

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\  
 Data File : VX000941.D  
 Acq On : 17 Apr 2018 01:36  
 Operator : JC/MD  
 Sample : VX0416WBL02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 17 02:41:16 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 260640   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 362039   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 332682   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 216860   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 159908   | 48.66 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.32% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 125947   | 45.15 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.30% |          |
| 50) Toluene-d8              | 8.72  | 98   | 498793   | 48.03 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.06% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 191934   | 44.67 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.34% |          |

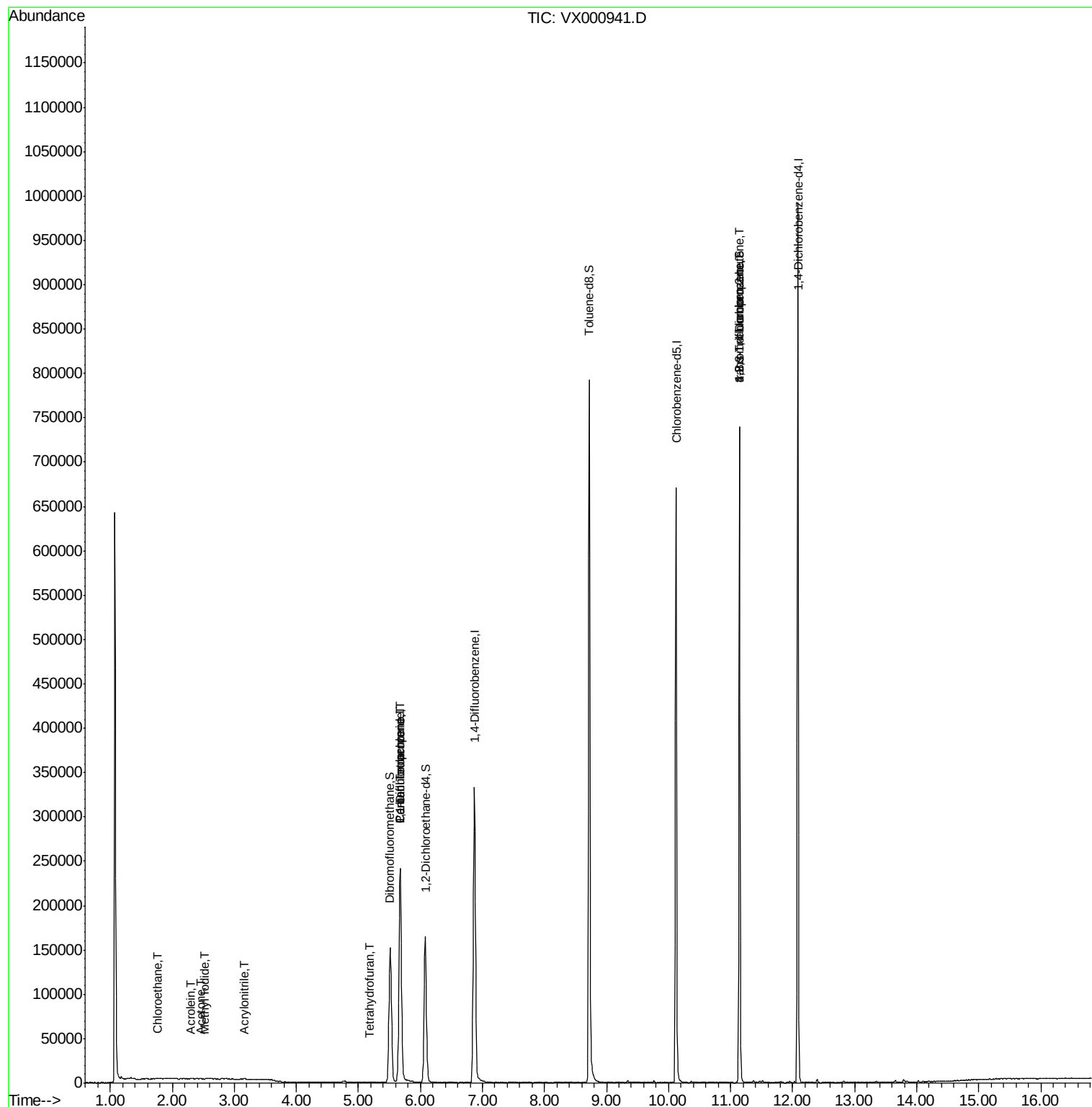
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.67  | 94   | 301      | Below Cal | #      | 51     |
| 6) Chloroethane                | 1.75  | 64   | 1685     | 0.980     | ug/l # | 80     |
| 10) Methyl Iodide              | 2.52  | 142  | 302      | 8.359     | ug/l # | 52     |
| 13) Acrolein                   | 2.29  | 56   | 205      | 0.723     | ug/l   | 93     |
| 15) Acrylonitrile              | 3.15  | 53   | 435      | 0.350     | ug/l   | 99     |
| 16) Acetone                    | 2.45  | 43   | 490      | 0.432     | ug/l # | 80     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 457      | 0.385     | ug/l # | 47     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16171    | 4.056     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 22503    | 5.042     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 94660    | 25.310    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 94660    | 69.623    | ug/l # | 11     |

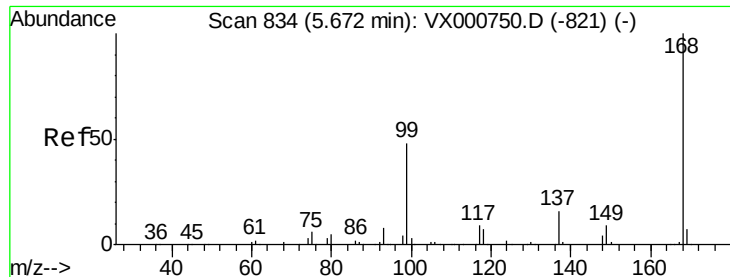
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 17 02:41:16 2018  
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QLast Update : Tue Apr 10 15:49:28 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: VX000941.D

Acq: 17 Apr 2018 01:36

Instrument :

MSVOA\_X

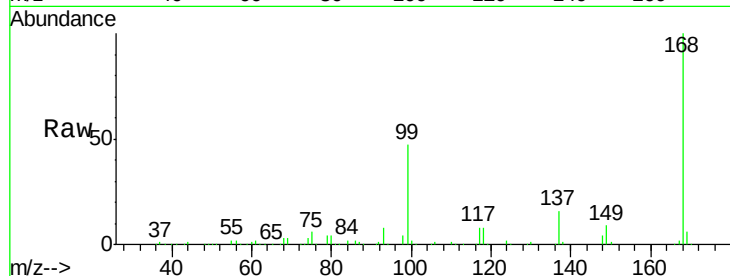
ClientSampleId :

