

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022719\  
 Data File : VX007746.D  
 Acq On : 27 Feb 2019 20:44  
 Operator : JC/SP  
 Sample : K1653-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-1R

Quant Time: Feb 28 12:55:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 26 01:53:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 316015   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 488800   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 467147   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 228220   | 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   | 187683   | 47.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.90% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 157167   | 48.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.20% |          |
| 50) Toluene-d8              | 8.71  | 98   | 608435   | 48.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.28% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 223534   | 48.69 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.38% |          |

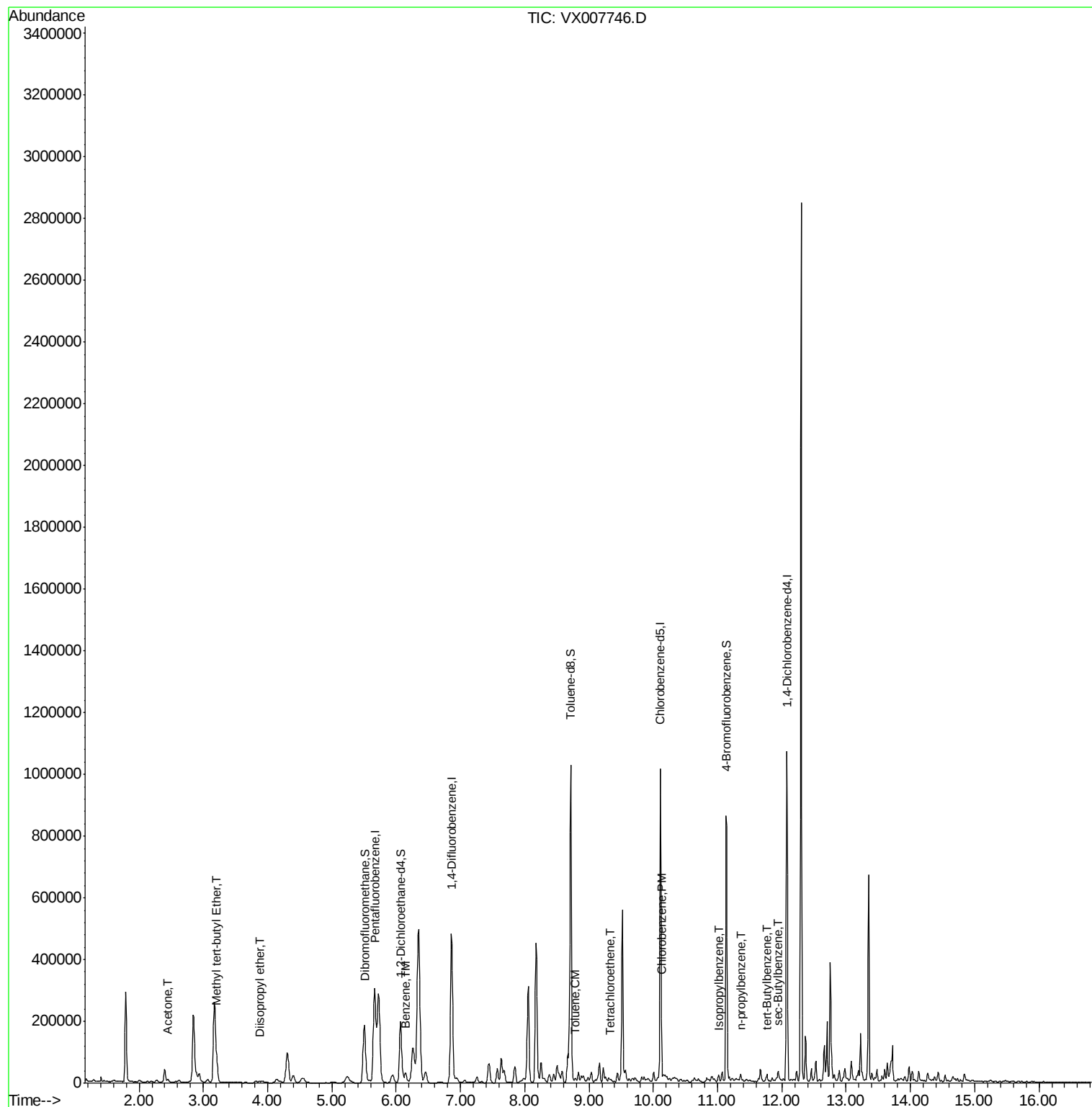
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone                 | 2.45  | 43   | 9391     | 5.395 | ug/l   | 99     |
| 19) Methyl tert-butyl Ether | 3.21  | 73   | 74820    | 7.773 | ug/l # | 67     |
| 22) Diisopropyl ether       | 3.87  | 45   | 5250     | 0.493 | ug/l # | 84     |
| 40) Benzene                 | 6.15  | 78   | 36667    | 2.703 | ug/l   | 97     |
| 52) Toluene                 | 8.79  | 92   | 2911     | 0.340 | ug/l   | 99     |
| 64) Tetrachloroethene       | 9.34  | 164  | 1298     | 0.342 | ug/l   | 93     |
| 65) Chlorobenzene           | 10.13 | 112  | 4827     | 0.478 | ug/l   | 96     |
| 73) Isopropylbenzene        | 11.02 | 105  | 8495     | 0.521 | ug/l   | 98     |
| 78) n-propylbenzene         | 11.36 | 91   | 9051     | 0.491 | ug/l   | 98     |
| 83) tert-Butylbenzene       | 11.77 | 119  | 3220     | 0.250 | ug/l   | 75     |
| 85) sec-Butylbenzene        | 11.94 | 105  | 15166    | 0.940 | ug/l # | 76     |

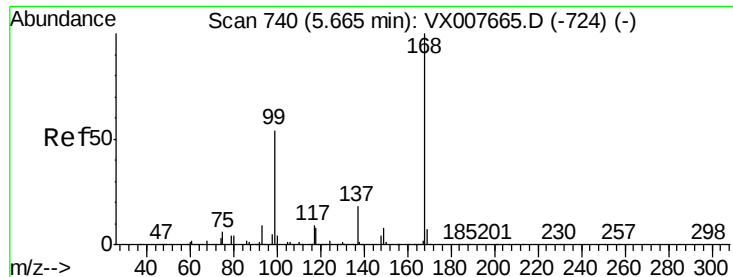
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X022519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 26 01:53:13 2019  
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: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

