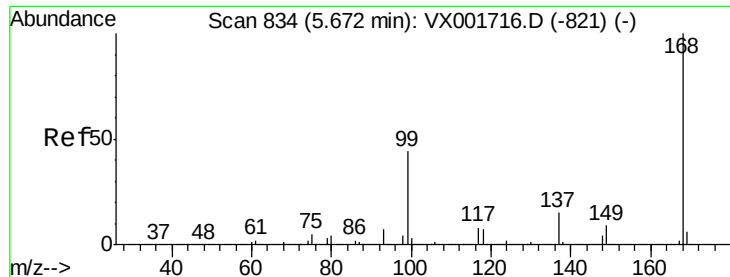
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 15 01:36:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

Instrument :

MSVOA\_X

ClientSampleId :

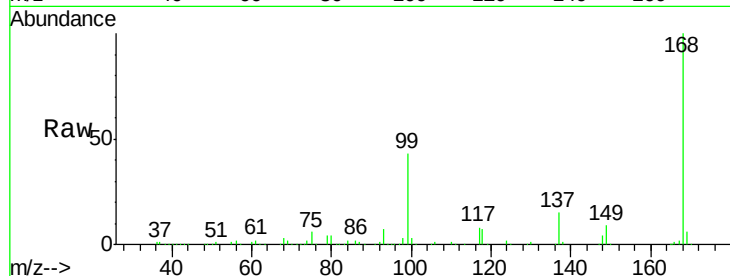
SS040MW320-180514

Tot Ion:168 Resp: 280784

Ion Ratio Lower Upper

168 100

99 42.8 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

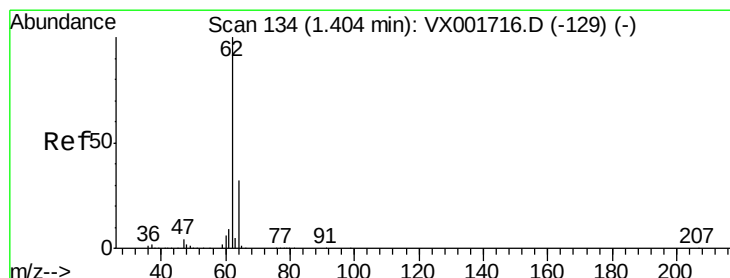
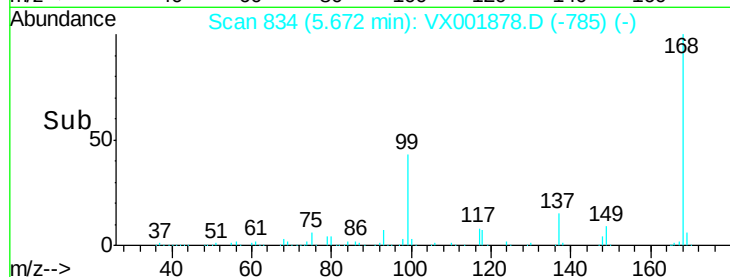
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 2226.475 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001878.D