Tot Ion:168 Resp: 260640

Ion Ratio Lower Upper

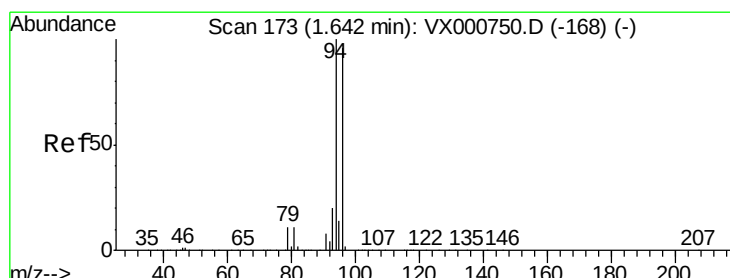
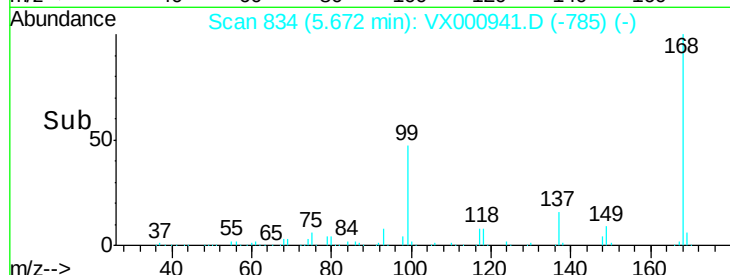
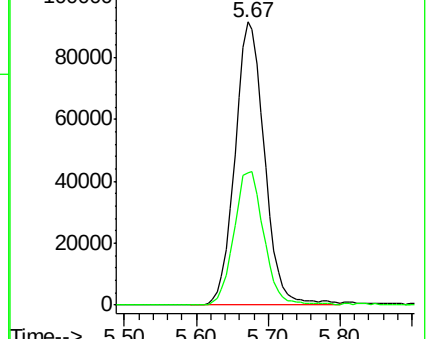
168 100

99 47.0 38.3 57.5



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: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX000941.D

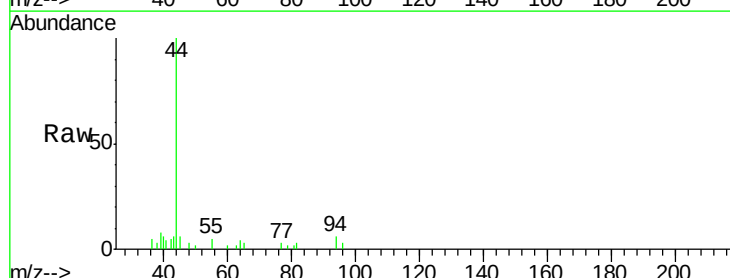
Acq: 17 Apr 2018 01:36

Tgt Ion: 94 Resp: 301

Ion Ratio Lower Upper

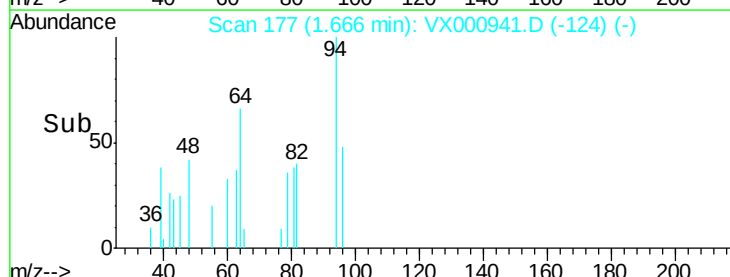
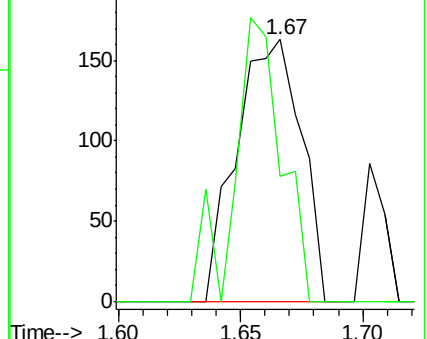
94 100

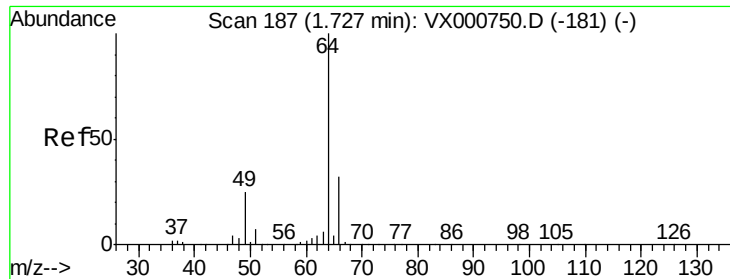
96 47.9 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.980 ug/l

RT: 1.75 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

Instrument :

MSVOA\_X

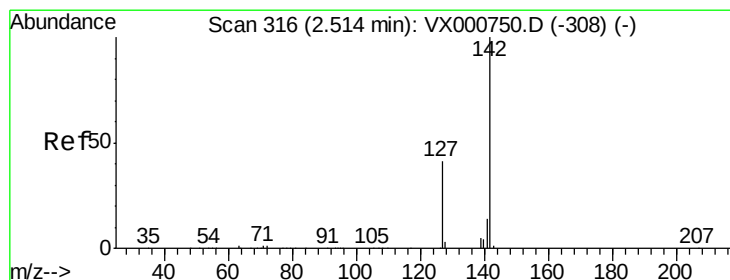
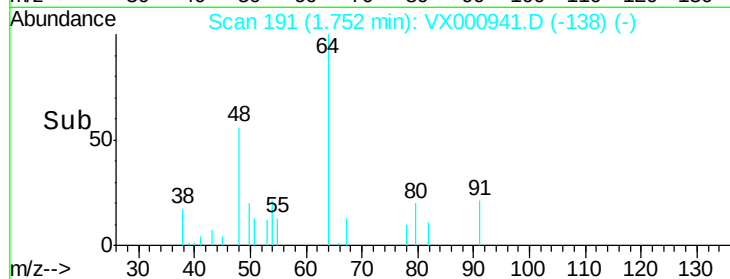
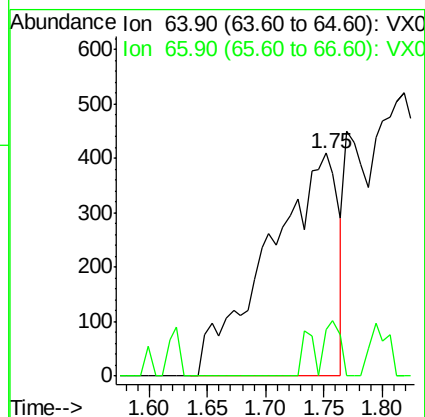
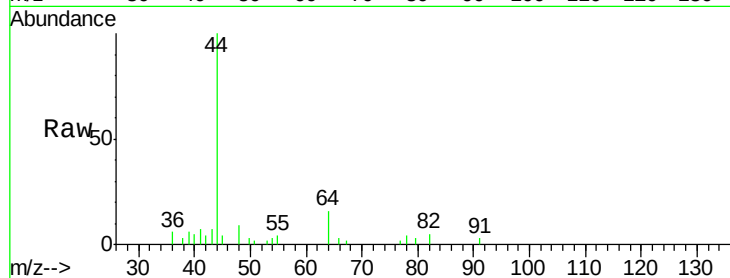
ClientSampleId :

