

Data File : VX002972.D  
Acq On : 28 Jun 2018 07:57  
Operator : JC/MD  
Sample : J3691-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
W-17

Quant Time: Jul 04 03:39:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 25 14:38:05 2018  
Response via : Initial Calibration

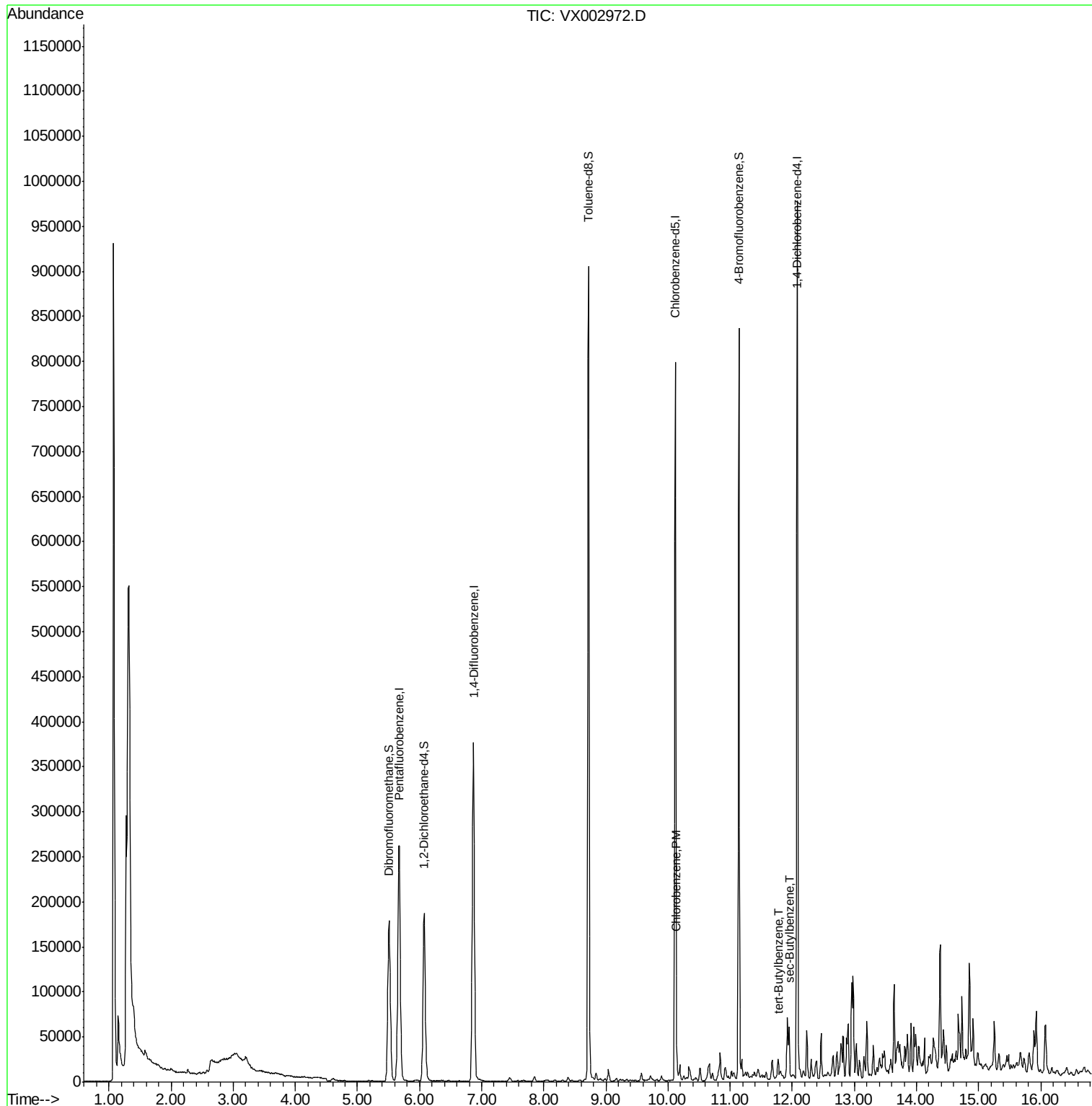
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 266270   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.87  | 114  | 373762   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.12 | 117  | 352185   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 205032   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 179854   | 48.87 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.74% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 147273   | 49.76 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.52% |          |
| 50) Toluene-d8              | 8.72  | 98   | 525232   | 48.59 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.18% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 190632   | 45.73 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.46% |          |
| Target Compounds            |       |      |          |       |        |          |
| 65) Chlorobenzene           | 10.14 | 112  | 5921     | 0.662 | ug/l   | 96       |
| 83) tert-Butylbenzene       | 11.77 | 119  | 7184     | 0.627 | ug/l   | 83       |
| 85) sec-Butylbenzene        | 11.95 | 105  | 27012    | 1.945 | ug/l # | 56       |