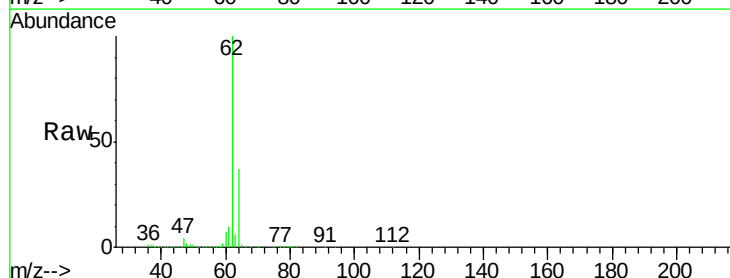
Acq: 21 May 2018 15:31

Tgt Ion: 62 Resp: 7326647

Ion Ratio Lower Upper

62 100

64 37.0 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

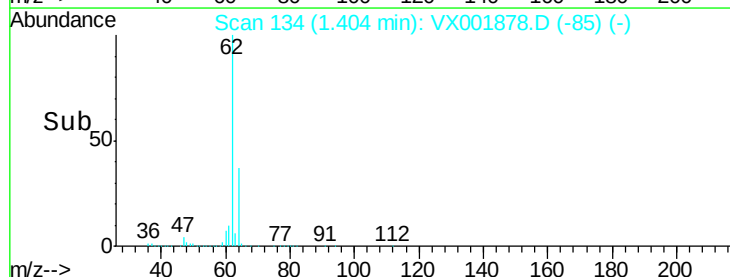
6000000

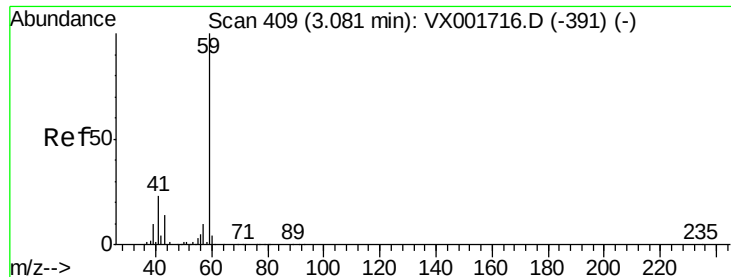
4000000

2000000

0

Time--> 1.30 1.40 1.50 1.60

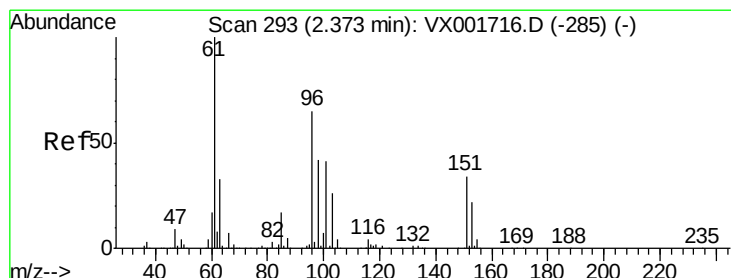
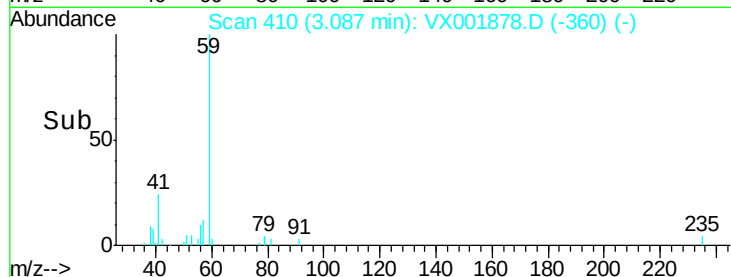
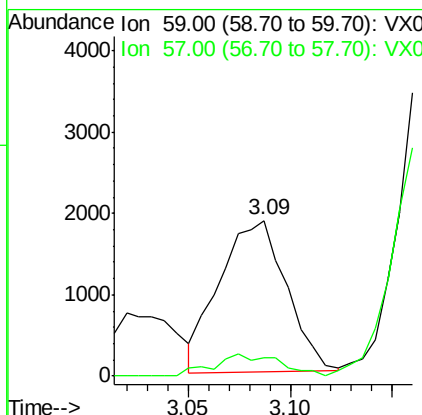
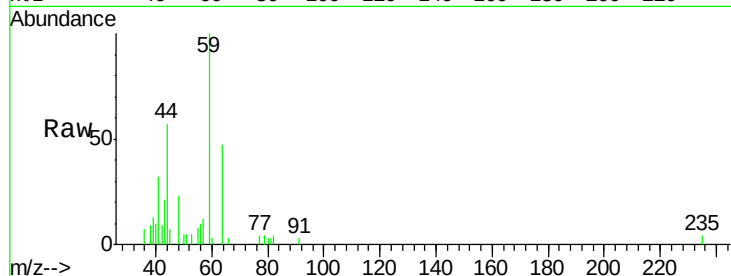




#11  
Tert butyl alcohol  
Concen: 6.395 ug/l  
RT: 3.09 min Scan# 410  
Delta R.T. 0.01 min  
Lab File: VX001878.D  
Acq: 21 May 2018 15:31

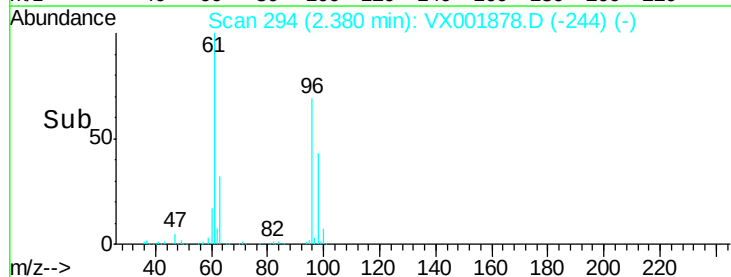
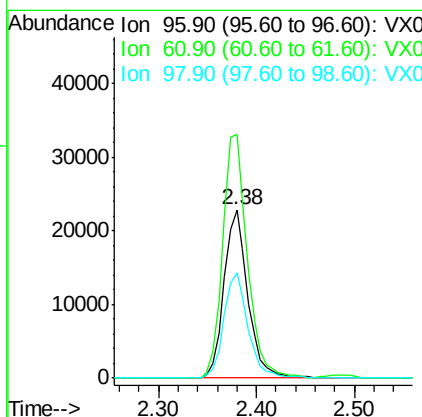
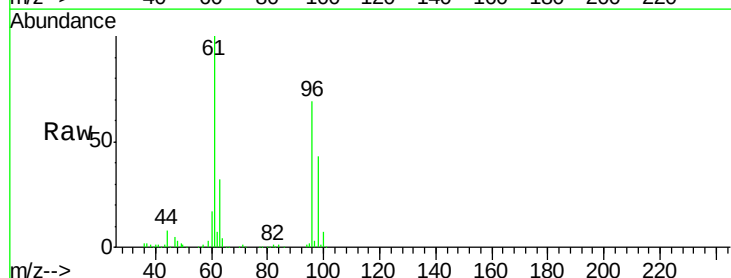
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS040MW320-180514

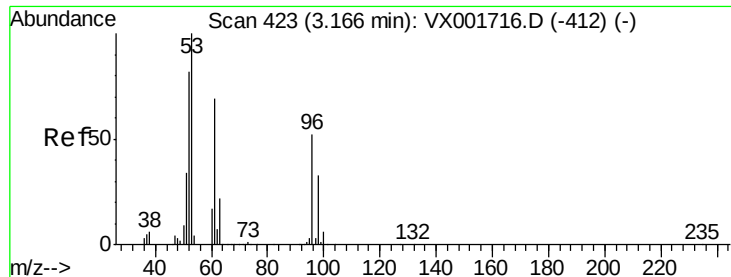
Tot Ion: 59 Resp: 4273  
Ion Ratio Lower Upper  
59 100  
57 14.1 8.5 12.7#



#12  
1,1-Dichloroethene  
Concen: 13.926 ug/l  
RT: 2.38 min Scan# 294  
Delta R.T. 0.01 min  
Lab File: VX001878.D  
Acq: 21 May 2018 15:31

Tgt Ion: 96 Resp: 38647  
Ion Ratio Lower Upper  
96 100  
61 144.9 122.2 183.2  
98 62.6 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 66.840 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

Instrument :

MSVOA\_X

ClientSampleId :

