

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041218\  
 Data File : VX000830.D  
 Acq On : 13 Apr 2018 04:02  
 Operator : JC/MD  
 Sample : J2236-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-040418

Quant Time: Apr 13 07:02:27 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      | 5.68  | 168  | 280209   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 365541   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 333687   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 219764   | 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   | 159537   | 45.15 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.30% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 131572   | 46.72 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.44% |          |
| 50) Toluene-d8              | 8.73  | 98   | 503508   | 48.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.04% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 196270   | 45.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.48% |          |

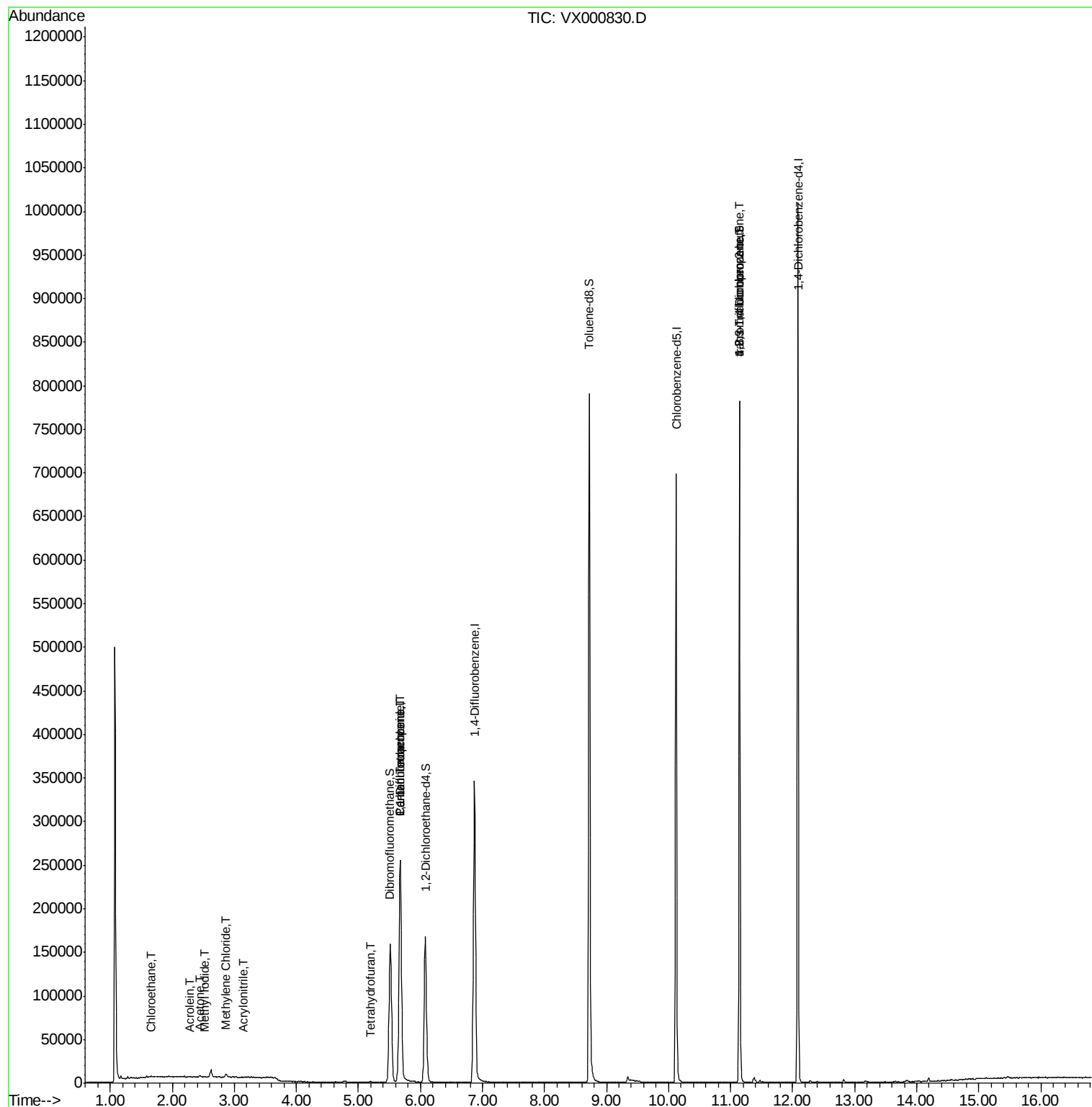
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.66  | 94   | 244      | Below Cal | #      | 34     |
| 6) Chloroethane                | 1.65  | 64   | 2501     | 1.35      | ug/l # | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 94       | 8.27      | ug/l # | 42     |
| 13) Acrolein                   | 2.29  | 56   | 99       | 0.32      | ug/l # | 1      |
| 15) Acrylonitrile              | 3.14  | 53   | 401      | 0.30      | ug/l # | 54     |
| 16) Acetone                    | 2.45  | 43   | 2161     | 1.77      | ug/l   | 99     |
| 20) Methylene Chloride         | 2.87  | 84   | 1726     | 0.61      | ug/l # | 86     |
| 29) Tetrahydrofuran            | 5.20  | 42   | 653      | 0.51      | ug/l # | 42     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16862    | 4.19      | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 23661    | 5.25      | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 95762    | 25.27     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 95762    | 69.50     | ug/l # | 11     |

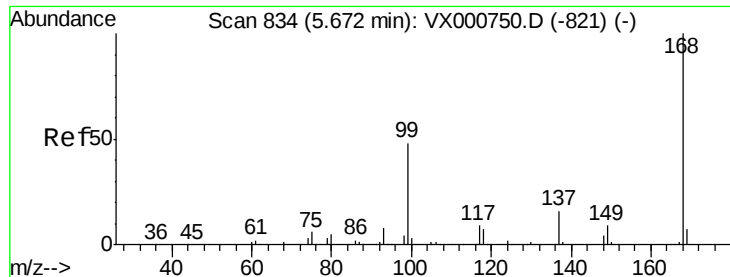
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.01 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampled :

