

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100518\  
 Data File : VX005099.D  
 Acq On : 06 Oct 2018 06:52  
 Operator : JC/MD  
 Sample : J5259-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA18-QBC1

Quant Time: Oct 08 01:27:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 233670   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 328248   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 318673   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 185549   | 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   | 173342   | 51.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.86% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 149207   | 53.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.26% |          |
| 50) Toluene-d8              | 8.72  | 98   | 469312   | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 174277   | 52.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.62% |          |

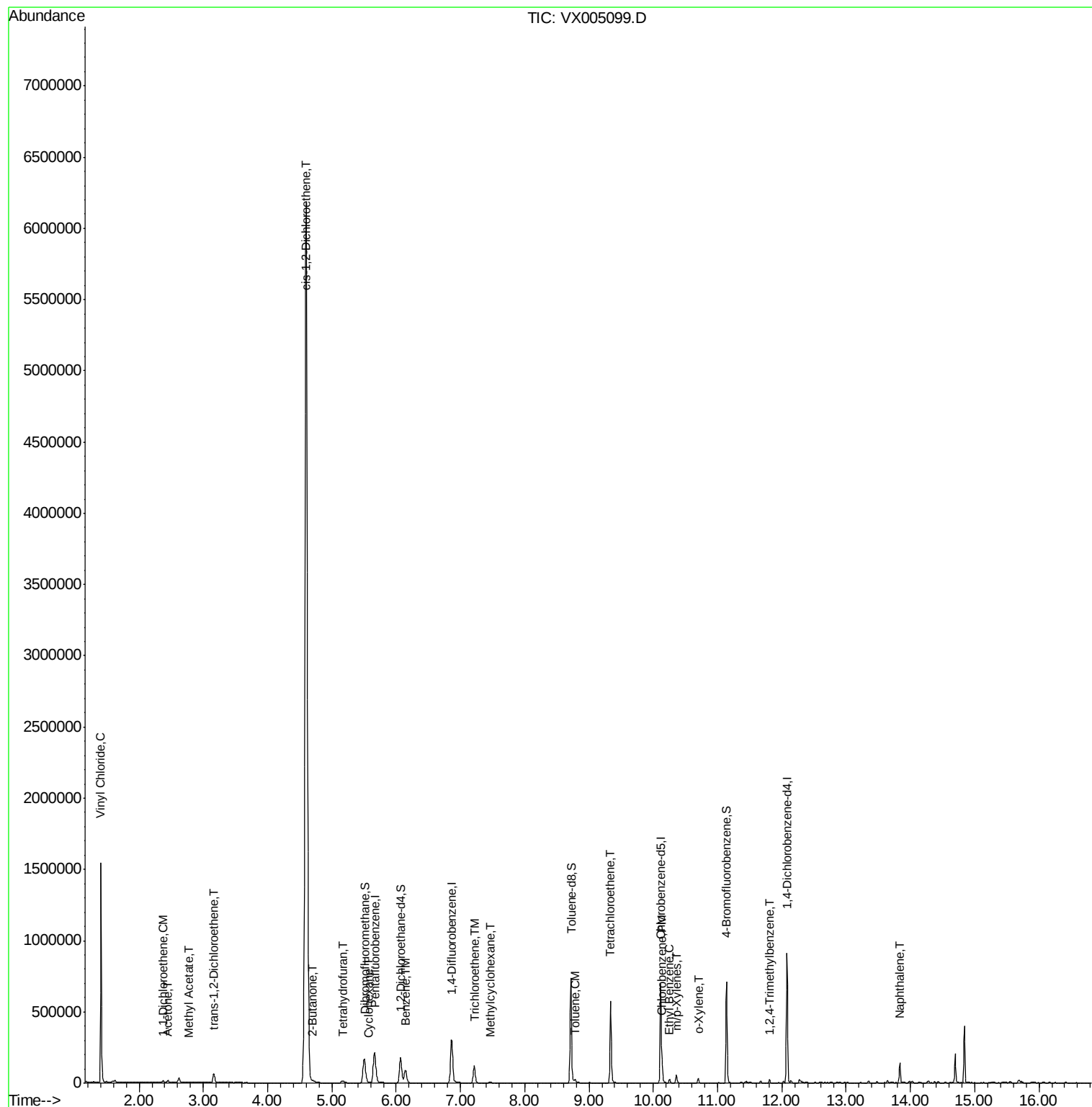
| Target Compounds             | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|------------------------------|-------|------|----------|----------|--------|--------|
| 4) Vinyl Chloride            | 1.40  | 62   | 954194   | 263.198  | ug/l   | 98     |
| 12) 1,1-Dichloroethene       | 2.37  | 96   | 3906     | 1.543    | ug/l   | 92     |
| 16) Acetone                  | 2.45  | 43   | 13773    | 7.068    | ug/l   | 93     |
| 18) Methyl Acetate           | 2.78  | 43   | 3432     | 0.695    | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene | 3.16  | 96   | 24404    | 8.805    | ug/l # | 79     |
