

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX072018\  
 Data File : VX003535.D  
 Acq On : 21 Jul 2018 03:35  
 Operator : JC/SP  
 Sample : J4014-13  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW03-071218

Quant Time: Jul 23 12:06:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 2018  
 Response via : Initial Calibration

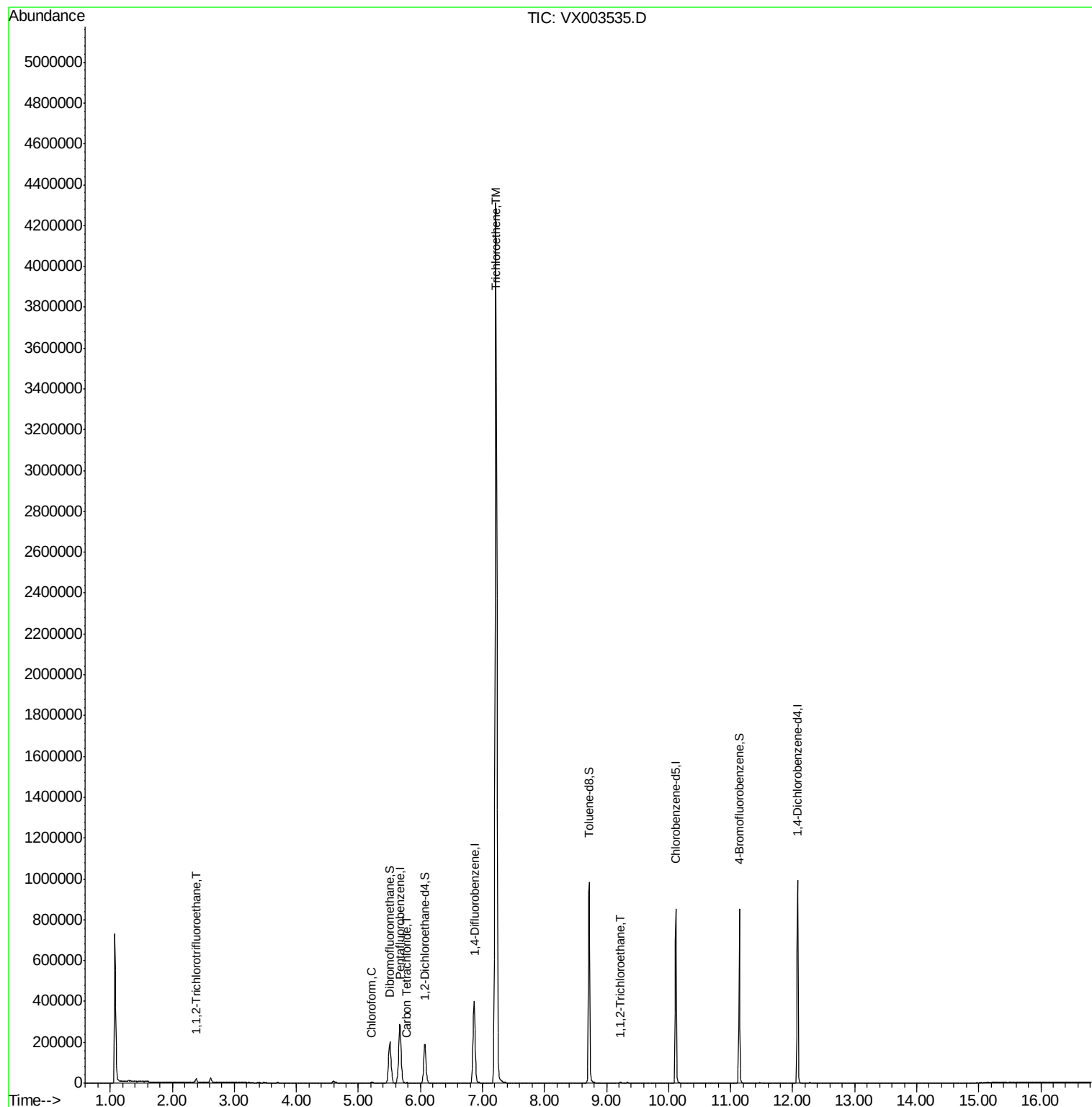
| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 5.67  | 168  | 308011   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.87  | 114  | 426840   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 10.12 | 117  | 399374   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.08 | 152  | 219300   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 6.07  | 65   | 180840   | 49.60   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 99.20%  |          |
| 35) Dibromofluoromethane      | 5.51  | 113  | 171009   | 52.60   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 105.20% |          |
| 50) Toluene-d8                | 8.72  | 98   | 615783   | 50.39   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 100.78% |          |
| 62) 4-Bromofluorobenzene      | 11.14 | 95   | 208072   | 46.66   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 93.32%  |          |
| Target Compounds              |       |      |          |         |         |          |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39  | 101  | 5390     | 1.578   | ug/l    | 96       |
| 30) Chloroform                | 5.21  | 83   | 4584     | 0.764   | ug/l    | 90       |
| 38) Carbon Tetrachloride      | 5.78  | 117  | 1373     | 0.304   | ug/l #  | 81       |
| 44) Trichloroethene           | 7.21  | 130  | 1792032  | 431.866 | ug/l    | 99       |
| 55) 1,1,2-Trichloroethane     | 9.22  | 97   | 1441     | 0.413   | ug/l    | 92       |