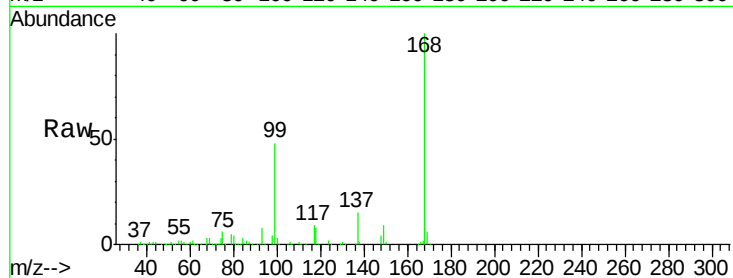
MW-1R

Tot Ion:168 Resp: 316015

Ion Ratio Lower Upper

168 100

99 48.5 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

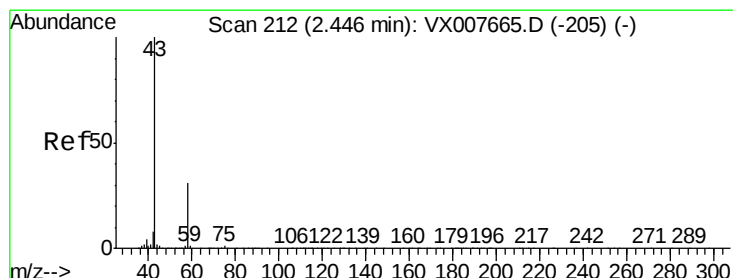
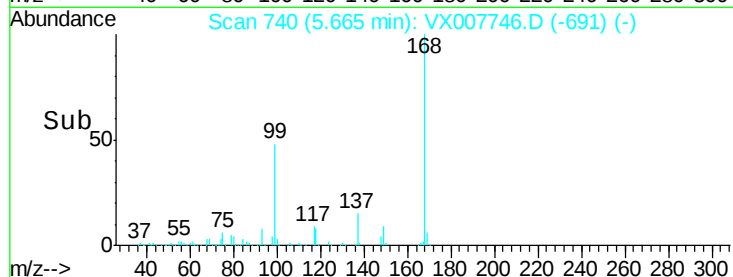
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 5.395 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007746.D

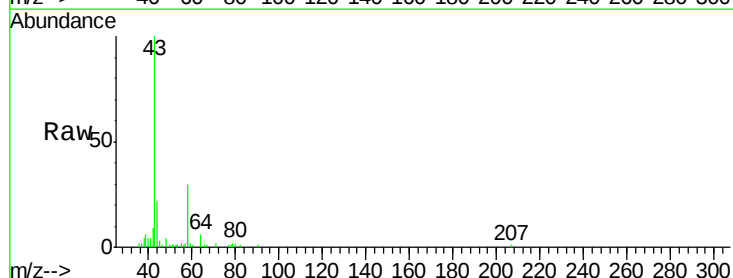
Acq: 27 Feb 2019 20:44

Tgt Ion: 43 Resp: 9391

Ion Ratio Lower Upper

43 100

58 30.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

8000

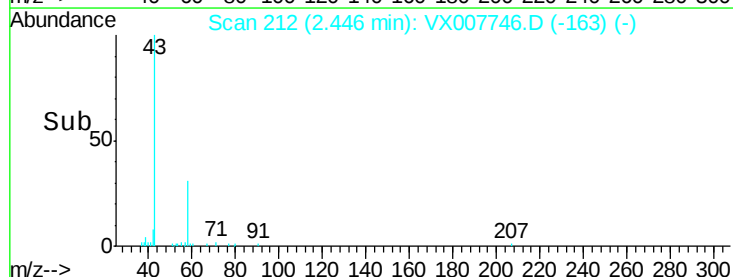
6000

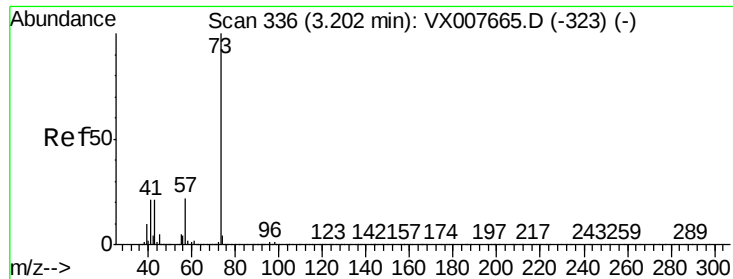
4000

2000

0

Time-->

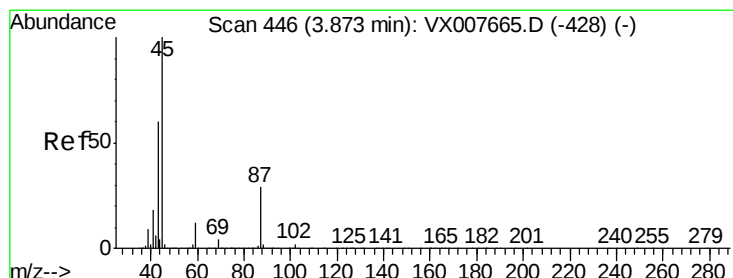
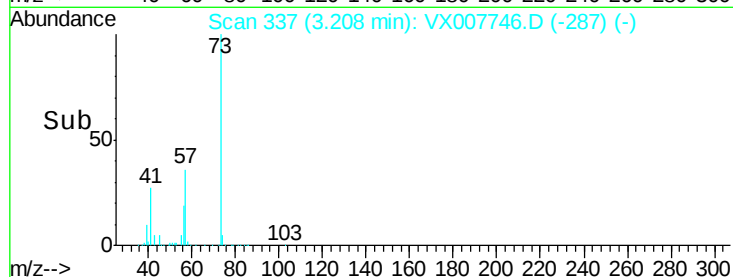
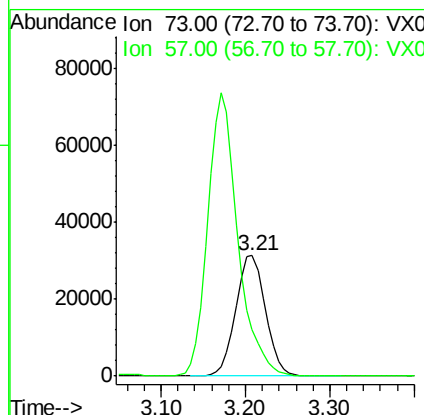
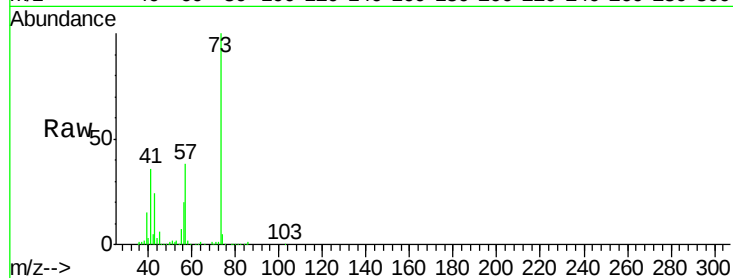




#19  
Methyl tert-butyl Ether  
Concen: 7.773 ug/l  
RT: 3.21 min Scan# 337  
Delta R.T. 0.01 min  
Lab File: VX007746.D  
Acq: 27 Feb 2019 20:44

