

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101718\  
 Data File : VX005392.D  
 Acq On : 17 Oct 2018 15:48  
 Operator : JC/MD  
 Sample : J5571-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP

Quant Time: Oct 30 03:37:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 289681   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 408414   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 372117   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 191802   | 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   | 159411   | 49.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.16%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 129394   | 47.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.66%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 498550   | 53.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.38% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 173212   | 49.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.30%  |          |

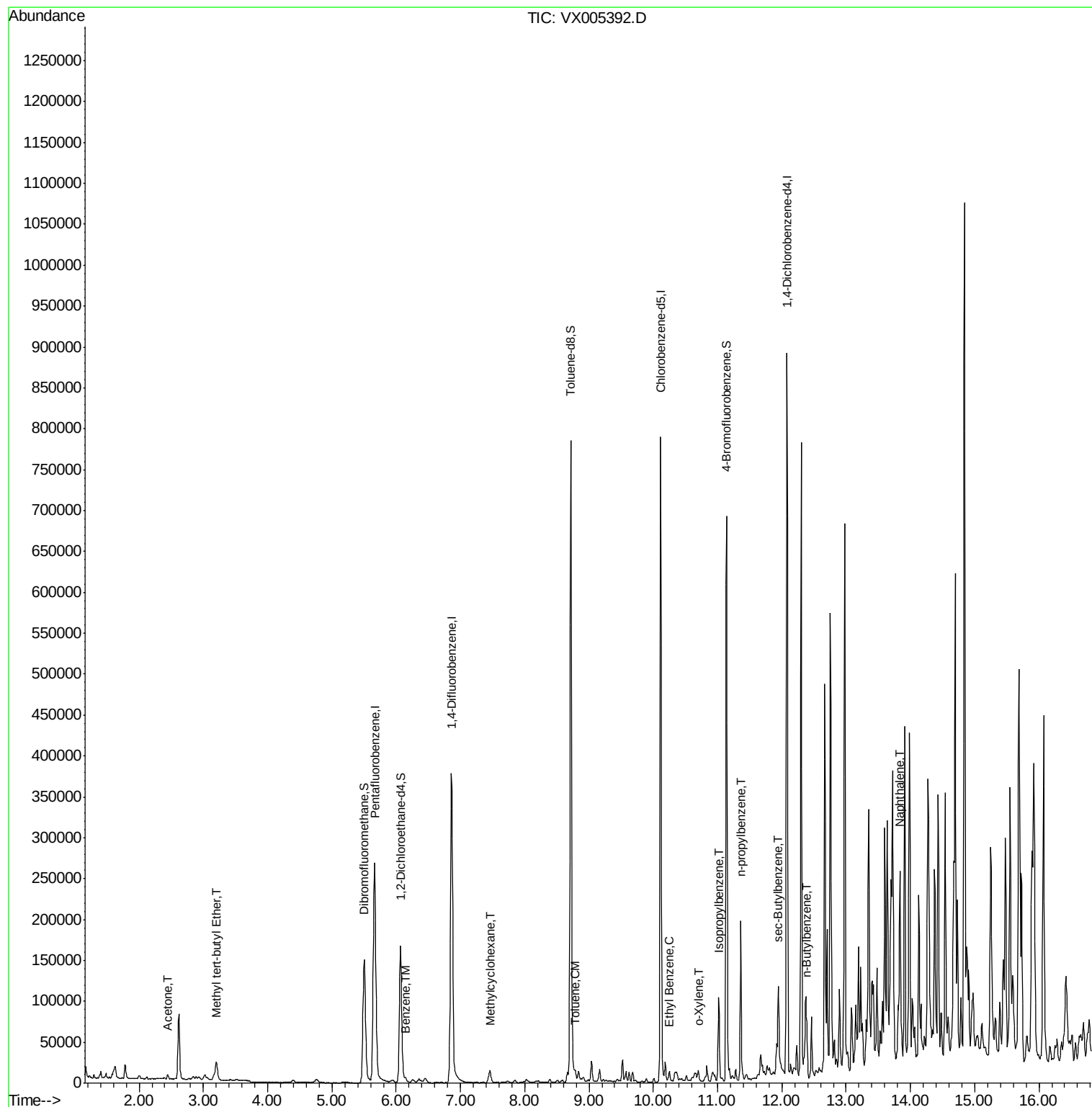
| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                 | 2.44  | 43   | 5873     | 3.159  | ug/l # | 86     |
| 19) Methyl tert-butyl Ether | 3.20  | 73   | 23047    | 2.579  | ug/l   | 95     |
| 39) Methylcyclohexane       | 7.46  | 83   | 5514     | 1.288  | ug/l # | 64     |
| 40) Benzene                 | 6.15  | 78   | 5474     | 0.461  | ug/l # | 84     |
| 52) Toluene                 | 8.79  | 92   | 2250     | 0.347  | ug/l   | 84     |
| 67) Ethyl Benzene           | 10.25 | 91   | 6017     | 0.468  | ug/l   | 97     |
| 69) o-Xylene                | 10.70 | 106  | 2564     | 0.532  | ug/l   | 99     |
| 73) Isopropylbenzene        | 11.02 | 105  | 48282    | 4.234  | ug/l   | 99     |
| 78) n-propylbenzene         | 11.36 | 91   | 116578   | 8.885  | ug/l   | 99     |
| 85) sec-Butylbenzene        | 11.94 | 105  | 54029    | 4.617  | ug/l   | 85     |
| 89) n-Butylbenzene          | 12.39 | 91   | 30554    | 3.182  | ug/l # | 72     |
| 95) Naphthalene             | 13.83 | 128  | 137612   | 10.403 | ug/l # | 94     |

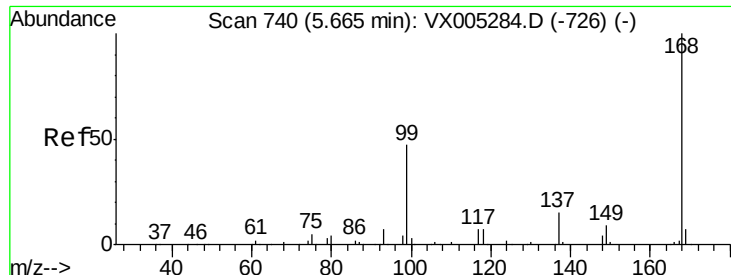
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DUP

Quant Time: Oct 30 03:37:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

Instrument :

MSVOA\_X

ClientSampleId :