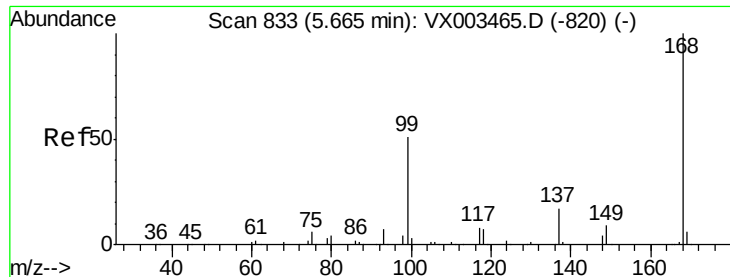
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX072018\  
Data File : VX003535.D  
Acq On : 21 Jul 2018 03:35  
Operator : JC/SP  
Sample : J4014-13  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW03-071218

Quant Time: Jul 23 12:06:31 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 17:09:44 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003535.D

Acq: 21 Jul 2018 03:35

Instrument :

MSVOA\_X

ClientSampleId :

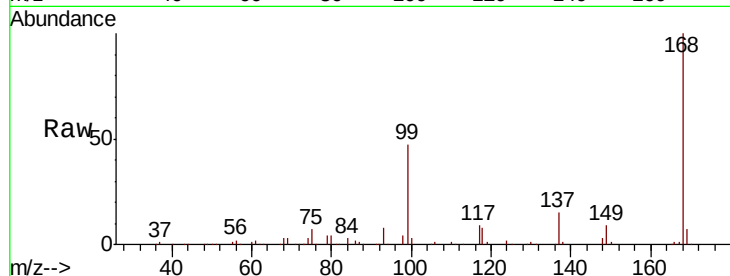
GW03-071218

Tgt Ion:168 Resp: 308011

Ion Ratio Lower Upper

168 100

99 47.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

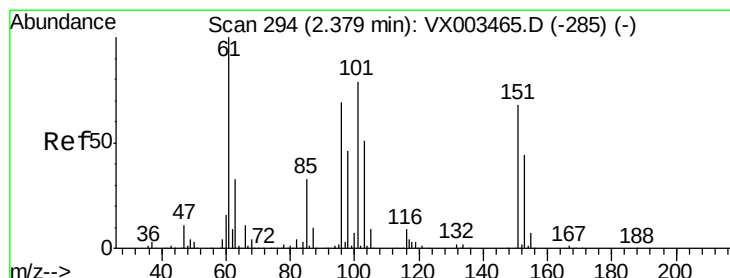
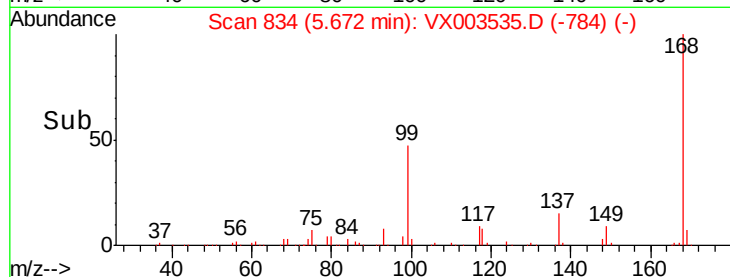
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.578 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003535.D