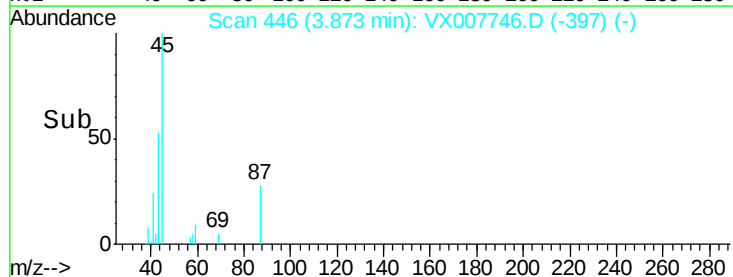
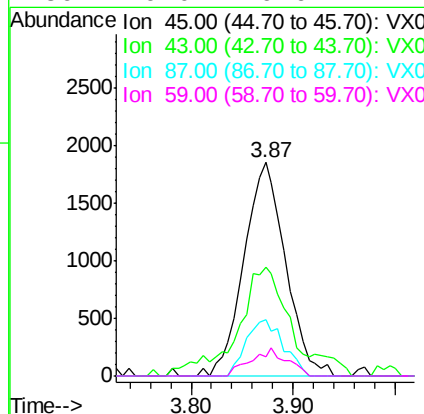
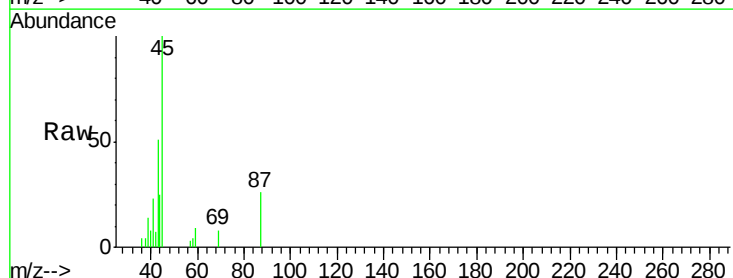
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1R

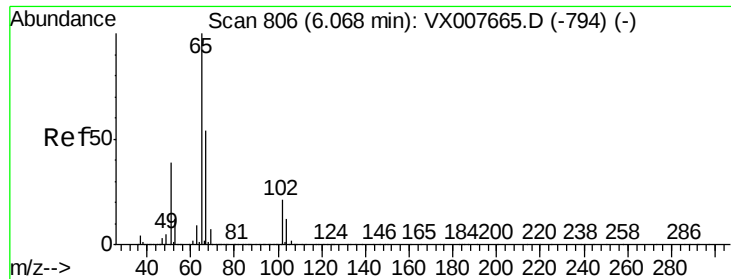
Tot Ion: 73 Resp: 74820  
Ion Ratio Lower Upper  
73 100  
57 38.1 17.8 26.8#



#22  
Diisopropyl ether  
Concen: 0.493 ug/l  
RT: 3.87 min Scan# 446  
Delta R.T. -0.00 min  
Lab File: VX007746.D  
Acq: 27 Feb 2019 20:44

Tgt Ion: 45 Resp: 5250  
Ion Ratio Lower Upper  
45 100  
43 44.6 48.9 73.3#  
87 26.4 23.9 35.9  
59 9.0 9.6 14.4#





#33

1,2-Dichloroethane-d4

Concen: 47.947 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

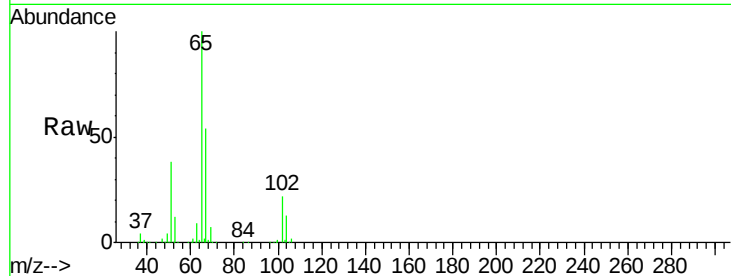
MW-1R

Tot Ion: 65 Resp: 187683

Ion Ratio Lower Upper

65 100

67 53.3 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

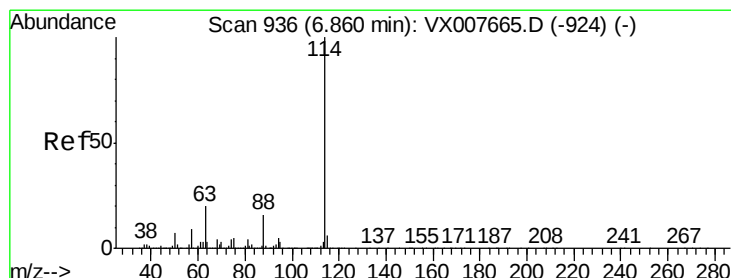
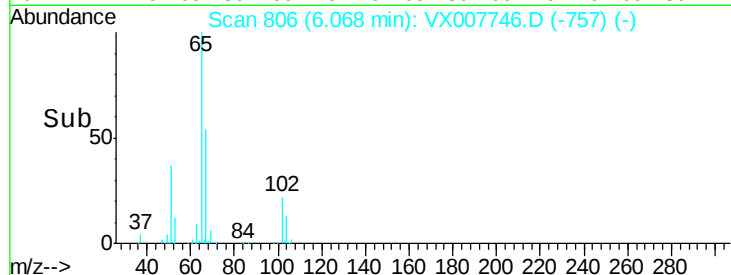
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

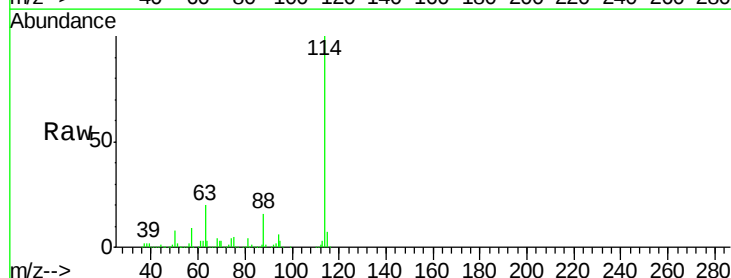
Tgt Ion: 114 Resp: 488800

Ion Ratio Lower Upper

114 100

63 20.2 0.0 35.6

88 15.6 0.0 29.6



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

250000

200000

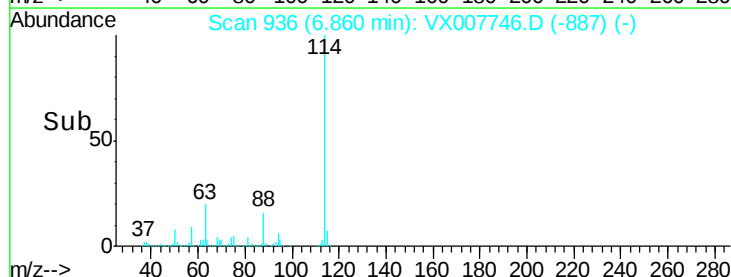
150000

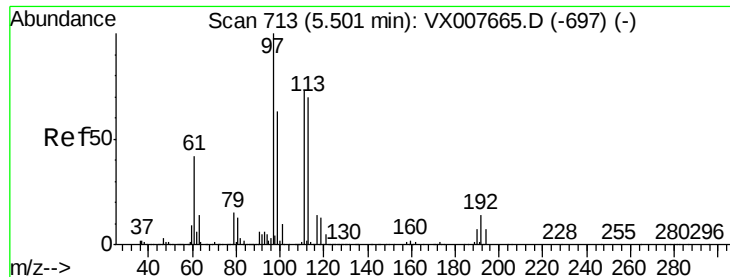
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.100 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