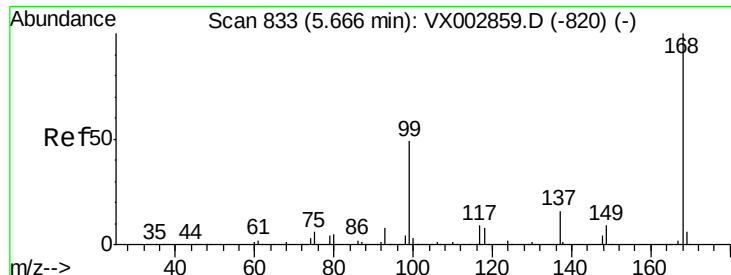
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

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Instrument :

MSVOA\_X

ClientSampled :

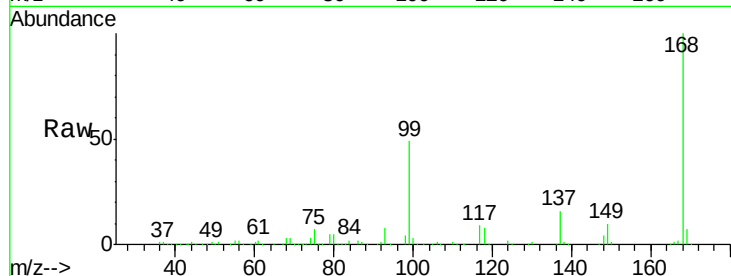
W-17

Tgt Ion:168 Resp: 266270

Ion Ratio Lower Upper

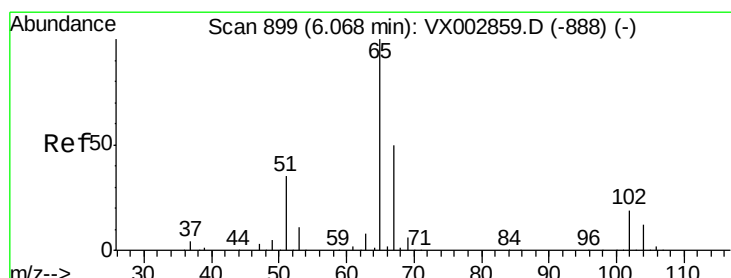
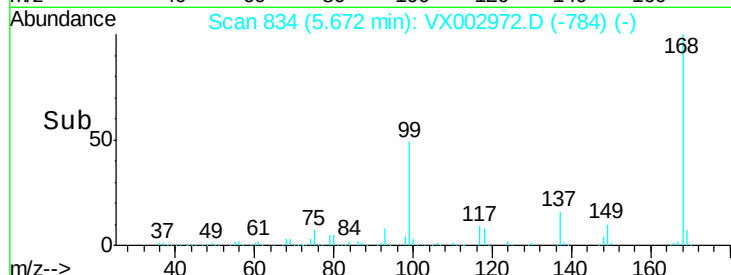
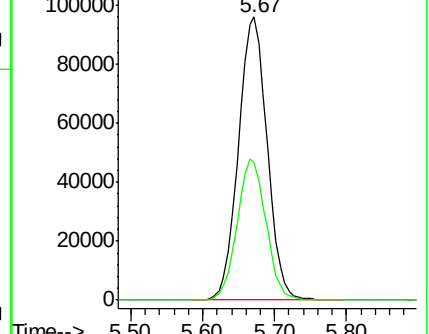
168 100

99 48.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.868 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002972.D