Tot Ion: 64 Resp: 1685

Ion Ratio Lower Upper

64 100

66 20.8 25.3 37.9#



#10

Methyl Iodide

Concen: 8.359 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

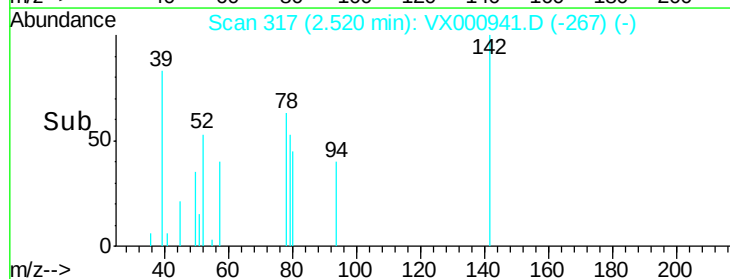
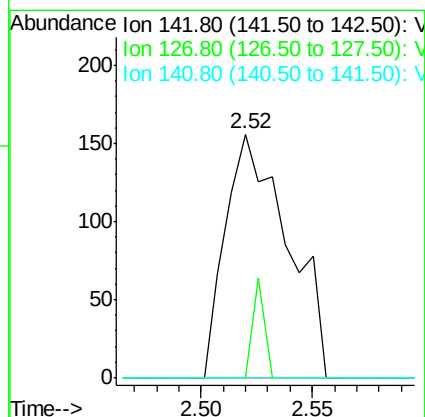
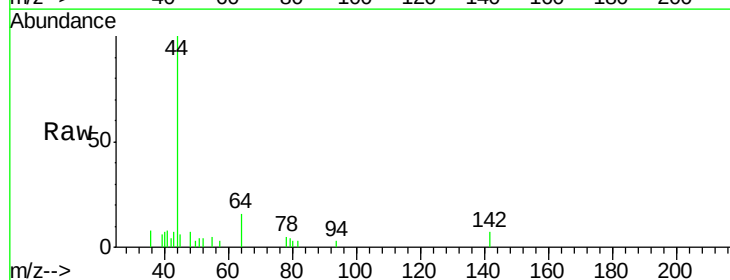
Tgt Ion: 142 Resp: 302

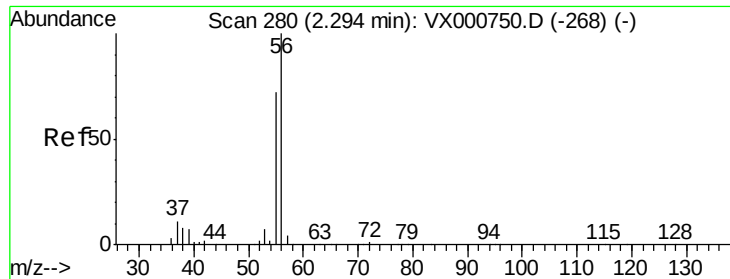
Ion Ratio Lower Upper

142 100

127 7.6 32.6 49.0#

141 0.0 11.5 17.3#





#13

Acrolein

Concen: 0.723 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

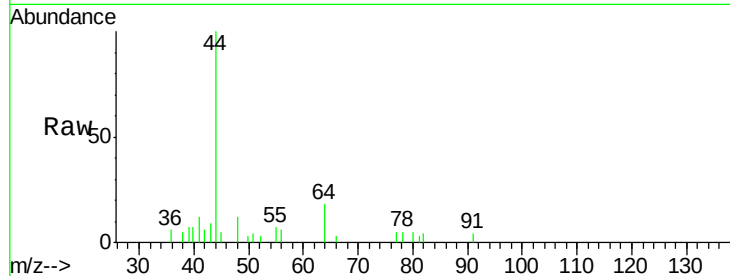
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 205

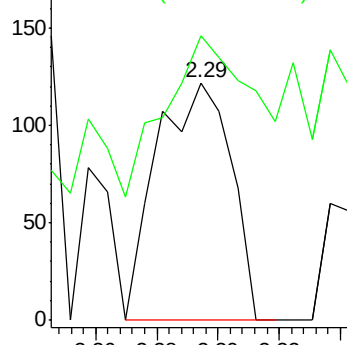
Ion Ratio Lower Upper

56 100

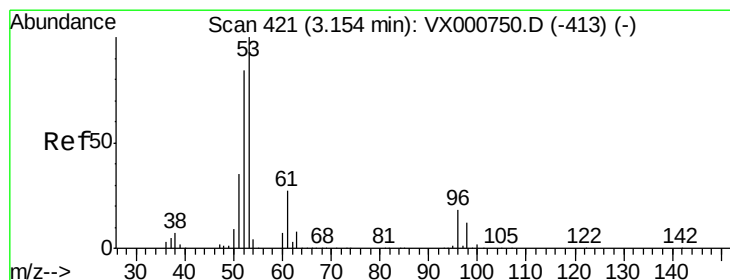
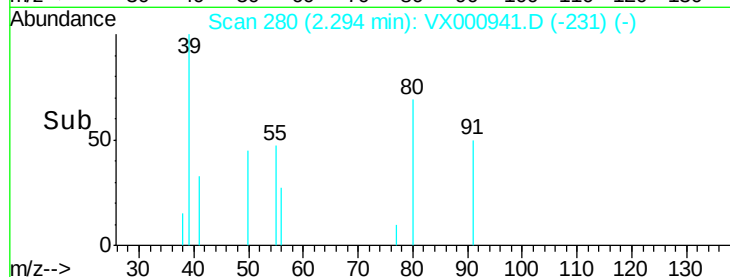
55 79.5 58.7 88.1



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.350 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