SS040MW320-180514

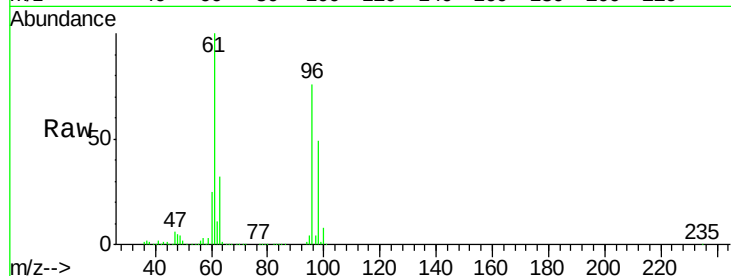
Tot Ion: 96 Resp: 204345

Ion Ratio Lower Upper

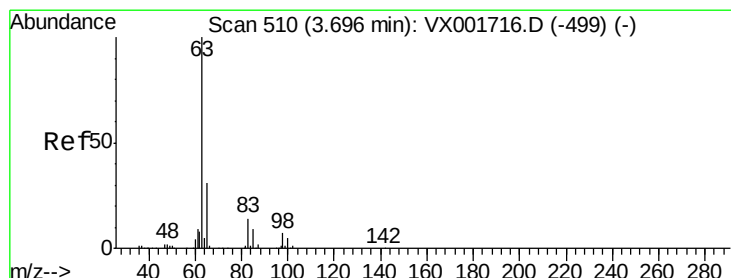
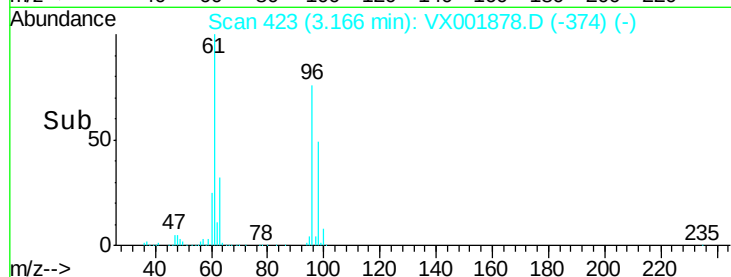
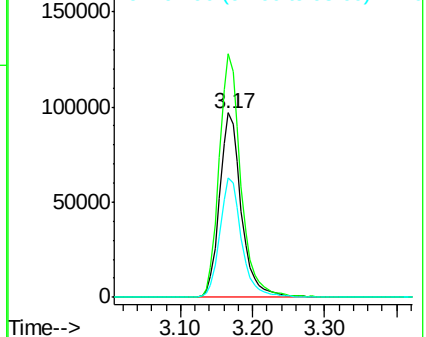
96 100

61 132.0 105.8 158.8

98 64.9 50.2 75.4



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



#24

1,1-Dichloroethane

Concen: 0.517 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

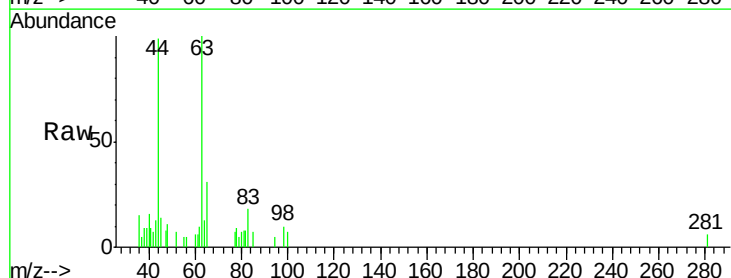
Tgt Ion: 63 Resp: 2792

Ion Ratio Lower Upper

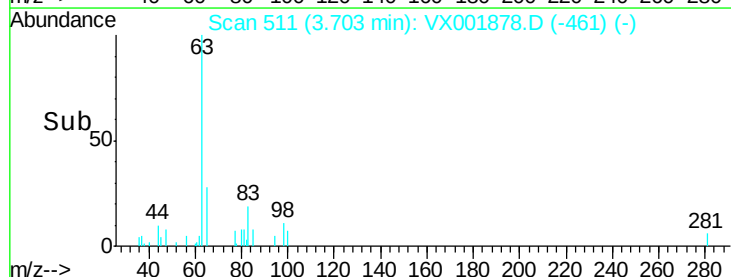
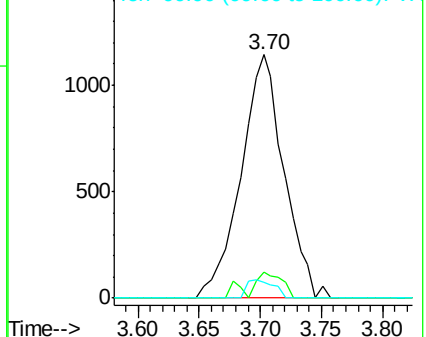
63 100

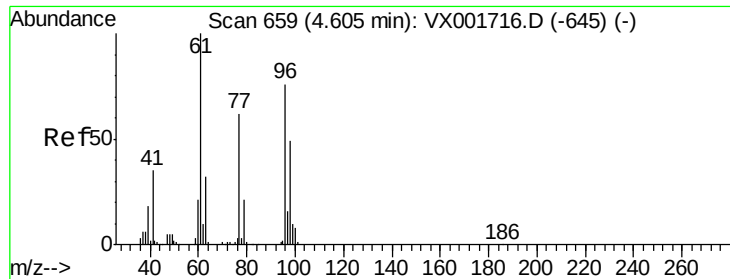
98 10.5 3.7 11.1

100 6.7 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0  
Ion 99.90 (99.60 to 100.60): VX0





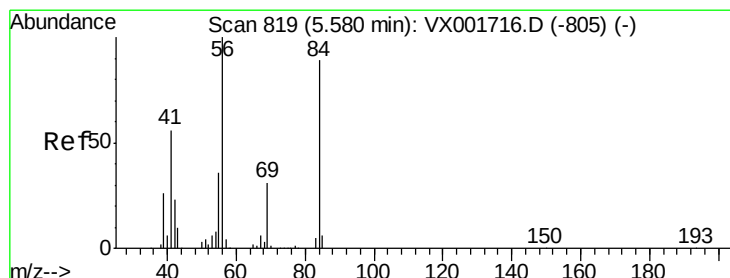
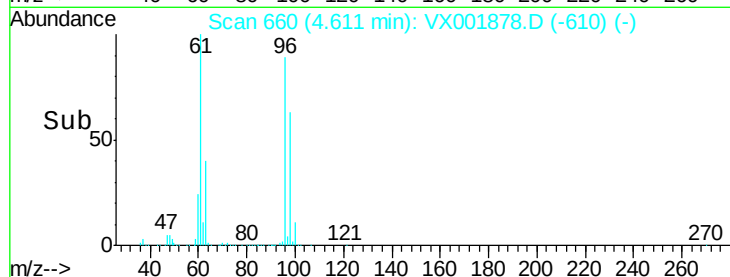
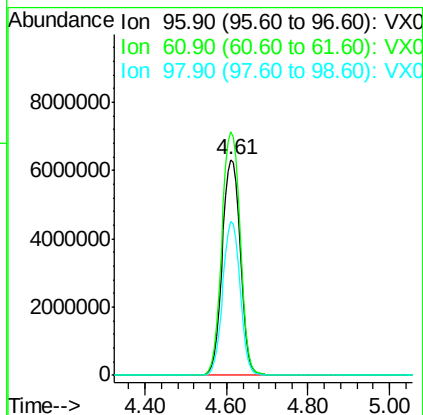
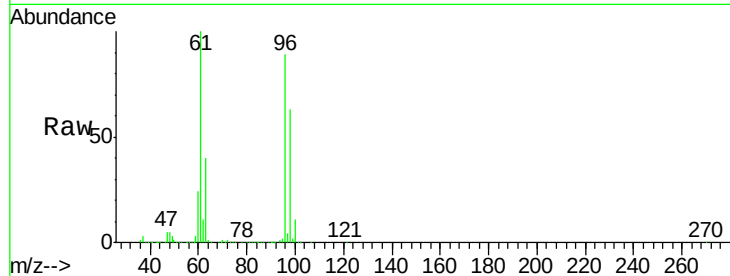
#27