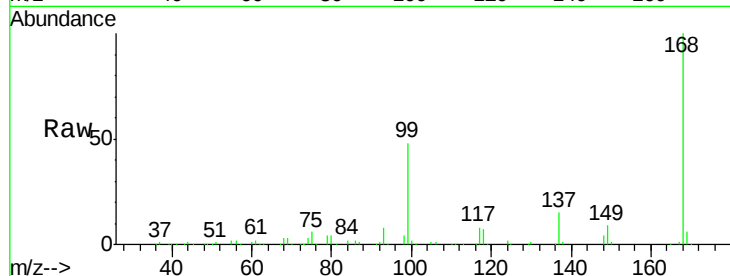
TB-040418

Tgt Ion:168 Resp: 280209

Ion Ratio Lower Upper

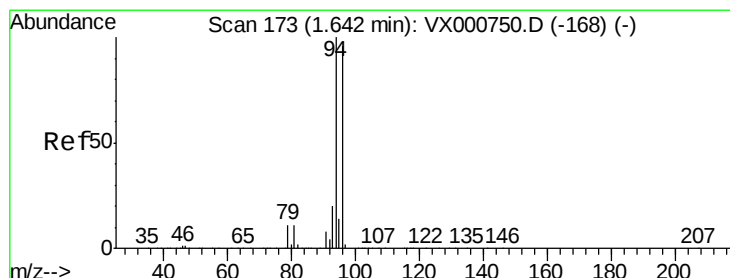
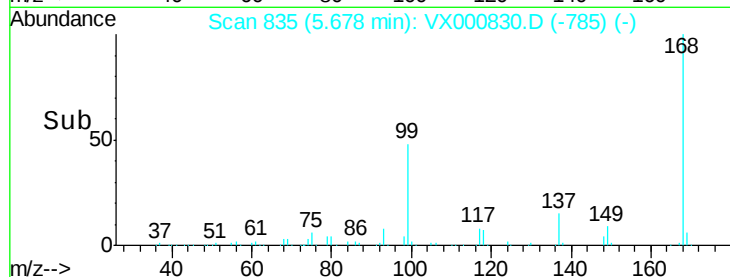
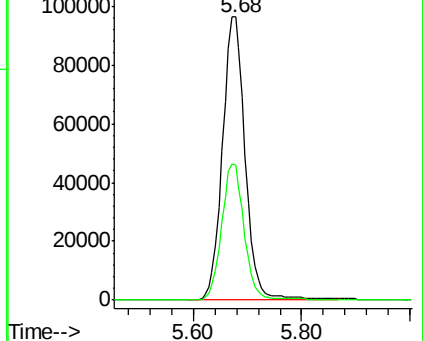
168 100

99 47.9 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: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000830.D

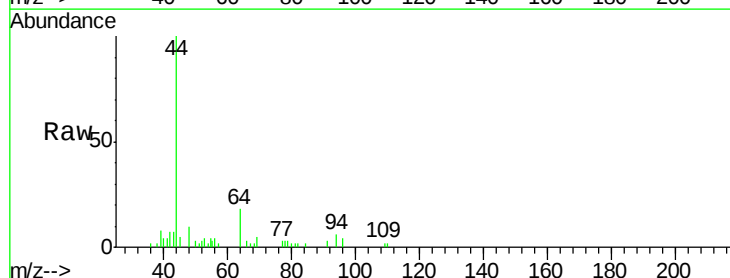
Acq: 13 Apr 2018 04:02

Tgt Ion: 94 Resp: 244

Ion Ratio Lower Upper

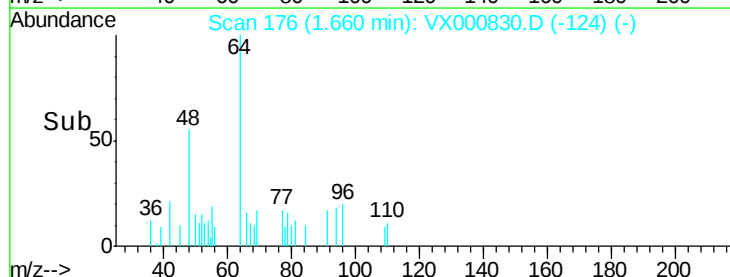
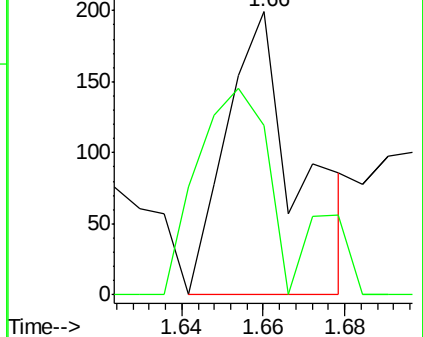
94 100

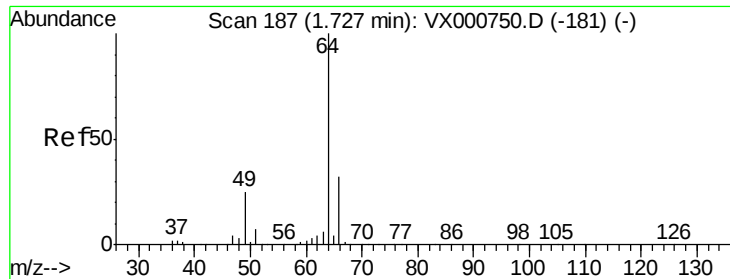
96 31.7 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.35 ug/l

RT: 1.65 min Scan# 174

Delta R.T. -0.08 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampleId :

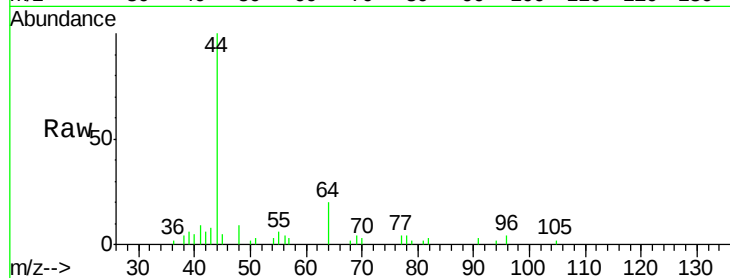
TB-040418

Tgt Ion: 64 Resp: 2501

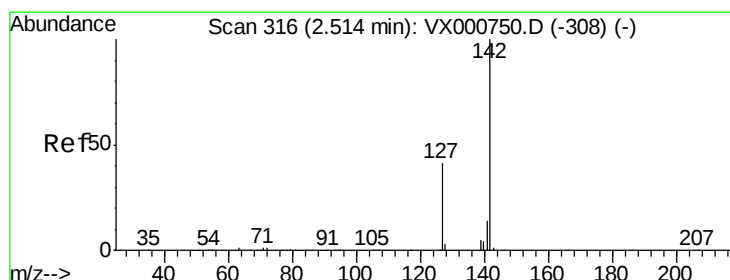
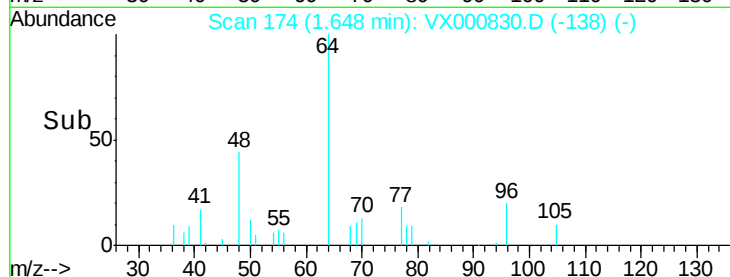
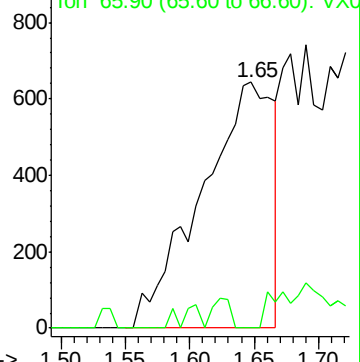
Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX000750.D (-181) (-)