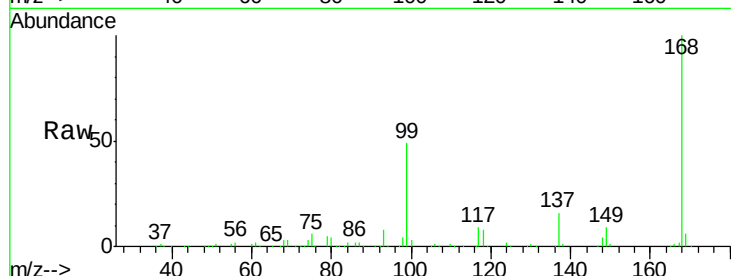
DUP

Tgt Ion:168 Resp: 289681

Ion Ratio Lower Upper

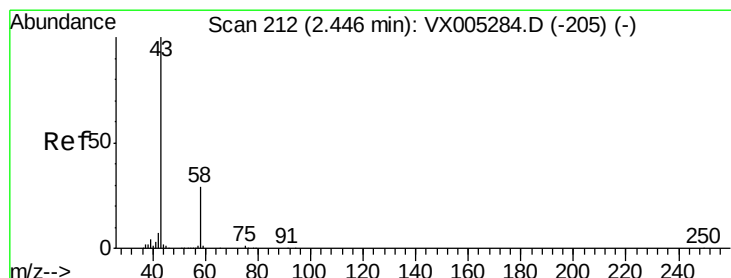
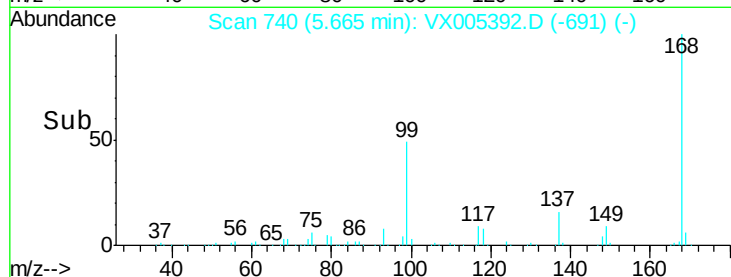
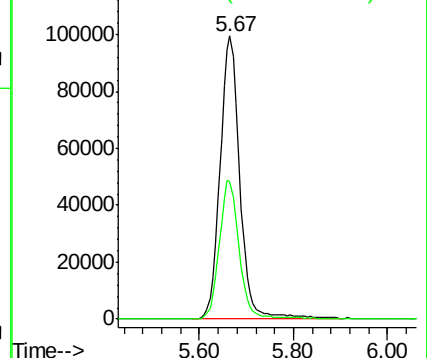
168 100

99 48.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 3.159 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005392.D

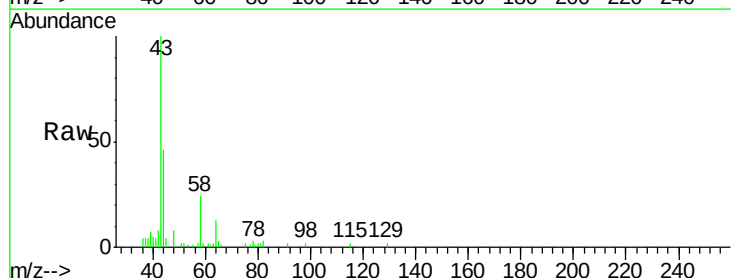
Acq: 17 Oct 2018 15:48

Tgt Ion: 43 Resp: 5873

Ion Ratio Lower Upper

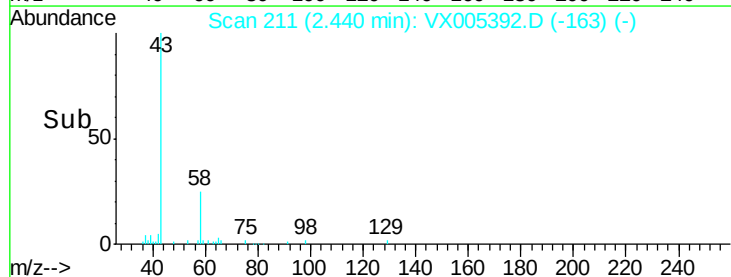
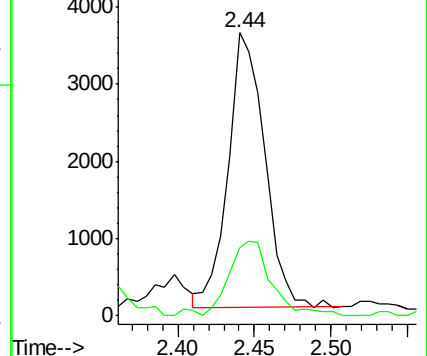
43 100

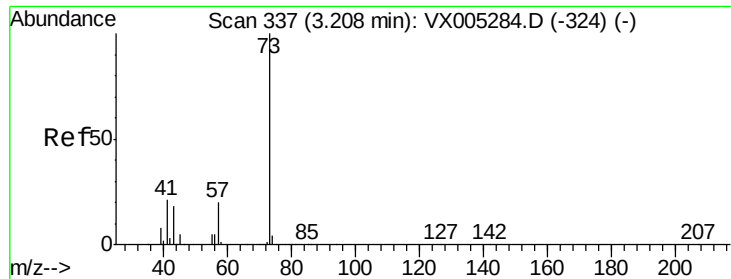
58 24.9 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

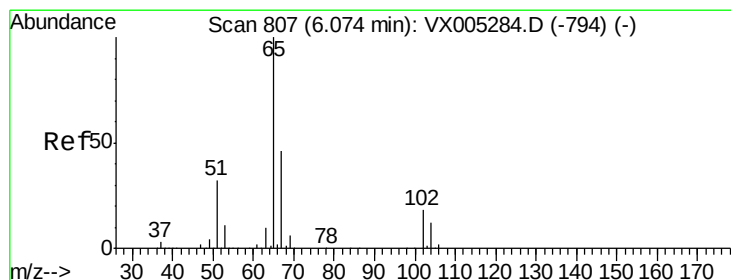
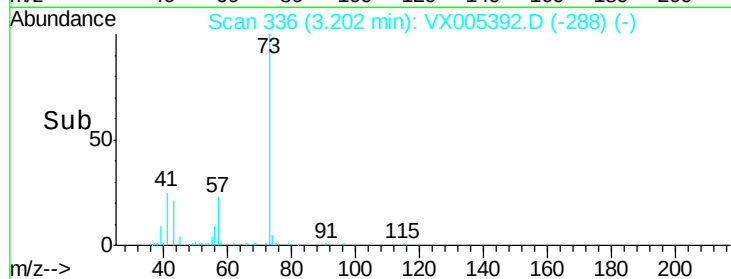
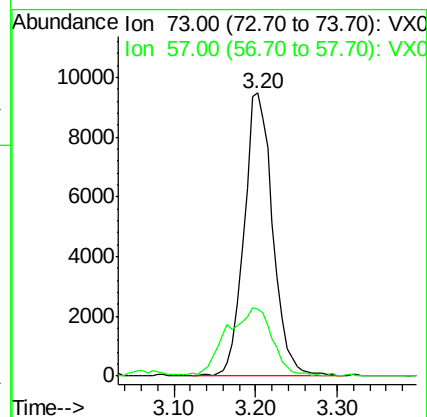
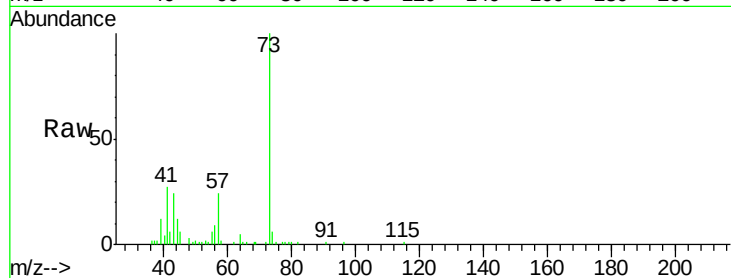




#19  
Methyl tert-butyl Ether  
Concen: 2.579 ug/l  
RT: 3.20 min Scan# 336  
Delta R.T. -0.01 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

