

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021519\  
 Data File : VX007557.D  
 Acq On : 14 Feb 2019 20:21  
 Operator : JC/SP  
 Sample : K1474-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY001MW079-190211

Quant Time: Feb 15 10:10:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 558142   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 840297   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 805034   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 461809   | 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   | 288364   | 48.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.36%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 266413   | 48.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.46%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1035145  | 51.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.06% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 448414   | 60.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 121.10% |          |

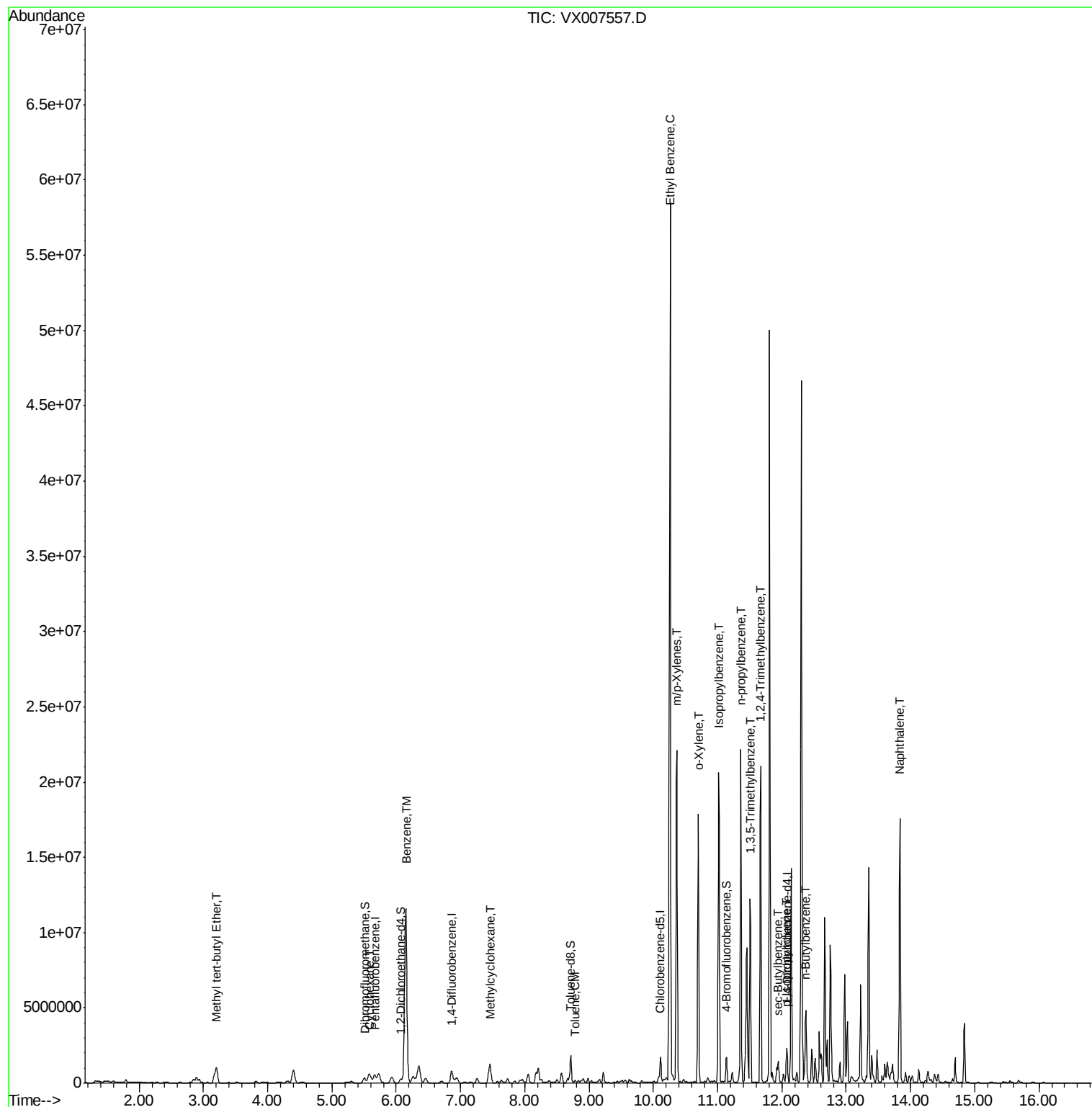
| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 19) Methyl tert-butyl Ether | 3.20  | 73   | 1095071  | 63.428  | ug/l # | 89     |
| 31) Cyclohexane             | 5.59  | 56   | 426609   | 51.785  | ug/l   | 98     |
| 39) Methylcyclohexane       | 7.46  | 83   | 543058   | 59.533  | ug/l   | 94     |
| 40) Benzene                 | 6.15  | 78   | 13735060 | 618.445 | ug/l   | 99     |
| 52) Toluene                 | 8.79  | 92   | 39504    | 2.757   | ug/l   | 98     |
| 67) Ethyl Benzene           | 10.25 | 91   | 18504939 | 654.112 | ug/l # | 37     |
| 68) m/p-Xylenes             | 10.37 | 106  | 4938539  | 439.149 | ug/l   | 97     |
| 69) o-Xylene                | 10.70 | 106  | 3808750  | 351.972 | ug/l   | 100    |
| 73) Isopropylbenzene        | 11.02 | 105  | 10062038 | 320.627 | ug/l   | 96     |
| 78) n-propylbenzene         | 11.36 | 91   | 11879712 | 345.212 | ug/l   | 93     |
| 80) 1,3,5-Trimethylbenzene  | 11.51 | 105  | 5065539  | 197.298 | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene  | 11.67 | 105  | 9719356  | 372.878 | ug/l   | 81     |
| 85) sec-Butylbenzene        | 11.94 | 105  | 549501   | 17.861  | ug/l   | 97     |
| 86) p-Isopropyltoluene      | 12.07 | 119  | 158427   | 5.705   | ug/l # | 78     |
| 89) n-Butylbenzene          | 12.38 | 91   | 772491   | 32.334  | ug/l # | 30     |
| 95) Naphthalene             | 13.83 | 128  | 10538567 | 338.375 | ug/l   | 97     |

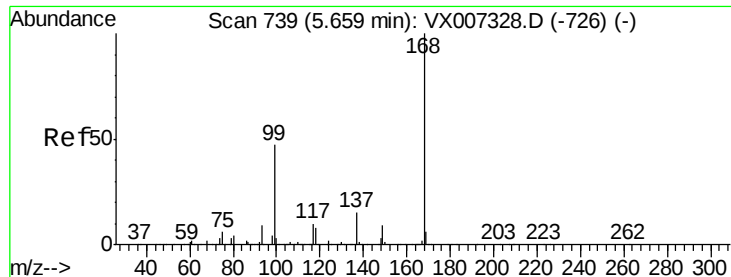
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021519\  
Data File : VX007557.D  
Acq On : 14 Feb 2019 20:21  
Operator : JC/SP  
Sample : K1474-03  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY001MW079-190211

Quant Time: Feb 15 10:10:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

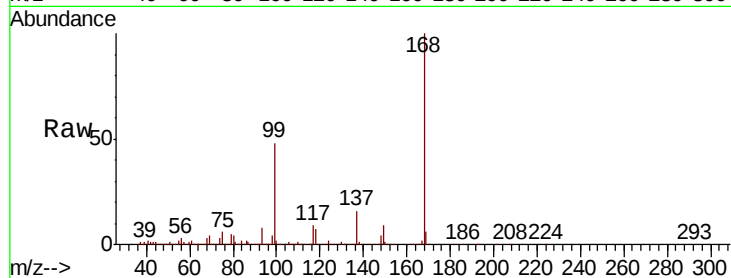
KY001MW079-190211

Tot Ion:168 Resp: 558142

Ion Ratio Lower Upper

168 100

99 48.0 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

150000

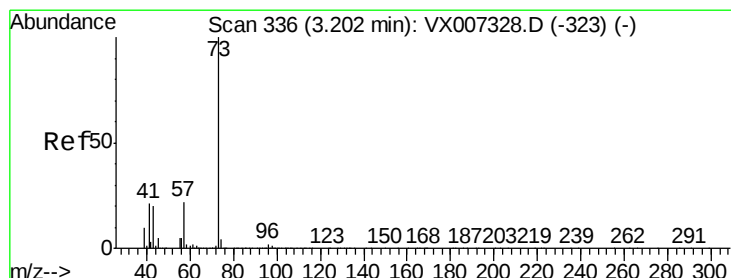
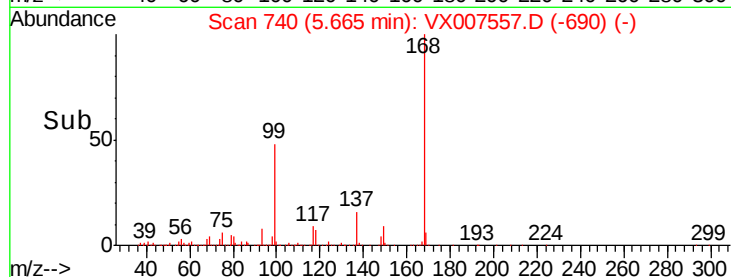
100000