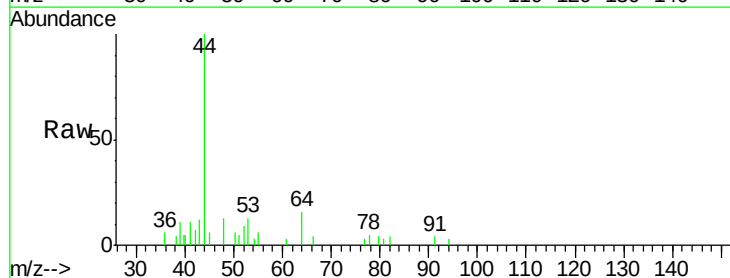
Tgt Ion: 53 Resp: 435

Ion Ratio Lower Upper

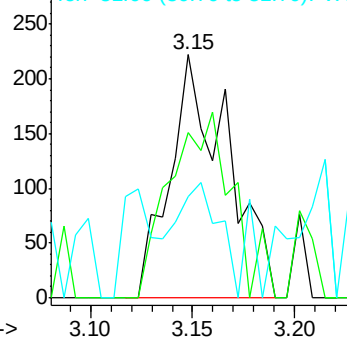
53 100

52 83.0 66.5 99.7

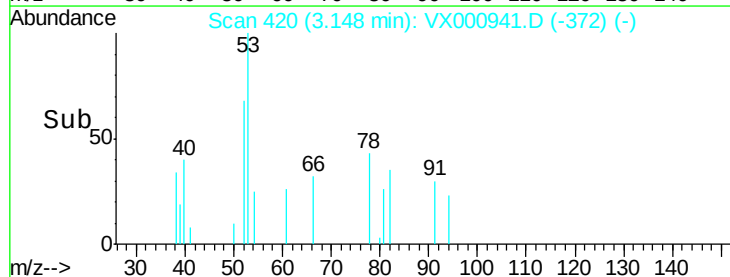
51 34.0 28.8 43.2

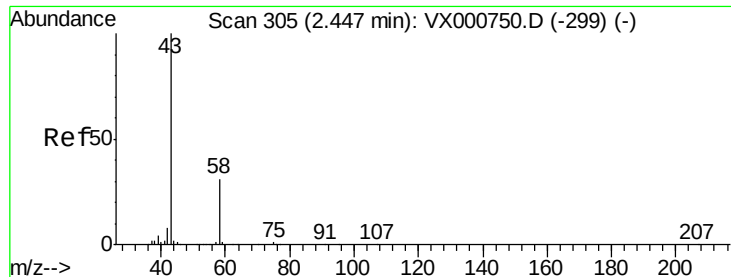


Abundance Ion 53.00 (52.70 to 53.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0  
Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 0.432 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

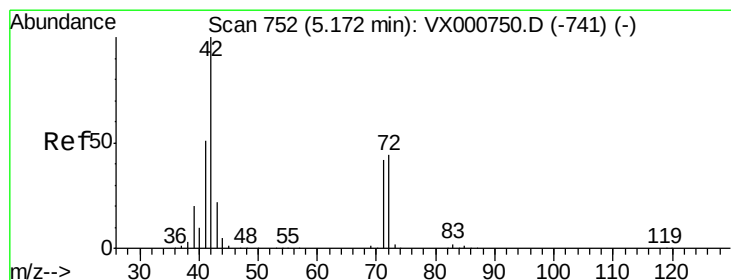
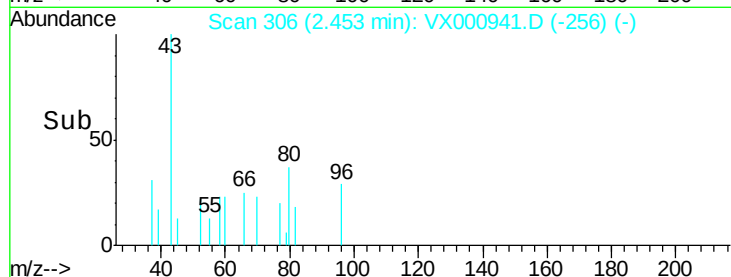
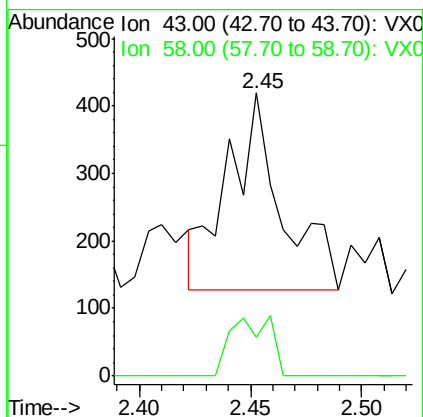
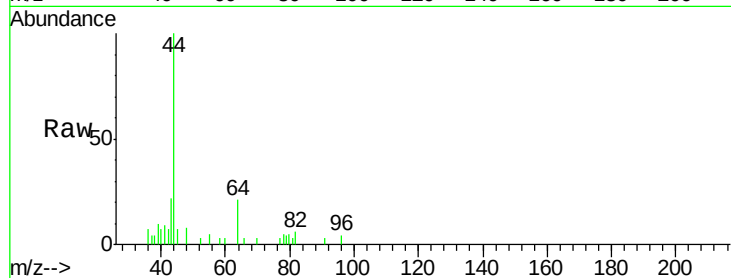
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 43 Resp: 490

Ion Ratio Lower Upper

43 100

58 19.9 24.6 37.0#



#29

Tetrahydrofuran

Concen: 0.385 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

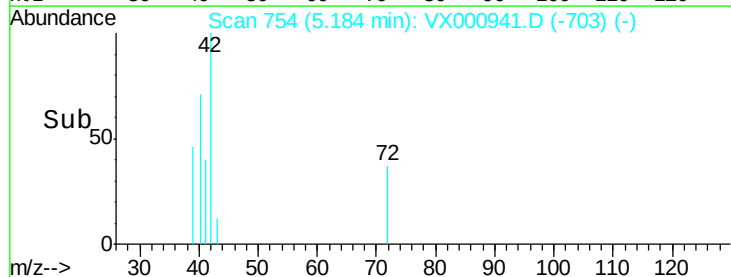
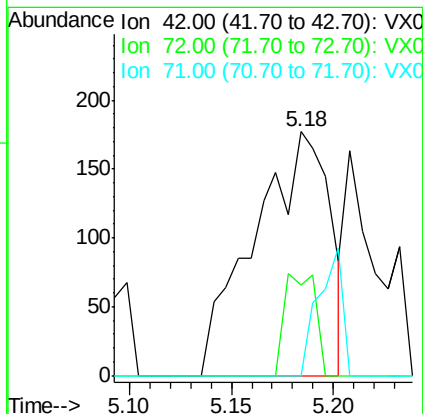
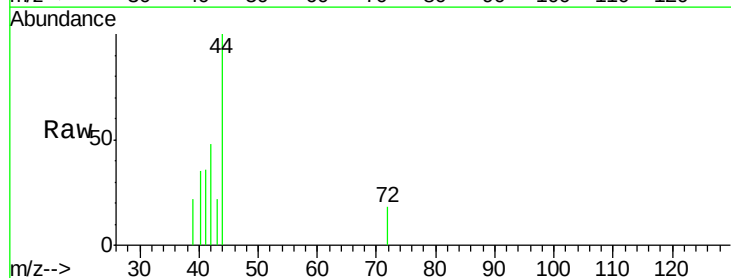
Tgt Ion: 42 Resp: 457