Acq: 21 Jul 2018 03:35

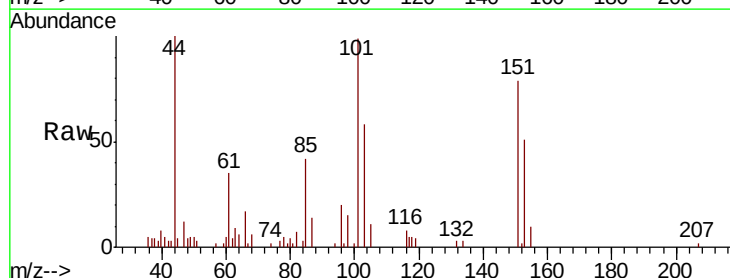
Tgt Ion:101 Resp: 5390

Ion Ratio Lower Upper

101 100

85 43.1 36.0 54.0

151 84.9 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

4000

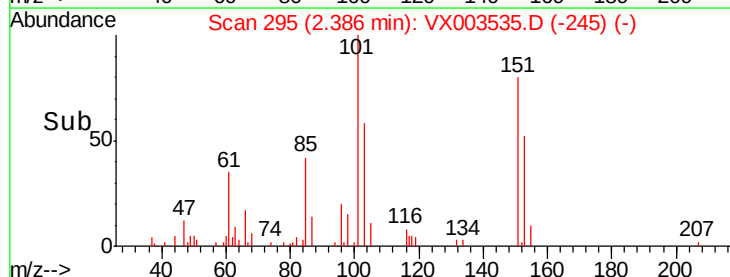
3000

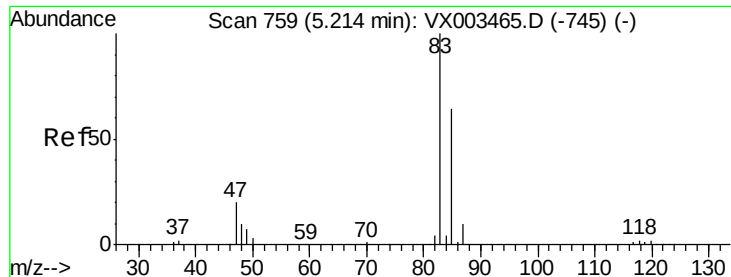
2000

1000

0

Time--> 2.30 2.35 2.40 2.45

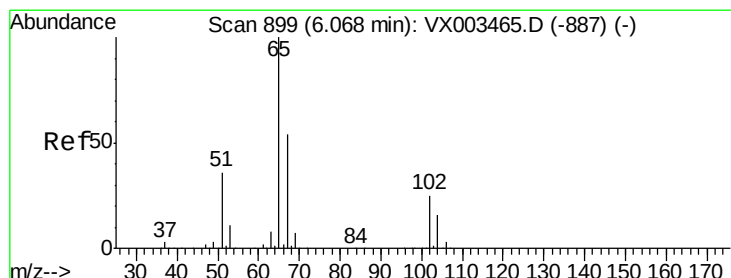
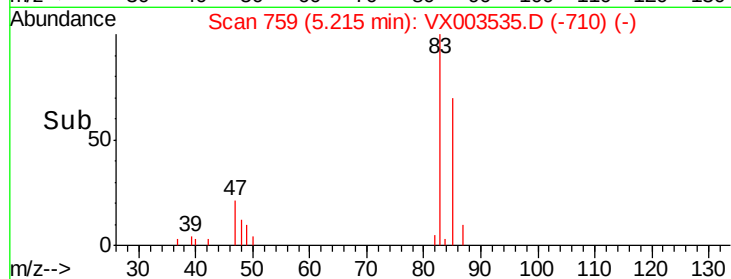
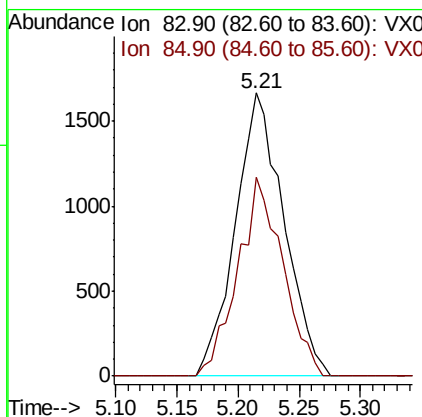
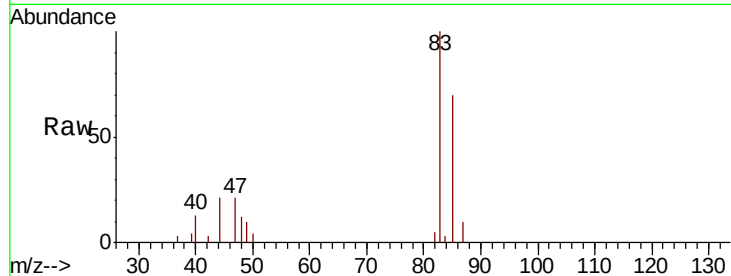




#30  
Chloroform  
Concen: 0.764 ug/l  
RT: 5.21 min Scan# 759  
Delta R.T. 0.00 min  
Lab File: VX003535.D  
Acq: 21 Jul 2018 03:35

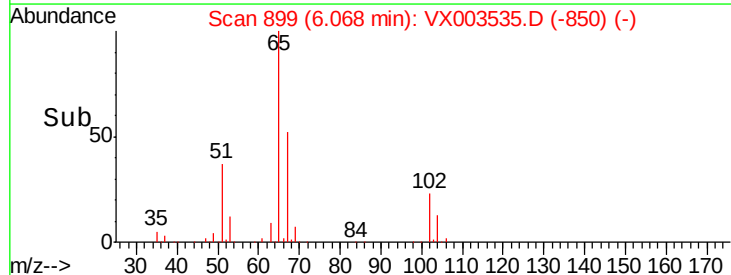
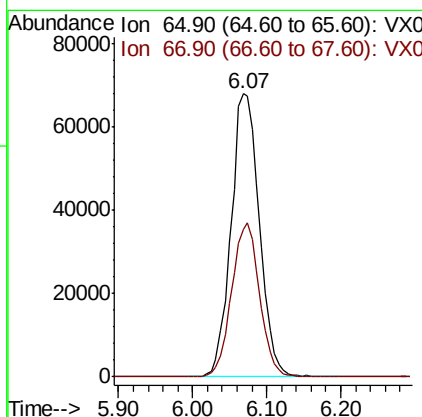
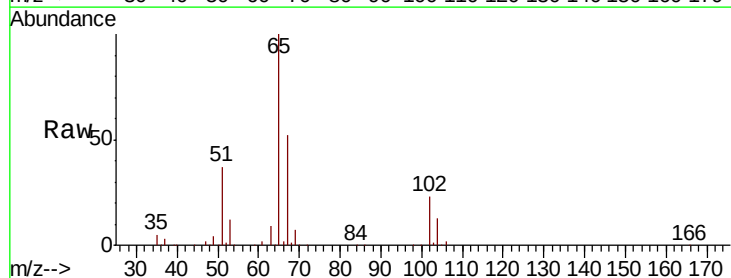
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW03-071218