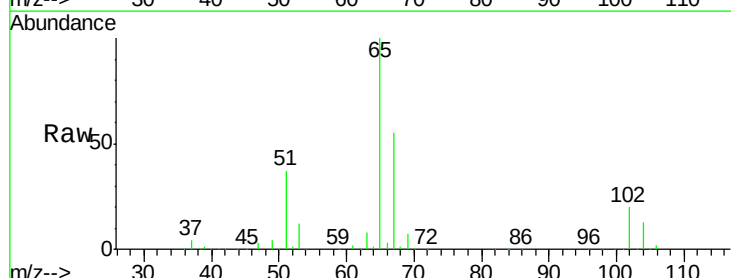
Acq: 28 Jun 2018 07:57

Tgt Ion: 65 Resp: 179854

Ion Ratio Lower Upper

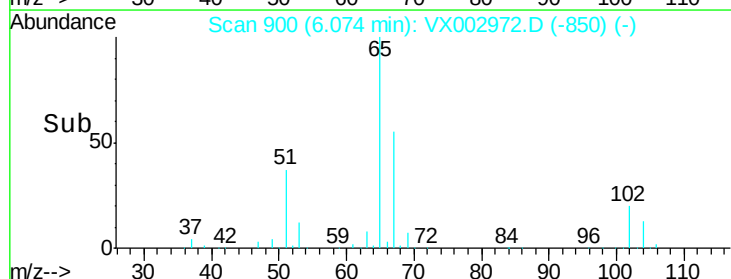
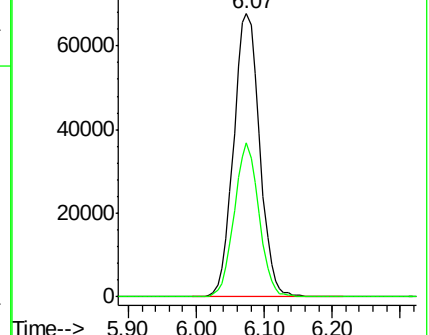
65 100

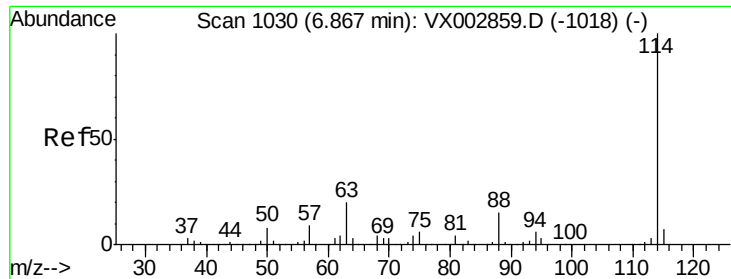
67 51.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002972.D

Acq: 28 Jun 2018 07:57

Instrument :

MSVOA\_X

ClientSampleId :

W-17

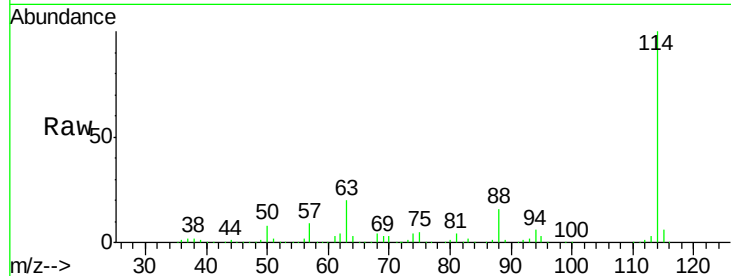
Tgt Ion:114 Resp: 373762

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

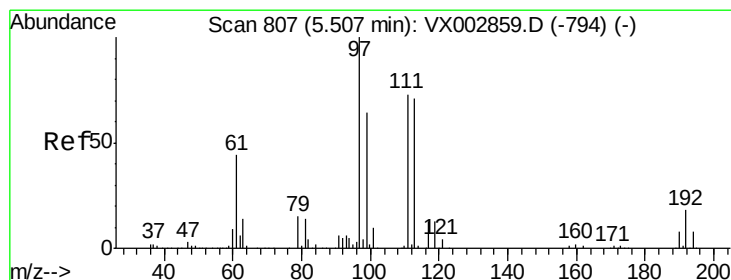
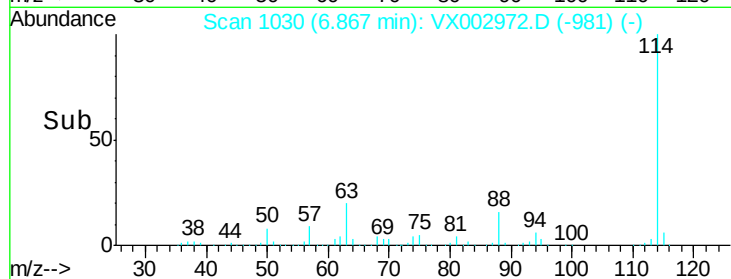
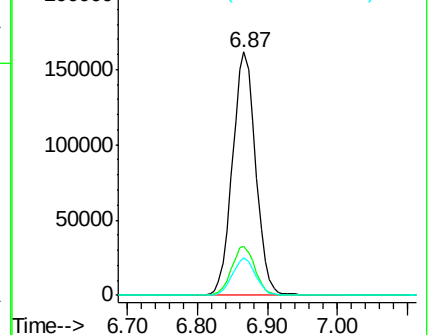
88 15.5 0.0 30.0