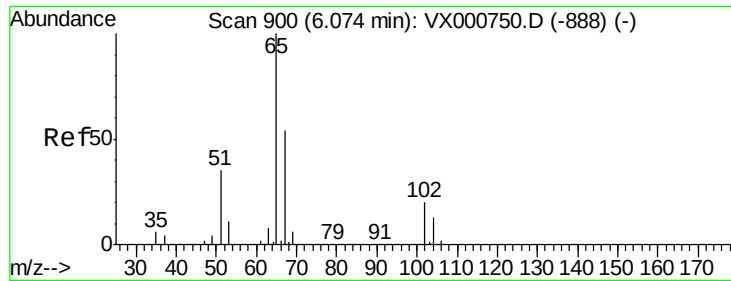
Ion Ratio Lower Upper

42 100

72 17.1 35.1 52.7#

71 0.0 32.8 49.2#

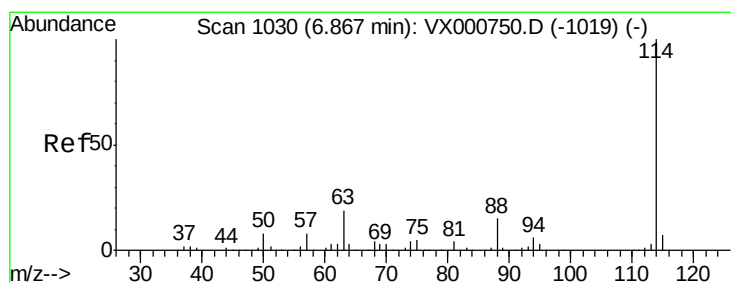
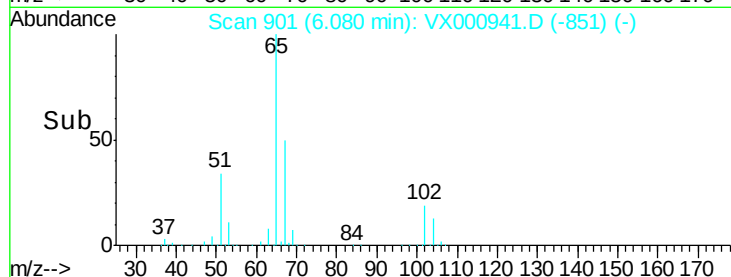
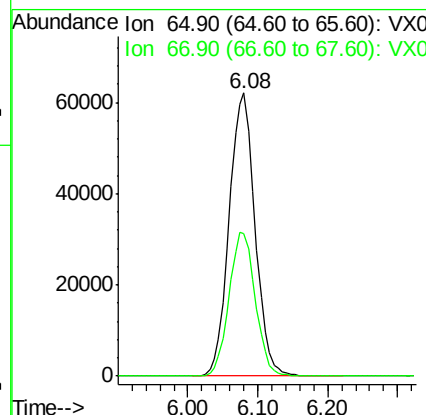
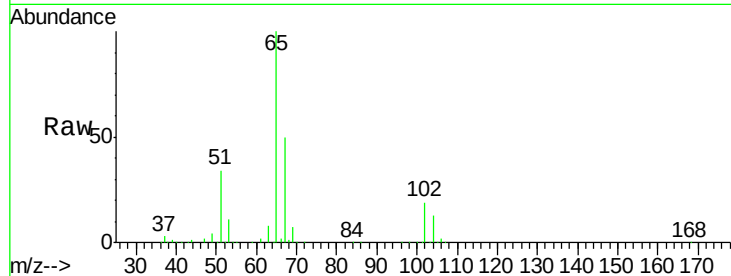




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.658 ug/l  
 RT: 6.08 min Scan# 901  
 Delta R.T. 0.01 min  
 Lab File: VX000941.D  
 Acq: 17 Apr 2018 01:36

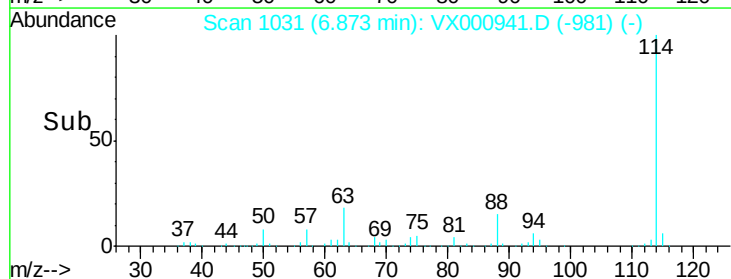
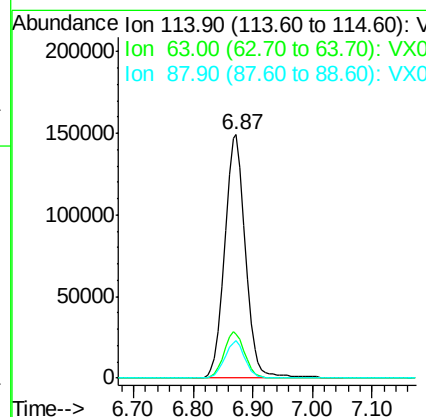
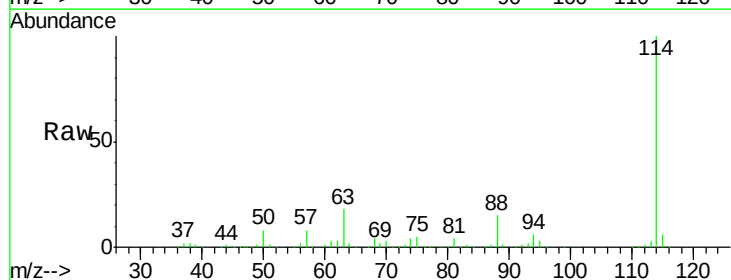
Instrument :  
 MSVOA\_X  
 ClientSampleId :

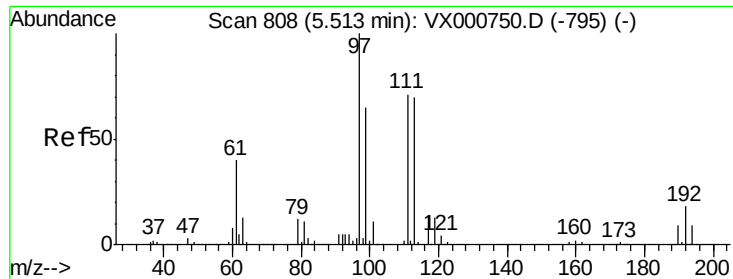
Tot Ion: 65 Resp: 159908  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX000941.D  
 Acq: 17 Apr 2018 01:36

Tgt Ion: 114 Resp: 362039  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 38.4  
 88 15.4 0.0 31.0

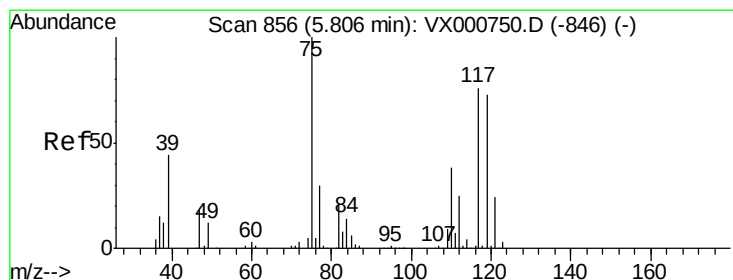
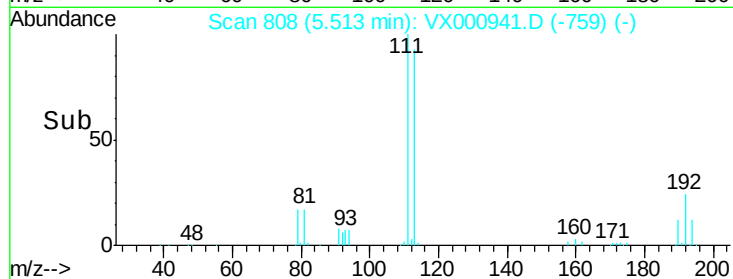
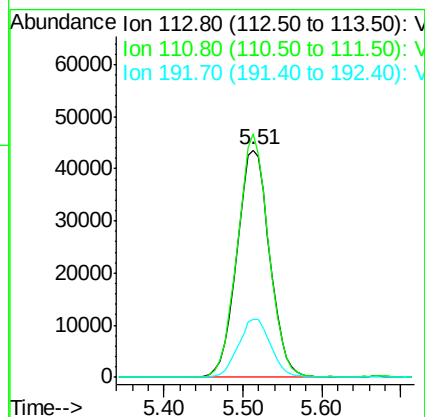
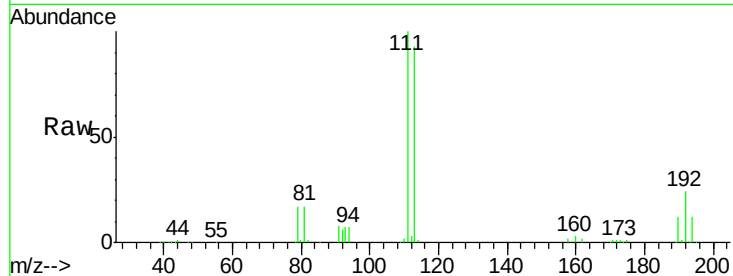