MW-1R

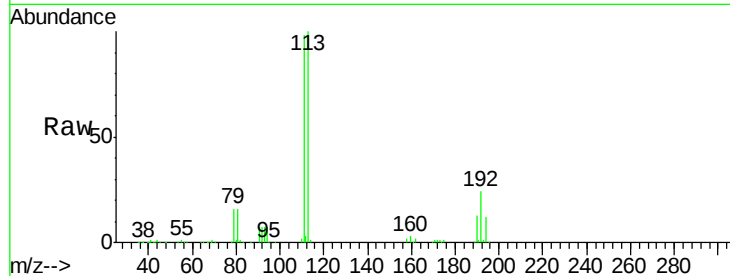
Tot Ion:113 Resp: 157167

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

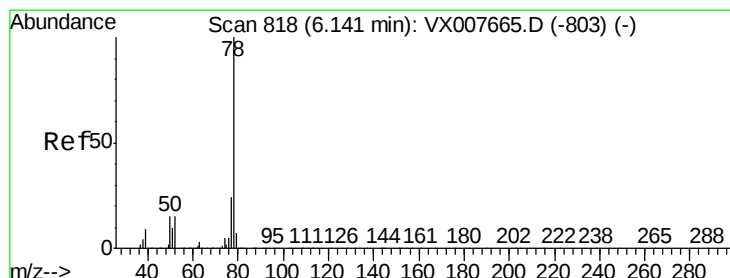
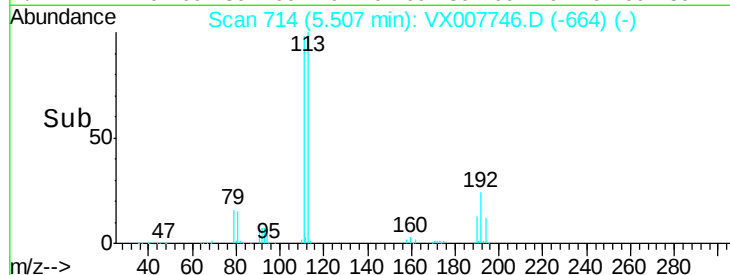
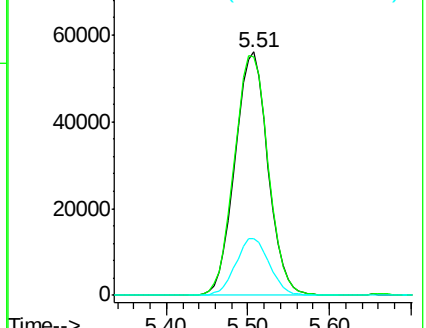
192 23.8 18.5 27.7



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



#40

Benzene

Concen: 2.703 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007746.D

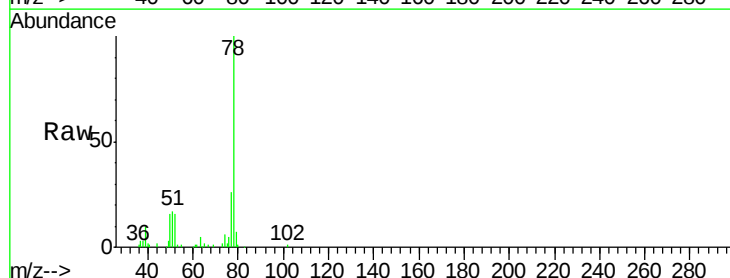
Acq: 27 Feb 2019 20:44

Tgt Ion: 78 Resp: 36667

Ion Ratio Lower Upper

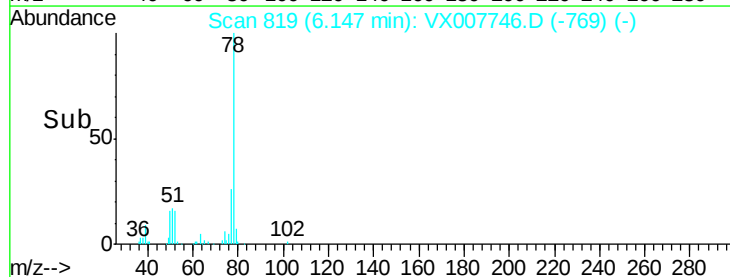
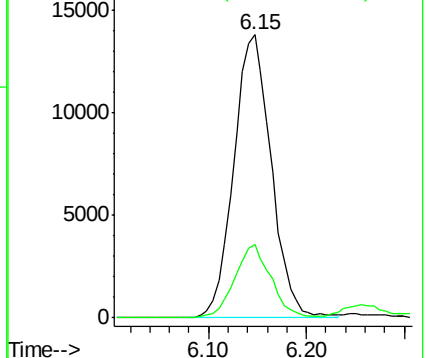
78 100

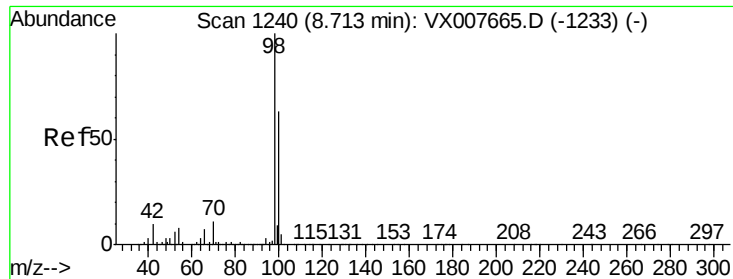
77 25.8 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 48.639 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