| 25) 2-Butanone               | 4.71  | 43   | 8363     | 2.911    | ug/l   | 93     |
| 27) cis-1,2-Dichloroethene   | 4.60  | 96   | 4038070  | 1304.177 | ug/l   | 89     |
| 29) Tetrahydrofuran          | 5.17  | 42   | 12991    | 7.276    | ug/l   | 98     |
| 31) Cyclohexane              | 5.57  | 56   | 2266     | 0.534    | ug/l   | 90     |
| 39) Methylcyclohexane        | 7.46  | 83   | 3332     | 0.860    | ug/l # | 80     |
| 40) Benzene                  | 6.15  | 78   | 108976   | 9.171    | ug/l   | 97     |
| 44) Trichloroethene          | 7.22  | 130  | 51020    | 17.466   | ug/l   | 75     |
| 52) Toluene                  | 8.79  | 92   | 6279     | 0.962    | ug/l   | 98     |
| 64) Tetrachloroethene        | 9.34  | 164  | 120614   | 38.456   | ug/l   | 96     |
| 65) Chlorobenzene            | 10.14 | 112  | 44454    | 5.440    | ug/l   | 97     |
| 67) Ethyl Benzene            | 10.25 | 91   | 14961    | 1.153    | ug/l   | 90     |
| 68) m/p-Xylenes              | 10.36 | 106  | 12757    | 2.516    | ug/l   | 92     |
| 69) o-Xylene                 | 10.70 | 106  | 7358     | 1.580    | ug/l   | 97     |
| 84) 1,2,4-Trimethylbenzene   | 11.81 | 105  | 10832    | 0.785    | ug/l   | 93     |
| 95) Naphthalene              | 13.83 | 128  | 85619    | 6.187    | ug/l   | 99     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100518\  
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Acq On : 06 Oct 2018 06:52  
Operator : JC/MD  
Sample : J5259-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA18-QBC1