#35  
 Dibromofluoromethane  
 Concen: 45.154 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX000941.D  
 Acq: 17 Apr 2018 01:36

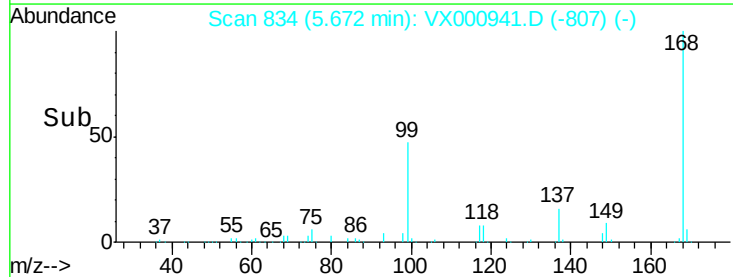
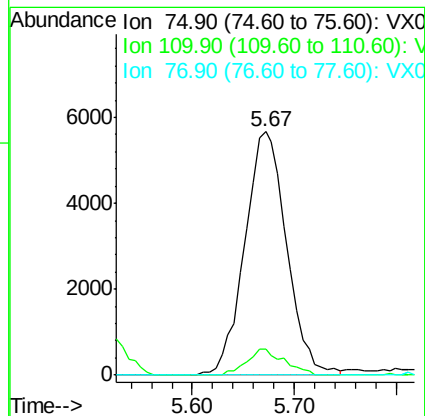
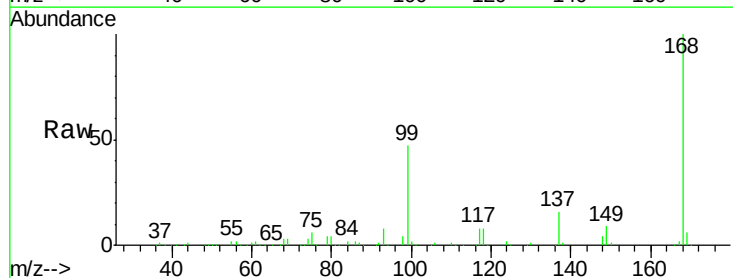
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:113 Resp: 125947  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 81.5 122.3  
 192 25.4 20.4 30.6

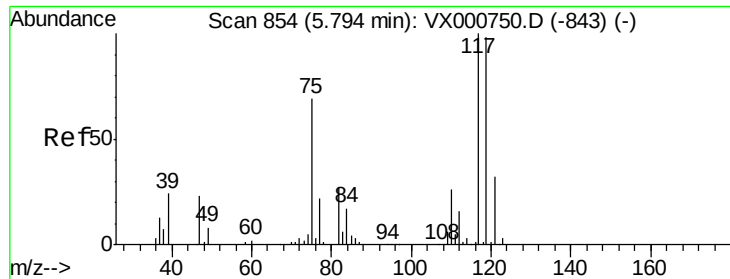


#36  
 1,1-Dichloropropene  
 Concen: 4.056 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX000941.D  
 Acq: 17 Apr 2018 01:36

Tgt Ion: 75 Resp: 16171  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 19.2 57.6#  
 77 0.0 25.4 38.2#



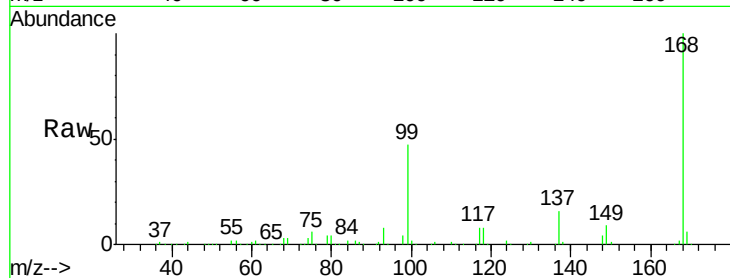




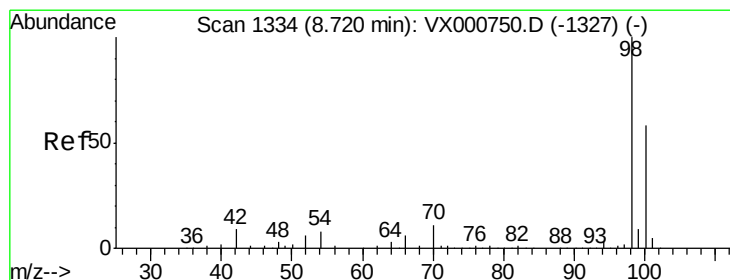
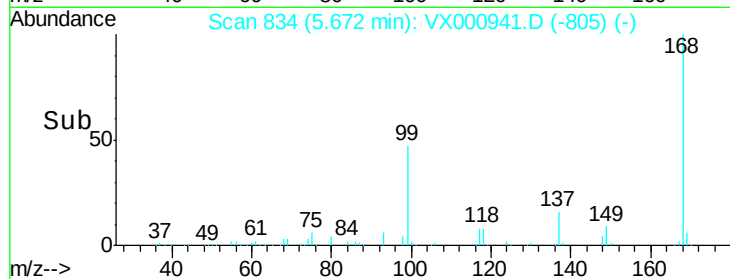
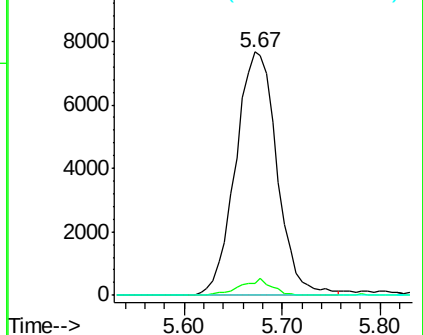
#38  
Carbon Tetrachloride  
Concen: 5.042 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.12 min  
Lab File: VX000941.D  
Acq: 17 Apr 2018 01:36