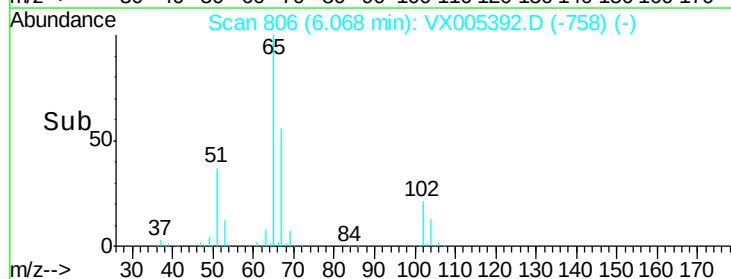
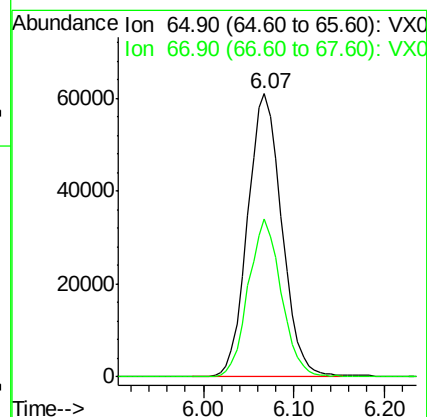
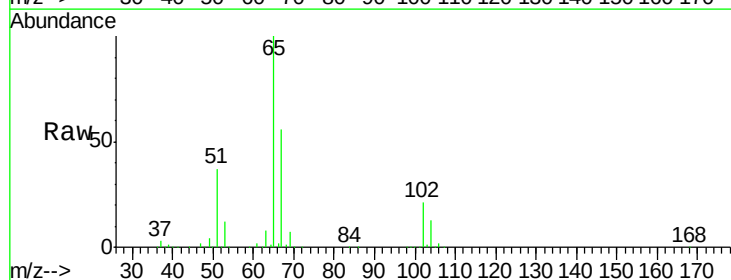
Instrument :  
MSVOA\_X  
ClientSampled :  
DUP

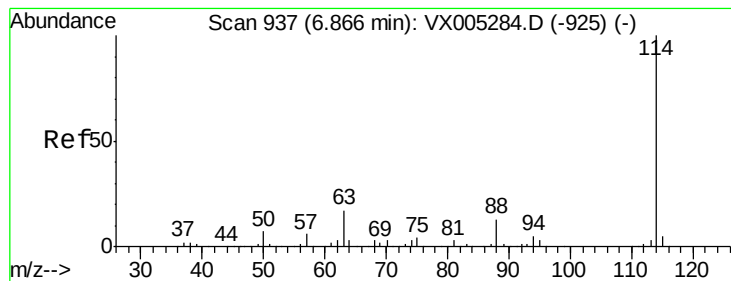
Tgt Ion: 73 Resp: 23047  
Ion Ratio Lower Upper  
73 100  
57 23.8 17.1 25.7



#33  
1,2-Dichloroethane-d4  
Concen: 49.583 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

Tgt Ion: 65 Resp: 159411  
Ion Ratio Lower Upper  
65 100  
67 54.1 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

Instrument :

MSVOA\_X

ClientSampleId :

DUP

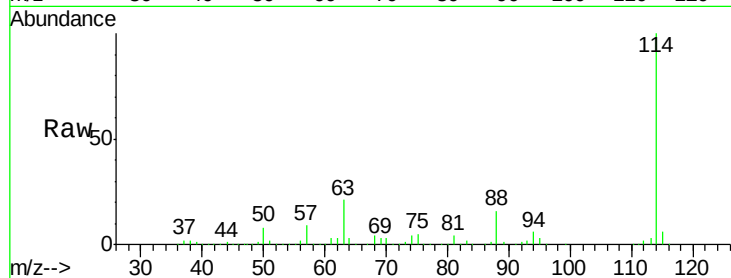
Tgt Ion:114 Resp: 408414

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.0

88 16.0 0.0 30.4



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

6.86

200000

150000

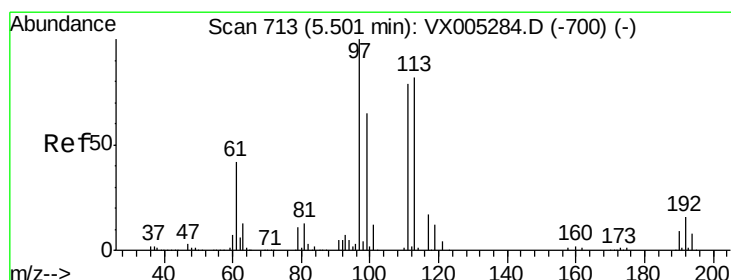
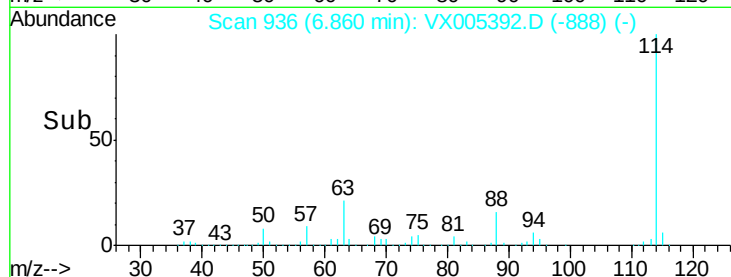
100000