#10

Methyl Iodide

Concen: 8.27 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

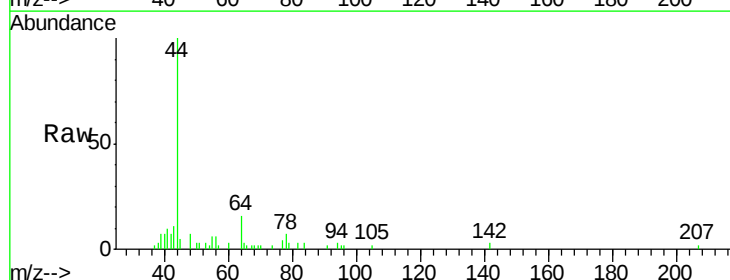
Tgt Ion: 142 Resp: 94

Ion Ratio Lower Upper

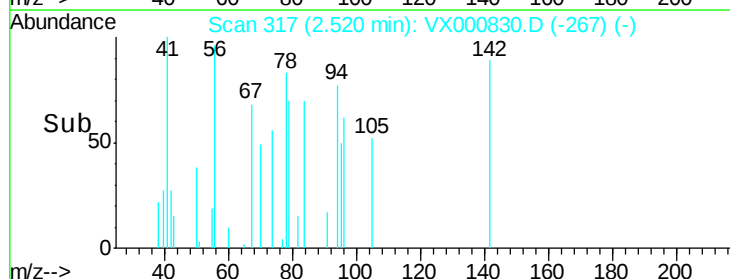
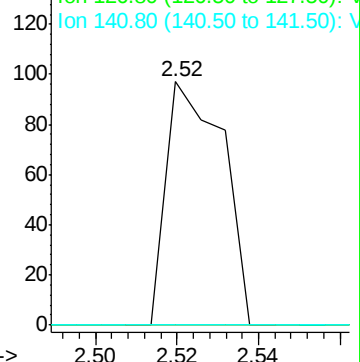
142 100

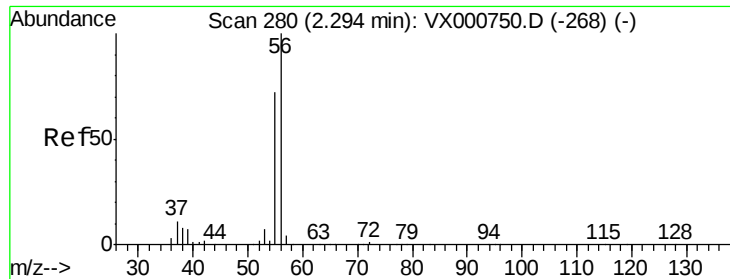
127 0.0 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VX000750.D (-308) (-)





#13

Acrolein

Concen: 0.32 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampled :

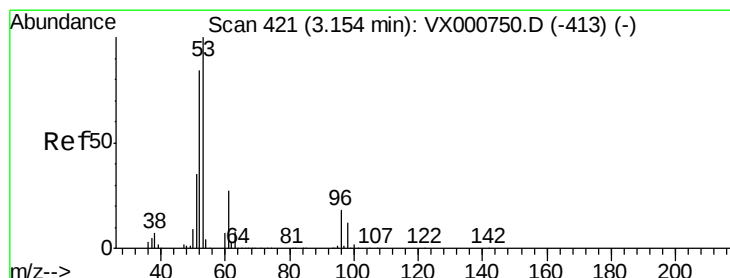
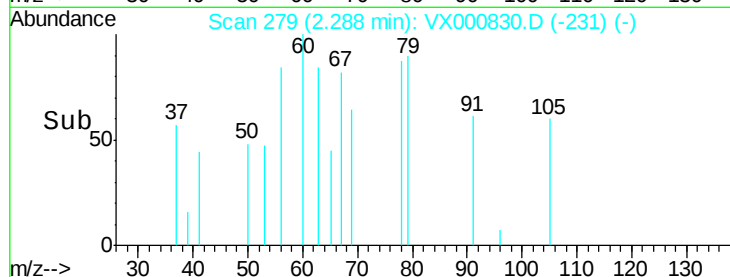
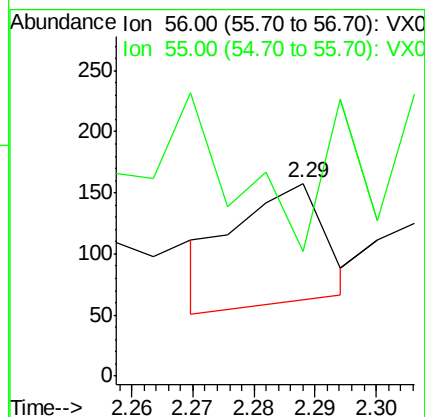
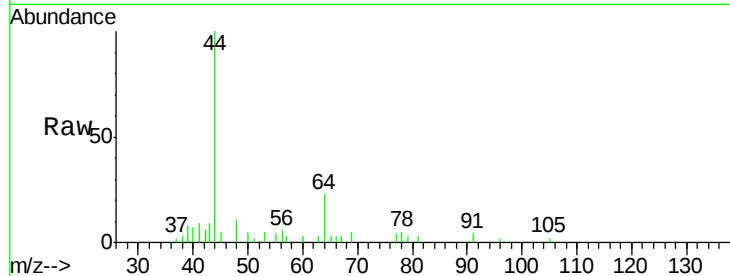
TB-040418

Tgt Ion: 56 Resp: 99

Ion Ratio Lower Upper

56 100

55 183.8 58.7 88.1#



#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

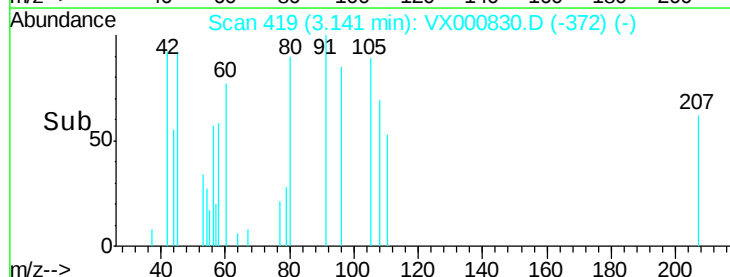
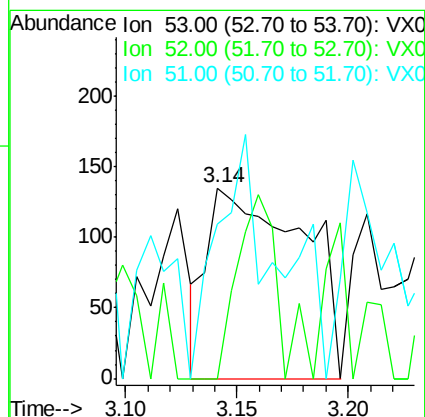
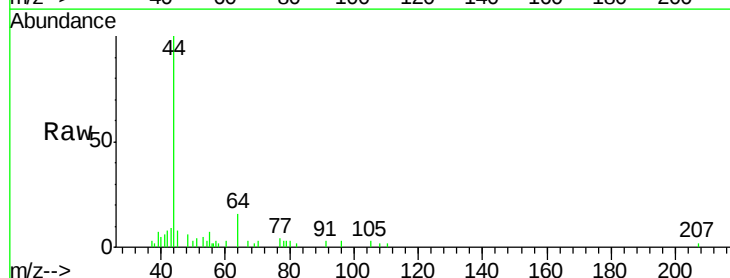
Tgt Ion: 53 Resp: 401

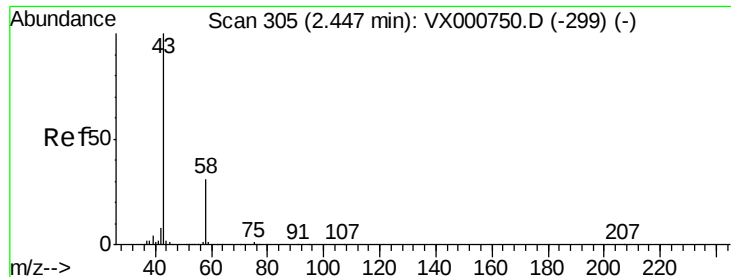
Ion Ratio Lower Upper

53 100

52 41.6 66.5 99.7#

51 63.8 28.8 43.2#





#16

Acetone

Concen: 1.77 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampled :

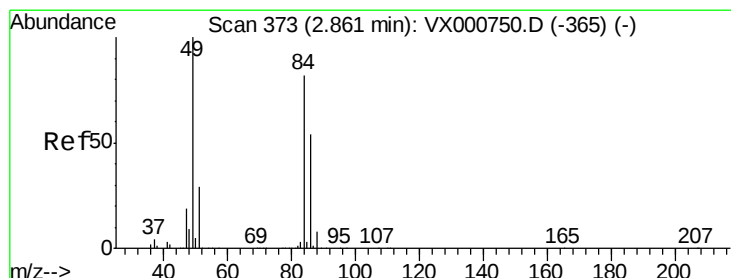
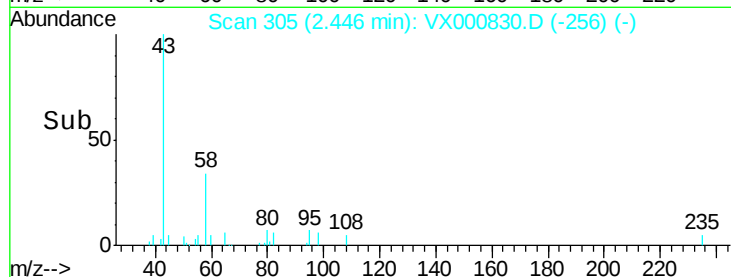
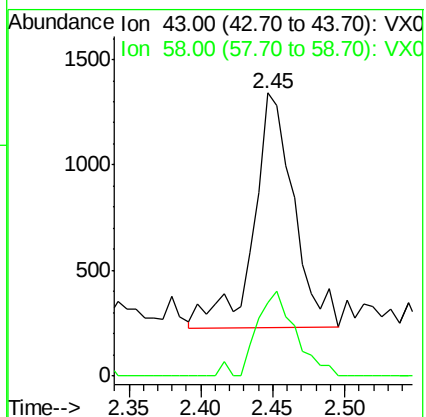
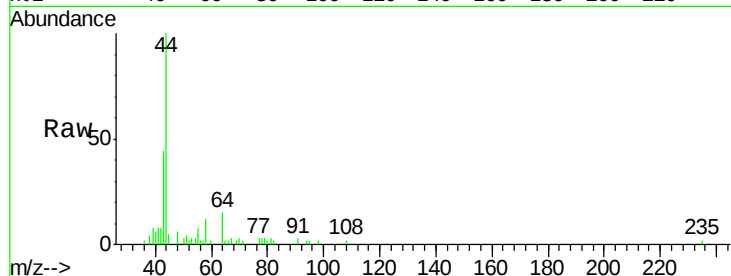
TB-040418

Tgt Ion: 43 Resp: 2161

Ion Ratio Lower Upper

43 100

58 31.6 24.6 37.0



#20

Methylene Chloride

Concen: 0.61 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Tgt Ion: 84 Resp: 1726

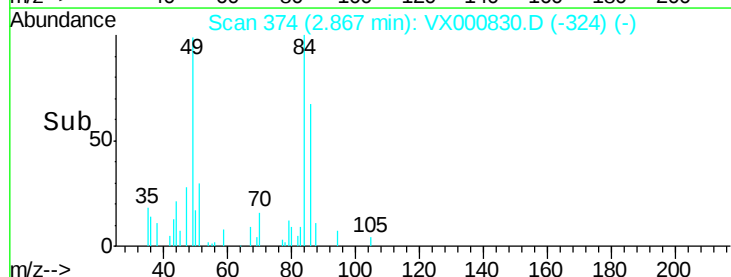
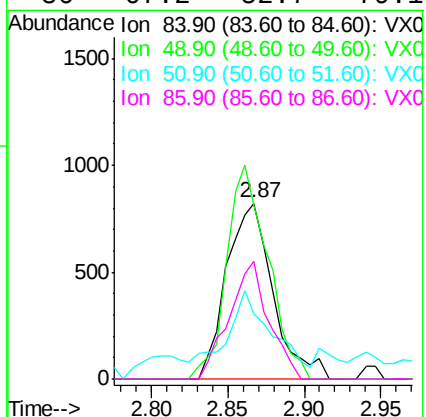
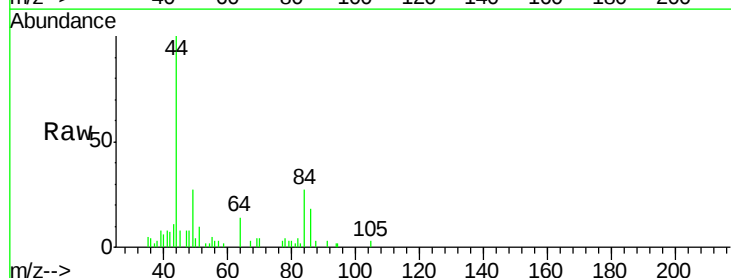
Ion Ratio Lower Upper

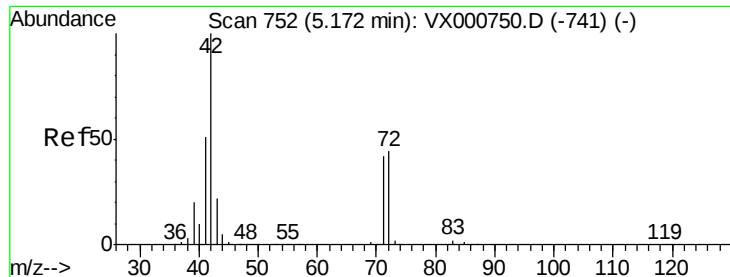
84 100

49 99.3 98.1 147.1

51 27.4 28.9 43.3#

86 67.2 52.7 79.1

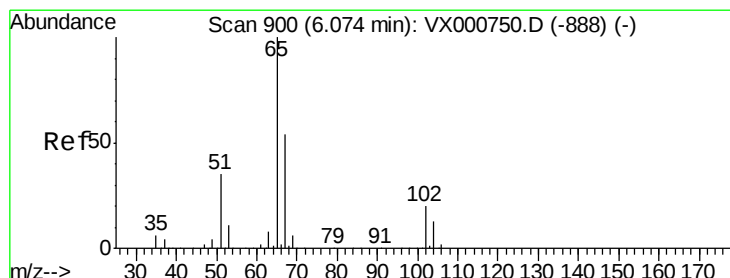
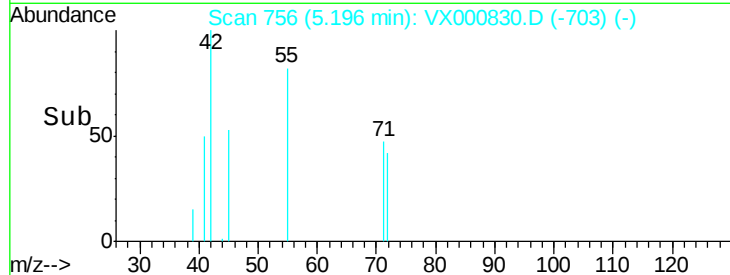
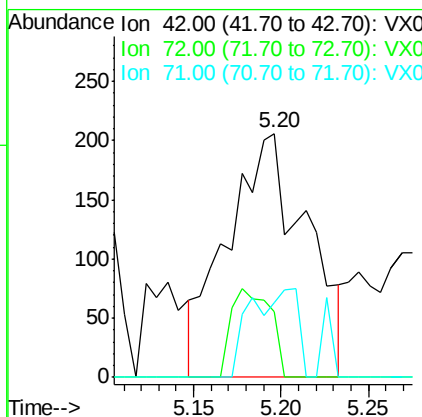
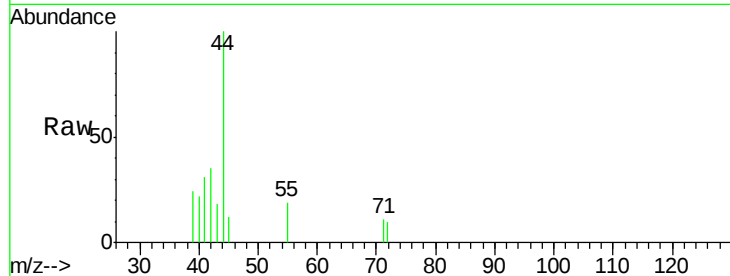