cis-1,2-Dichloroethene  
 Concen: 5645.118 ug/l  
 RT: 4.61 min Scan# 660  
 Delta R.T. 0.01 min  
 Lab File: VX001878.D  
 Acq: 21 May 2018 15:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS040MW320-180514

Tot Ion: 96 Resp:19638907  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 114.8 | 0.0   | 280.4 |
| 98  | 68.6  | 0.0   | 128.4 |

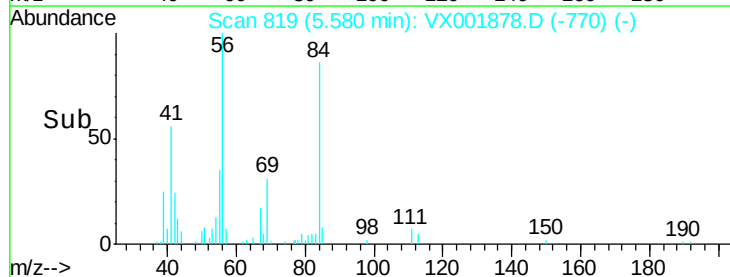
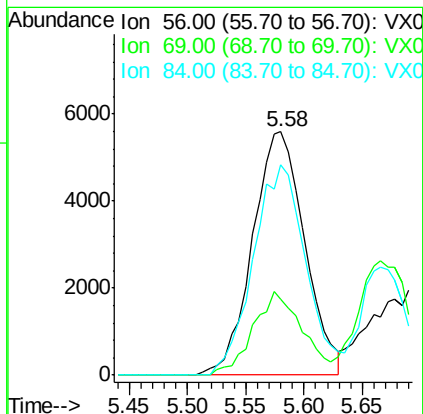
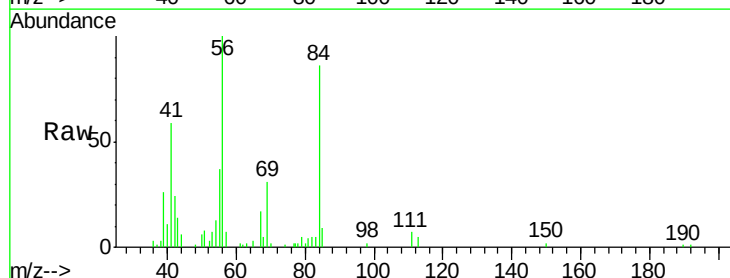


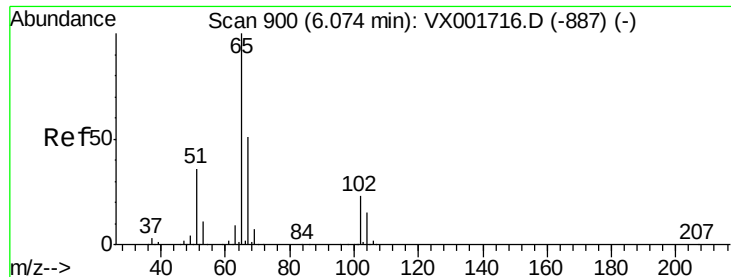
#31

Cyclohexane  
 Concen: 3.667 ug/l  
 RT: 5.58 min Scan# 819  
 Delta R.T. 0.00 min  
 Lab File: VX001878.D  
 Acq: 21 May 2018 15:31

Tgt Ion: 56 Resp: 17349  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 31.4  | 25.0  | 37.6  |
| 84  | 86.2  | 71.0  | 106.4 |

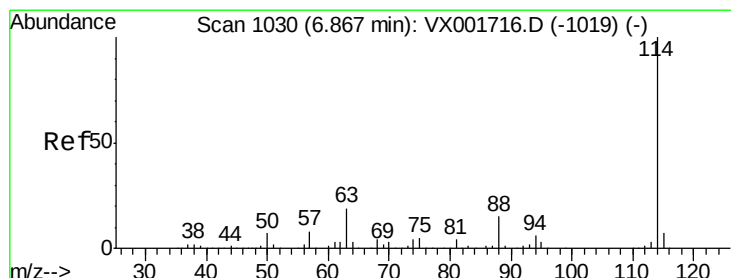
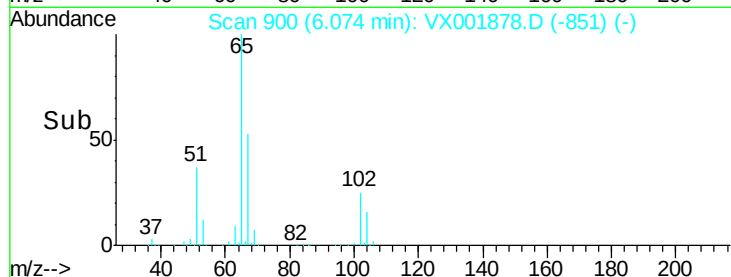
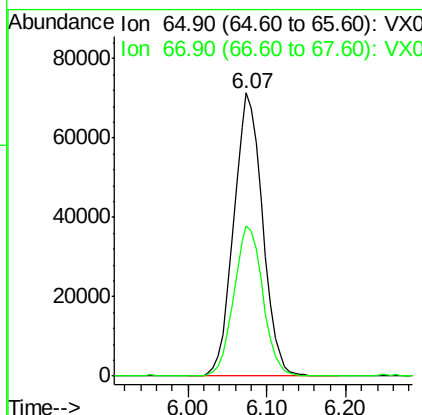
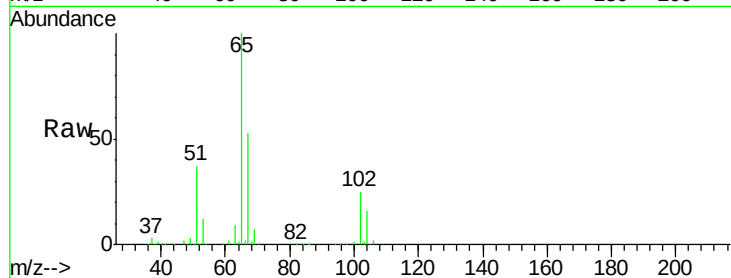