50000

0

Time-->

6.70 6.80 6.90 7.00 7.10



#35

Dibromofluoromethane

Concen: 47.835 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

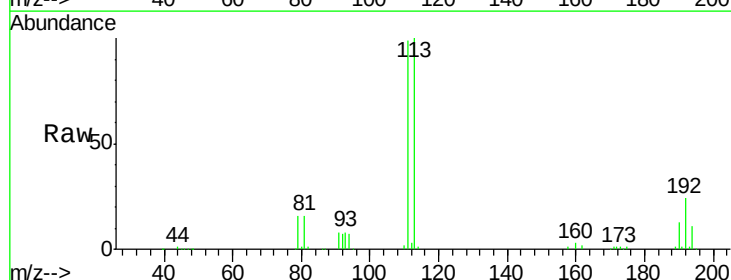
Tgt Ion:113 Resp: 129394

Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

192 24.1 19.4 29.2



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

5.50

60000

50000

40000

30000

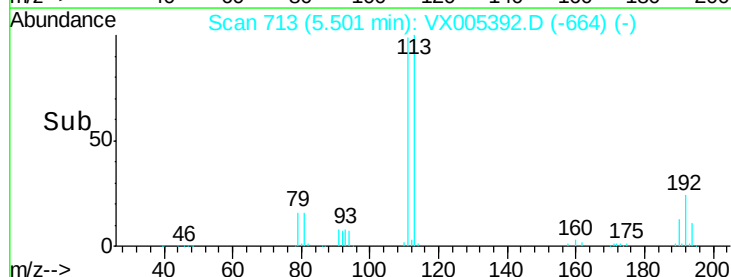
20000

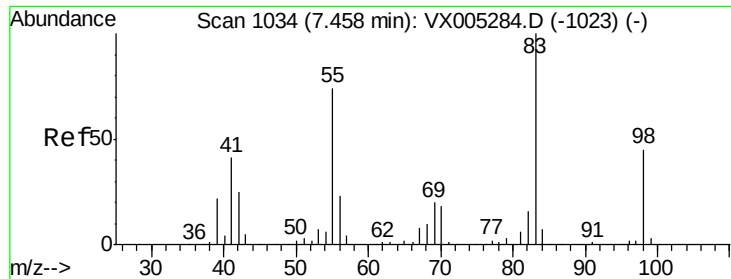
10000

0

Time-->

5.40 5.50 5.60

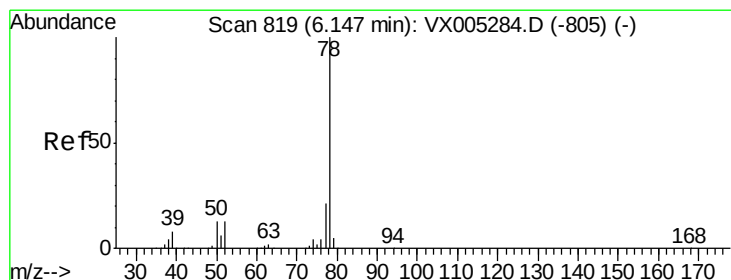
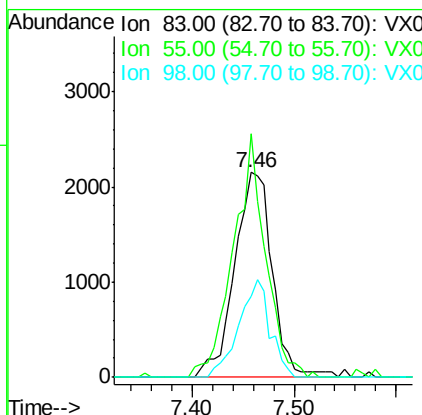
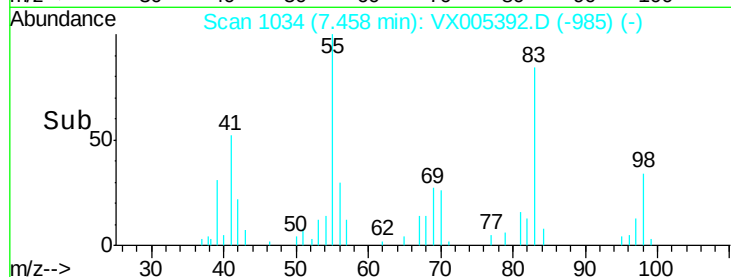
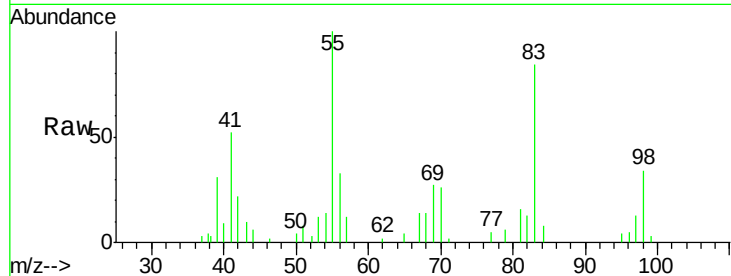




#39  
Methylcyclohexane  
Concen: 1.288 ug/l  
RT: 7.46 min Scan# 1034  
Delta R.T. -0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

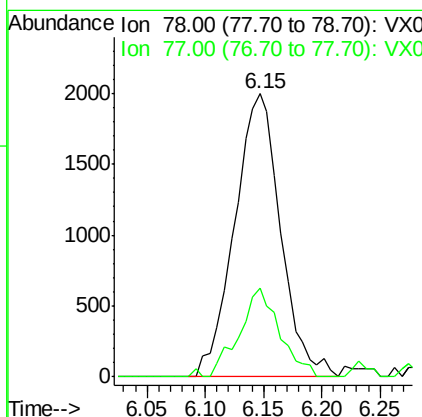
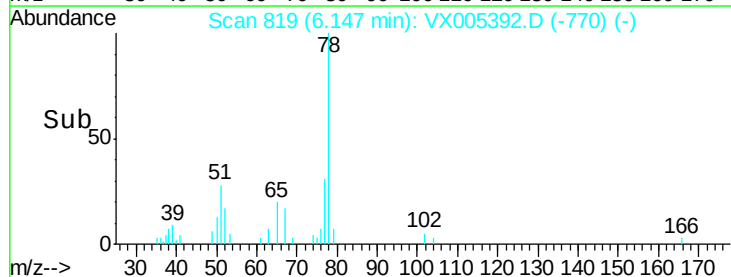
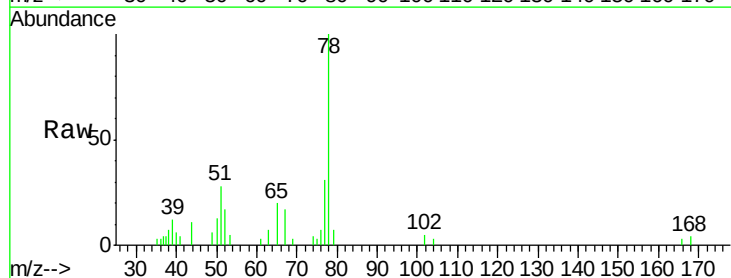
Instrument :  
MSVOA\_X  
ClientSampled :  
DUP

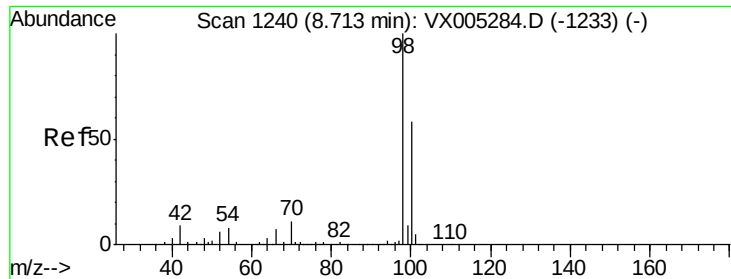
Tgt Ion: 83 Resp: 5514  
Ion Ratio Lower Upper  
83 100  
55 118.9 61.0 91.4#  
98 39.9 39.6 59.4



#40  
Benzene  
Concen: 0.461 ug/l  
RT: 6.15 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