Quant Time: Oct 08 01:27:44 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 03 04:00:03 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampleId :

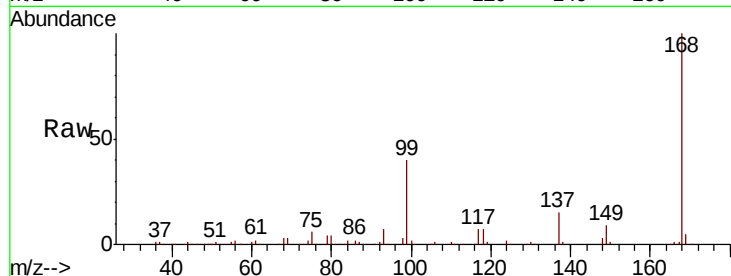
FA18-QBC1

Tot Ion:168 Resp: 233670

Ion Ratio Lower Upper

168 100

99 40.3 39.3 58.9

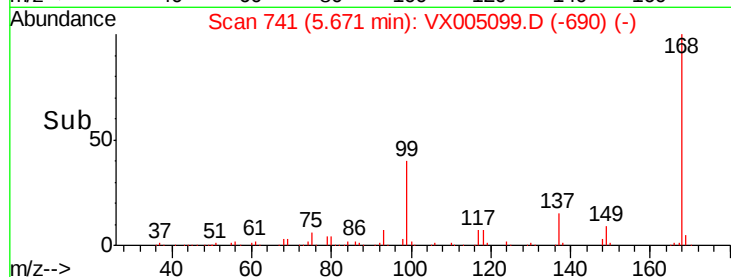


Abundance Ion 167.90 (167.60 to 168.60): V

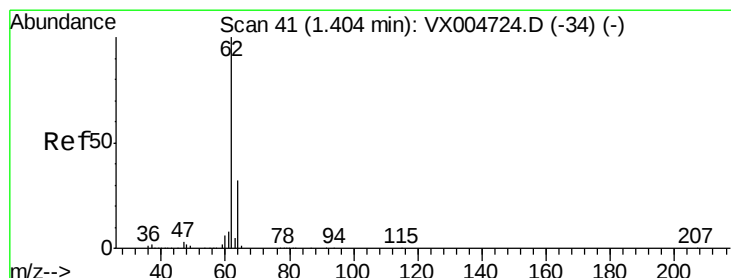
Ion 98.90 (98.60 to 99.60): VX0

5.67

Time-->



Time-->



#4

Vinyl Chloride

Concen: 263.198 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX005099.D

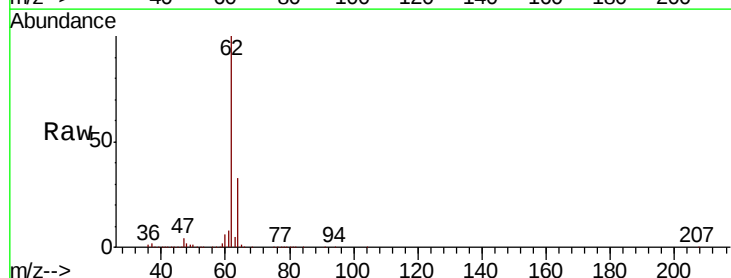
Acq: 06 Oct 2018 06:52

Tgt Ion: 62 Resp: 954194

Ion Ratio Lower Upper

62 100

64 33.0 25.5 38.3

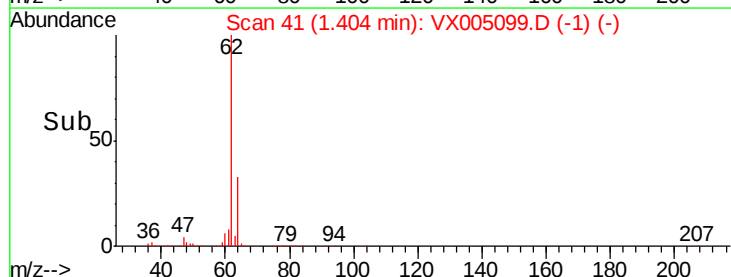


Abundance Ion 61.90 (61.60 to 62.60): VX0

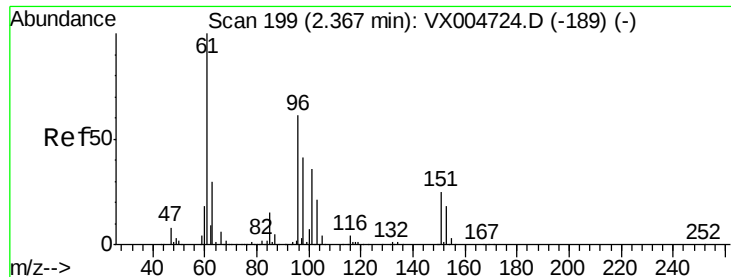
Ion 63.90 (63.60 to 64.60): VX0

1.40

Time-->



Time-->



#12

1,1-Dichloroethene

Concen: 1.543 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampled :