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.240 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX001878.D  
 Acq: 21 May 2018 15:31

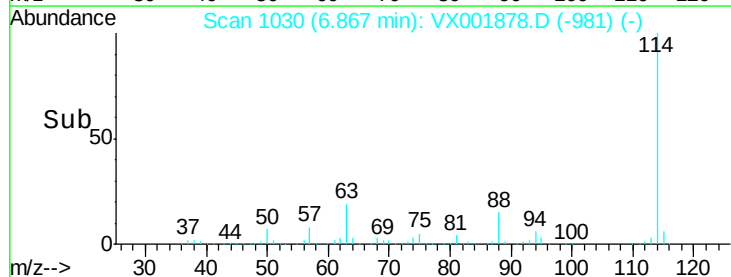
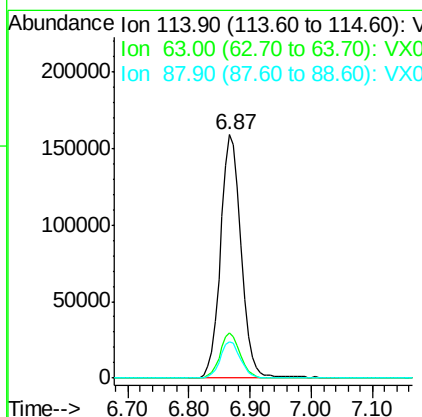
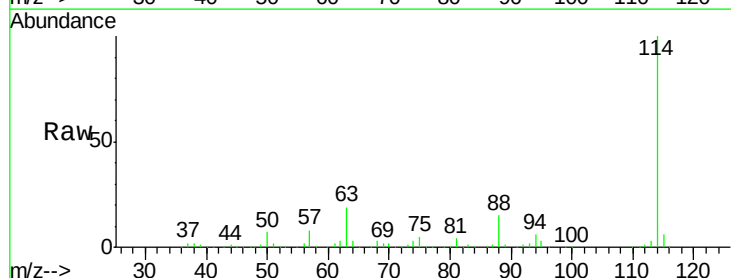
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS040MW320-180514

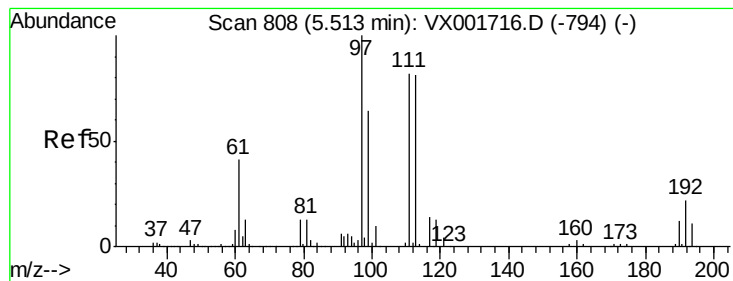
Tot Ion: 65 Resp: 181554  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 102.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX001878.D  
 Acq: 21 May 2018 15:31

Tgt Ion: 114 Resp: 372922  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 37.0  
 88 15.0 0.0 29.8





#35

Dibromofluoromethane

Concen: 52.502 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

Instrument :

MSVOA\_X

ClientSampleId :

SS040MW320-180514

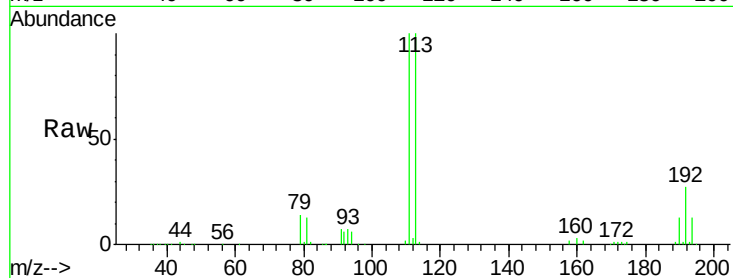
Tot Ion:113 Resp: 165229

Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

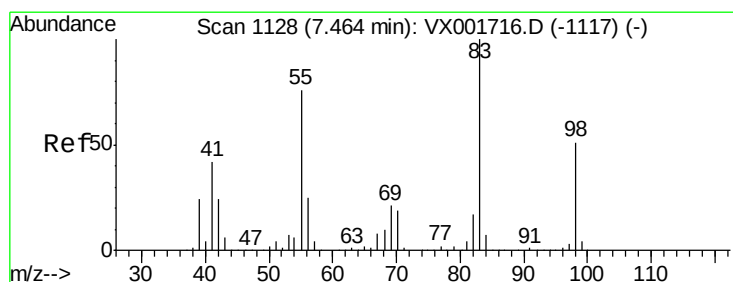
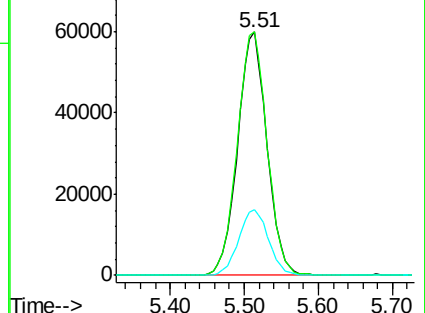
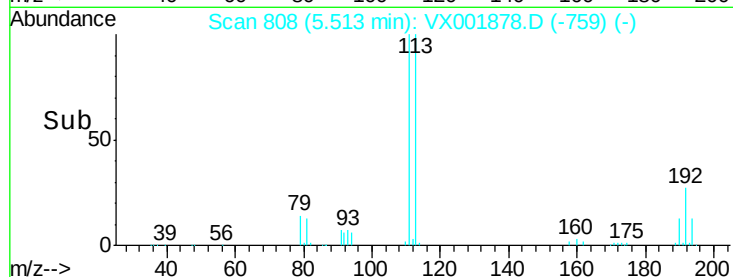
192 27.4 21.6 32.4