Tgt Ion: 78 Resp: 5474  
Ion Ratio Lower Upper  
78 100  
77 31.4 19.0 28.4#

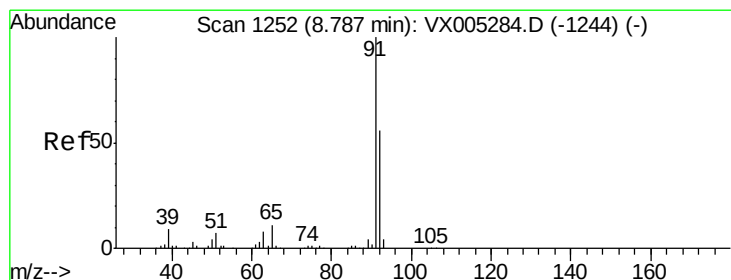
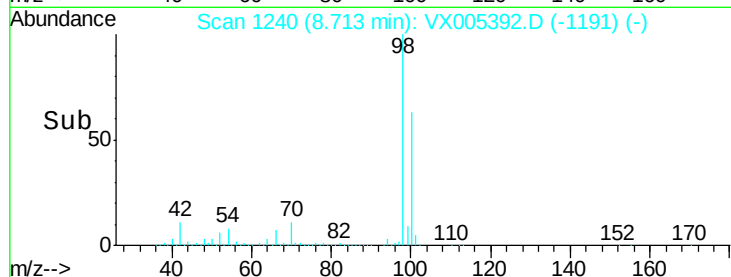
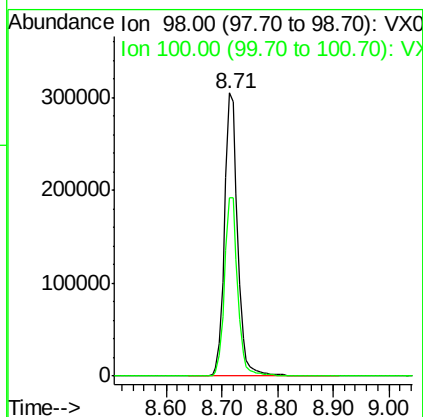
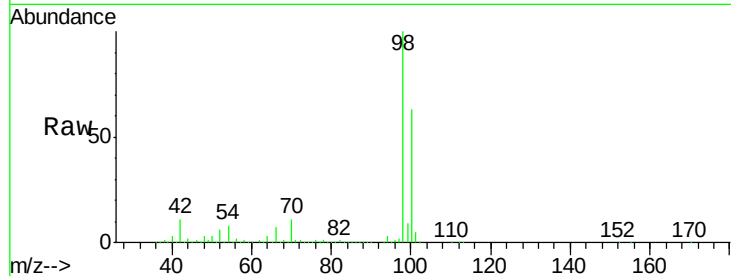




#50  
Toluene-d8  
Concen: 53.685 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

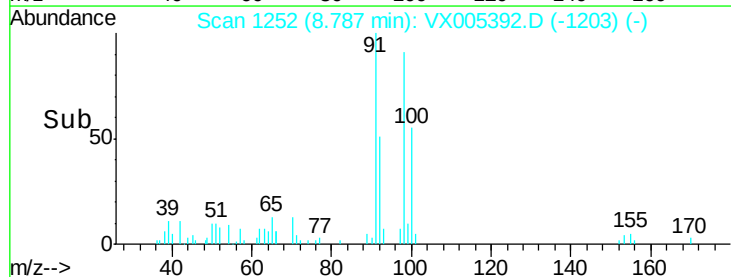
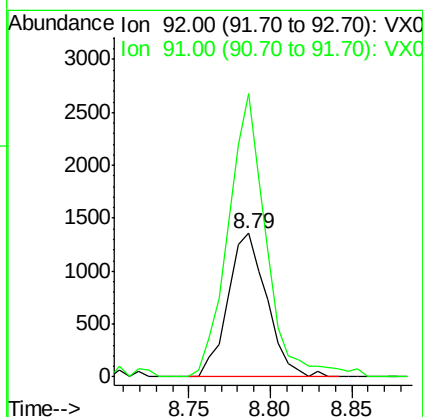
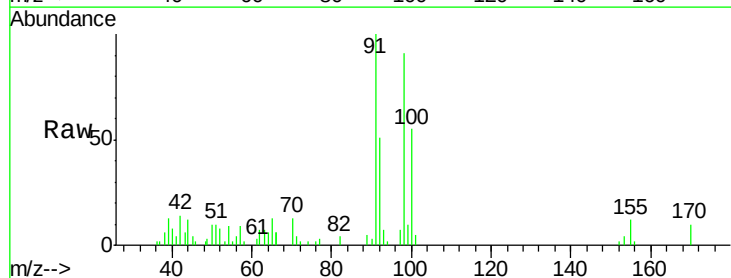
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP

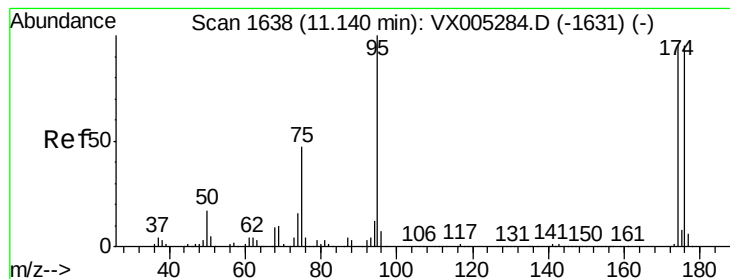
Tgt Ion: 98 Resp: 498550  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.9 79.3



#52  
Toluene  
Concen: 0.347 ug/l  
RT: 8.79 min Scan# 1252  
Delta R.T. -0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

Tgt Ion: 92 Resp: 2250  
Ion Ratio Lower Upper  
92 100  
91 192.9 136.4 204.6





#62

4-Bromofluorobenzene

Concen: 49.651 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

Instrument :

MSVOA\_X

ClientSampleId :

DUP

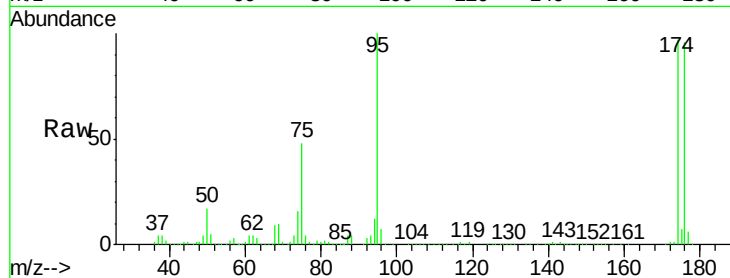
Tgt Ion: 95 Resp: 173212

Ion Ratio Lower Upper

95 100

174 94.2 0.0 185.2

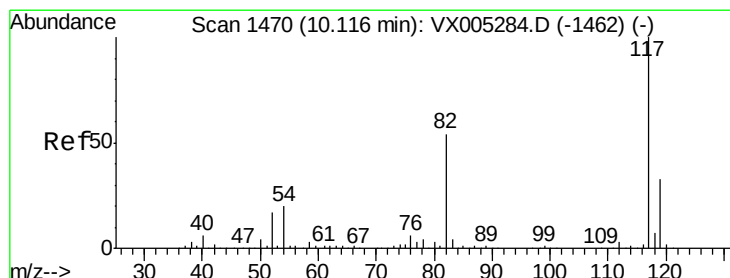
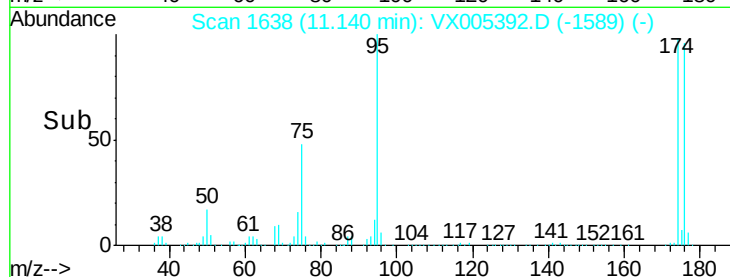
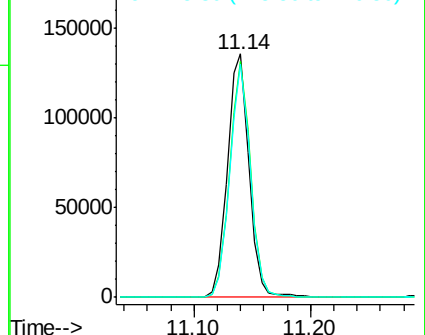
176 91.7 0.0 178.6