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: 49.757 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002972.D

Acq: 28 Jun 2018 07:57

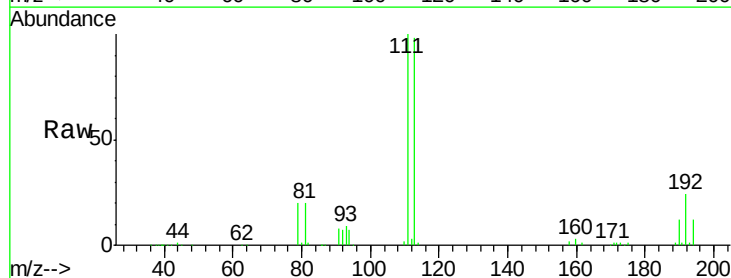
Tgt Ion:113 Resp: 147273

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

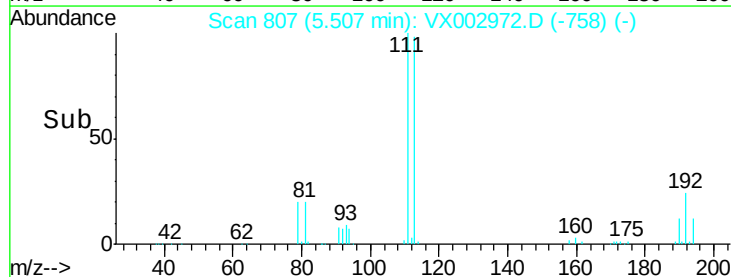
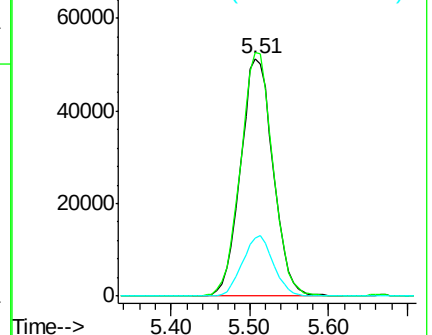
192 24.2 19.1 28.7

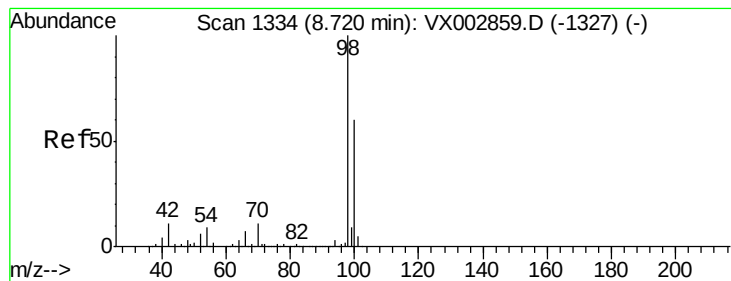


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 48.594 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002972.D

Acq: 28 Jun 2018 07:57

Instrument :

MSVOA\_X

ClientSampleId :