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



#39

Methylcyclohexane

Concen: 3.061 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

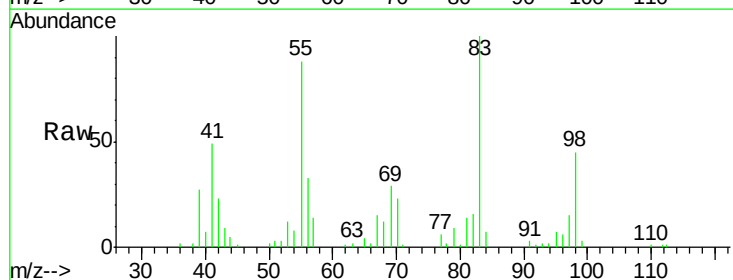
Tgt Ion: 83 Resp: 15351

Ion Ratio Lower Upper

83 100

55 87.9 60.6 90.8

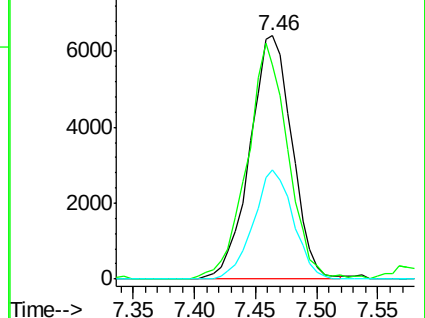
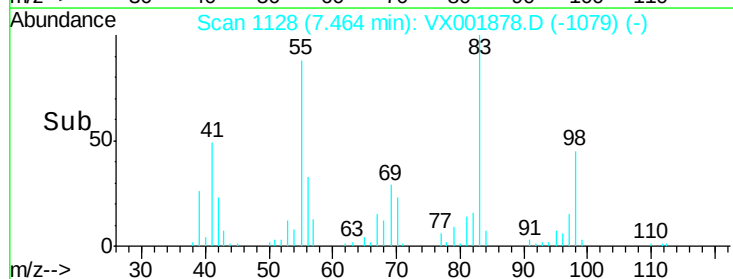
98 44.7 40.4 60.6



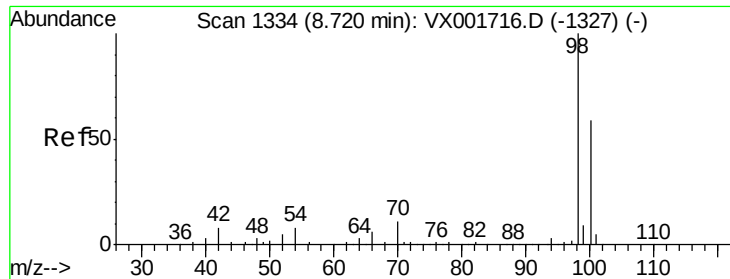
Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



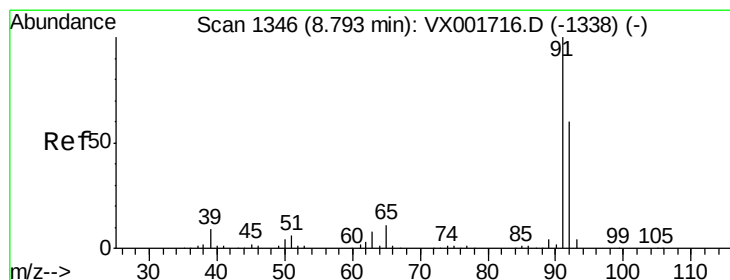
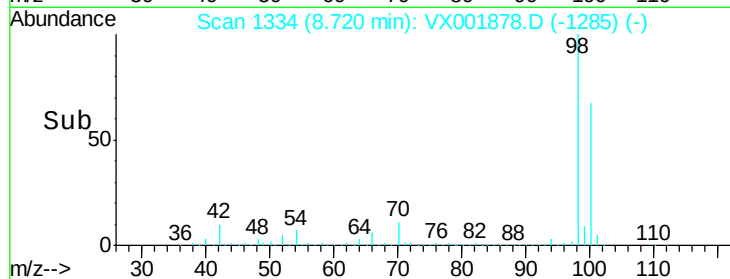
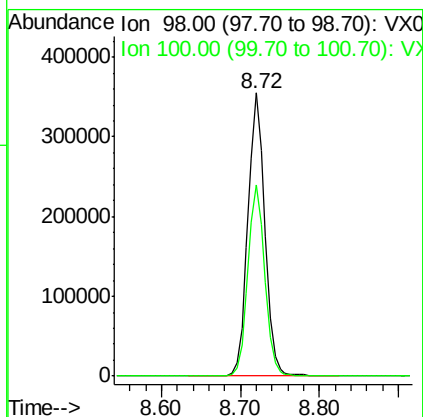
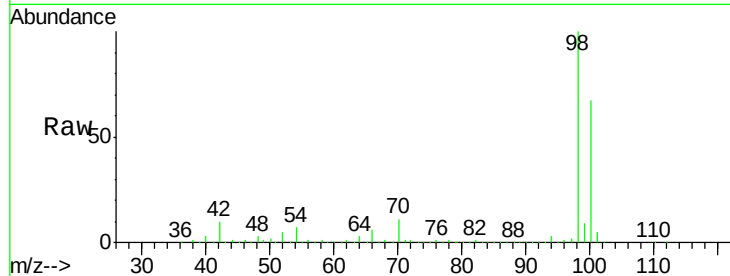




#50  
Toluene-d8  
Concen: 47.152 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX001878.D  
Acq: 21 May 2018 15:31