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:117 Resp: 22503  
Ion Ratio Lower Upper  
117 100  
119 5.1 78.4 117.6#  
121 0.0 25.4 38.0#

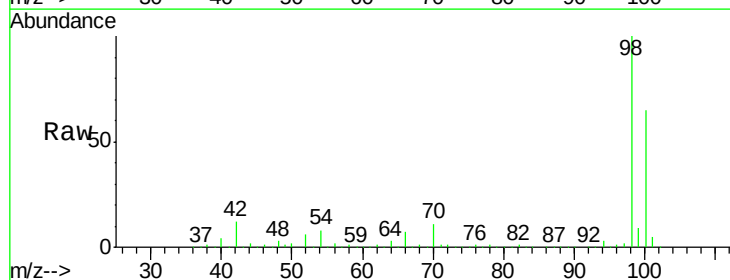


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

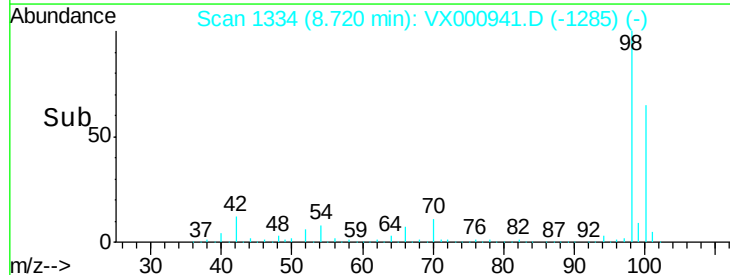
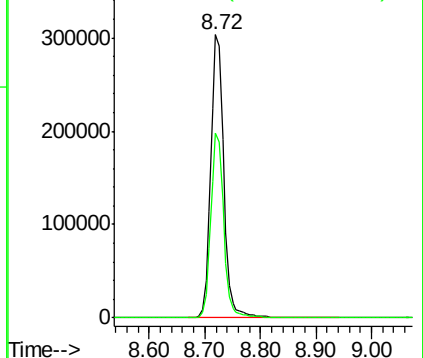


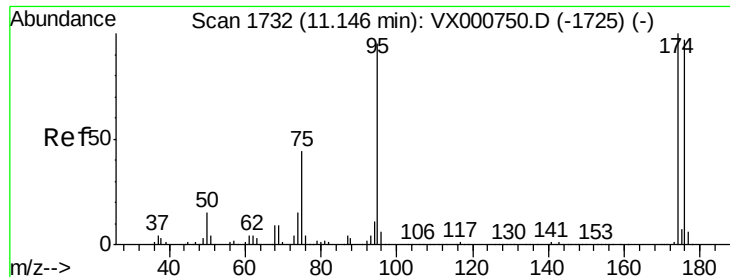
#50  
Toluene-d8  
Concen: 48.028 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX000941.D  
Acq: 17 Apr 2018 01:36

Tgt Ion: 98 Resp: 498793  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

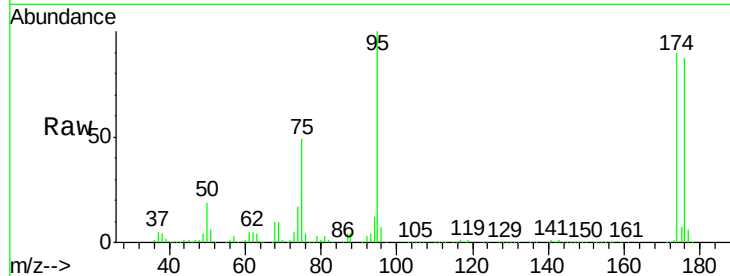




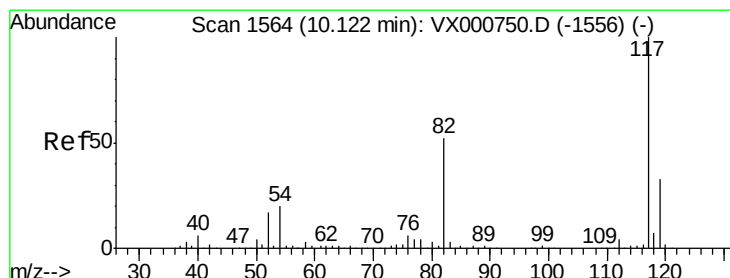
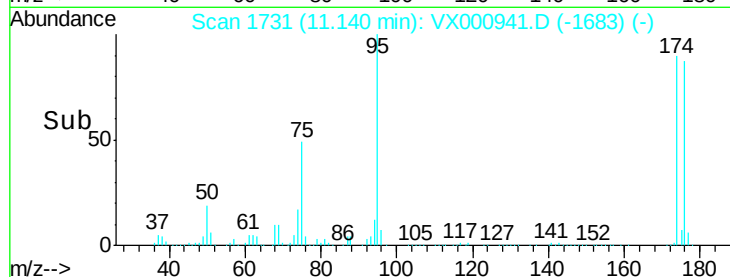
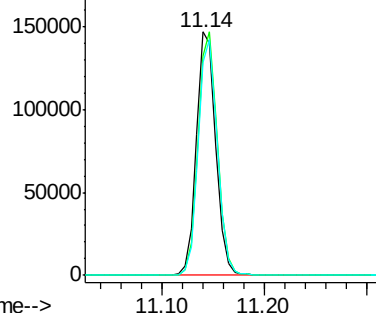
#62  
4-Bromofluorobenzene  
Concen: 44.669 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.01 min  
Lab File: VX000941.D  
Acq: 17 Apr 2018 01:36

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 95 Resp: 191934  
Ion Ratio Lower Upper  
95 100  
174 98.7 0.0 198.4  
176 95.6 0.0 194.4

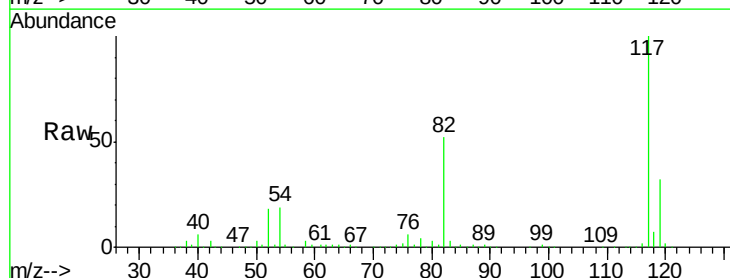


Abundance Ion 94.90 (94.60 to 95.60): VX  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

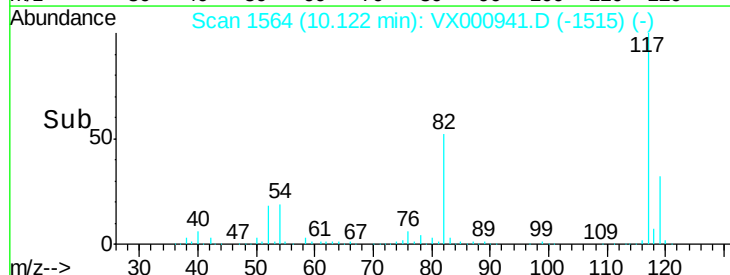
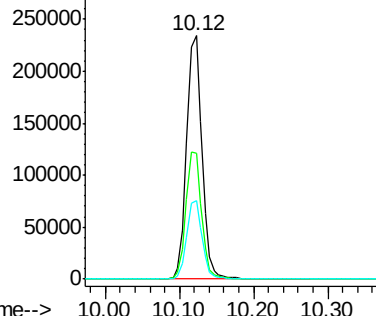