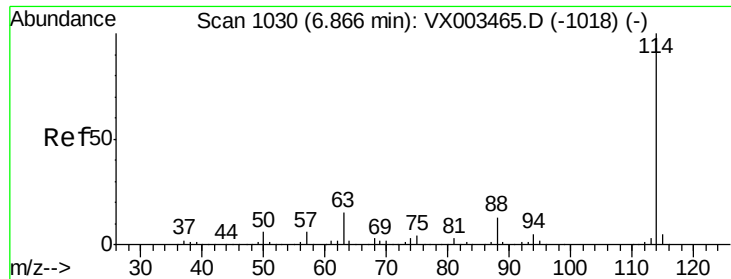
Tgt Ion: 83 Resp: 4584  
Ion Ratio Lower Upper  
83 100  
85 70.4 50.4 75.6



#33  
1,2-Dichloroethane-d4  
Concen: 49.600 ug/l  
RT: 6.07 min Scan# 899  
Delta R.T. 0.00 min  
Lab File: VX003535.D  
Acq: 21 Jul 2018 03:35

Tgt Ion: 65 Resp: 180840  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 102.6

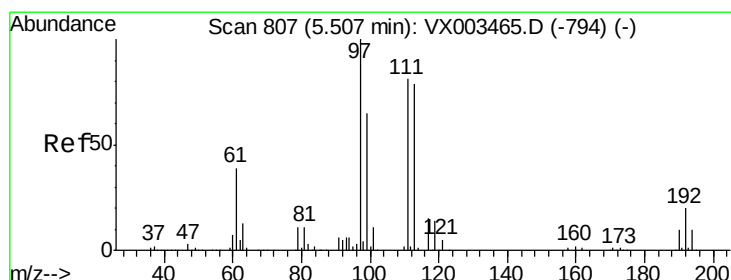
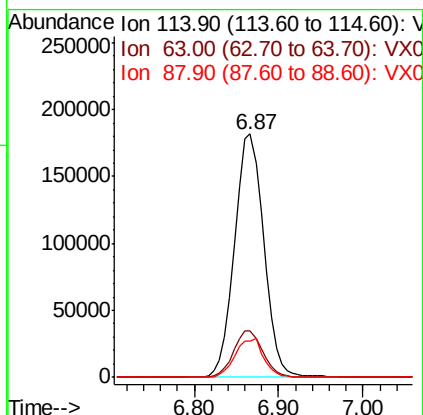
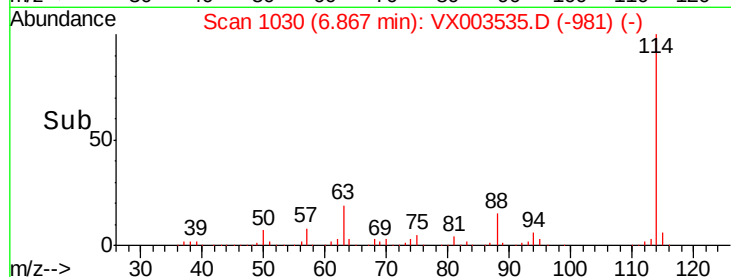
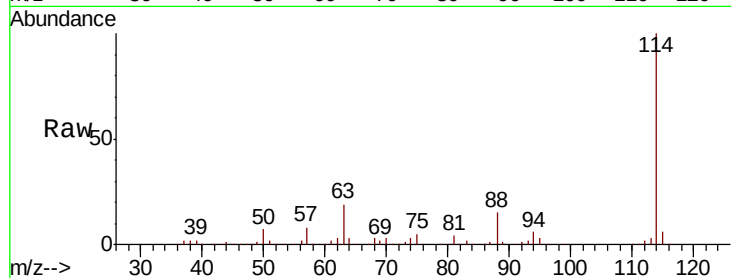




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003535.D  
 Acq: 21 Jul 2018 03:35