FA18-QBC1

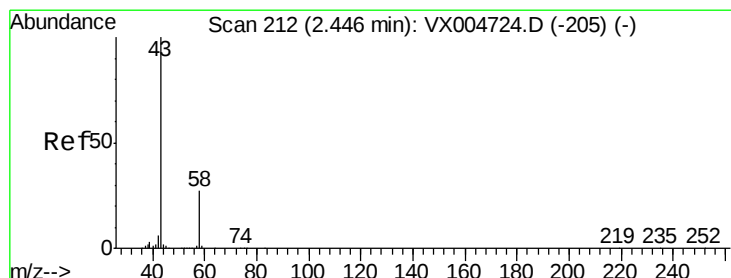
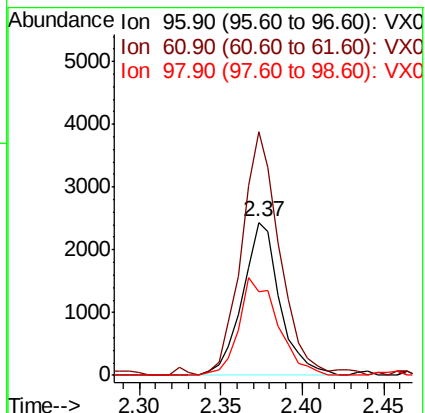
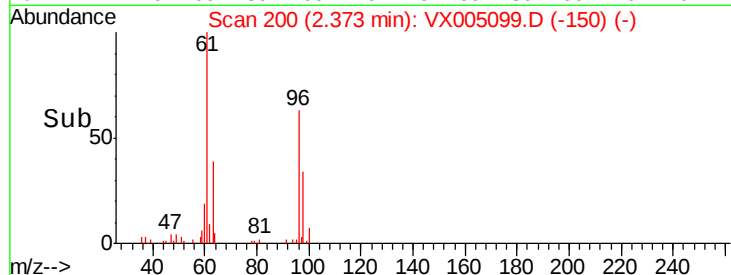
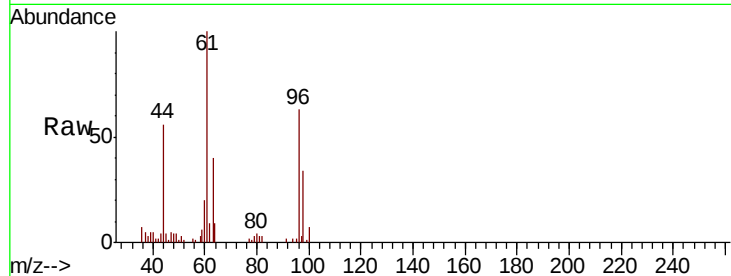
Tot Ion: 96 Resp: 3906

Ion Ratio Lower Upper

96 100

61 156.7 130.2 195.4

98 54.7 53.4 80.0



#16

Acetone

Concen: 7.068 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005099.D

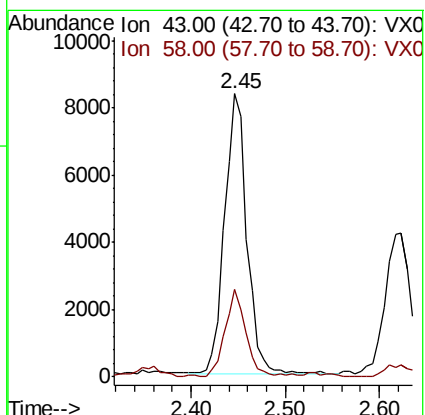
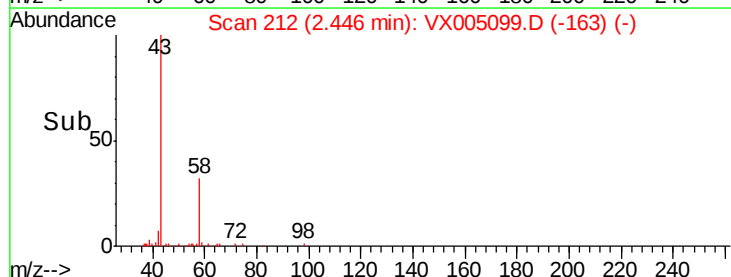
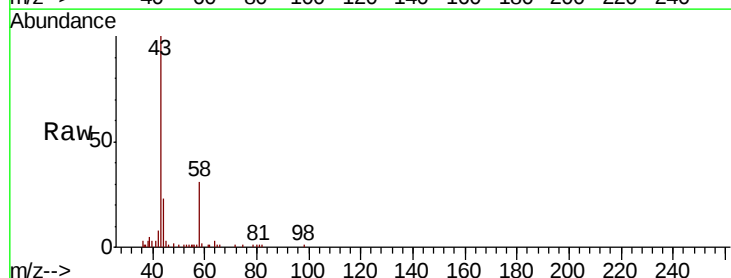
Acq: 06 Oct 2018 06:52