#29  
 Tetrahydrofuran  
 Concen: 0.51 ug/l  
 RT: 5.20 min Scan# 756  
 Delta R.T. 0.02 min  
 Lab File: VX000830.D  
 Acq: 13 Apr 2018 04:02

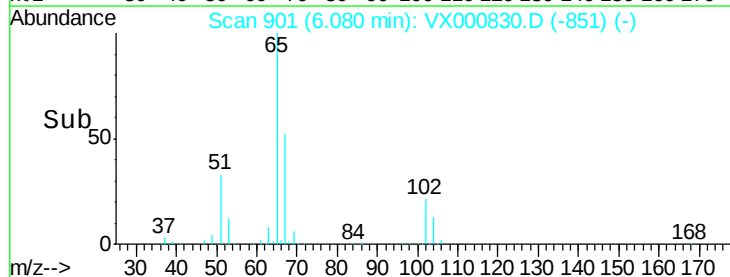
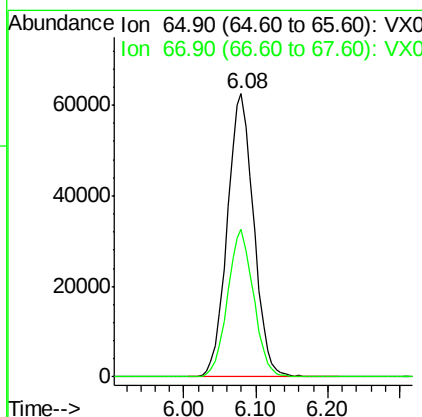
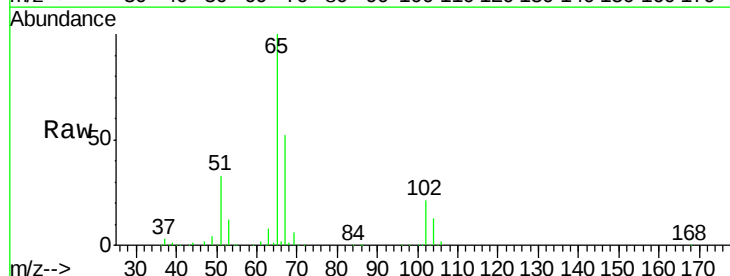
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TB-040418

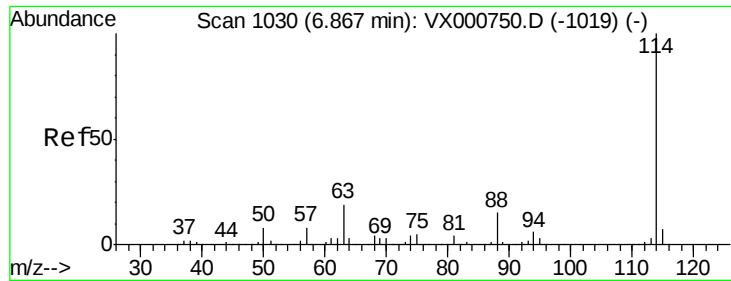
Tgt Ion: 42 Resp: 653  
 Ion Ratio Lower Upper  
 42 100  
 72 0.0 35.1 52.7#  
 71 11.9 32.8 49.2#



#33  
 1,2-Dichloroethane-d4  
 Concen: 45.15 ug/l  
 RT: 6.08 min Scan# 901  
 Delta R.T. 0.01 min  
 Lab File: VX000830.D  
 Acq: 13 Apr 2018 04:02

Tgt Ion: 65 Resp: 159537  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 103.8

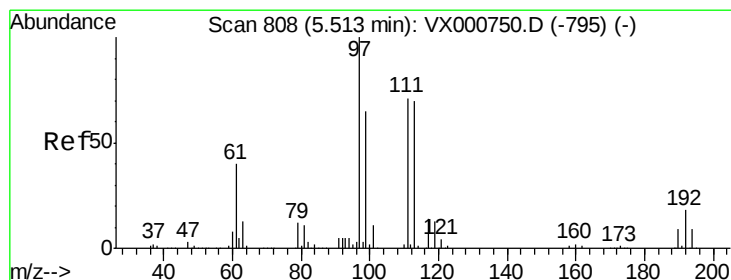
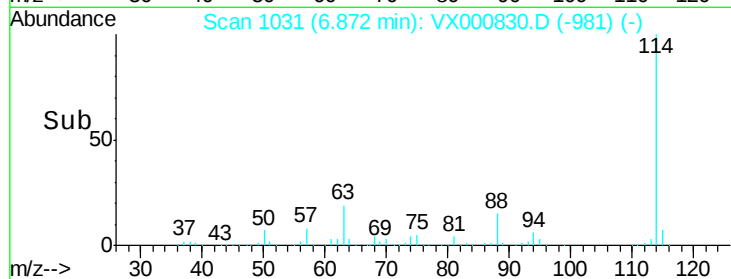
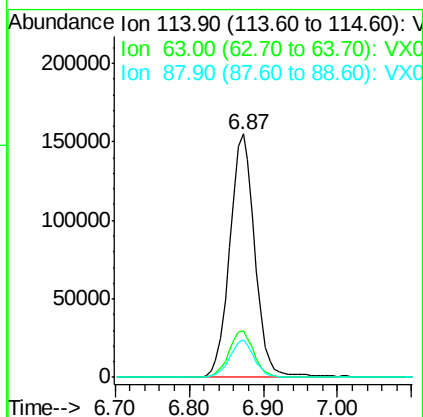
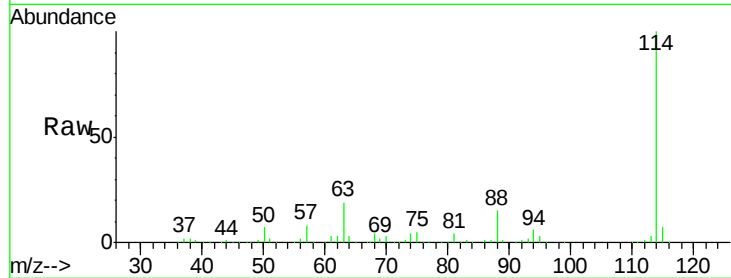




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX000830.D  
 Acq: 13 Apr 2018 04:02