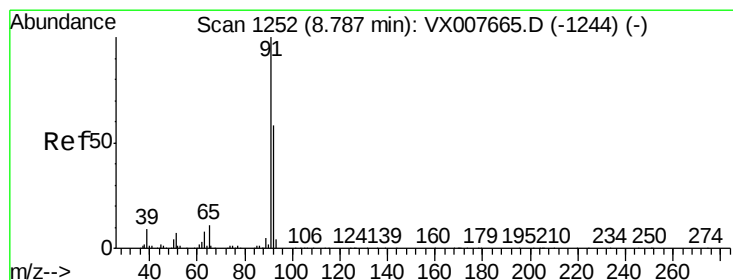
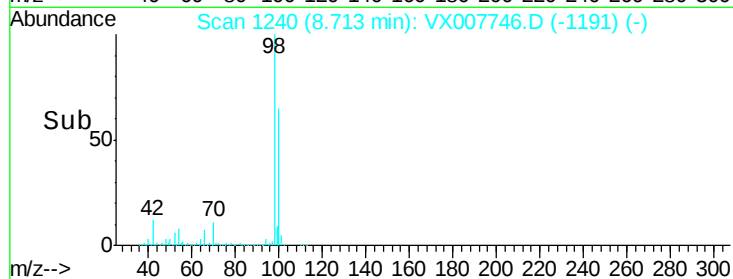
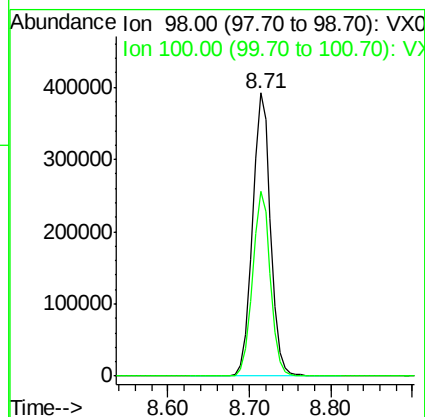
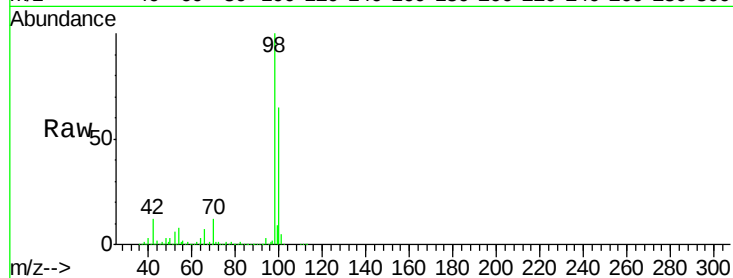
MW-1R

Tot Ion: 98 Resp: 608435

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



#52

Toluene

Concen: 0.340 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX007746.D

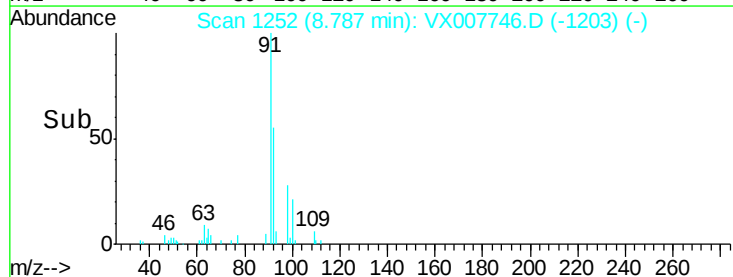
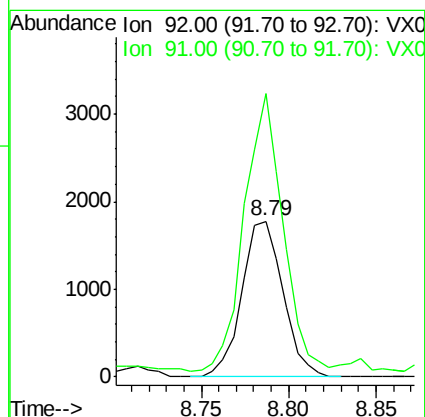
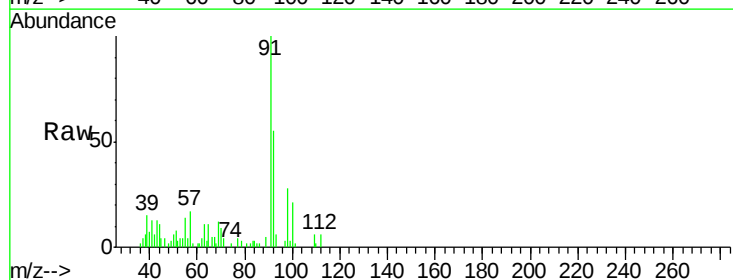
Acq: 27 Feb 2019 20:44

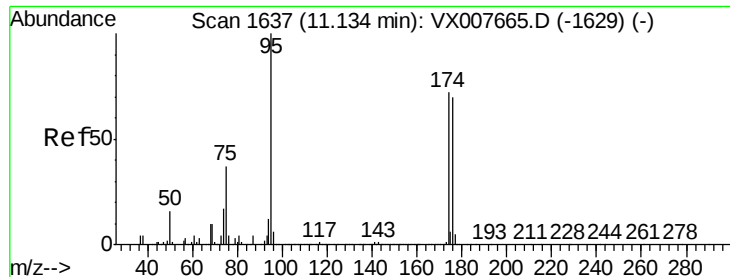
Tgt Ion: 92 Resp: 2911

Ion Ratio Lower Upper

92 100

91 172.9 139.1 208.7

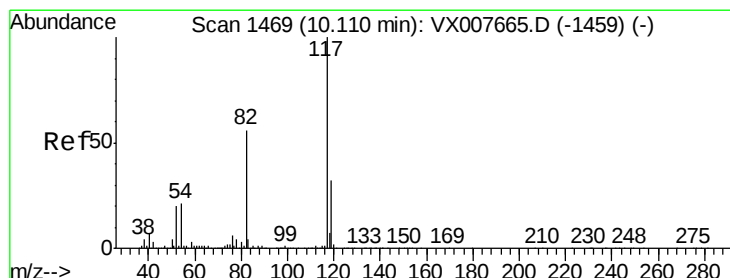
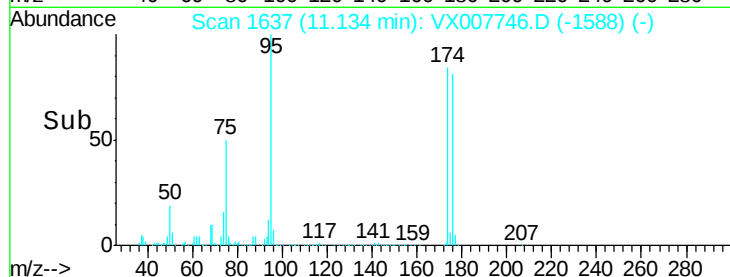
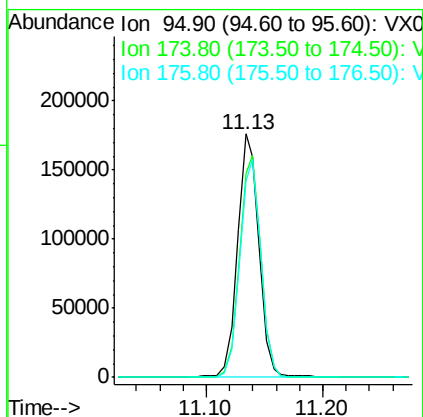
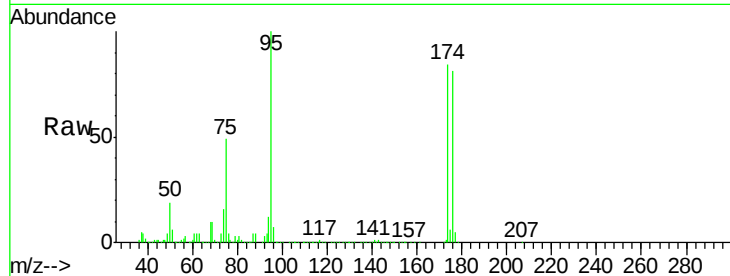