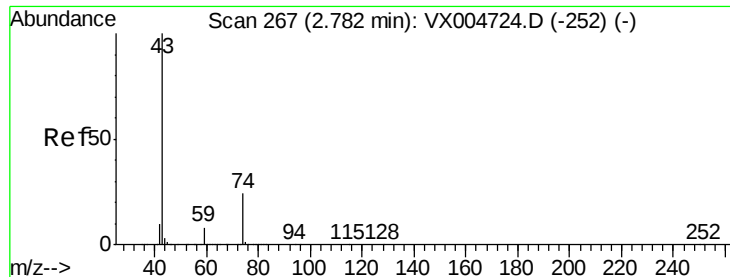
Tgt Ion: 43 Resp: 13773

Ion Ratio Lower Upper

43 100

58 30.7 21.8 32.6

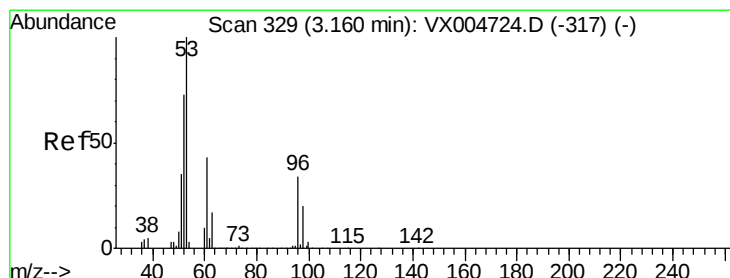
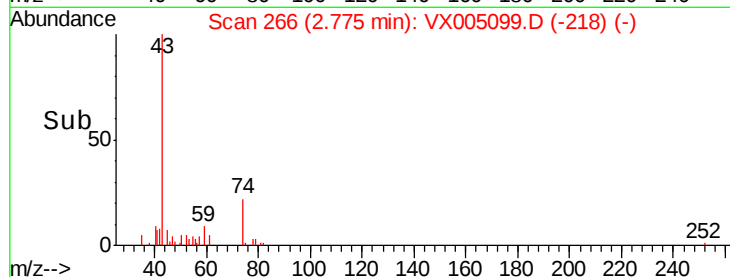
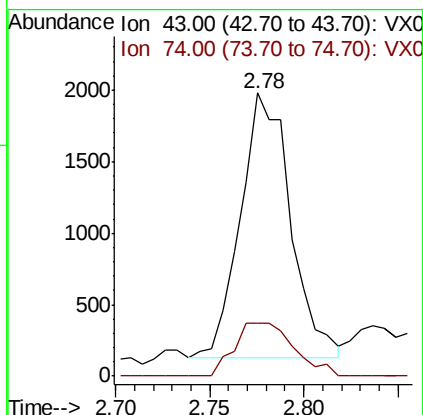
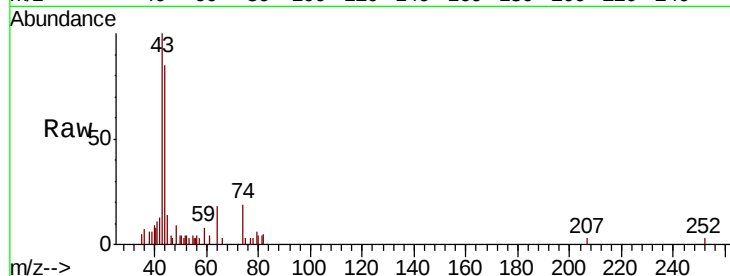




#18  
Methvl Acetate  
Concen: 0.695 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