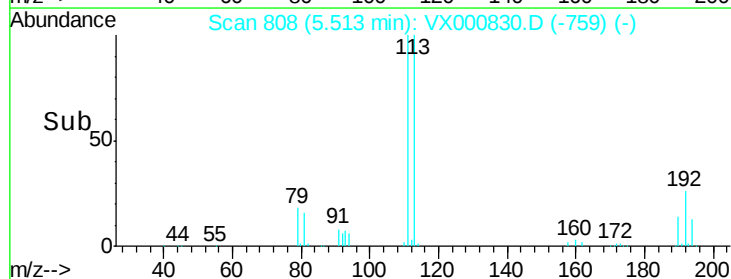
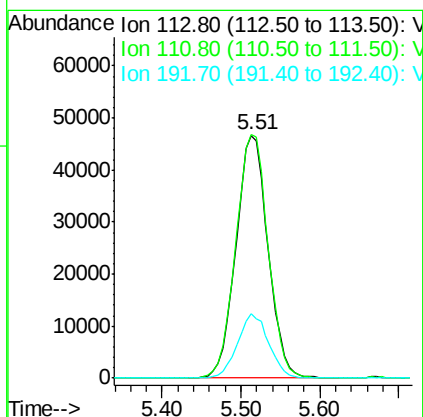
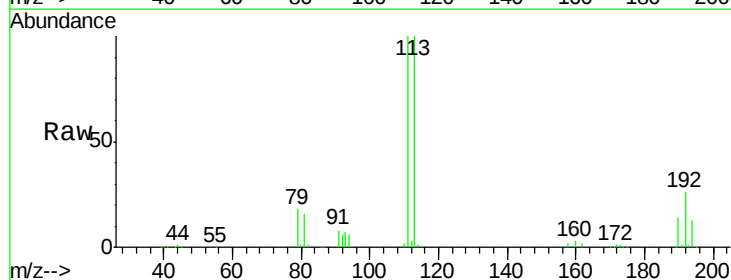
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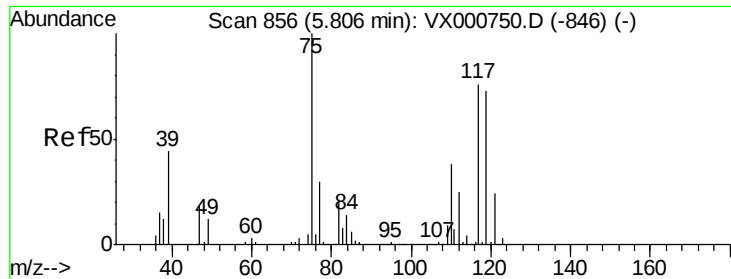
Tgt Ion:114 Resp: 365541  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 38.4  
 88 15.3 0.0 31.0



#35  
 Dibromofluoromethane  
 Concen: 46.72 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX000830.D  
 Acq: 13 Apr 2018 04:02

Tgt Ion:113 Resp: 131572  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 81.5 122.3  
 192 25.9 20.4 30.6





#36

1,1-Dichloropropene

Concen: 4.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampleId :

TB-040418

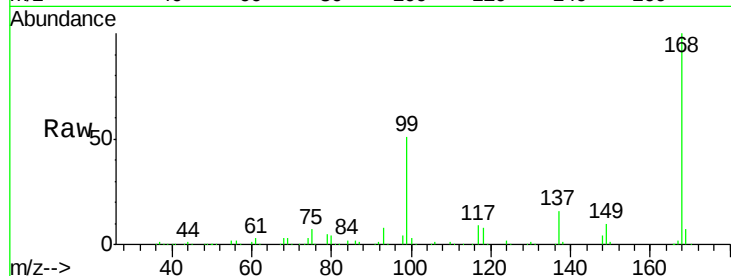
Tgt Ion: 75 Resp: 16862

Ion Ratio Lower Upper

75 100

110 9.1 19.2 57.6#

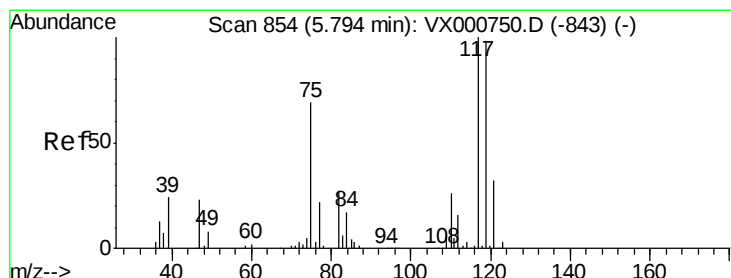
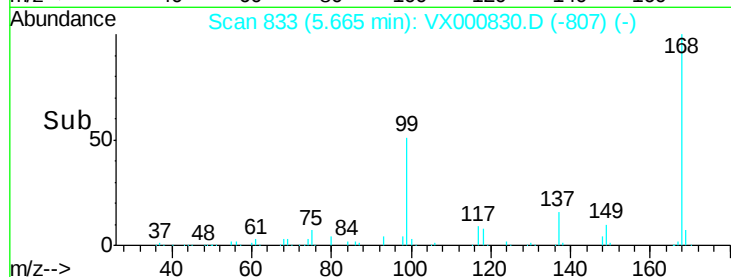
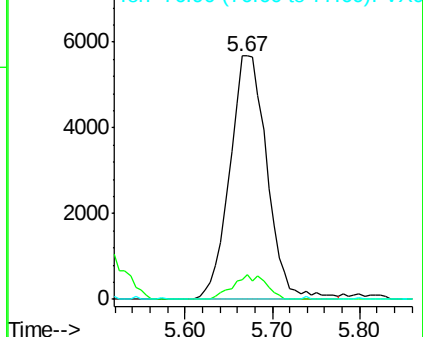
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.25 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

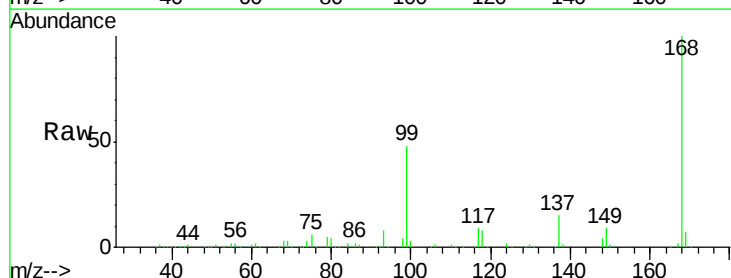
Tgt Ion: 117 Resp: 23661

Ion Ratio Lower Upper

117 100

119 4.4 78.4 117.6#

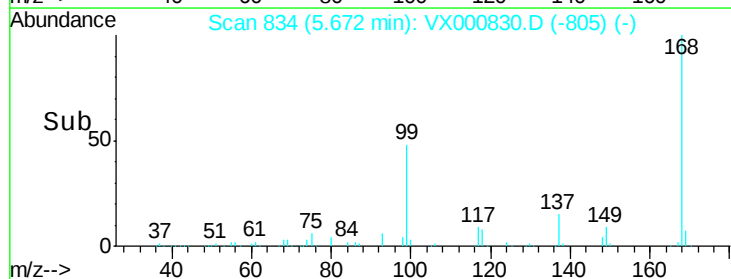
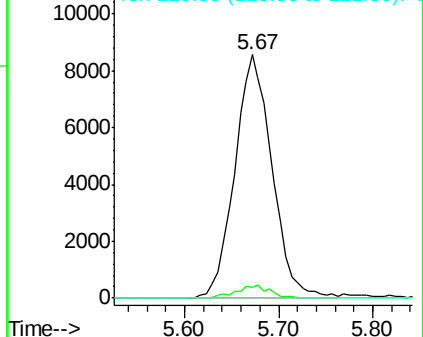
121 0.0 25.4 38.0#