50000

0

5.60 5.70 5.80

Time-->



#19

Methyl tert-butyl Ether

Concen: 63.428 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX007557.D

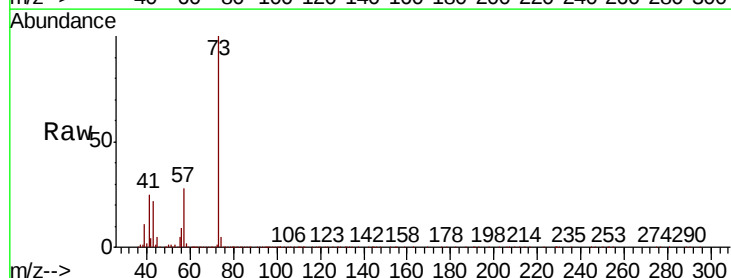
Acq: 14 Feb 2019 20:21

Tgt Ion: 73 Resp: 1095071

Ion Ratio Lower Upper

73 100

57 27.5 17.8 26.8#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.20

500000

400000

300000

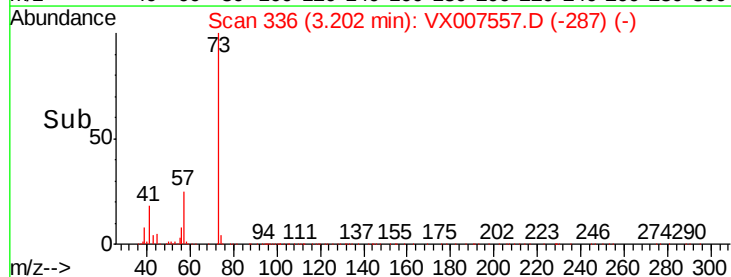
200000

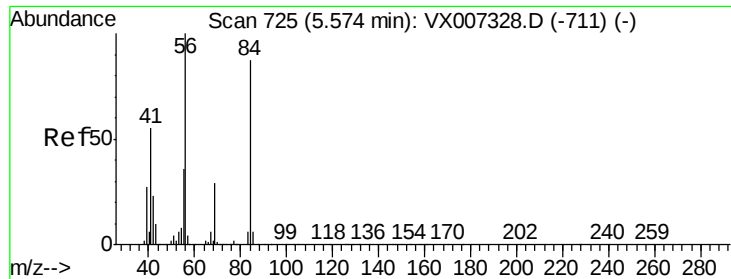
100000

0

3.00 3.10 3.20 3.30

Time-->

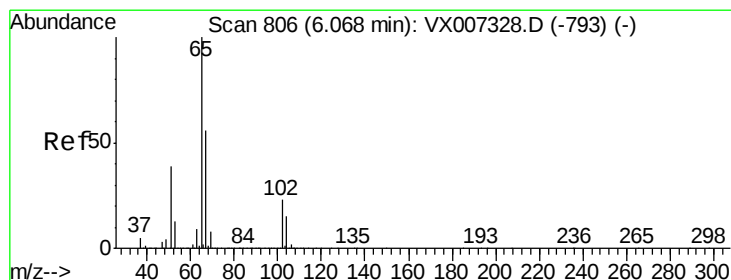
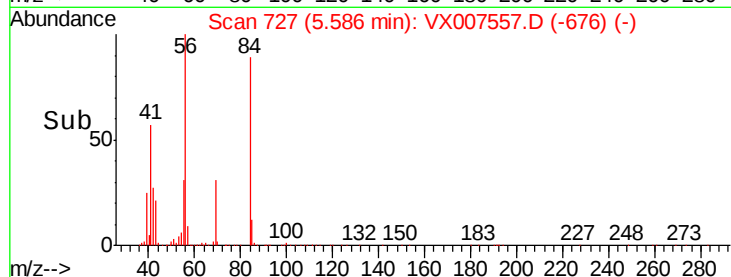
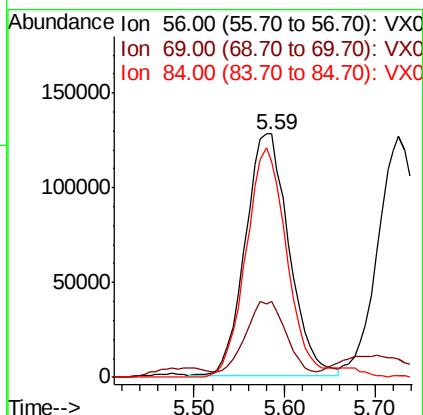
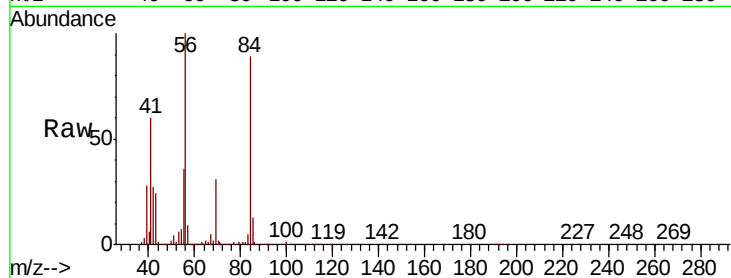




#31  
Cyclohexane  
Concen: 51.785 ug/l  
RT: 5.59 min Scan# 727  
Delta R.T. 0.01 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

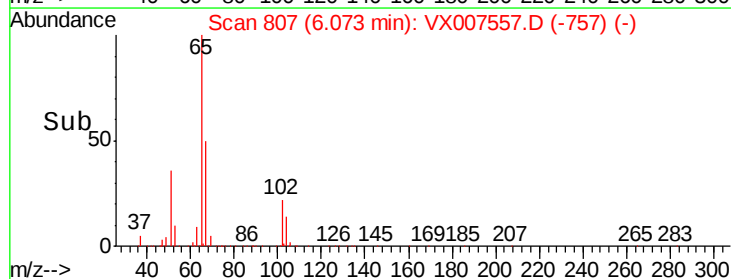
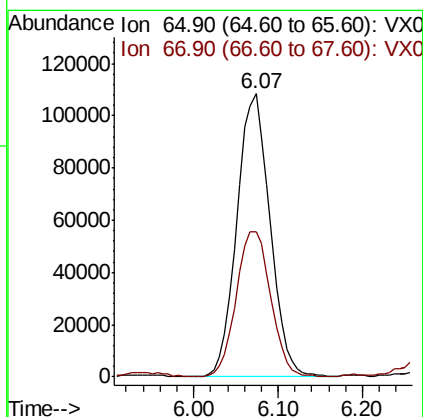
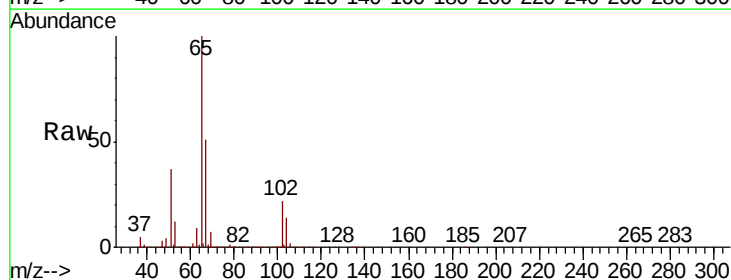
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY001MW079-190211

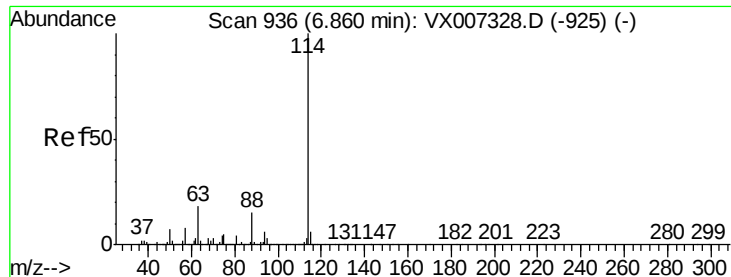
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 27.6  | 23.0  | 34.6  |
| 84      | 89.2  | 69.8  | 104.6 |



#33  
1,2-Dichloroethane-d4  
Concen: 48.675 ug/l  
RT: 6.07 min Scan# 807  
Delta R.T. 0.01 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.1  | 0.0   | 108.8 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