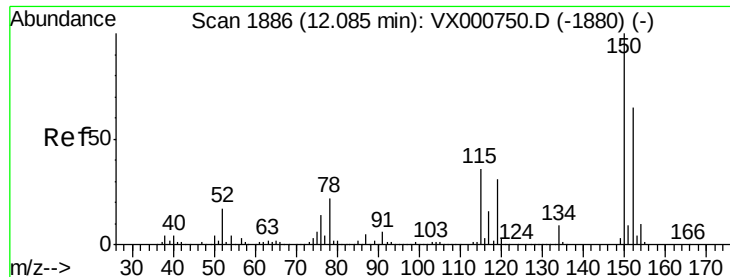
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000941.D  
Acq: 17 Apr 2018 01:36

Tgt Ion: 117 Resp: 332682  
Ion Ratio Lower Upper  
117 100  
82 51.8 41.9 62.9  
119 32.2 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX  
Ion 118.90 (118.60 to 119.60): 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: VX000941.D

Acq: 17 Apr 2018 01:36

Instrument :

MSVOA\_X

ClientSampleId :

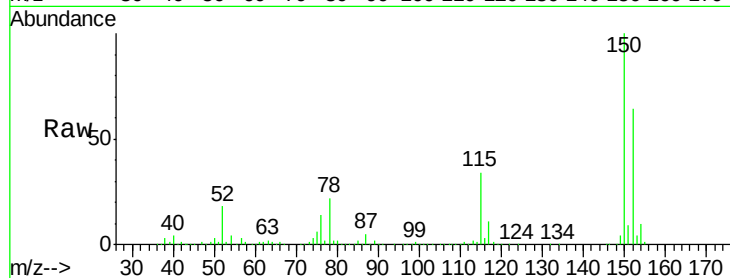
Tot Ion:152 Resp: 216860

Ion Ratio Lower Upper

152 100

115 53.2 37.9 113.7

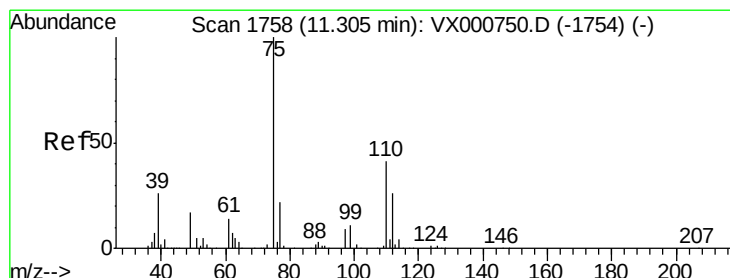
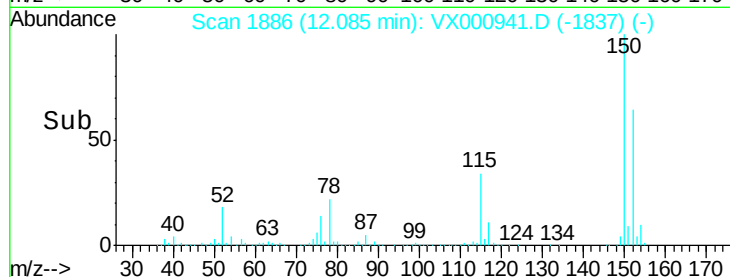
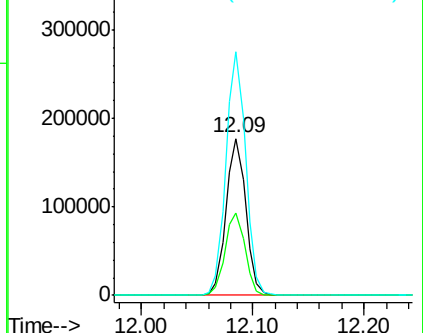
150 155.9 0.0 348.0



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: 25.310 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000941.D

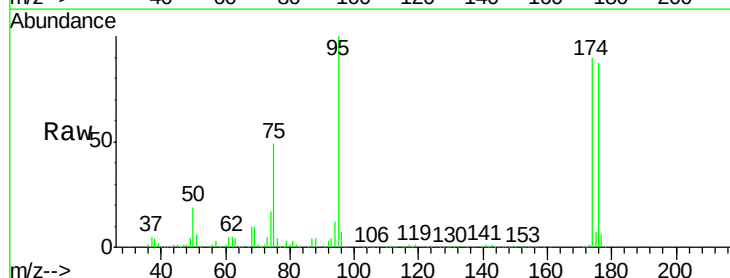
Acq: 17 Apr 2018 01:36

Tgt Ion: 75 Resp: 94660

Ion Ratio Lower Upper

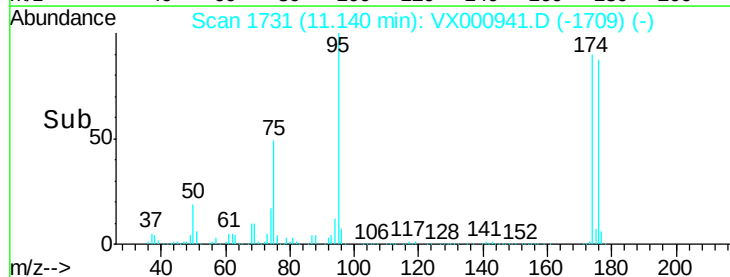
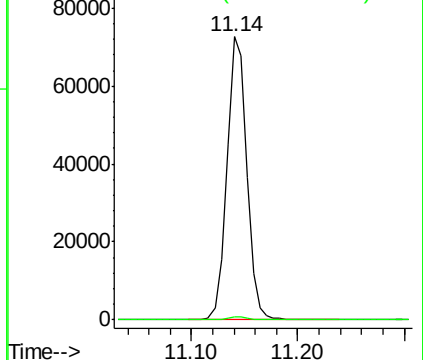
75 100

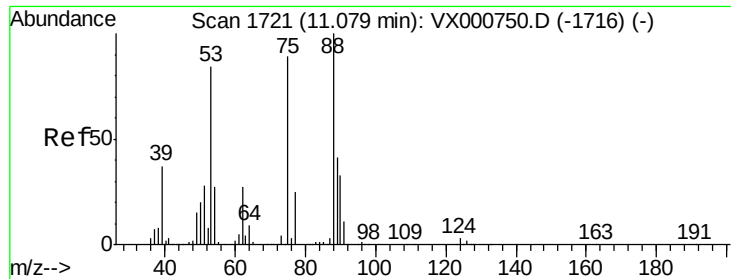
77 1.1 20.5 61.5#



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: 69.623 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000941.D

Acq: 17 Apr 2018 01:36

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 75 Resp: 94660

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#