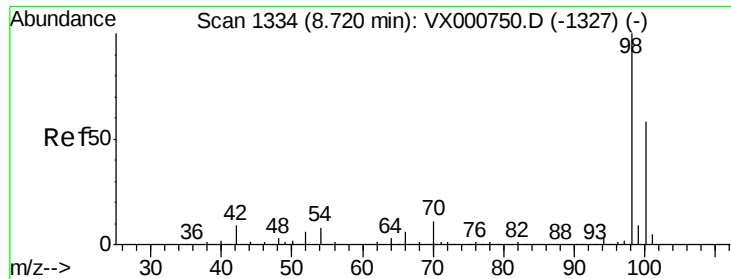


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.02 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampleId :

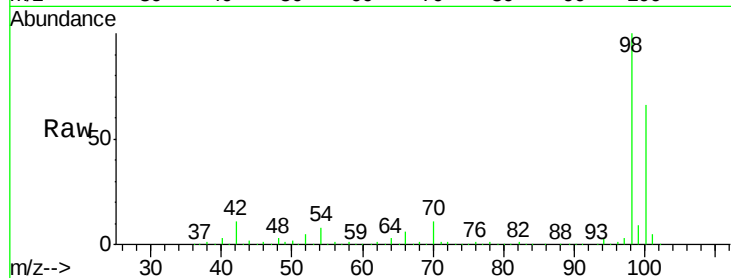
TB-040418

Tgt Ion: 98 Resp: 503508

Ion Ratio Lower Upper

98 100

100 64.9 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX000830.D (-1285) (-)

Ion 100.00 (99.70 to 100.70): VX000830.D (-1285) (-)

8.73

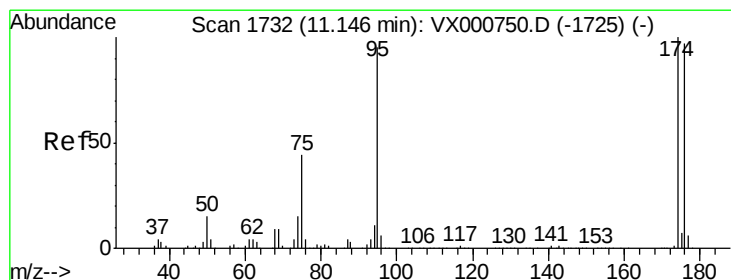
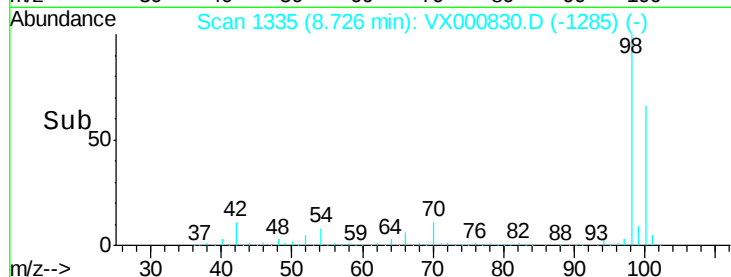
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.24 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

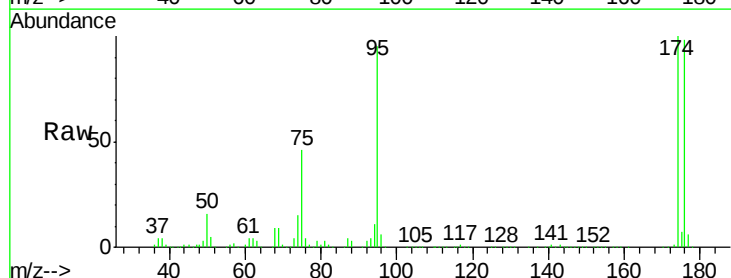
Tgt Ion: 95 Resp: 196270

Ion Ratio Lower Upper

95 100

174 98.8 0.0 198.4

176 96.2 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000830.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000830.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000830.D (-1683) (-)

11.15

200000

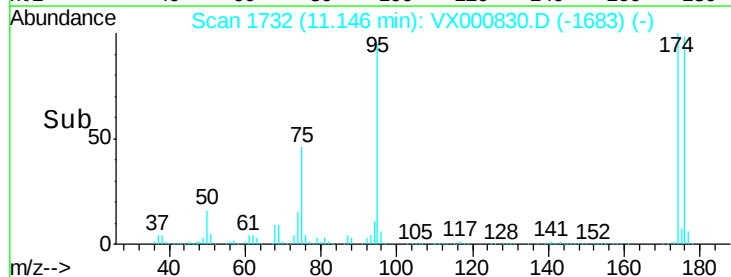
150000

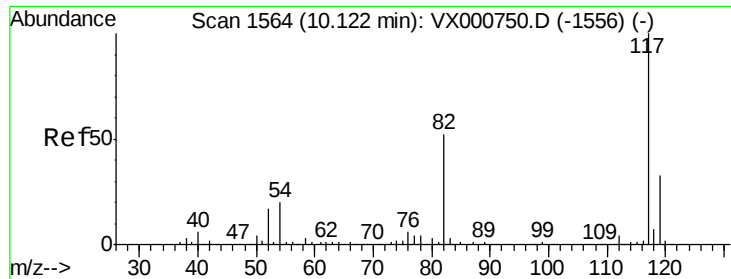
100000

50000

0

Time-->

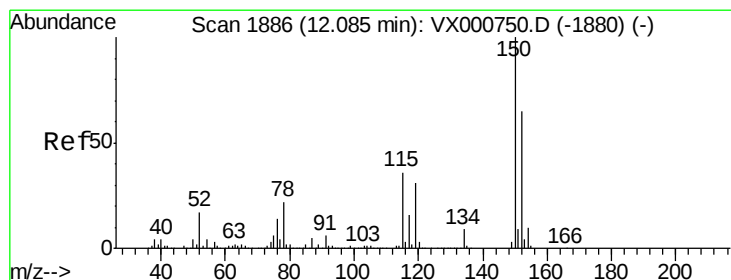
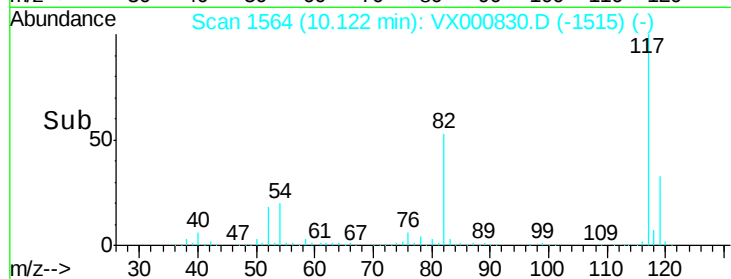
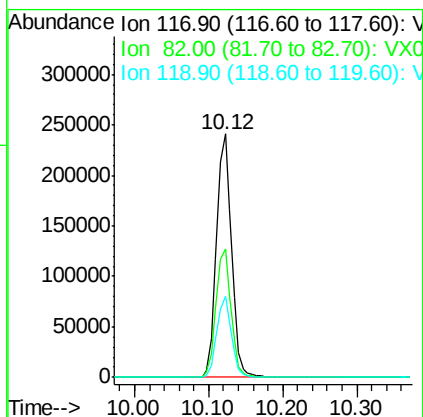
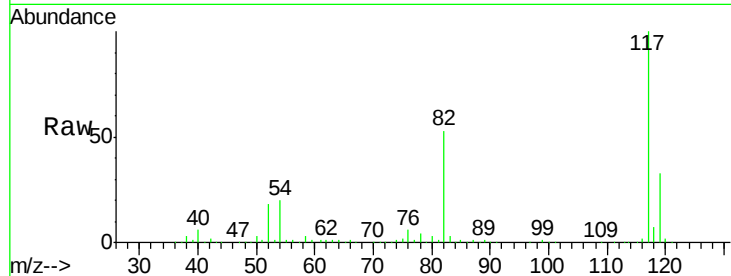