KY001MW079-190211

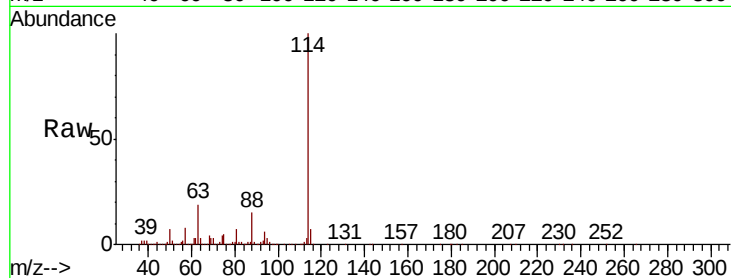
Tot Ion:114 Resp: 840297

Ion Ratio Lower Upper

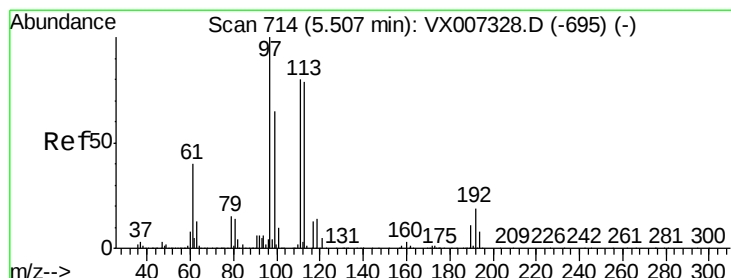
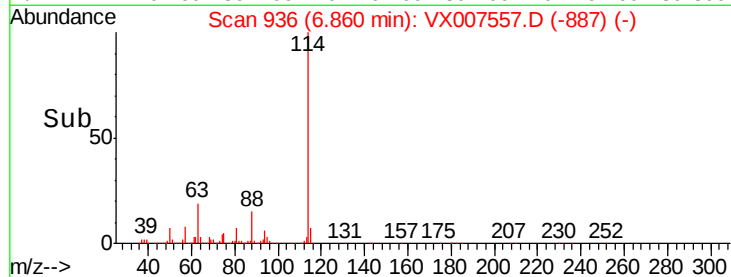
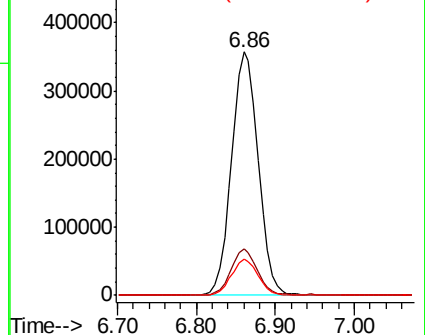
114 100

63 19.1 0.0 35.6

88 14.8 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



#35

Dibromofluoromethane

Concen: 48.727 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

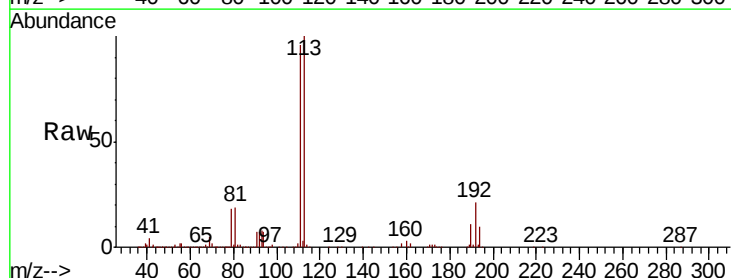
Tgt Ion:113 Resp: 266413

Ion Ratio Lower Upper

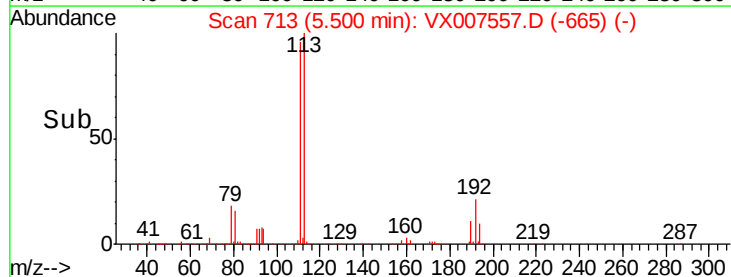
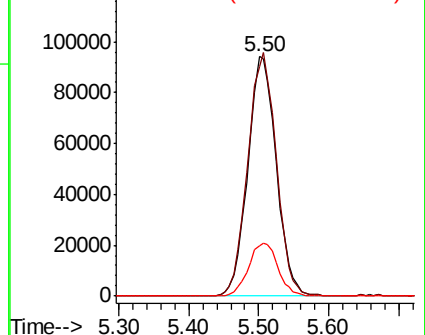
113 100

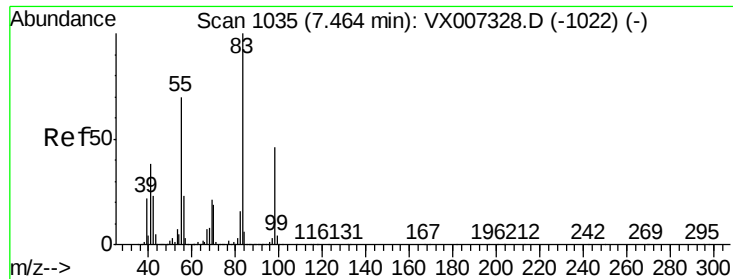
111 102.0 81.8 122.8

192 22.8 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

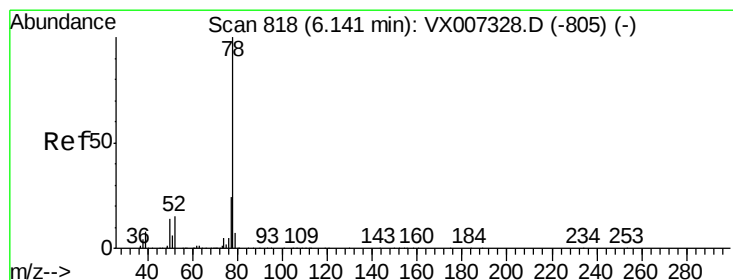
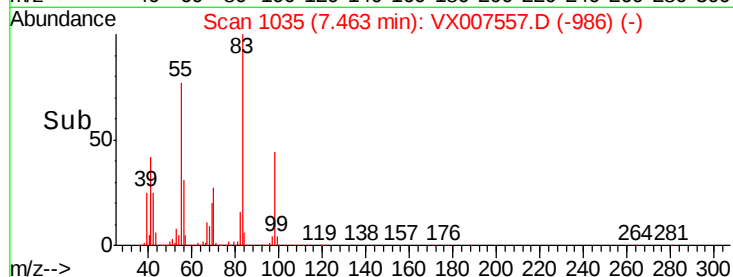
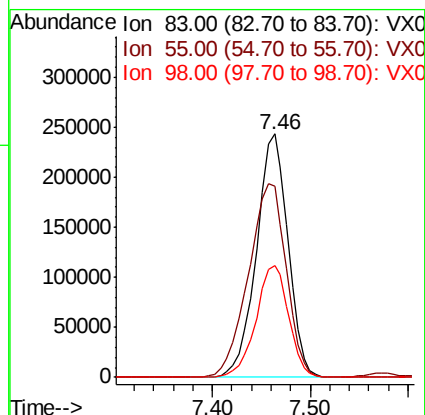
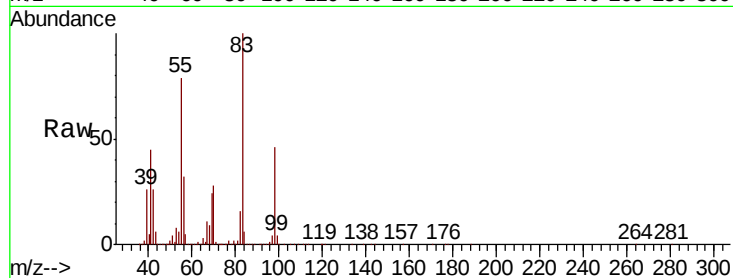




#39  
Methylvlcyclohexane  
Concen: 59.533 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

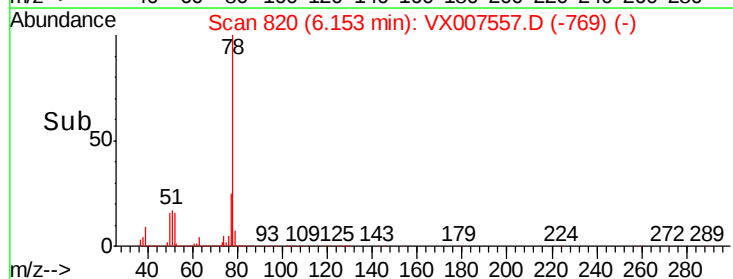
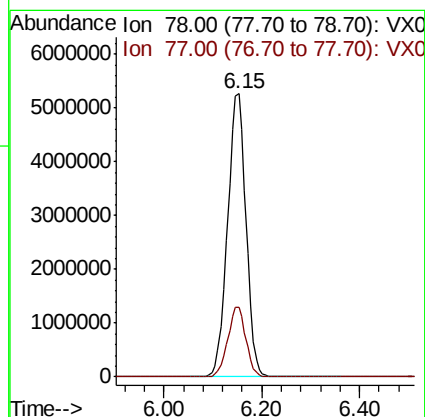
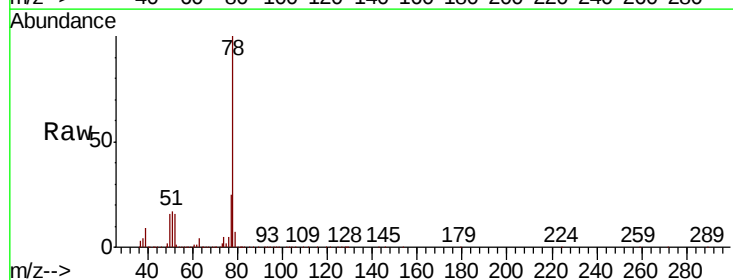
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY001MW079-190211