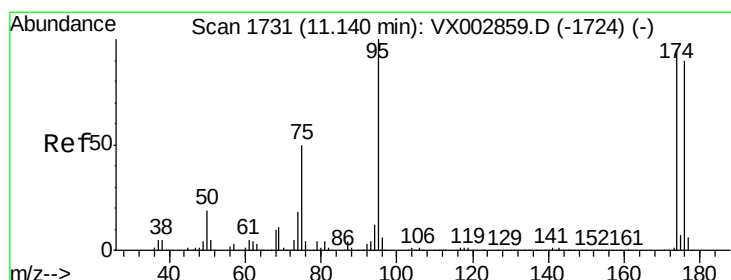
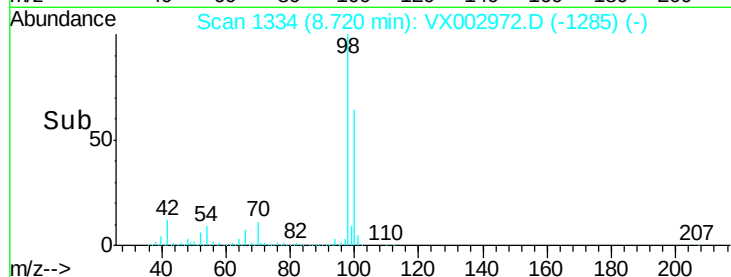
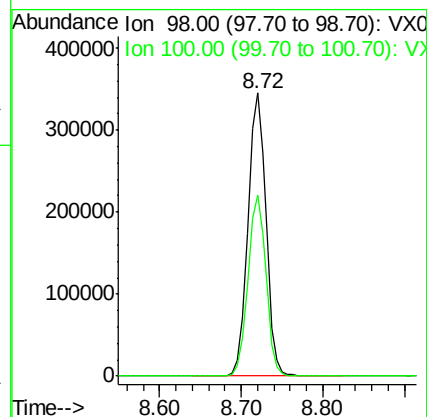
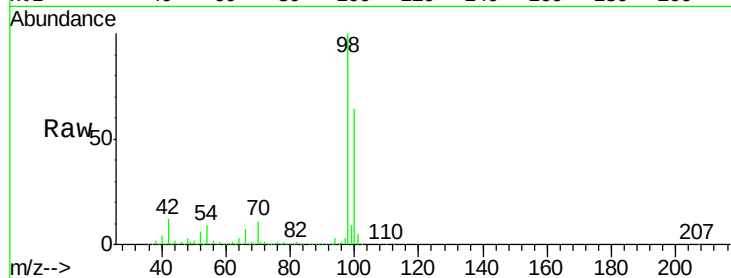
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Tgt Ion: 98 Resp: 525232

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3



#62

4-Bromofluorobenzene

Concen: 45.732 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002972.D

Acq: 28 Jun 2018 07:57

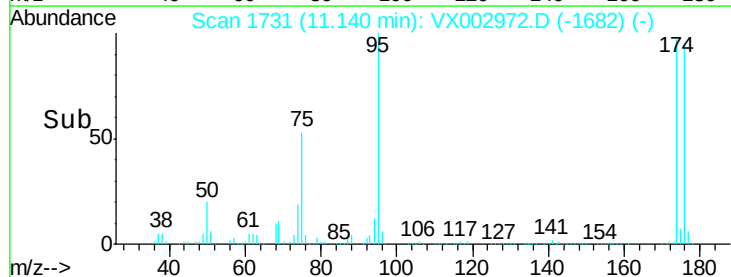
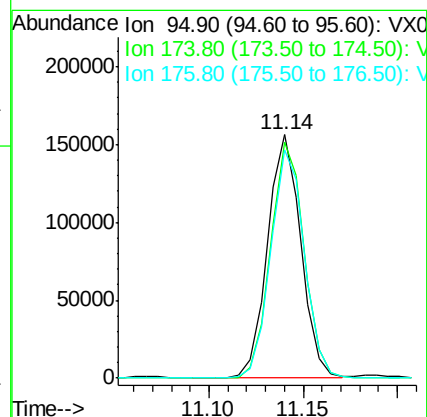
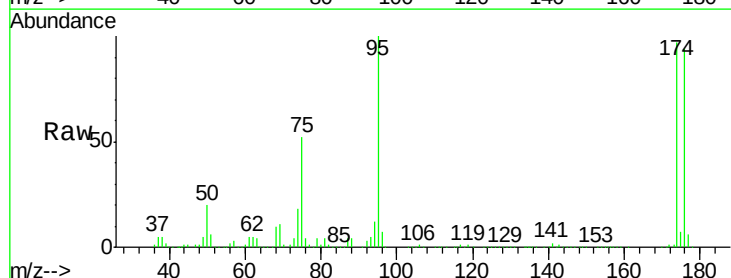
Tgt Ion: 95 Resp: 190632