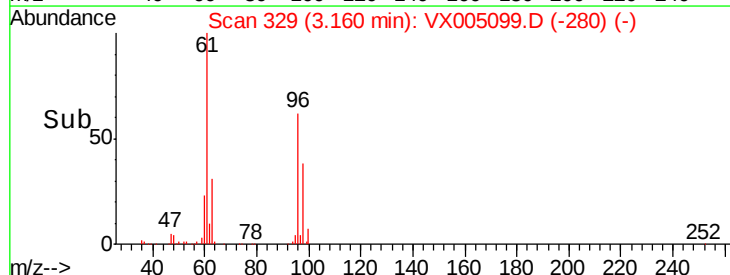
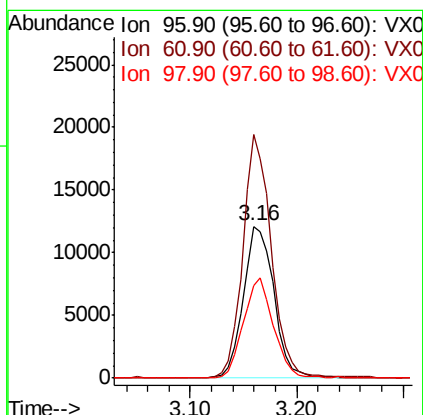
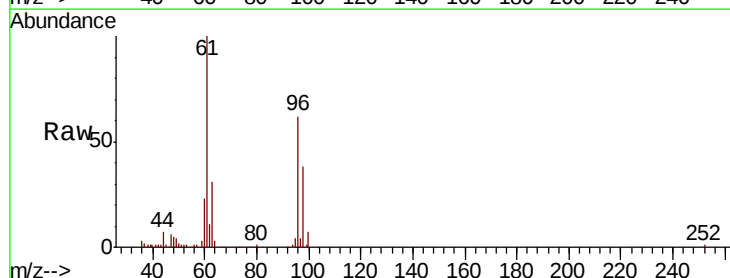
Instrument :  
MSVOA\_X  
ClientSampleId :  
FA18-QBC1

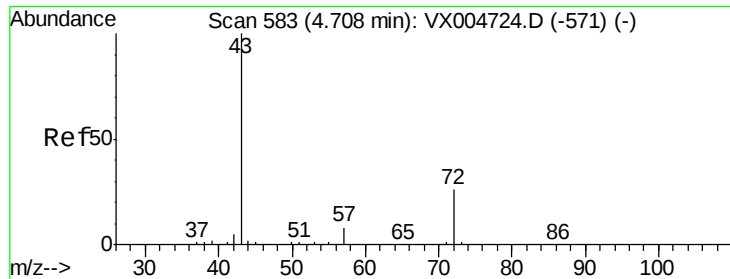
Tot Ion: 43 Resp: 3432  
Ion Ratio Lower Upper  
43 100  
74 23.7 17.8 26.8



#21  
trans-1,2-Dichloroethene  
Concen: 8.805 ug/l  
RT: 3.16 min Scan# 329  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

Tgt Ion: 96 Resp: 24404  
Ion Ratio Lower Upper  
96 100  
61 160.7 101.0 151.6#  
98 61.3 47.2 70.8





#25

2-Butanone

Concen: 2.911 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampleId :

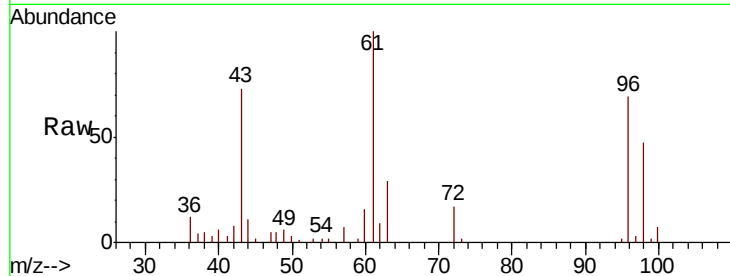
FA18-QBC1

Tot Ion: 43 Resp: 8363

Ion Ratio Lower Upper

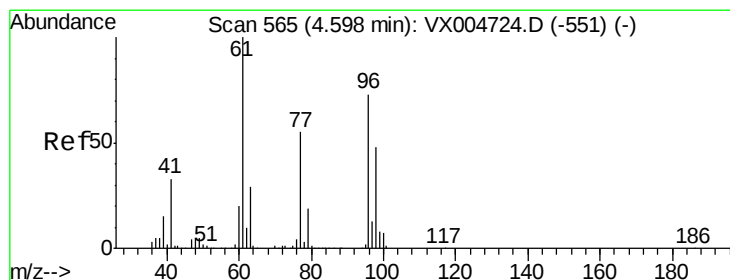
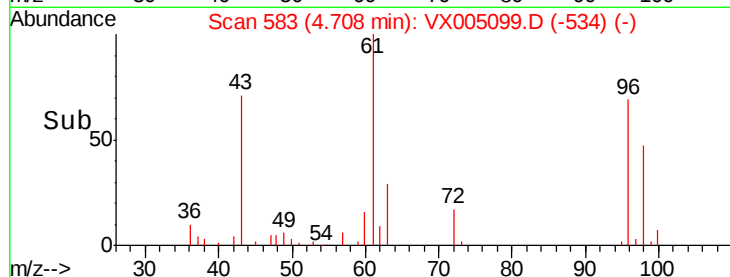
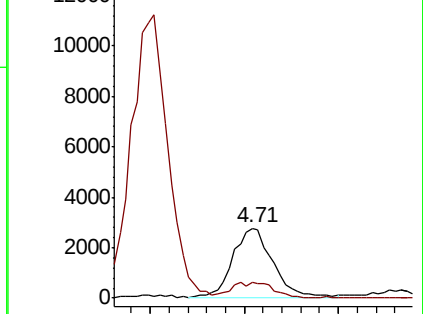
43 100

72 22.6 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 1304.177 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

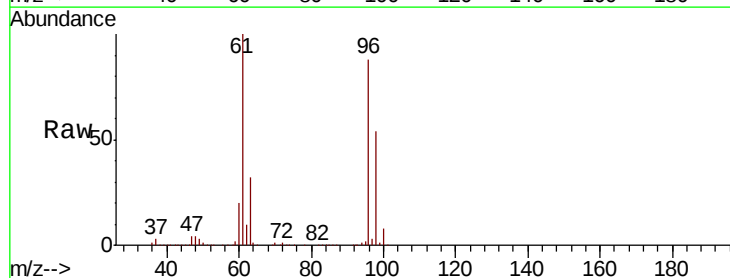
Tgt Ion: 96 Resp: 4038070

Ion Ratio Lower Upper

96 100

61 127.0 0.0 285.8

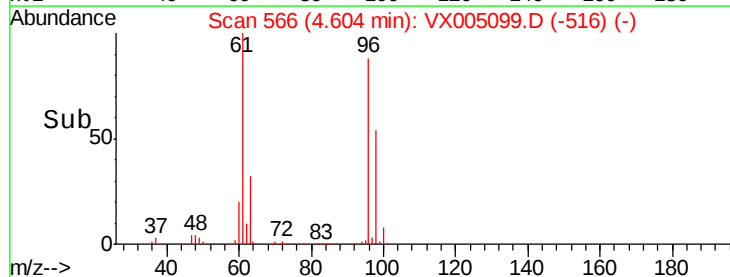
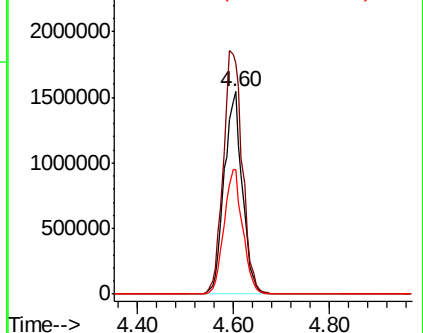
98 63.3 0.0 136.2