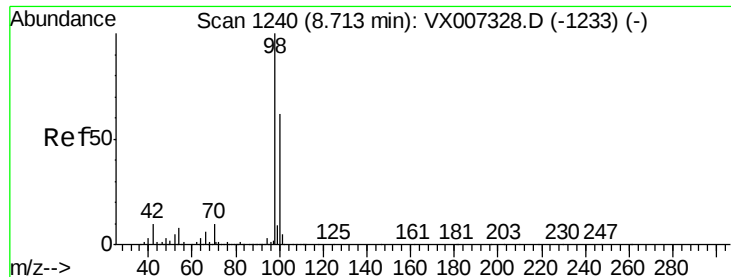
Tot Ion: 83 Resp: 543058  
Ion Ratio Lower Upper  
83 100  
55 78.4 56.2 84.2  
98 46.0 36.8 55.2



#40  
Benzene  
Concen: 618.445 ug/l  
RT: 6.15 min Scan# 820  
Delta R.T. 0.01 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

Tgt Ion: 78 Resp:13735060  
Ion Ratio Lower Upper  
78 100  
77 24.6 19.3 28.9





#50

Toluene-d8

Concen: 51.029 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

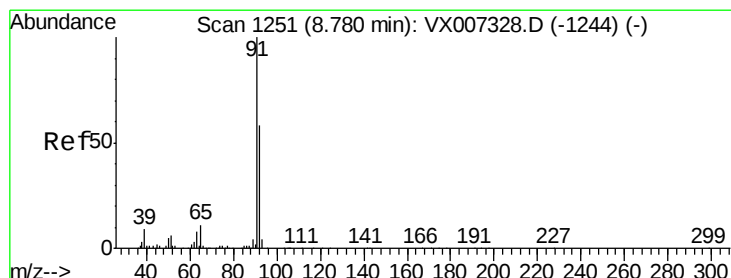
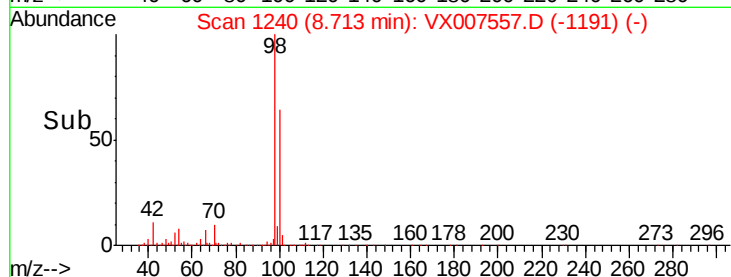
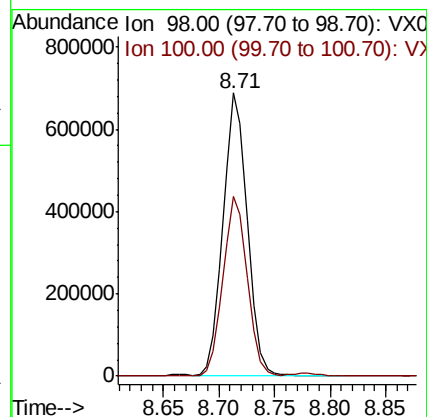
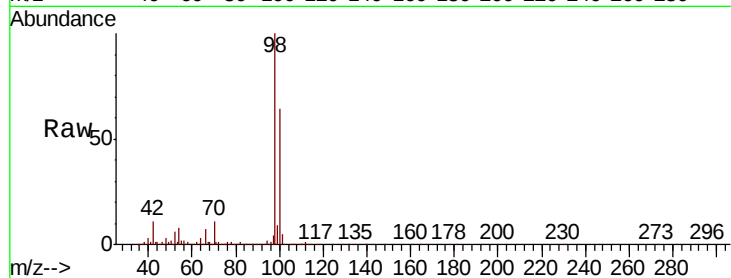
KY001MW079-190211

Tot Ion: 98 Resp: 1035145

Ion Ratio Lower Upper

98 100

100 63.5 51.6 77.4



#52

Toluene

Concen: 2.757 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007557.D

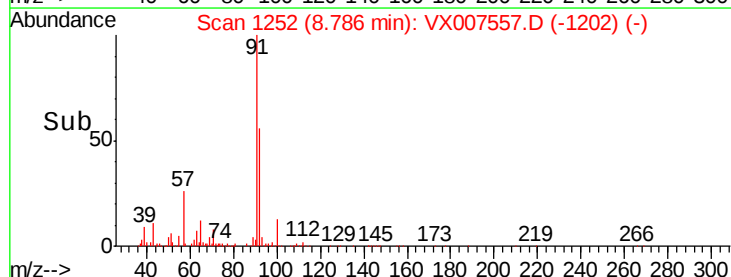
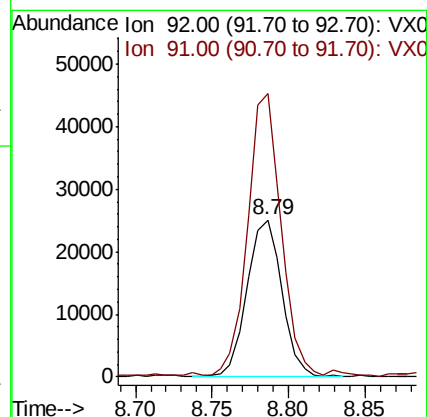
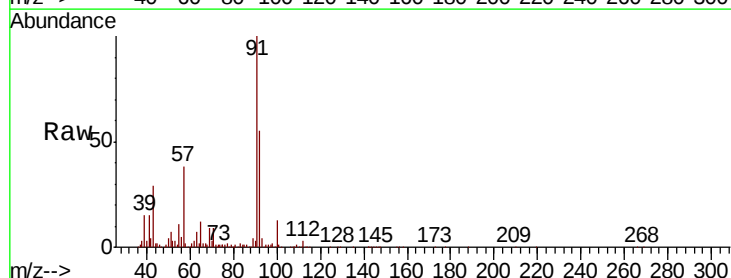
Acq: 14 Feb 2019 20:21

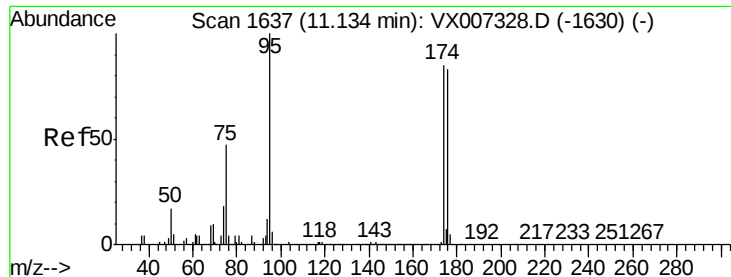
Tgt Ion: 92 Resp: 39504

Ion Ratio Lower Upper

92 100

91 170.9 139.1 208.7





#62

4-Bromofluorobenzene

Concen: 60.546 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

KY001MW079-190211

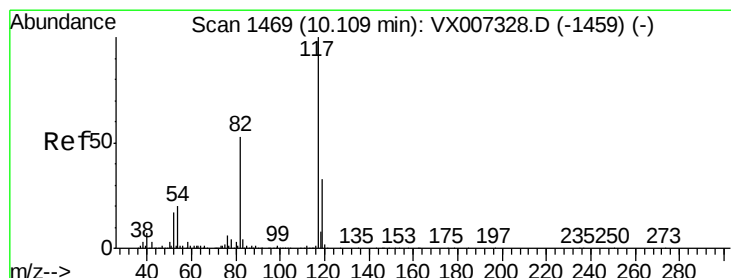
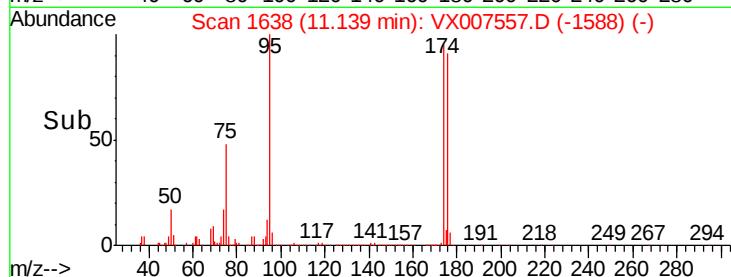
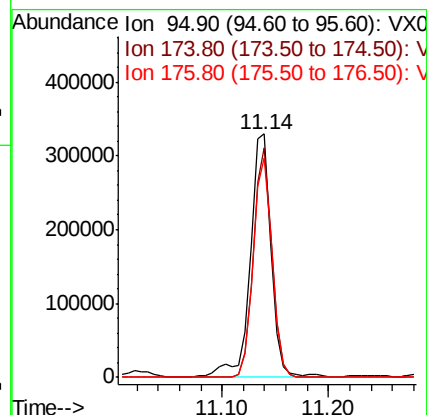
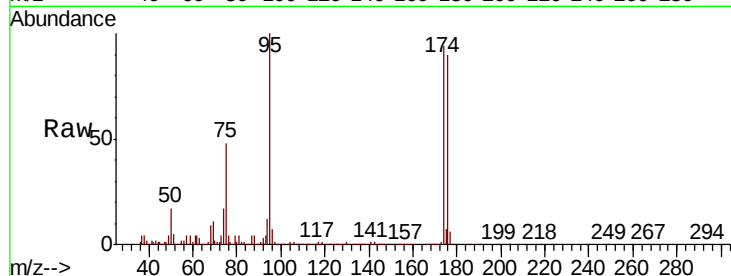
Tot Ion: 95 Resp: 448414