#62  
4-Bromofluorobenzene  
Concen: 48.686 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX007746.D  
Acq: 27 Feb 2019 20:44

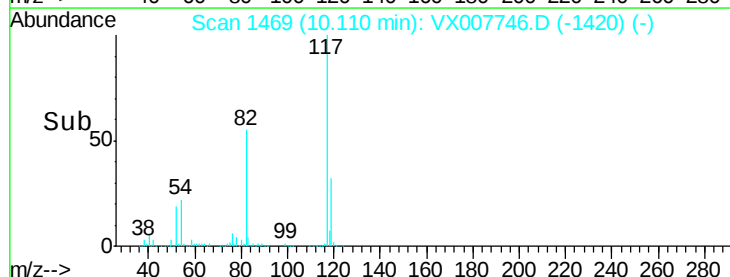
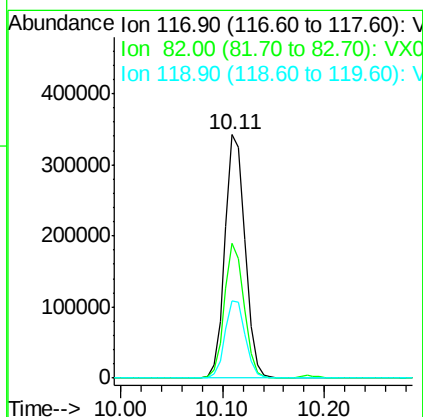
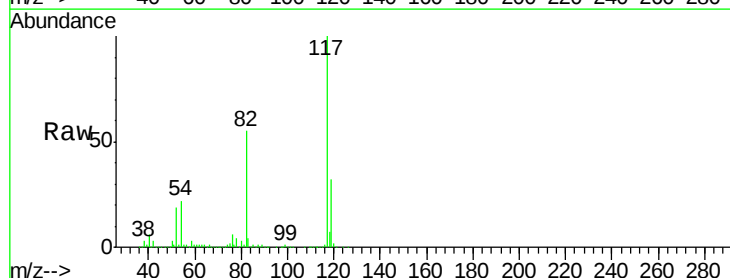
Instrument :  
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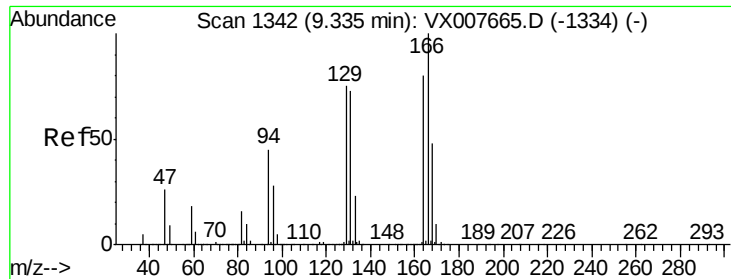
Tot Ion: 95 Resp: 223534  
Ion Ratio Lower Upper  
95 100  
174 91.2 0.0 189.2  
176 88.4 0.0 186.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX007746.D  
Acq: 27 Feb 2019 20:44

Tgt Ion: 117 Resp: 467147  
Ion Ratio Lower Upper  
117 100  
82 55.2 42.1 63.1  
119 31.8 26.5 39.7





#64

Tetrachloroethene

Concen: 0.342 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

MW-1R

Tot Ion:164 Resp: 1298

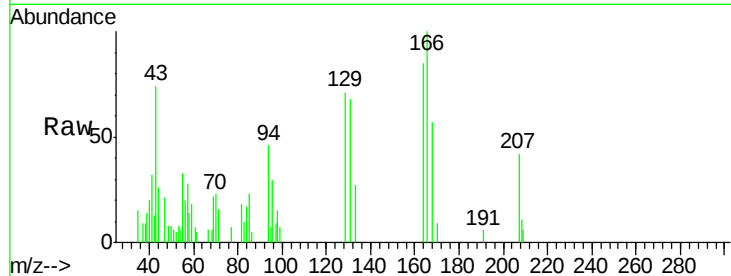
Ion Ratio Lower Upper

164 100

166 118.0 101.0 151.4

129 83.9 70.5 105.7

131 80.0 69.8 104.6

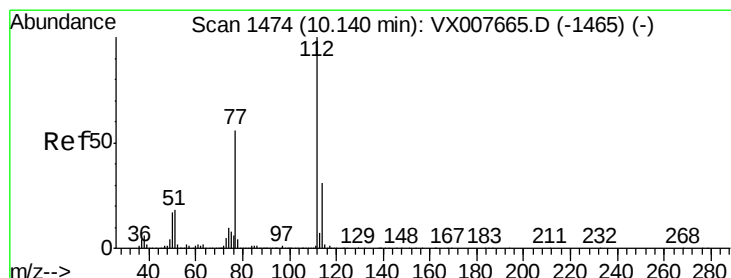
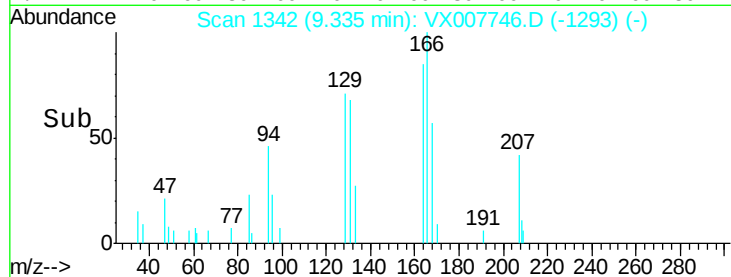
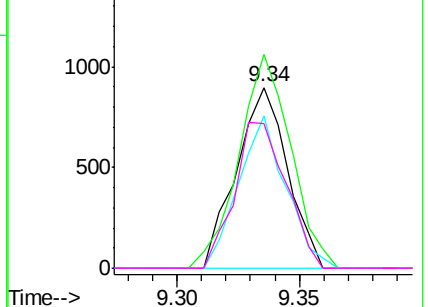


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.478 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VX007746.D