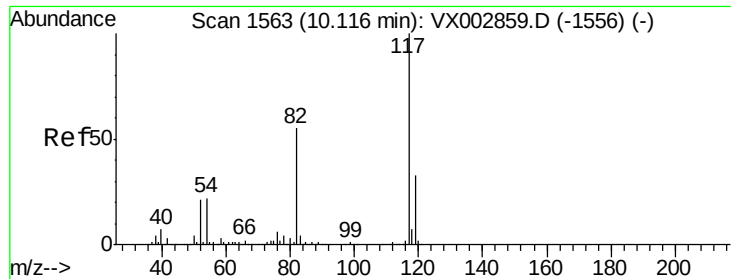
Ion Ratio Lower Upper

95 100

174 97.6 0.0 187.4

176 95.1 0.0 181.0

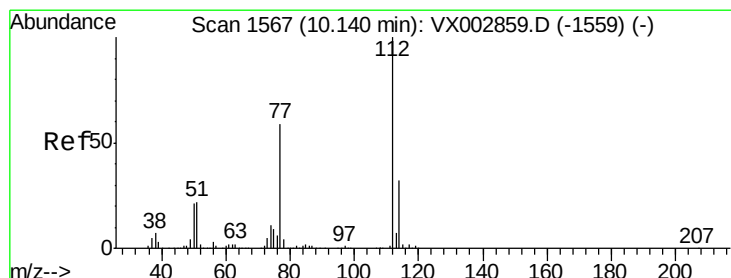
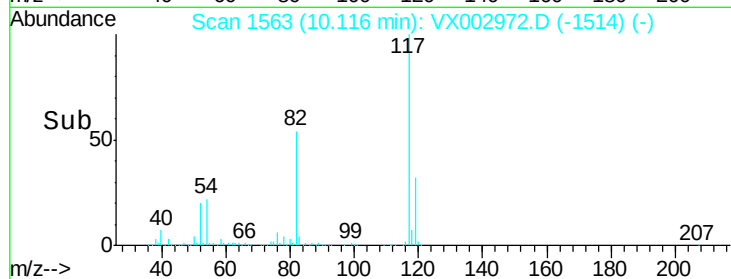
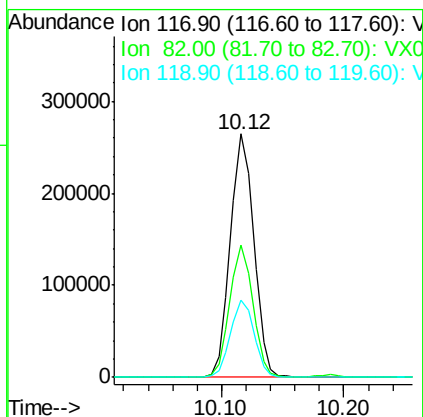
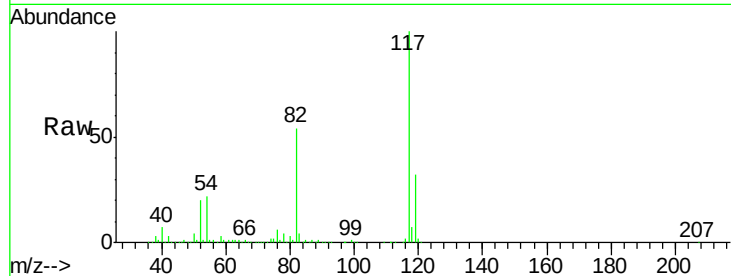




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002972.D  
Acq: 28 Jun 2018 07:57

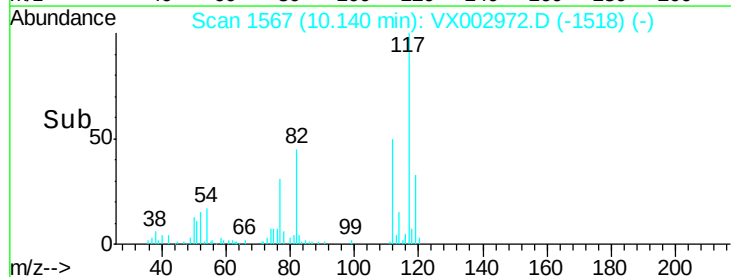
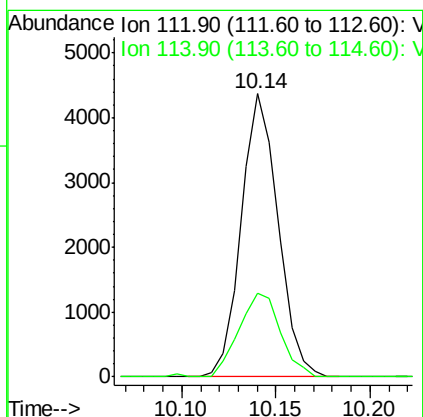
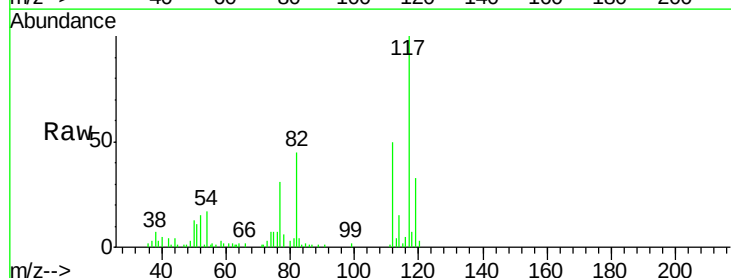
Instrument :  
MSVOA\_X  
ClientSampleId :  
W-17