Ion Ratio Lower Upper

95 100

174 84.8 0.0 189.2

176 82.6 0.0 186.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

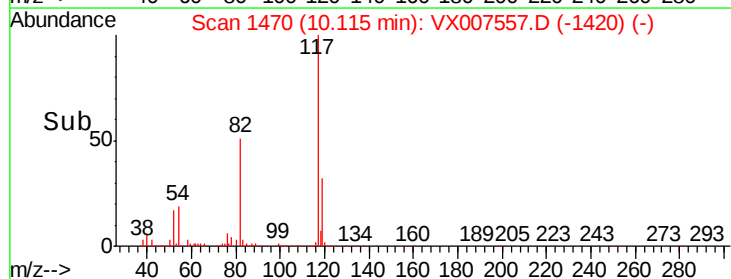
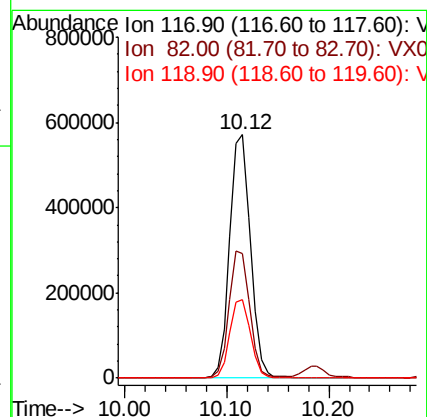
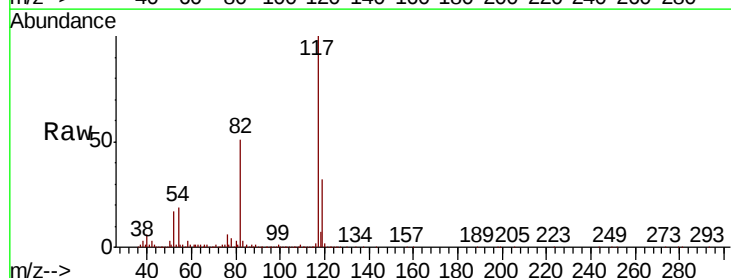
Tgt Ion: 117 Resp: 805034

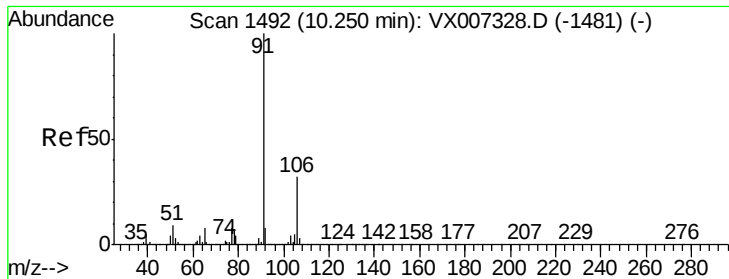
Ion Ratio Lower Upper

117 100

82 50.9 42.1 63.1

119 32.5 26.5 39.7





#67

Ethyl Benzene

Concen: 654.112 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

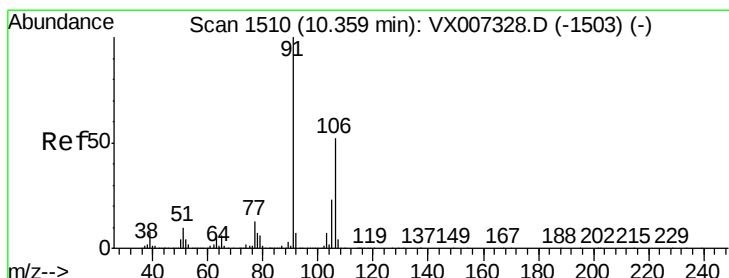
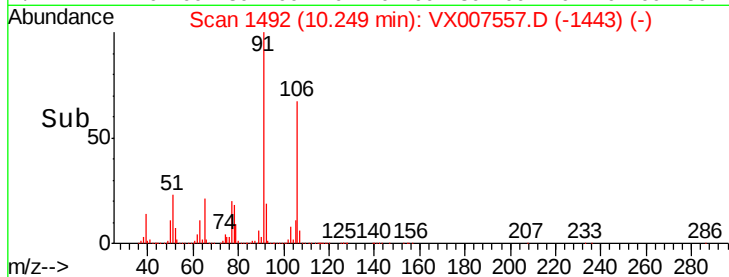
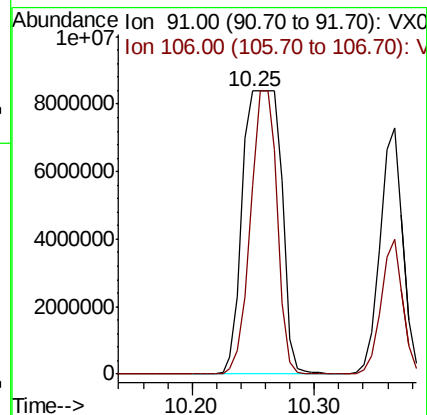
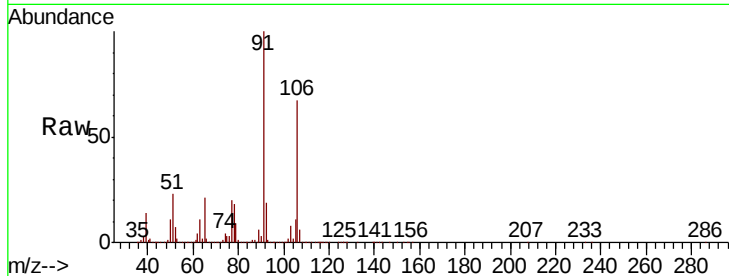
KY001MW079-190211

Tot Ion: 91 Resp:18504939

Ion Ratio Lower Upper

91 100

106 66.7 25.4 38.0#



#68

m/p-Xylenes

Concen: 439.149 ug/l

RT: 10.37 min Scan# 1511

Delta R.T. 0.01 min

Lab File: VX007557.D

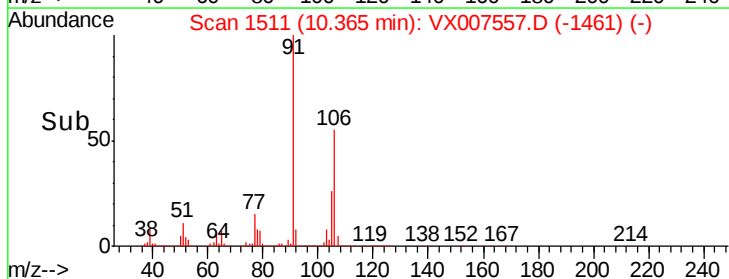
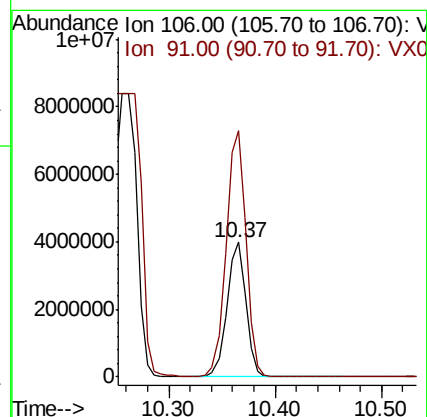
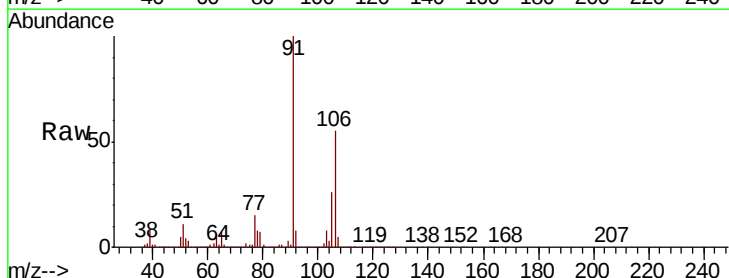
Acq: 14 Feb 2019 20:21