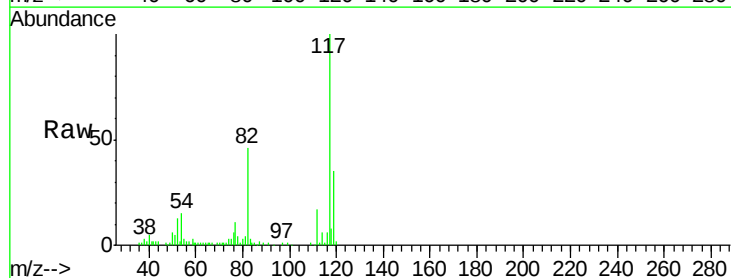
Acq: 27 Feb 2019 20:44

Tgt Ion:112 Resp: 4827

Ion Ratio Lower Upper

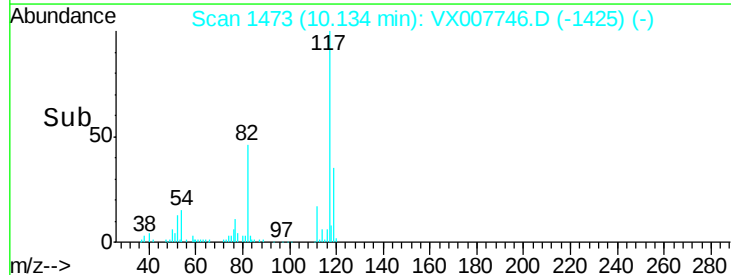
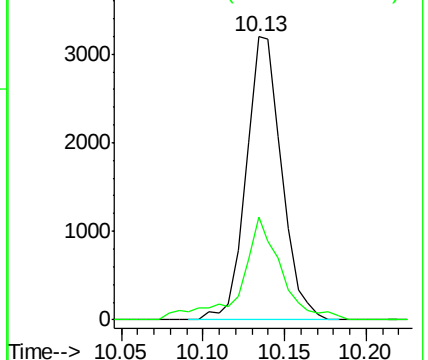
112 100

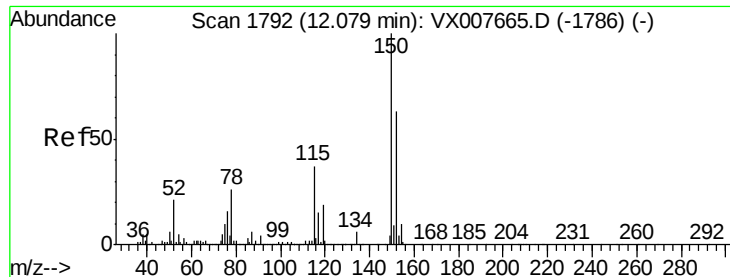
114 34.5 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



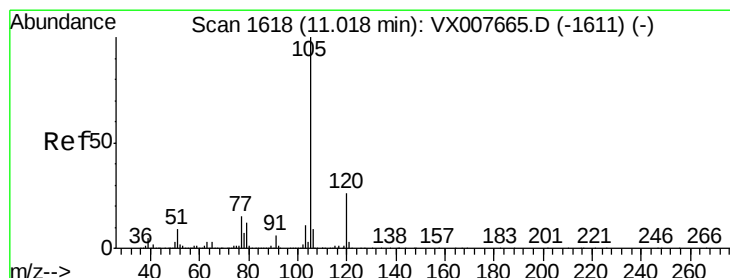
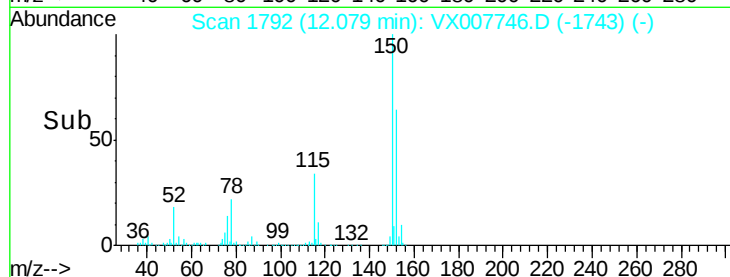
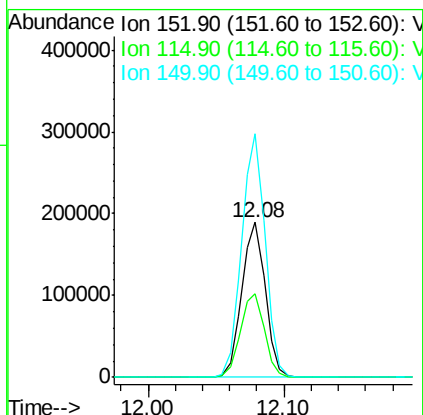
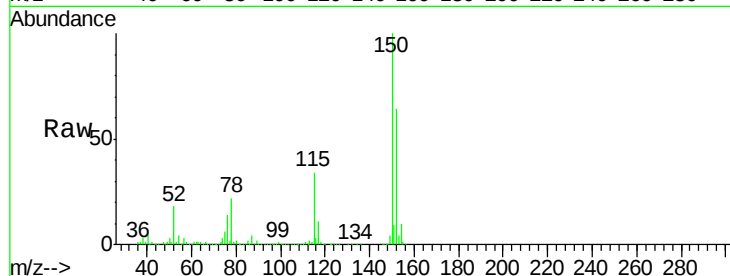


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX007746.D  
Acq: 27 Feb 2019 20:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-1R

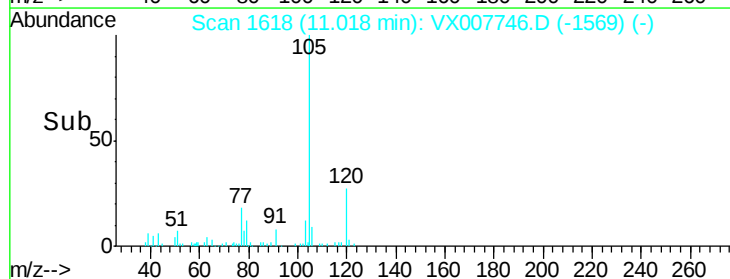
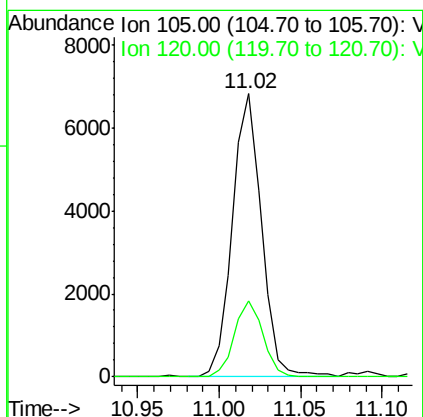
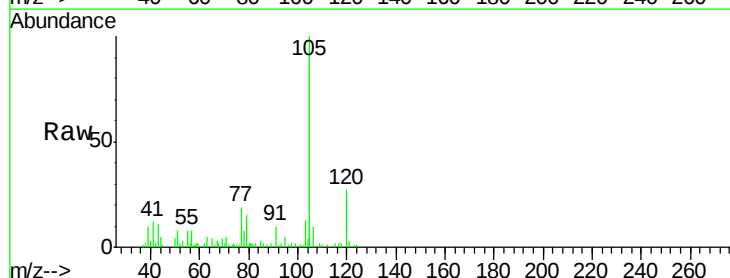
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.0  | 38.0  | 114.0 |
| 150     | 156.9 | 0.0   | 346.4 |