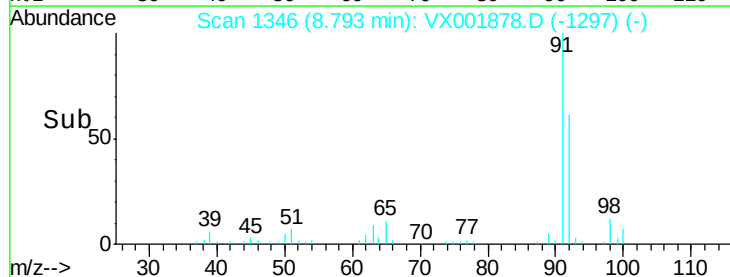
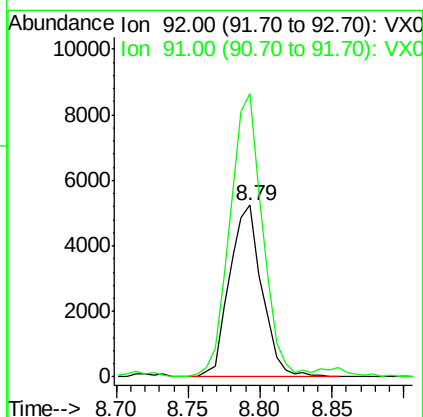
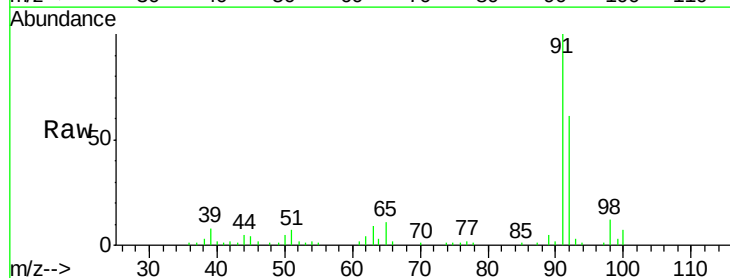
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS040MW320-180514

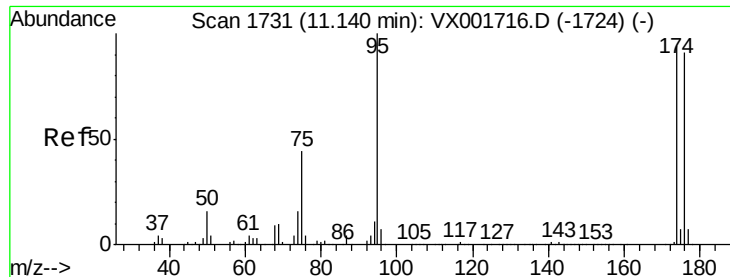
Tot Ion: 98 Resp: 531467  
Ion Ratio Lower Upper  
98 100  
100 67.1 54.0 81.0



#52  
Toluene  
Concen: 1.019 ug/l  
RT: 8.79 min Scan# 1346  
Delta R.T. 0.00 min  
Lab File: VX001878.D  
Acq: 21 May 2018 15:31

Tgt Ion: 92 Resp: 8284  
Ion Ratio Lower Upper  
92 100  
91 165.9 135.5 203.3





#62

4-Bromofluorobenzene

Concen: 39.790 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

Instrument :

MSVOA\_X

ClientSampleId :

SS040MW320-180514

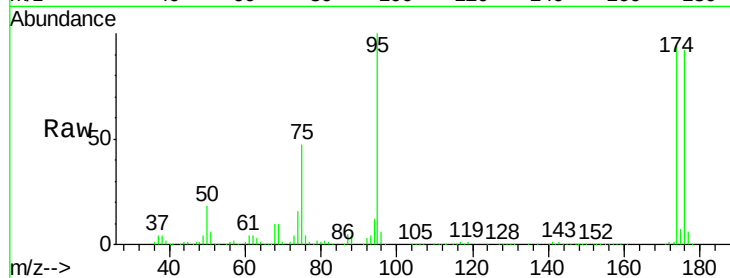
Tot Ion: 95 Resp: 161481

Ion Ratio Lower Upper

95 100

174 103.1 0.0 201.8

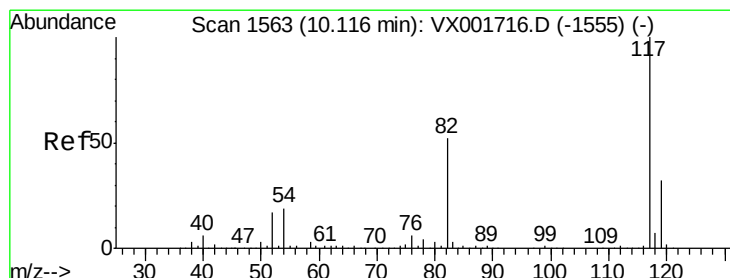
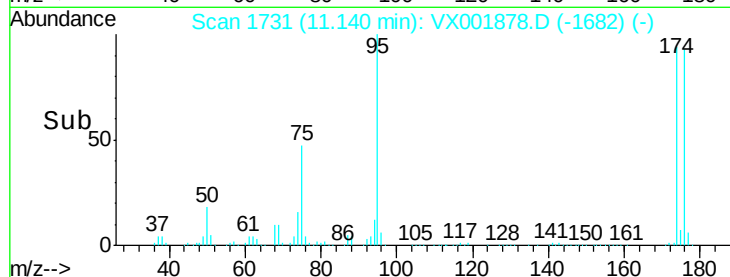
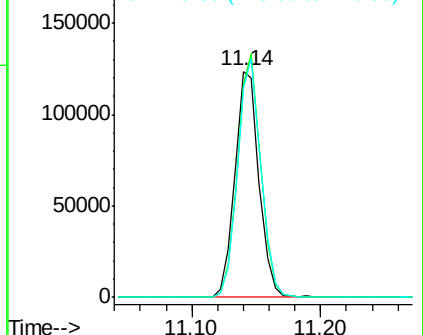
176 101.3 0.0 196.8



Abundance Ion 94.90 (94.60 to 95.60): VX001716.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX001716.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX001716.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