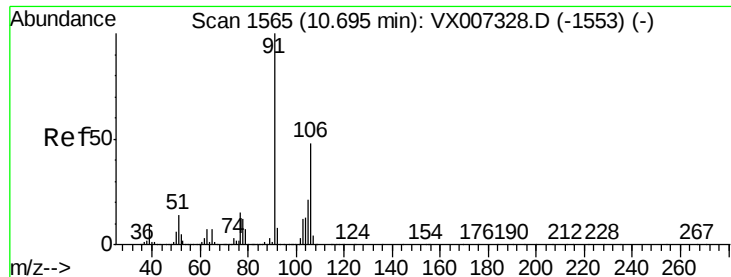
Tgt Ion:106 Resp: 4938539

Ion Ratio Lower Upper

106 100

91 191.2 156.6 234.8

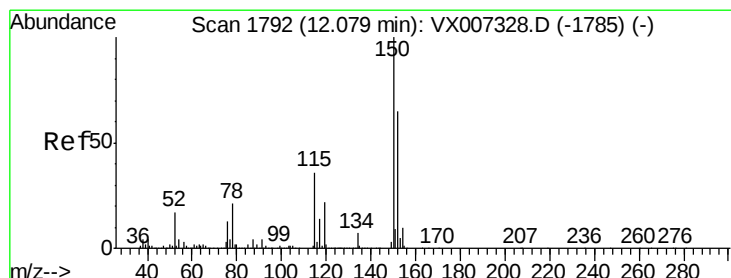
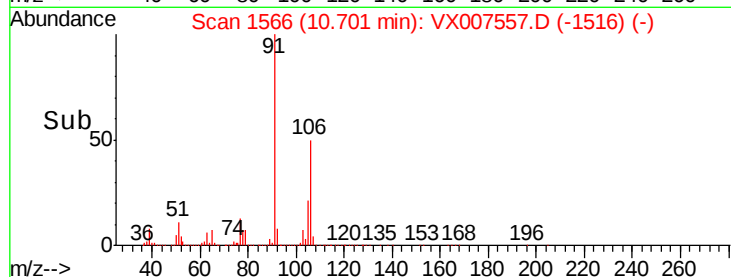
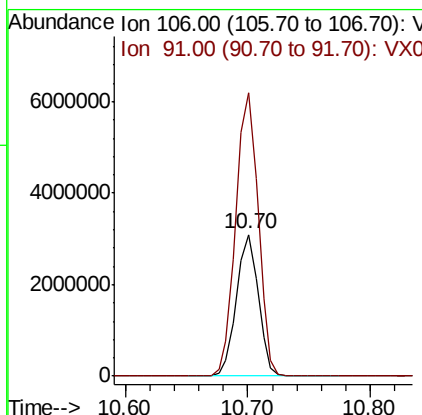
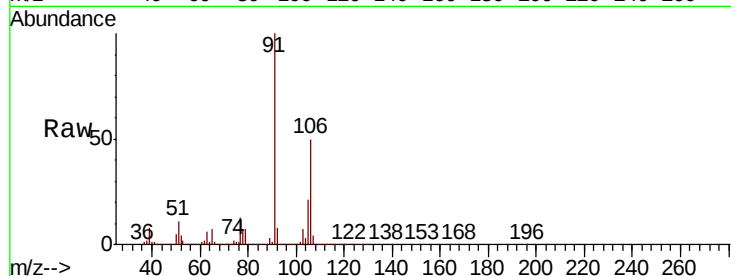




#69  
o-Xylene  
Concen: 351.972 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. 0.01 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

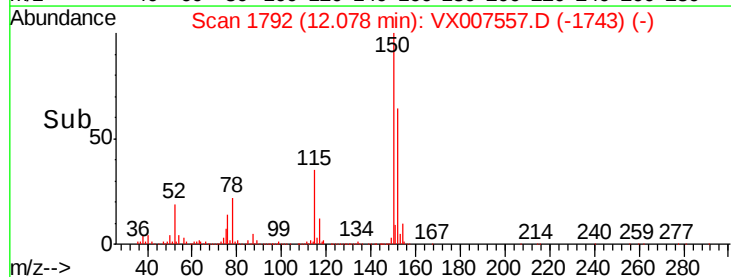
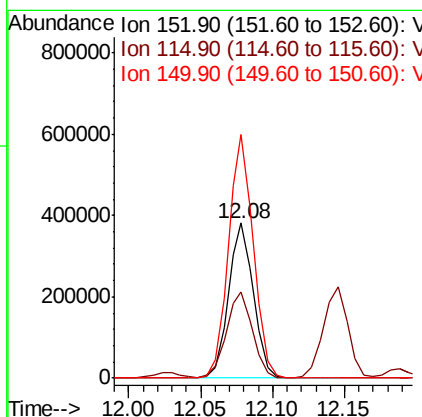
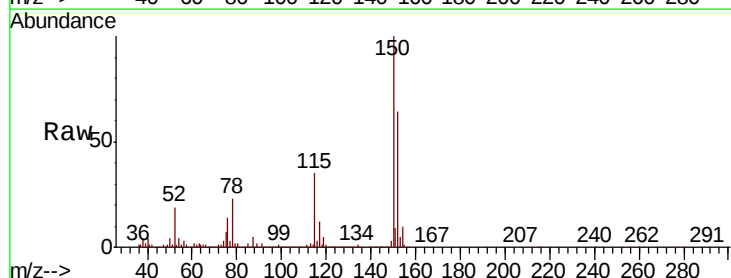
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY001MW079-190211

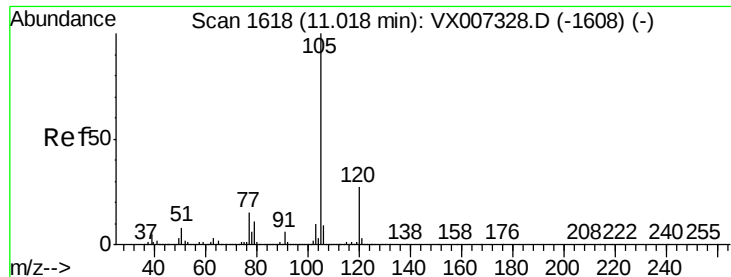
Tot Ion:106 Resp: 3808750  
Ion Ratio Lower Upper  
106 100  
91 206.0 102.9 308.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

Tgt Ion:152 Resp: 461809  
Ion Ratio Lower Upper  
152 100  
115 57.7 38.0 114.0  
150 156.9 0.0 346.4





#73

Isopropylbenzene

Concen: 320.627 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

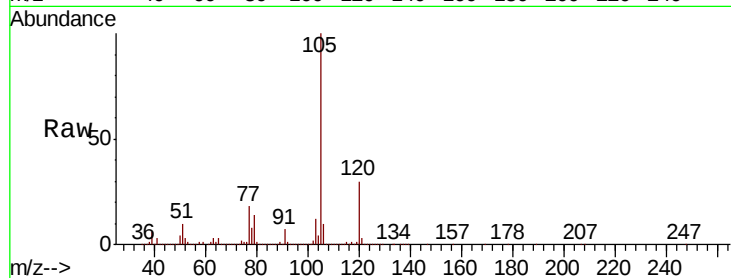
KY001MW079-190211

Tot Ion:105 Resp:10062038

Ion Ratio Lower Upper

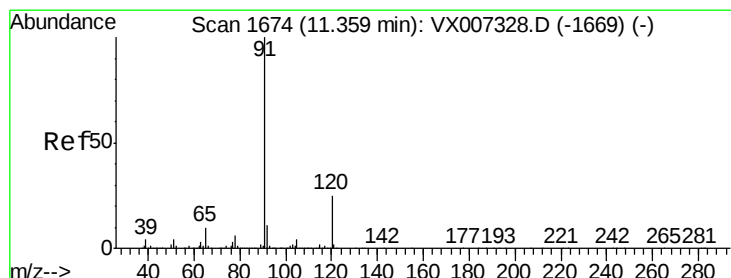
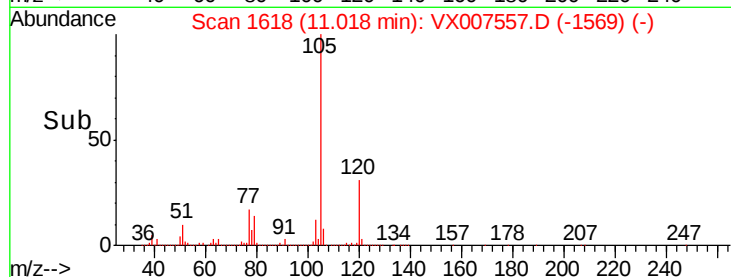
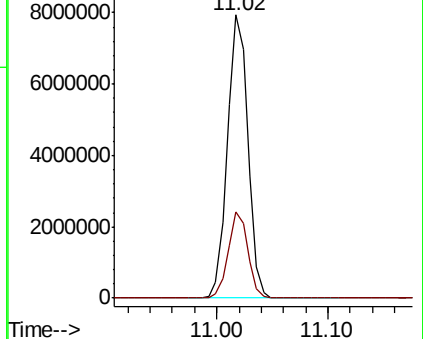
105 100