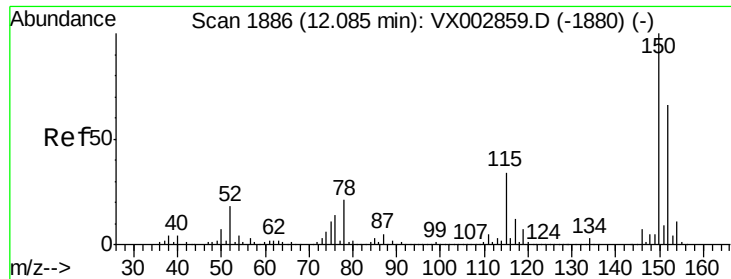
Tgt Ion:117 Resp: 352185  
Ion Ratio Lower Upper  
117 100  
82 54.4 45.0 67.4  
119 31.5 25.8 38.6



#65  
Chlorobenzene  
Concen: 0.662 ug/l  
RT: 10.14 min Scan# 1567  
Delta R.T. -0.00 min  
Lab File: VX002972.D  
Acq: 28 Jun 2018 07:57

Tgt Ion:112 Resp: 5921  
Ion Ratio Lower Upper  
112 100  
114 29.5 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002972.D

Acq: 28 Jun 2018 07:57

Instrument :

MSVOA\_X

ClientSampleId :

W-17

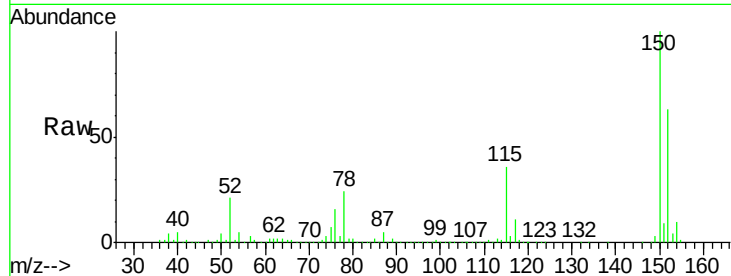
Tgt Ion:152 Resp: 205032

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

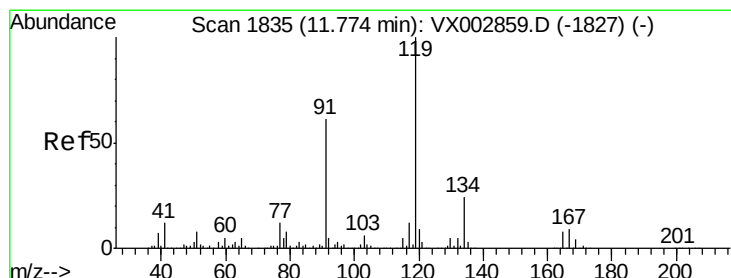
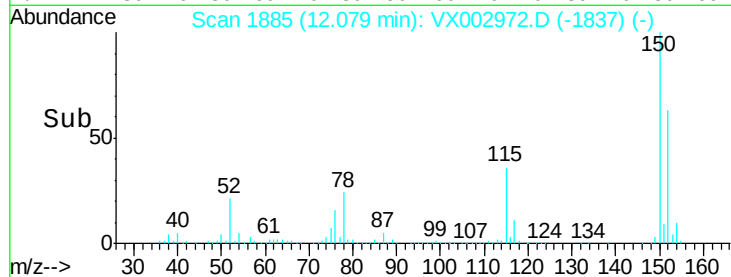
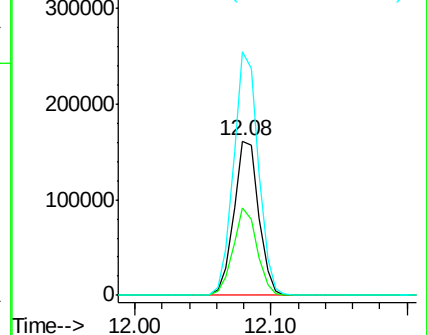
150 156.6 0.0 347.2