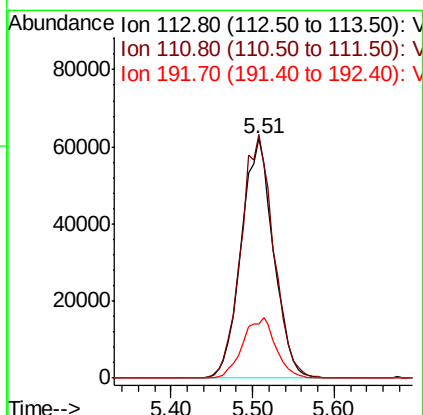
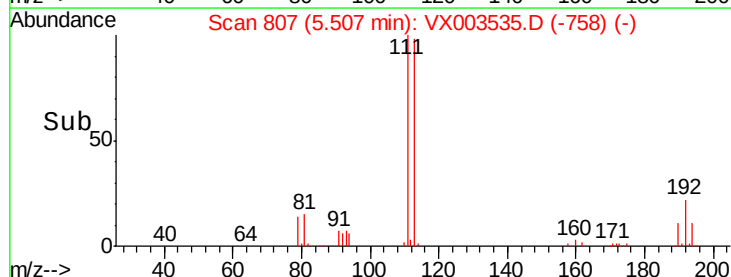
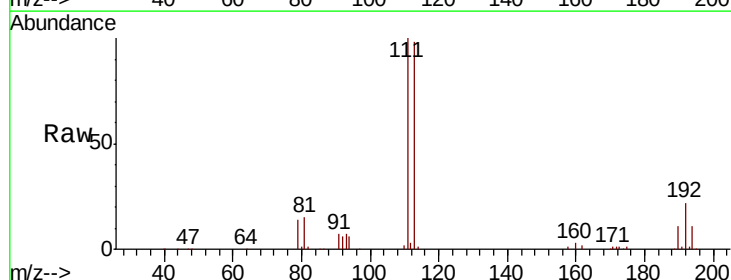
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW03-071218

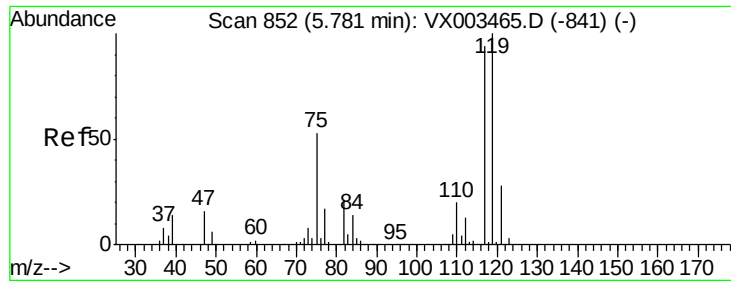
Tgt Ion:114 Resp: 426840  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 41.4  
 88 15.1 0.0 30.0



#35  
 Dibromofluoromethane  
 Concen: 52.600 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX003535.D  
 Acq: 21 Jul 2018 03:35

Tgt Ion:113 Resp: 171009  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 81.4 122.0  
 192 25.6 19.1 28.7





#38

Carbon Tetrachloride

Concen: 0.304 ug/l

RT: 5.78 min Scan# 852

Delta R.T. 0.00 min

Lab File: VX003535.D

Acq: 21 Jul 2018 03:35

Instrument :

MSVOA\_X

ClientSampleId :

GW03-071218

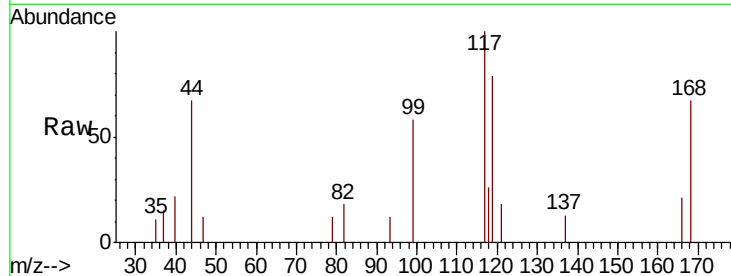
Tgt Ion:117 Resp: 1373

Ion Ratio Lower Upper

117 100

119 79.4 77.4 116.0

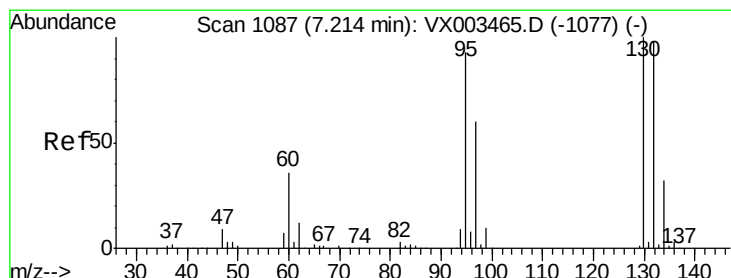
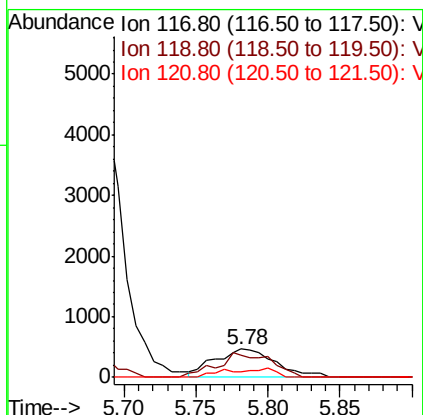
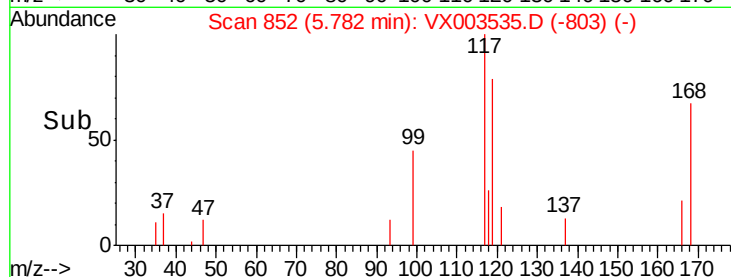
121 18.3 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 431.866 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003535.D