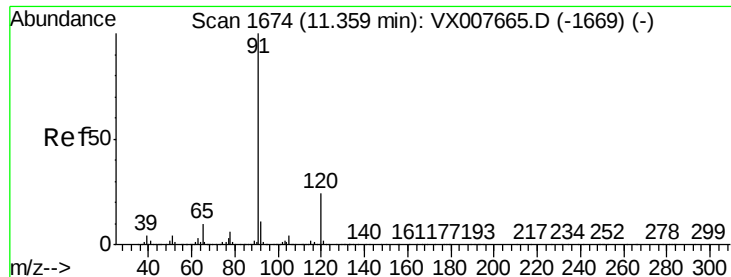


#73

Isopropylbenzene  
Concen: 0.521 ug/l  
RT: 11.02 min Scan# 1618  
Delta R.T. -0.00 min  
Lab File: VX007746.D  
Acq: 27 Feb 2019 20:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.2  | 13.6  | 40.7  |





#78

n-propylbenzene

Concen: 0.491 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

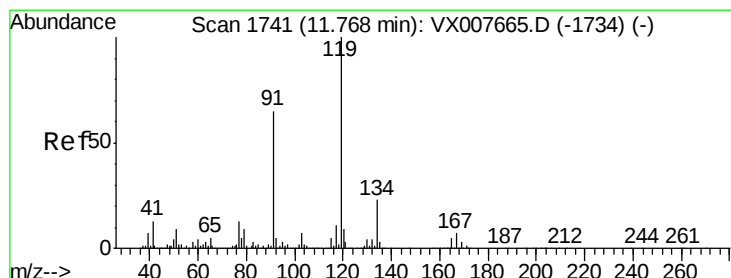
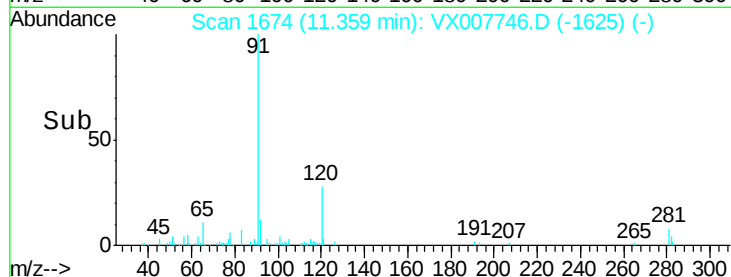
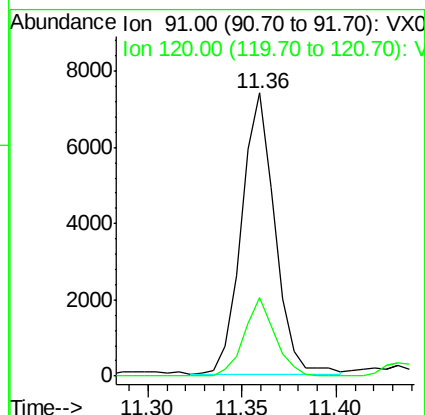
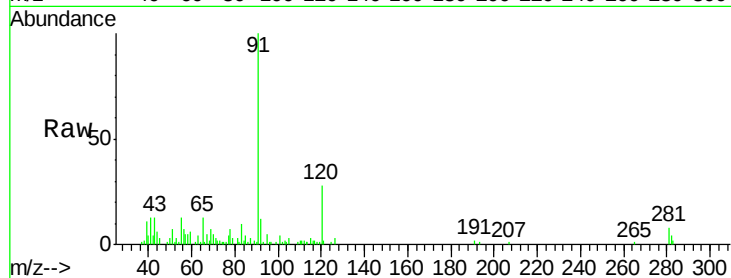
MW-1R

Tot Ion: 91 Resp: 9051

Ion Ratio Lower Upper

91 100

120 25.6 12.4 37.2



#83

tert-Butylbenzene

Concen: 0.250 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

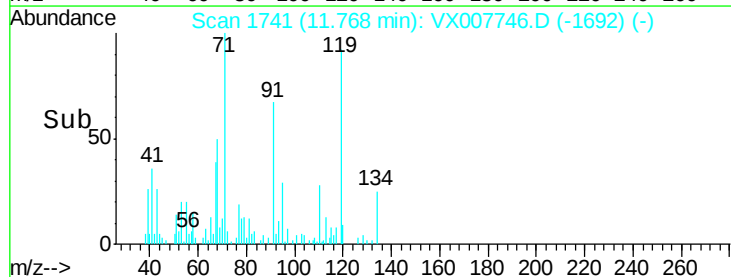
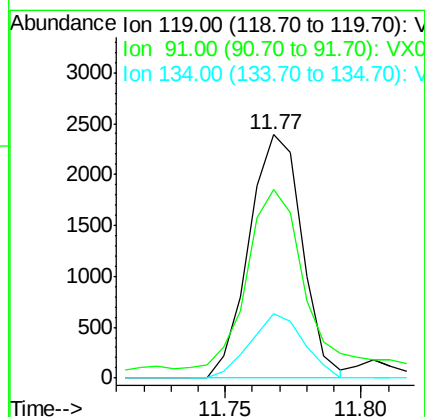
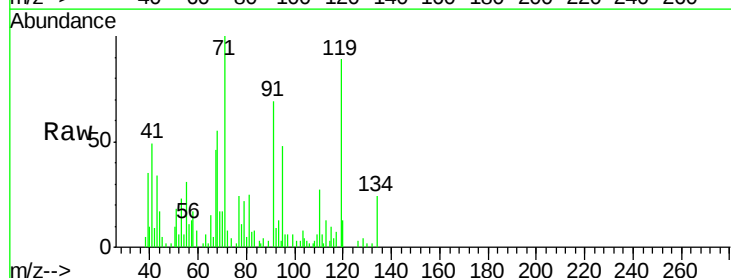
Tgt Ion: 119 Resp: 3220

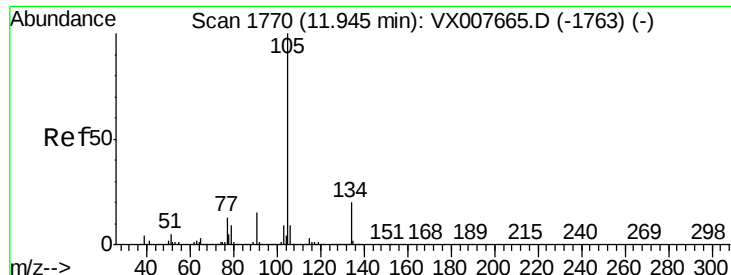
Ion Ratio Lower Upper

119 100

91 81.8 28.5 85.6

134 26.8 12.0 36.0





#85

sec-Butylbenzene

Concen: 0.940 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX007746.D

Acq: 27 Feb 2019 20:44

Instrument :

MSVOA\_X

ClientSampleId :

MW-1R

Tot Ion:105 Resp: 15166

Ion Ratio Lower Upper

105 100

134 32.6 10.6 31.8#