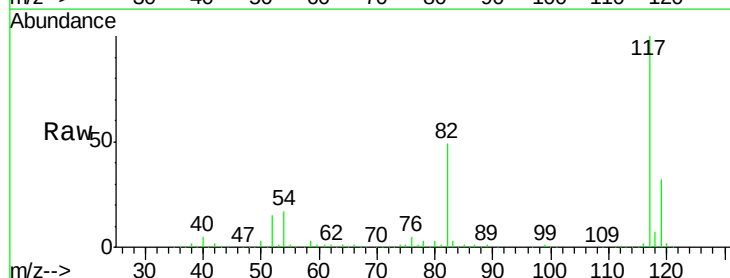
Tgt Ion: 117 Resp: 280970

Ion Ratio Lower Upper

117 100

82 49.0 41.4 62.2

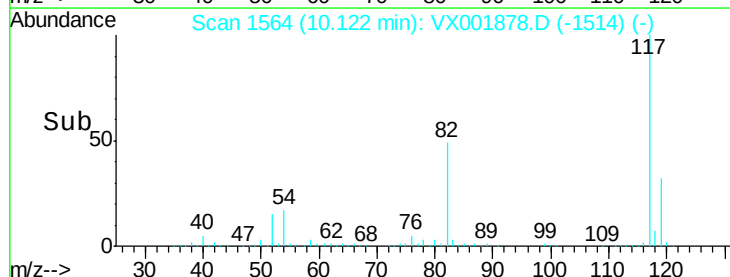
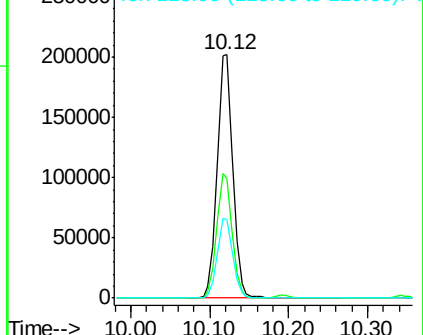
119 32.4 25.6 38.4

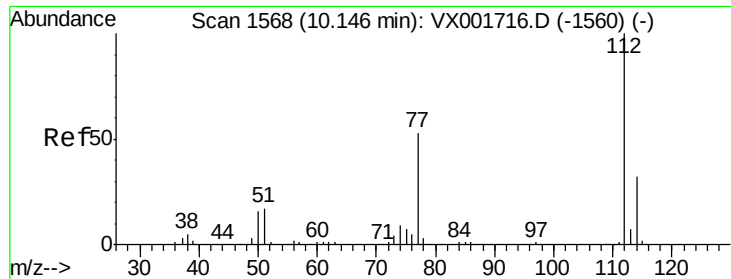


Abundance Ion 116.90 (116.60 to 117.60): VX001716.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX001716.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX001716.D (-1555) (-)





#65

Chlorobenzene

Concen: 3.496 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

Instrument :

MSVOA\_X

ClientSampleId :

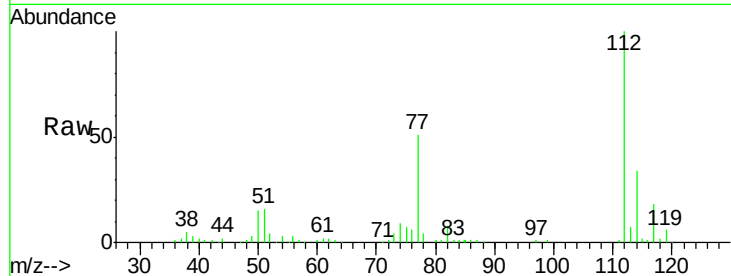
SS040MW320-180514

Tot Ion:112 Resp: 27020

Ion Ratio Lower Upper

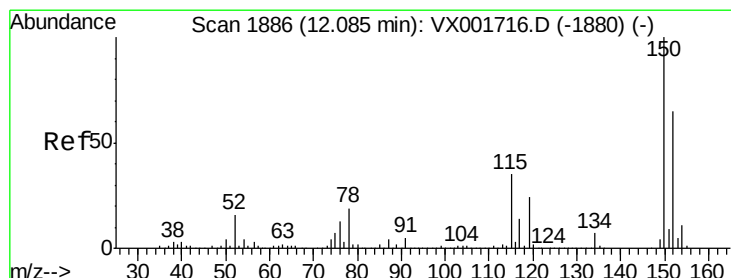
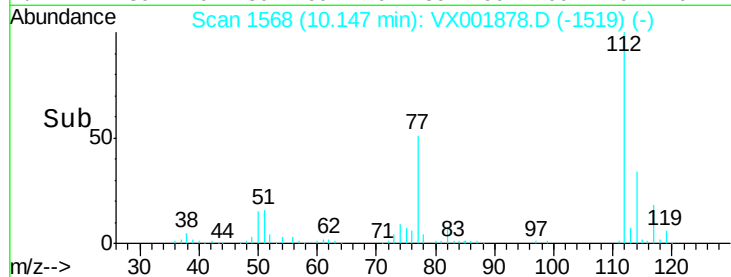
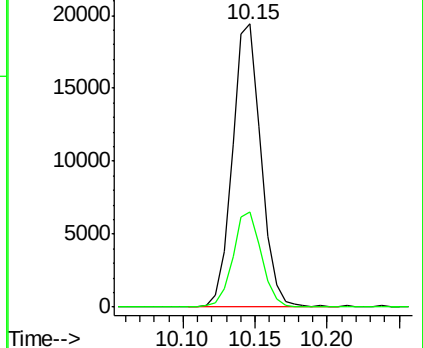
112 100

114 33.6 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001878.D

Acq: 21 May 2018 15:31

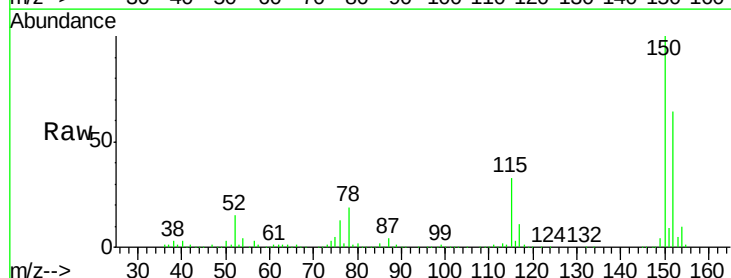
Tgt Ion:152 Resp: 147562

Ion Ratio Lower Upper

152 100

115 51.2 37.4 112.2

150 156.2 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