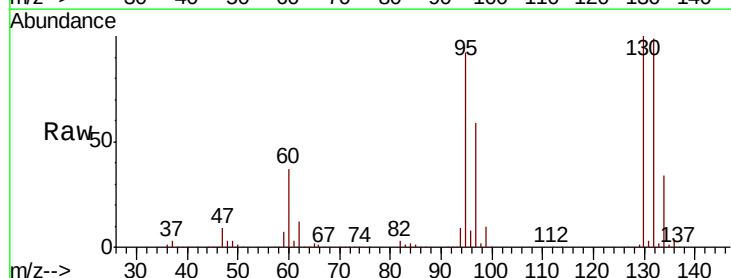
Acq: 21 Jul 2018 03:35

Tgt Ion:130 Resp: 1792032

Ion Ratio Lower Upper

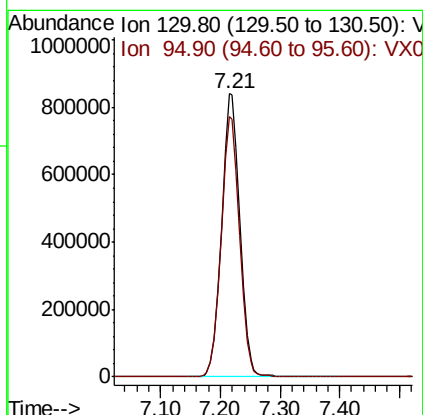
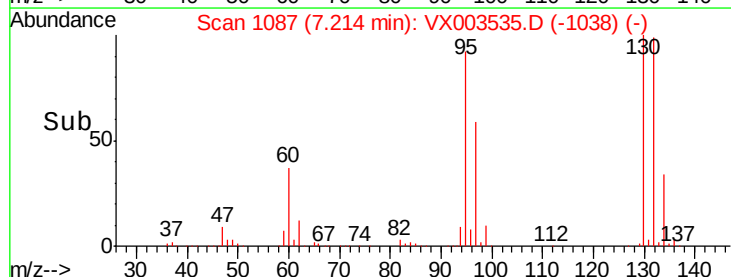
130 100

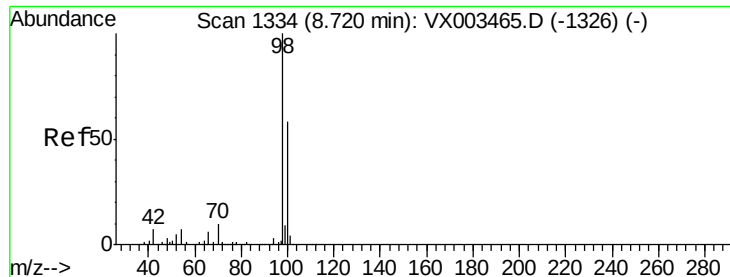
95 91.8 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.392 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003535.D

Acq: 21 Jul 2018 03:35

Instrument :

MSVOA\_X

ClientSampleId :

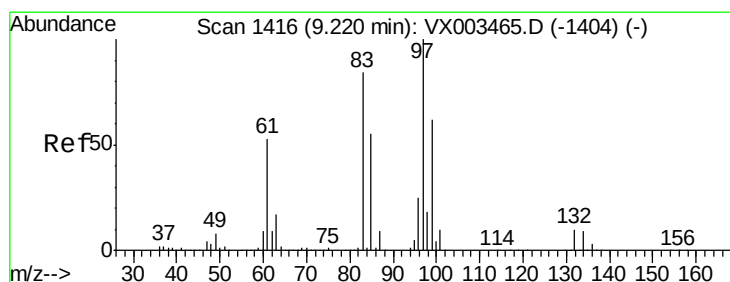
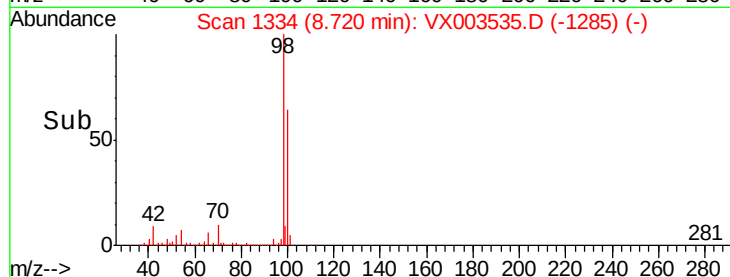
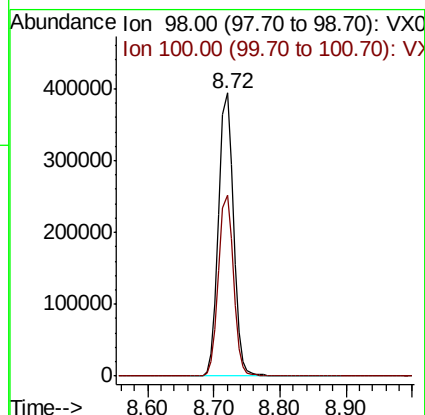
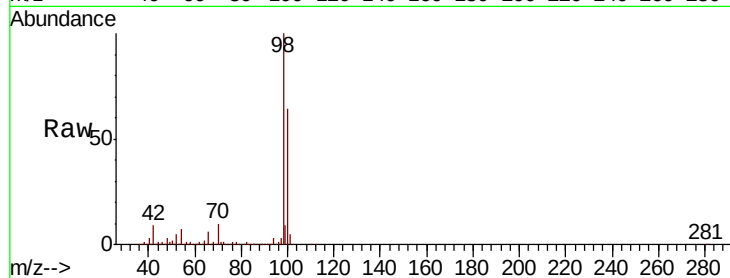
GW03-071218