120 29.0 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 345.212 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007557.D

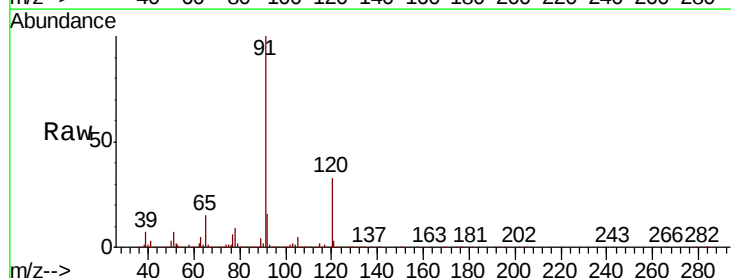
Acq: 14 Feb 2019 20:21

Tgt Ion: 91 Resp:11879712

Ion Ratio Lower Upper

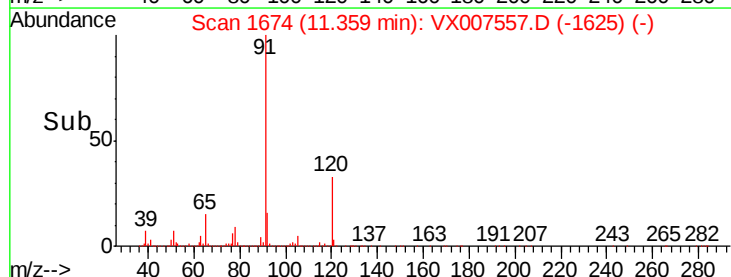
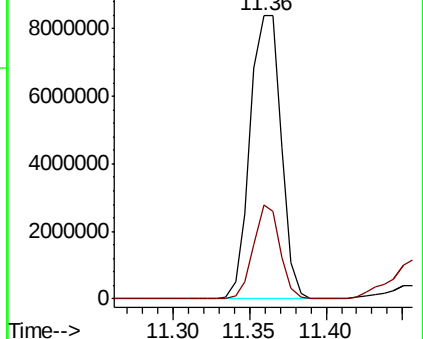
91 100

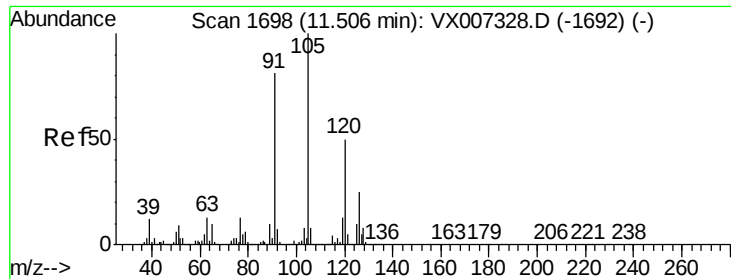
120 28.3 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

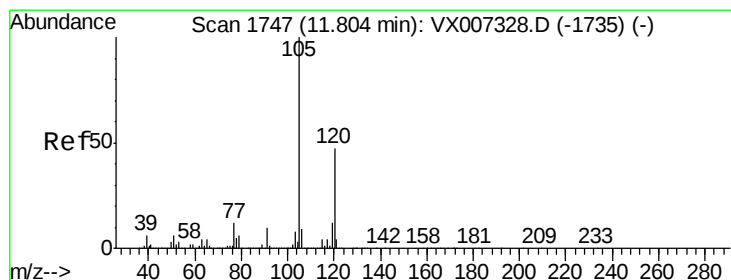
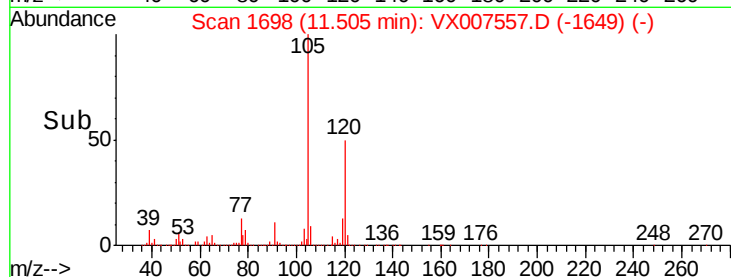
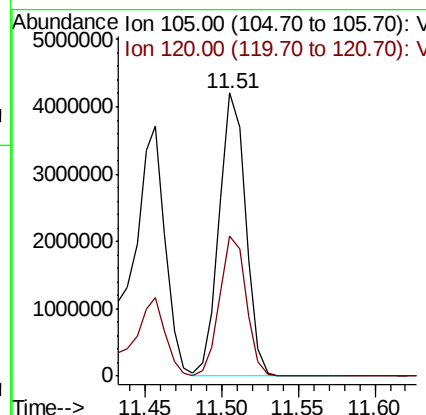
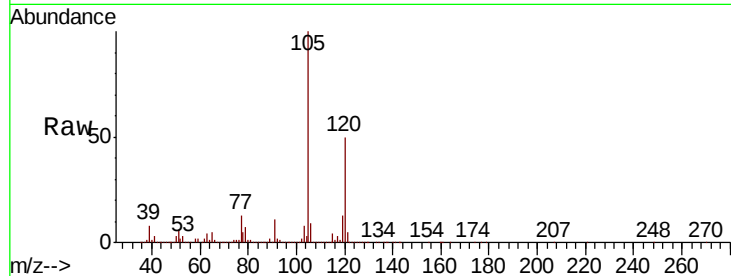




#80  
 1,3,5-Trimethylbenzene  
 Concen: 197.298 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. -0.00 min  
 Lab File: VX007557.D  
 Acq: 14 Feb 2019 20:21

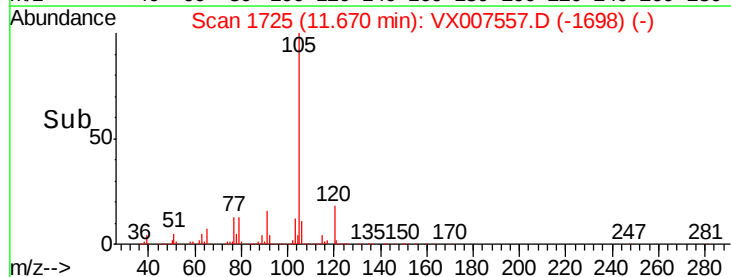
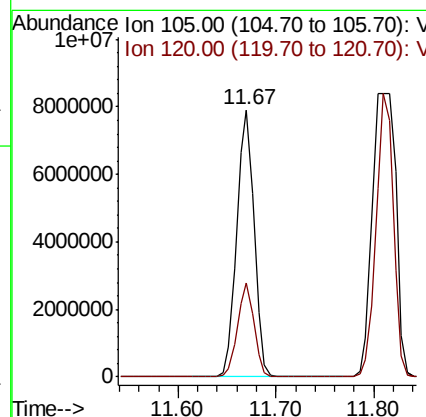
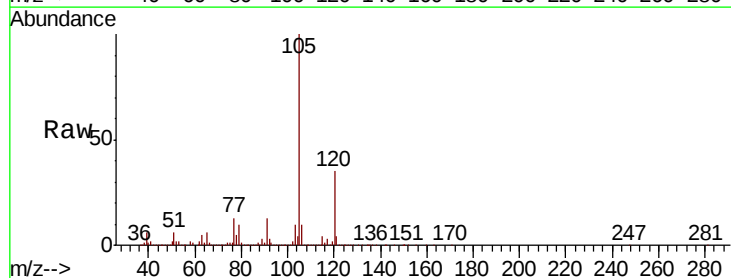
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY001MW079-190211

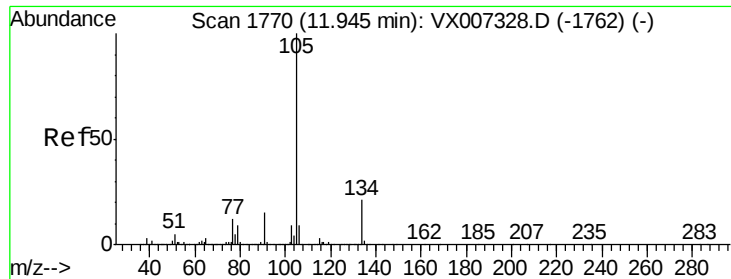
Tot Ion:105 Resp: 5065539  
 Ion Ratio Lower Upper  
 105 100  
 120 49.7 25.3 75.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 372.878 ug/l  
 RT: 11.67 min Scan# 1725  
 Delta R.T. -0.13 min  
 Lab File: VX007557.D  
 Acq: 14 Feb 2019 20:21

Tgt Ion:105 Resp: 9719356  
 Ion Ratio Lower Upper  
 105 100  
 120 33.5 23.1 69.3