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



#83

tert-Butylbenzene

Concen: 0.627 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX002972.D

Acq: 28 Jun 2018 07:57

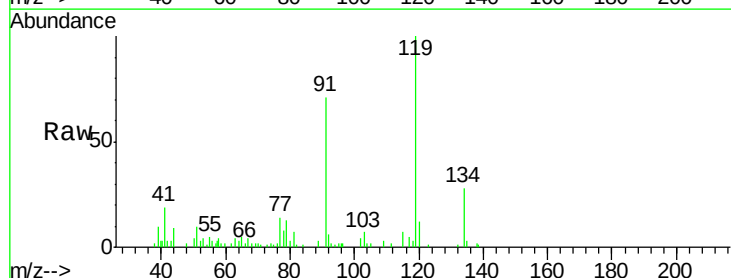
Tgt Ion:119 Resp: 7184

Ion Ratio Lower Upper

119 100

91 77.1 30.3 90.9

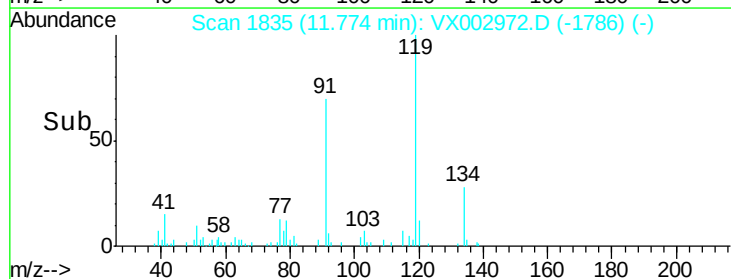
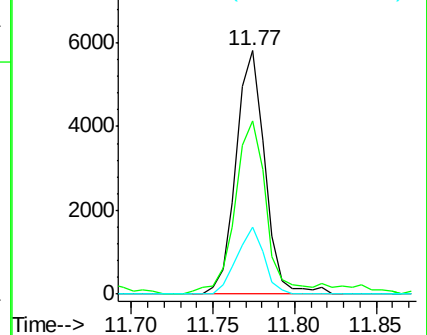
134 26.0 11.7 35.1

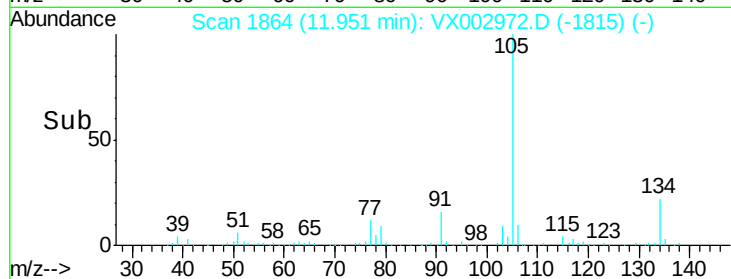
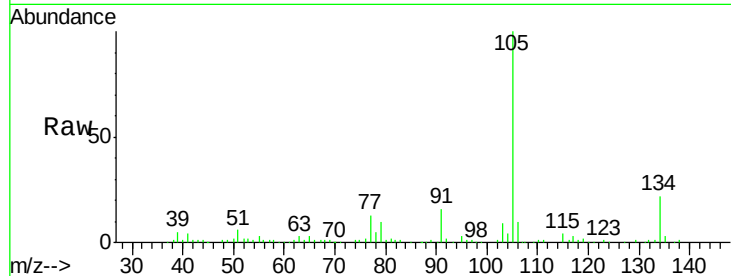
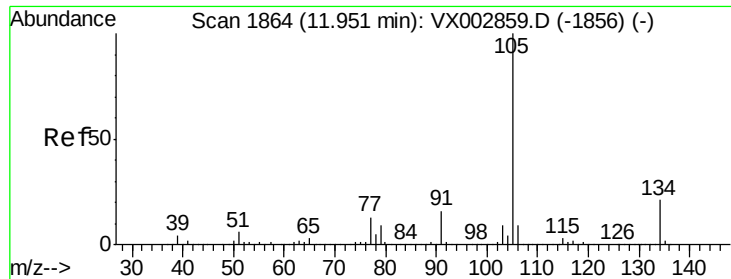


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V





#85  
 sec-Butylbenzene  
 Concen: 1.945 ug/l  
 RT: 11.95 min Scan# 1864  
 Delta R.T. -0.00 min  
 Lab File: VX002972.D  
 Acq: 28 Jun 2018 07:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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Tgt Ion:105 Resp: 27012  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.4 31.1#