Tgt Ion: 98 Resp: 615783

Ion Ratio Lower Upper

98 100

100 64.4 50.9 76.3



#55

1,1,2-Trichloroethane

Concen: 0.413 ug/l

RT: 9.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VX003535.D

Acq: 21 Jul 2018 03:35

Tgt Ion: 97 Resp: 1441

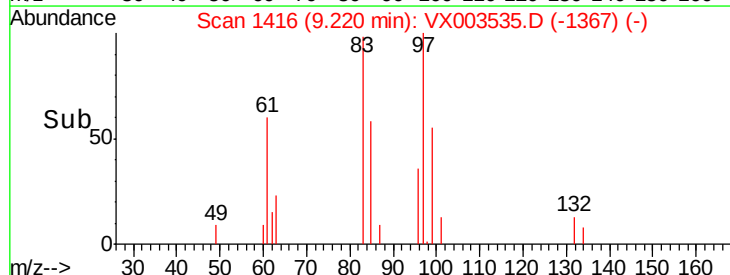
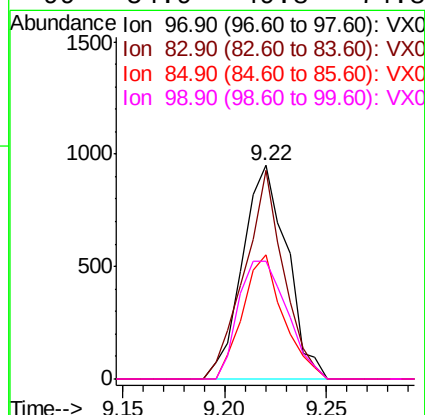
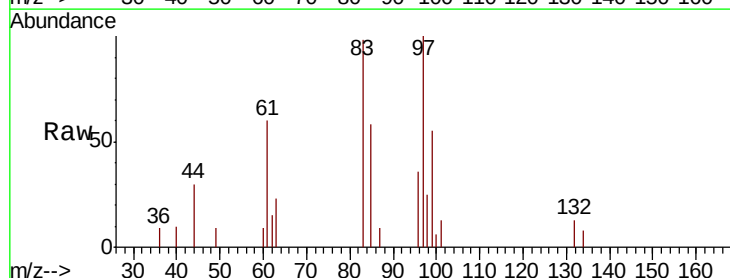
Ion Ratio Lower Upper