#85

sec-Butylbenzene

Concen: 17.861 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

Instrument :

MSVOA\_X

ClientSampleId :

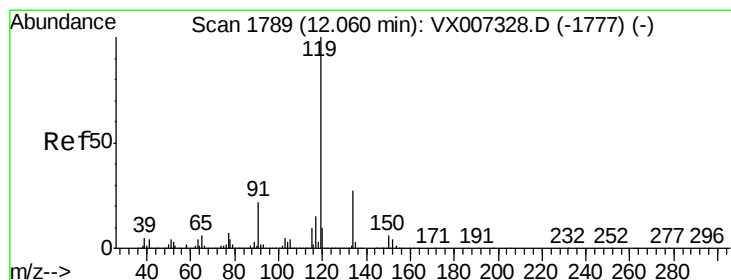
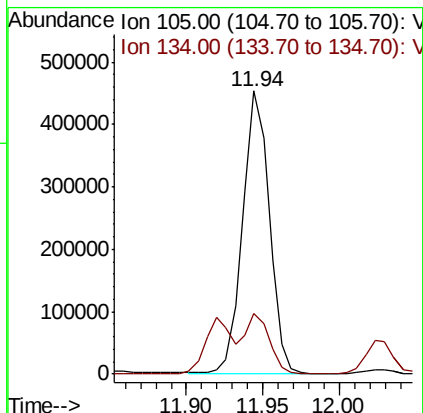
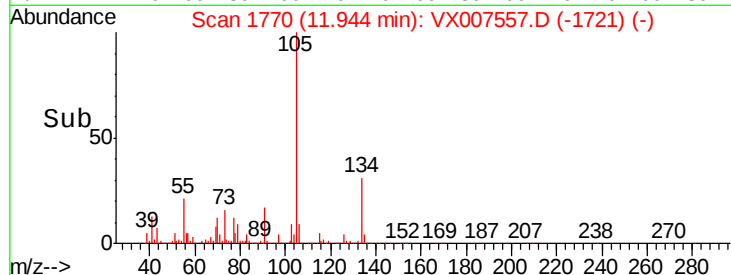
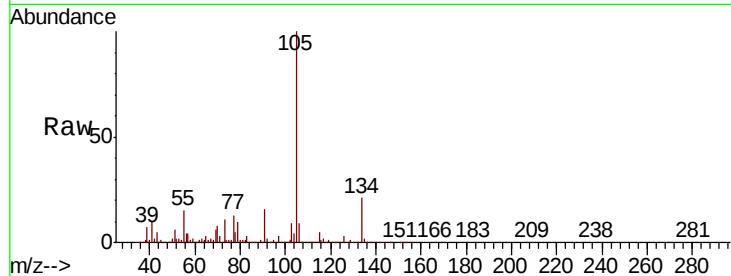
KY001MW079-190211

Tot Ion:105 Resp: 549501

Ion Ratio Lower Upper

105 100

134 19.7 10.6 31.8



#86

p-Isopropyltoluene

Concen: 5.705 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.01 min

Lab File: VX007557.D

Acq: 14 Feb 2019 20:21

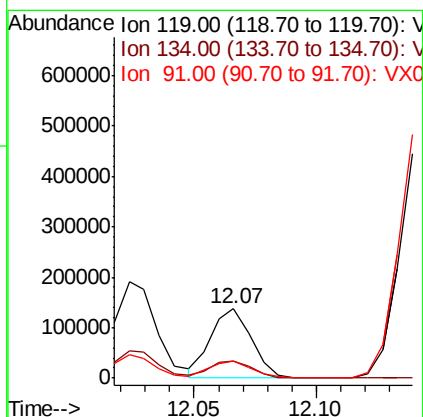
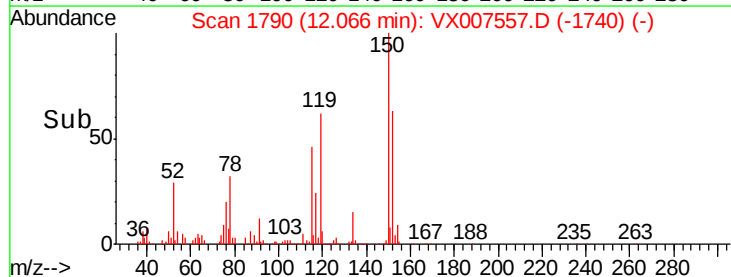
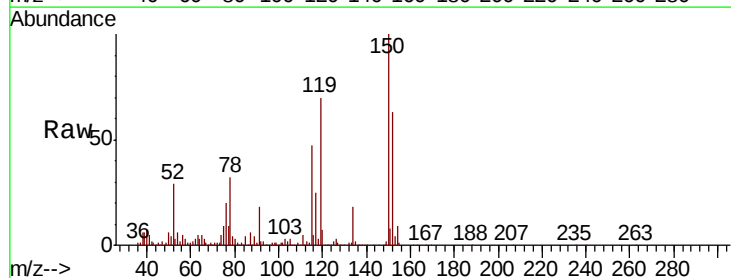
Tgt Ion:119 Resp: 158427

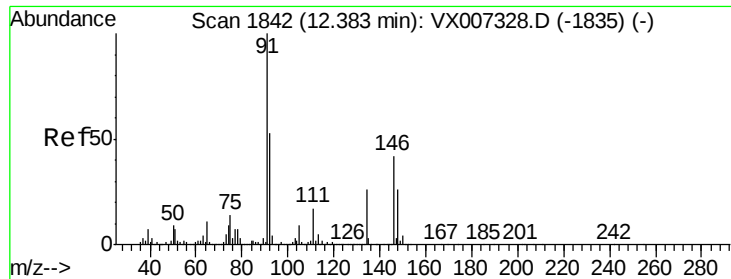
Ion Ratio Lower Upper

119 100

134 26.5 13.7 41.1

91 0.0 11.2 33.5#

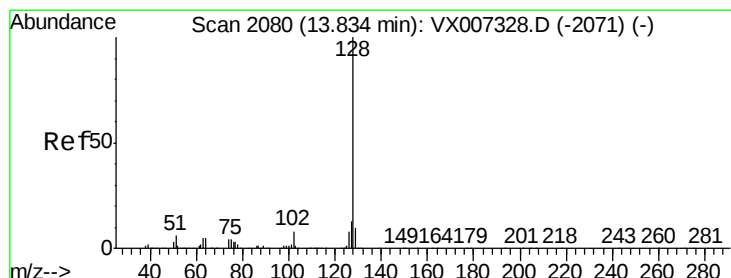
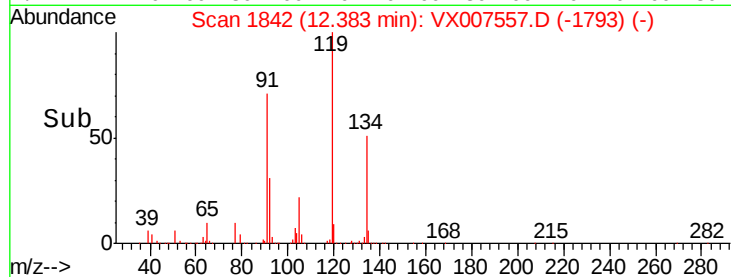
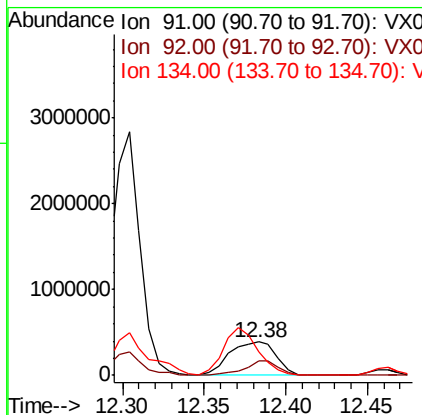
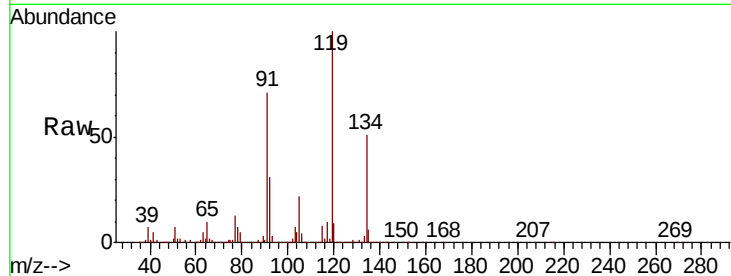




#89  
n-Butylbenzene  
Concen: 32.334 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY001MW079-190211

Tot Ion: 91 Resp: 772491  
Ion Ratio Lower Upper  
91 100  
92 32.5 26.3 78.9  
134 106.2 13.9 41.6#



#95  
Naphthalene  
Concen: 338.375 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX007557.D  
Acq: 14 Feb 2019 20:21

Tgt Ion: 128 Resp: 10538567  
Ion Ratio Lower Upper  
128 100  
127 14.0 10.5 15.7  
129 12.1 8.7 13.1