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# 1470

Delta R.T. 0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

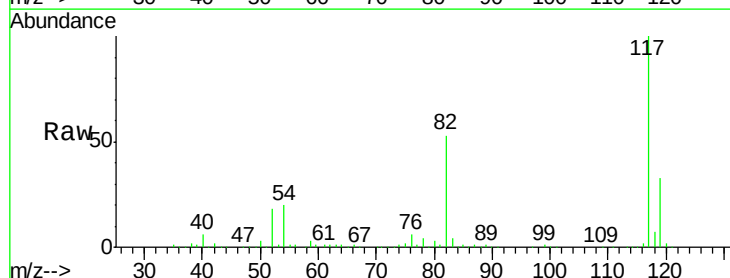
Tgt Ion: 117 Resp: 372117

Ion Ratio Lower Upper

117 100

82 53.1 47.8 71.6

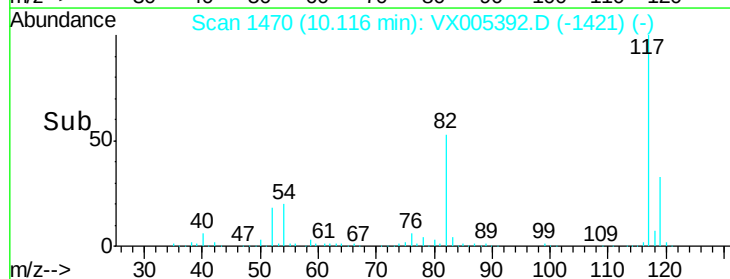
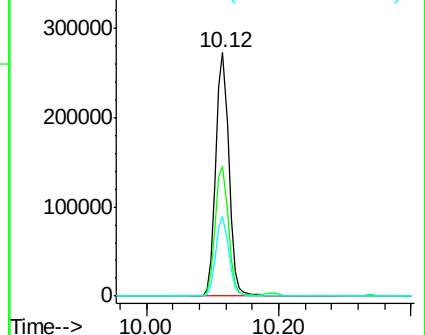
119 32.9 29.3 43.9



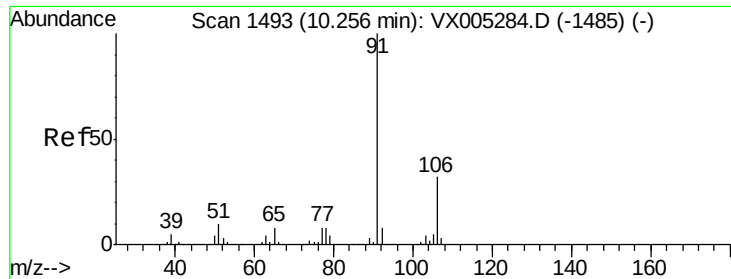
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



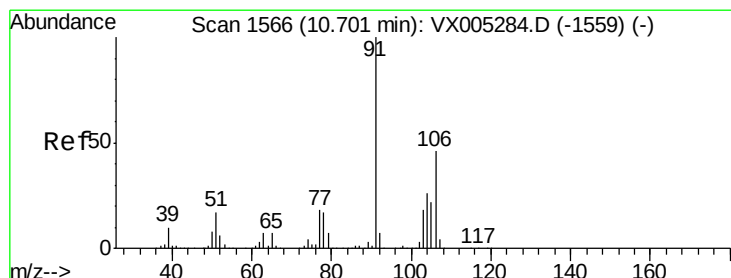
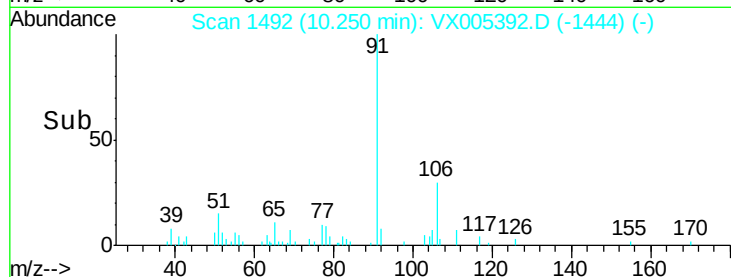
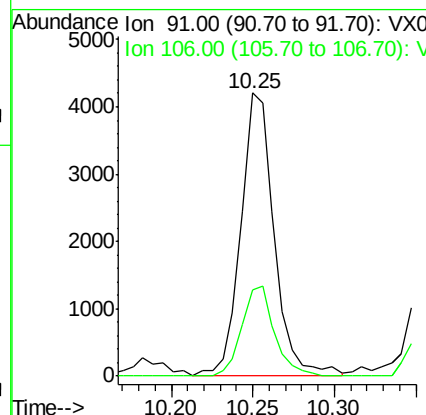
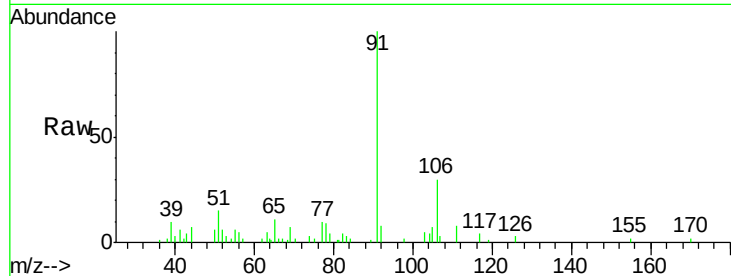




#67  
Ethyl Benzene  
Concen: 0.468 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. -0.01 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

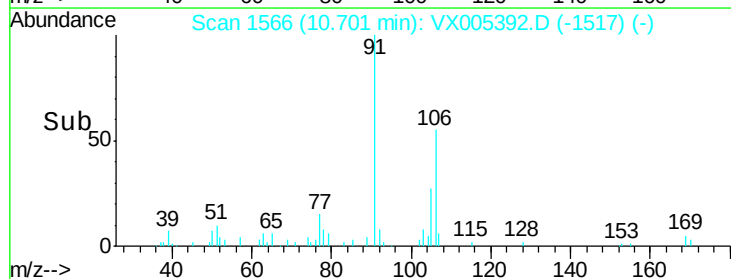
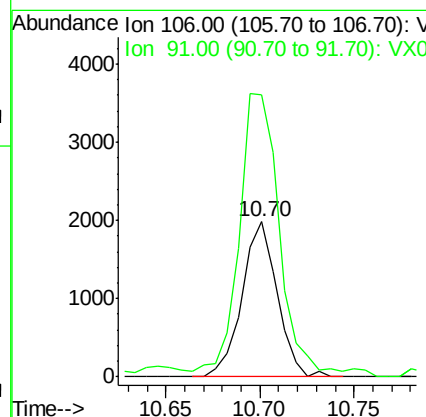
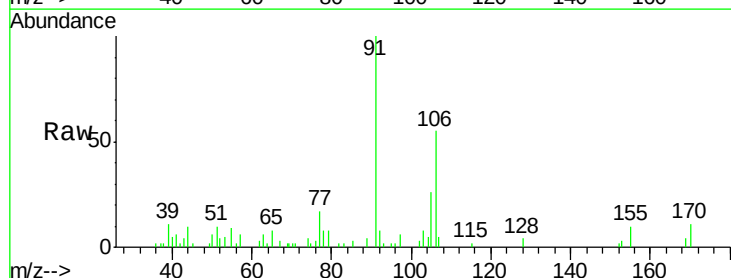
Instrument :  
MSVOA\_X  
ClientSampled :  
DUP