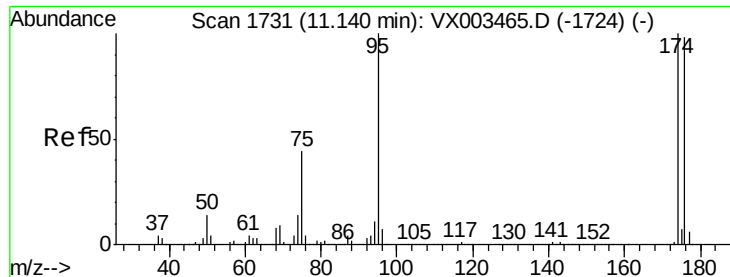
97 100

83 97.7 70.2 105.2

85 58.1 44.9 67.3

99 54.9 49.8 74.8

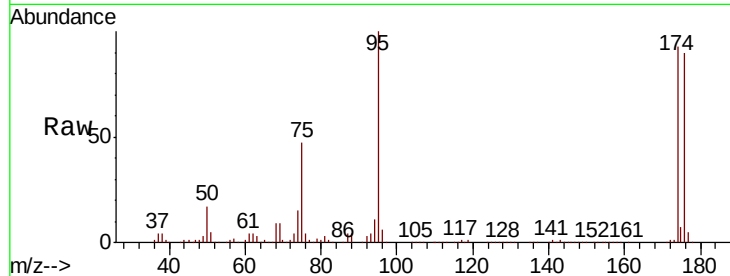




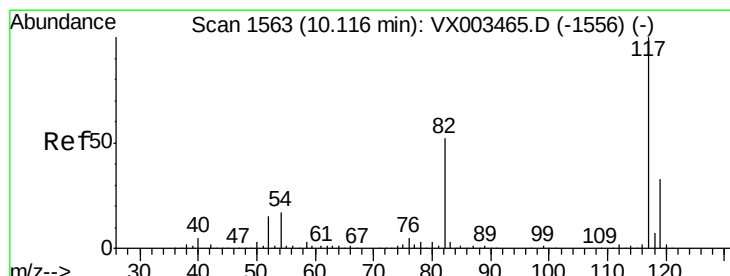
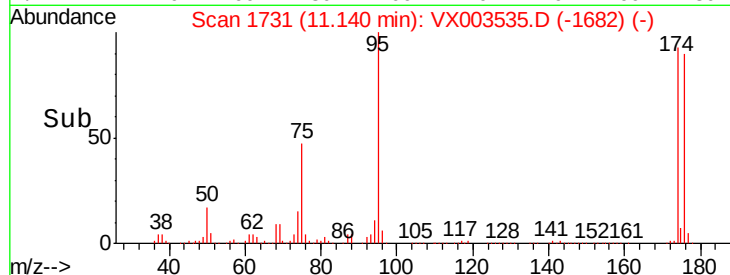
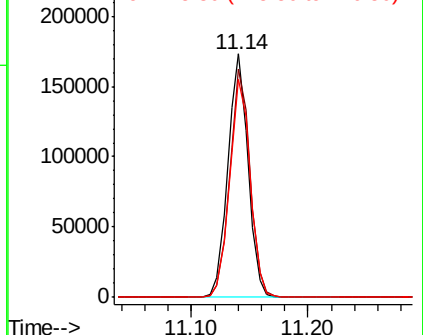
#62  
4-Bromofluorobenzene  
Concen: 46.659 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003535.D  
Acq: 21 Jul 2018 03:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW03-071218

Tgt Ion: 95 Resp: 208072  
Ion Ratio Lower Upper  
95 100  
174 94.9 0.0 187.4  
176 91.8 0.0 181.0

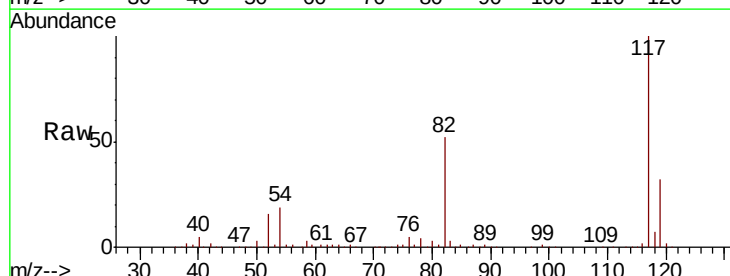


Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

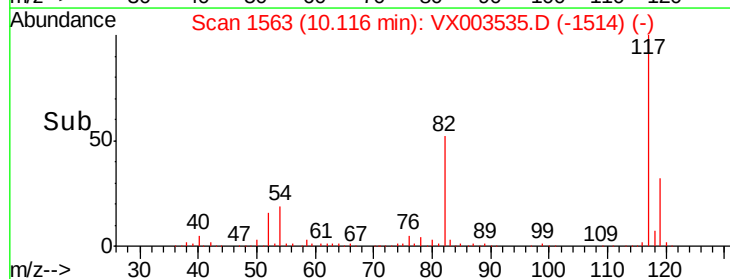
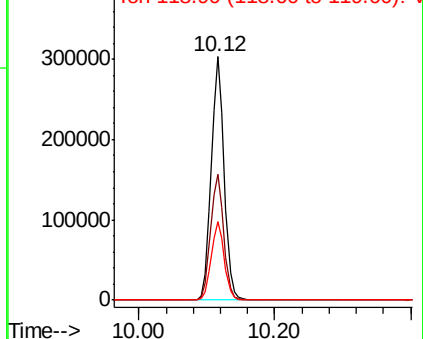


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003535.D  
Acq: 21 Jul 2018 03:35

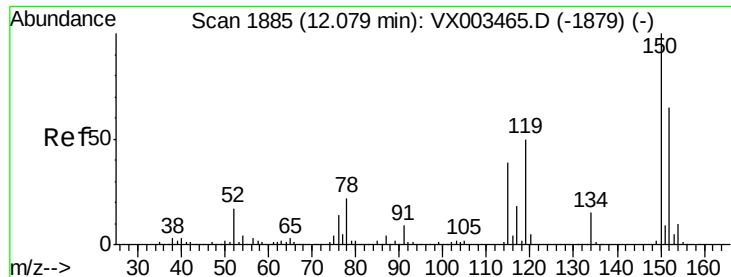
Tgt Ion: 117 Resp: 399374  
Ion Ratio Lower Upper  
117 100  
82 51.9 45.0 67.4  
119 32.2 25.8 38.6



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







#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1885  
 Delta R.T. 0.00 min  
 Lab File: VX003535.D  
 Acq: 21 Jul 2018 03:35

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW03-071218

| Tgt Ion | Resp   | Ratio | Lower | Upper |
|---------|--------|-------|-------|-------|
| 152     | 219300 | 100   |       |       |
| 115     | 53.9   |       | 40.1  | 120.2 |
| 150     | 154.9  |       | 0.0   | 347.2 |