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000830.D  
Acq: 13 Apr 2018 04:02

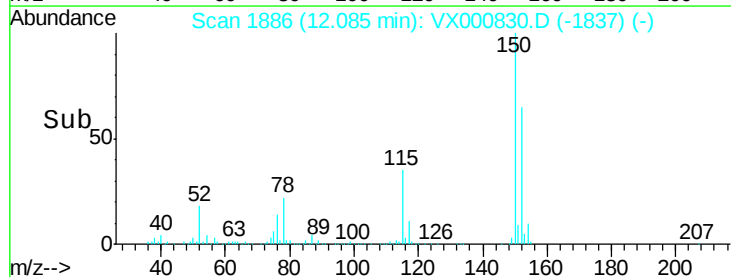
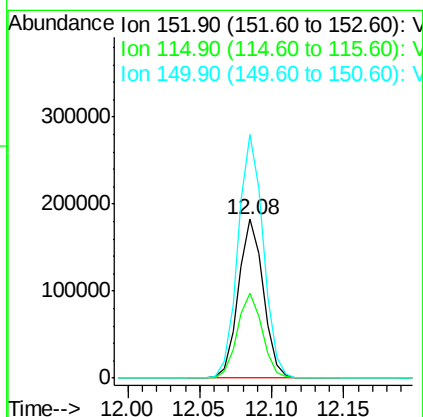
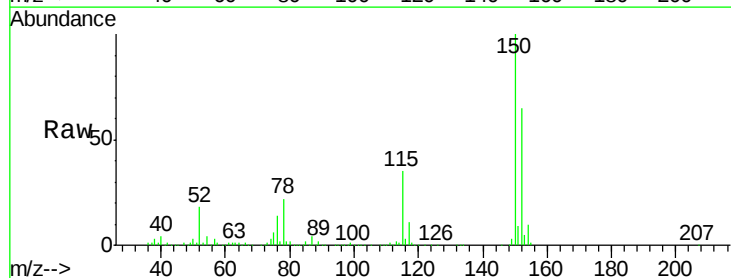
Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-040418

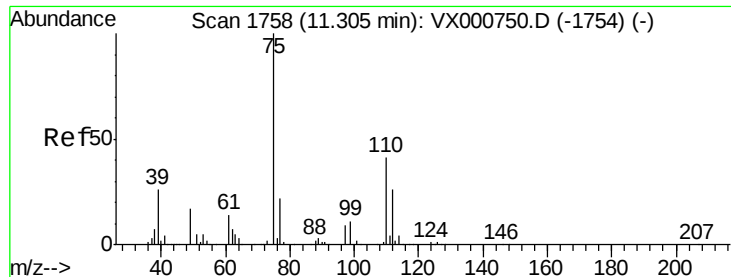
Tgt Ion:117 Resp: 333687  
Ion Ratio Lower Upper  
117 100  
82 52.6 41.9 62.9  
119 33.3 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000830.D  
Acq: 13 Apr 2018 04:02

Tgt Ion:152 Resp: 219764  
Ion Ratio Lower Upper  
152 100  
115 53.5 37.9 113.7  
150 155.3 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 25.27 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

Instrument :

MSVOA\_X

ClientSampled :

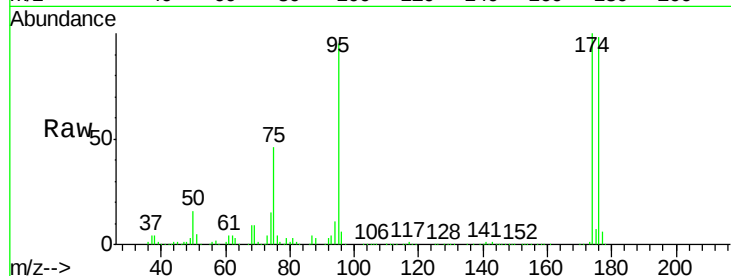
TB-040418

Tgt Ion: 75 Resp: 95762

Ion Ratio Lower Upper

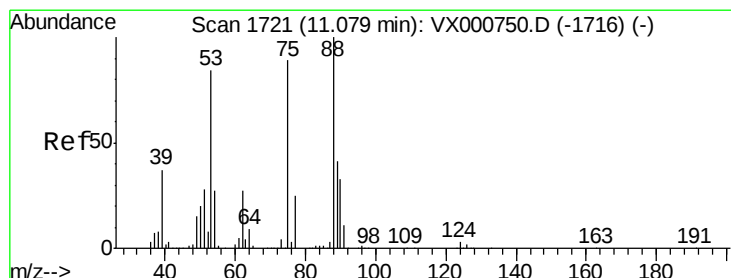
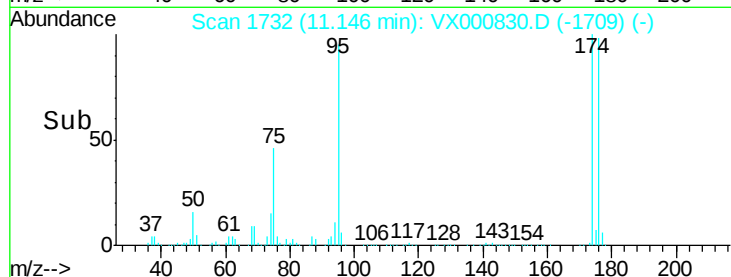
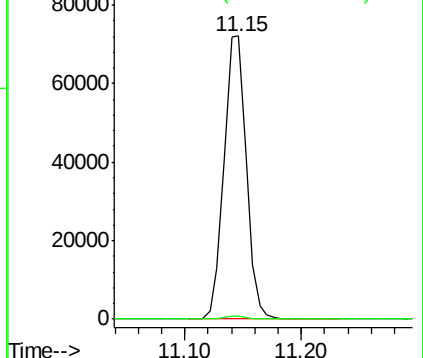
75 100

77 1.2 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: 69.50 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000830.D

Acq: 13 Apr 2018 04:02

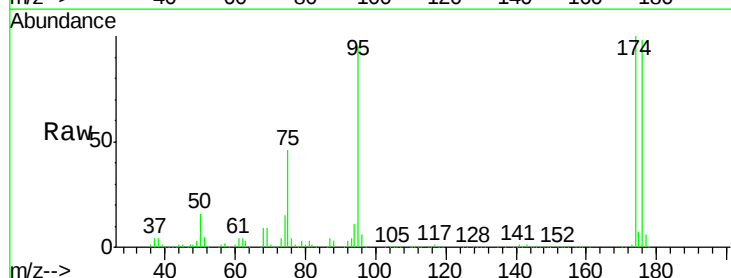
Tgt Ion: 75 Resp: 95762

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#



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