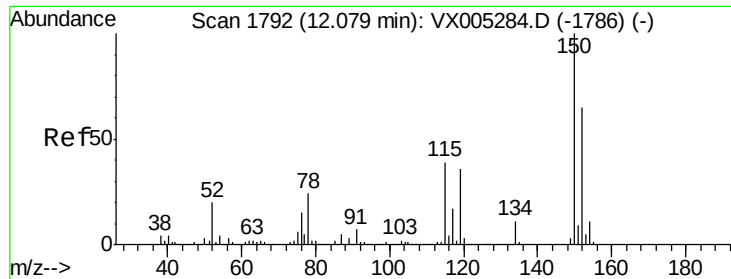
Tgt Ion: 91 Resp: 6017  
Ion Ratio Lower Upper  
91 100  
106 30.5 25.9 38.9



#69  
o-Xylene  
Concen: 0.532 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

Tgt Ion: 106 Resp: 2564  
Ion Ratio Lower Upper  
106 100  
91 212.3 105.1 315.1



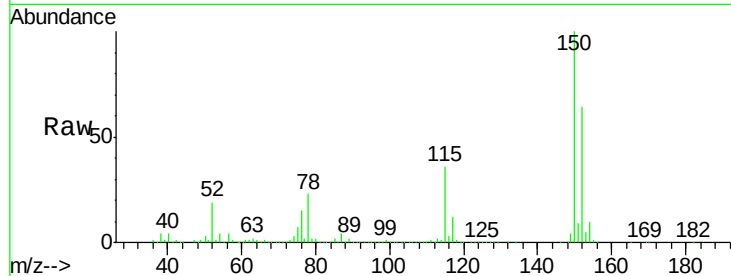


#72

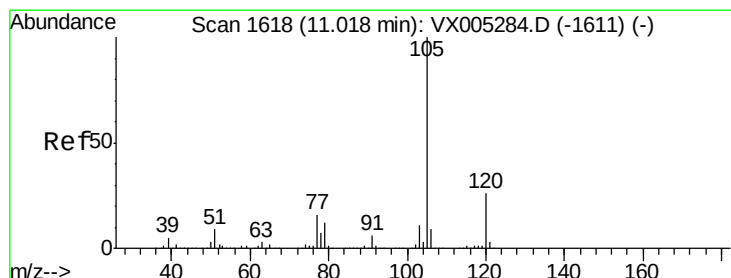
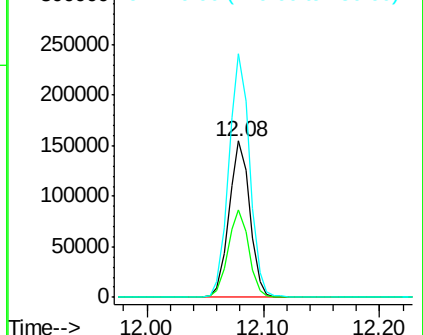
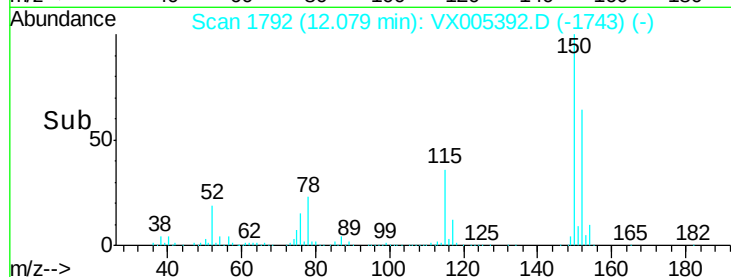
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP

Tgt Ion:152 Resp: 191802  
Ion Ratio Lower Upper  
152 100  
115 55.1 39.0 117.0  
150 156.4 0.0 351.0



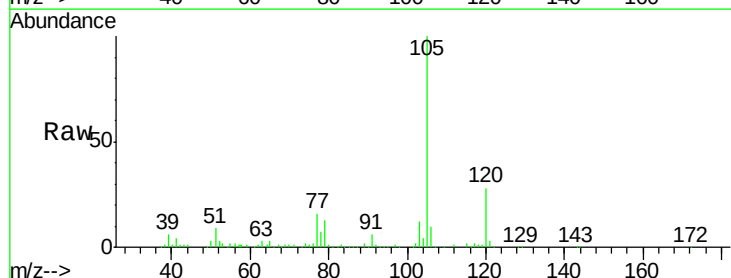
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



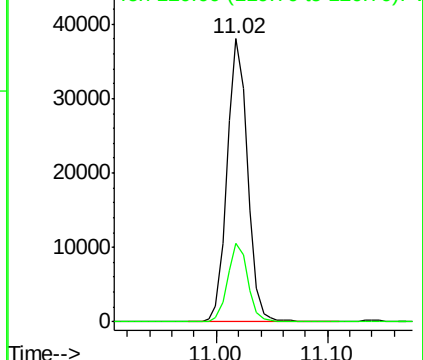
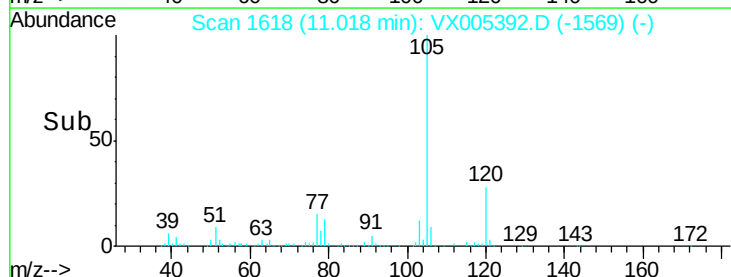
#73

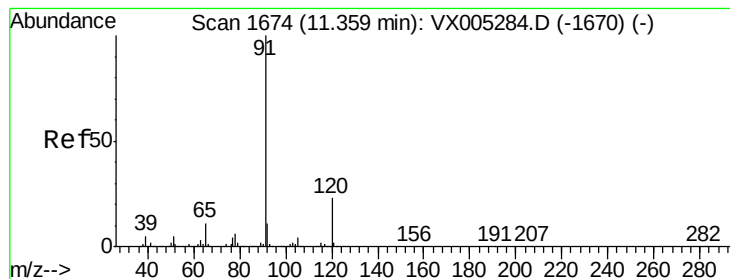
Isopropylbenzene  
Concen: 4.234 ug/l  
RT: 11.02 min Scan# 1618  
Delta R.T. -0.00 min  
Lab File: VX005392.D  
Acq: 17 Oct 2018 15:48

Tgt Ion:105 Resp: 48282  
Ion Ratio Lower Upper  
105 100  
120 27.2 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 8.885 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

Instrument :

MSVOA\_X

ClientSampled :

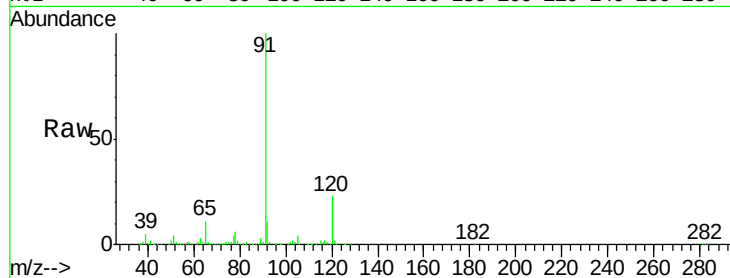
DUP

Tgt Ion: 91 Resp: 116578

Ion Ratio Lower Upper

91 100

120 23.5 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.36

100000

80000

60000

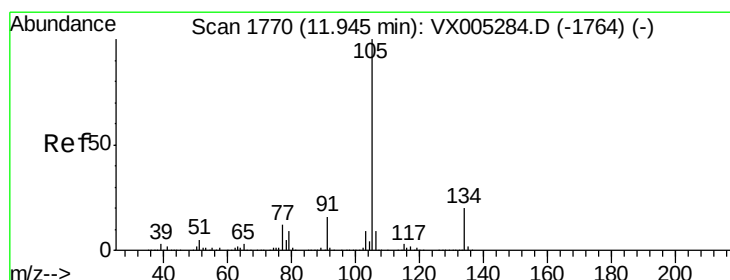
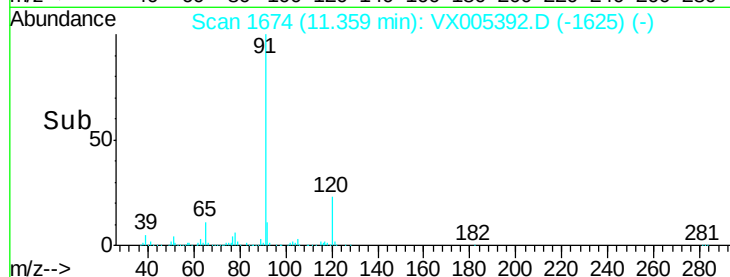
40000

20000

0

11.30 11.40

Time-->



#85

sec-Butylbenzene

Concen: 4.617 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX005392.D

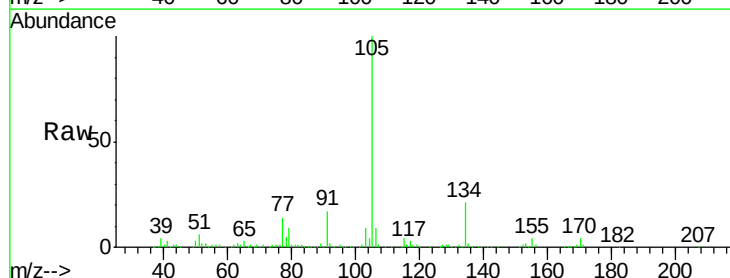
Acq: 17 Oct 2018 15:48

Tgt Ion: 105 Resp: 54029

Ion Ratio Lower Upper

105 100

134 28.0 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

50000

40000

30000

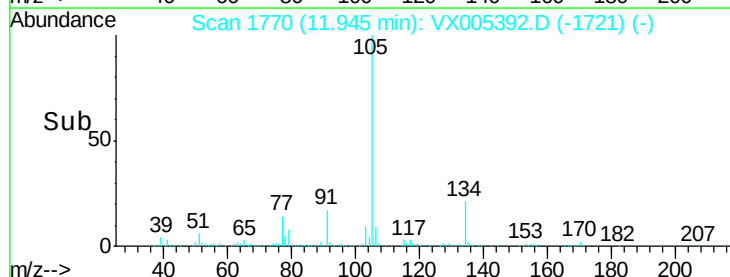
20000

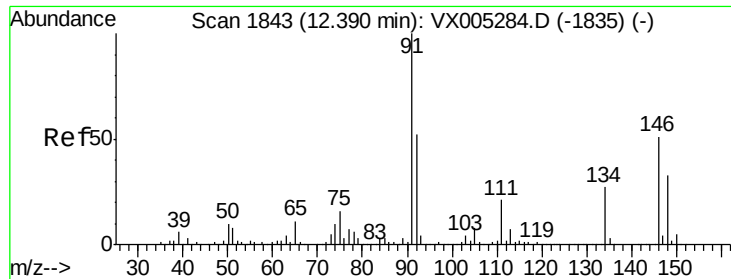
10000

0

11.90 11.95 12.00

Time-->





#89

n-Butylbenzene

Concen: 3.182 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

Instrument :

MSVOA\_X

ClientSampleId :

DUP

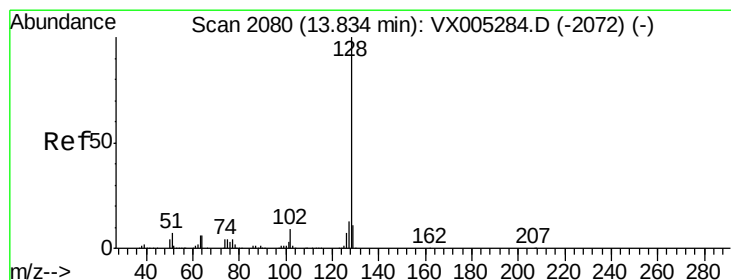
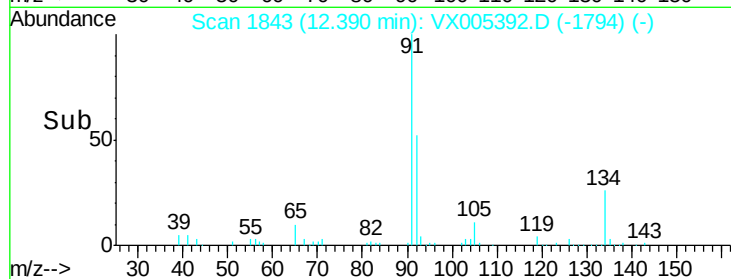
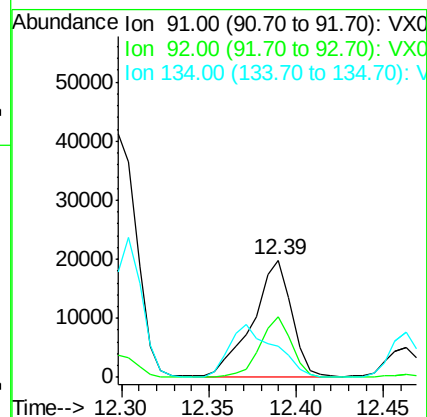
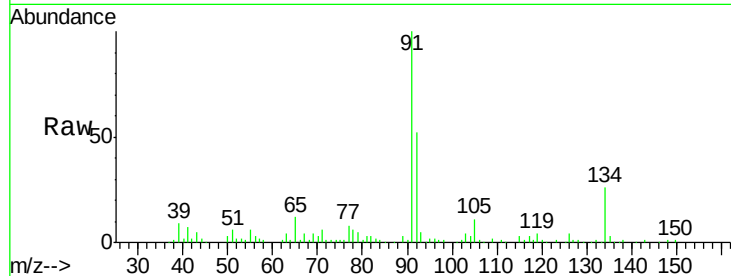
Tgt Ion: 91 Resp: 30554

Ion Ratio Lower Upper

91 100

92 42.5 27.3 81.9

134 53.3 13.6 40.7#



#95

Naphthalene

Concen: 10.403 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005392.D

Acq: 17 Oct 2018 15:48

Tgt Ion: 128 Resp: 137612

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

129 14.2 8.6 12.8#