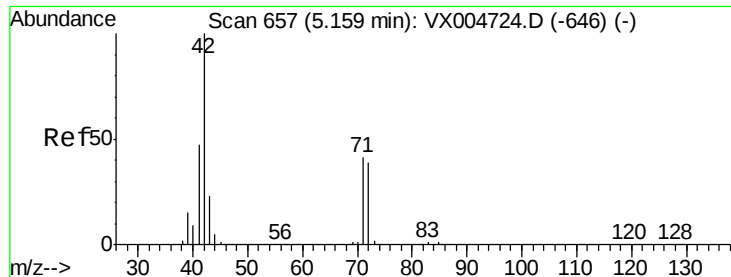


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 7.276 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampled :

FA18-QBC1

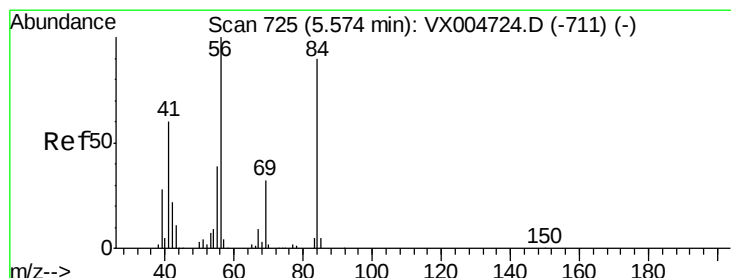
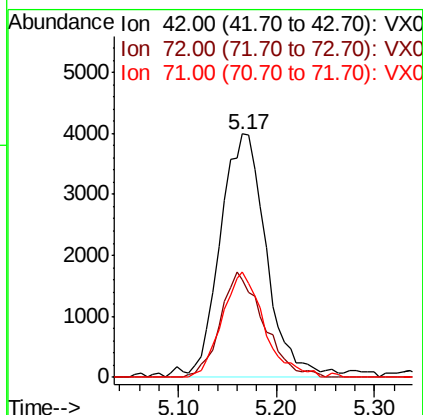
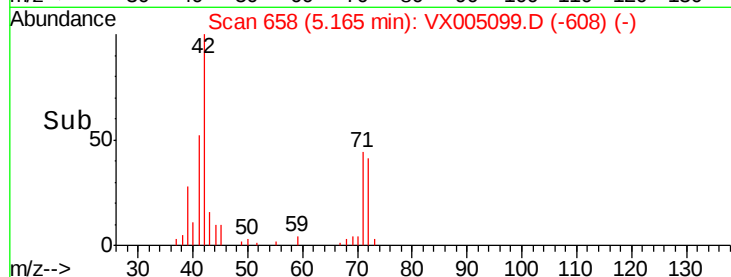
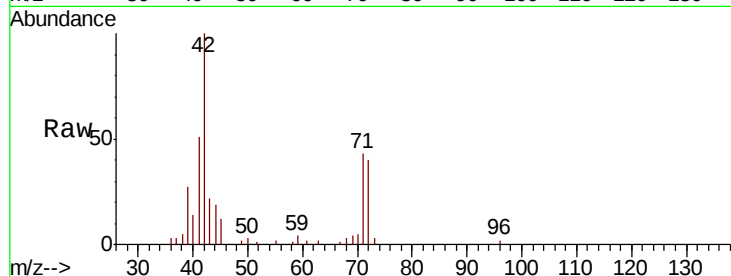
Tot Ion: 42 Resp: 12991

Ion Ratio Lower Upper

42 100

72 40.9 33.7 50.5

71 39.6 32.2 48.4



#31

Cyclohexane

Concen: 0.534 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.00 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

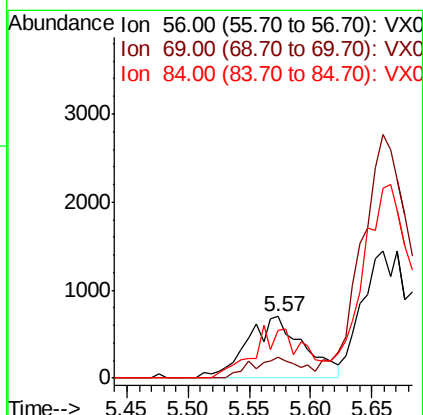
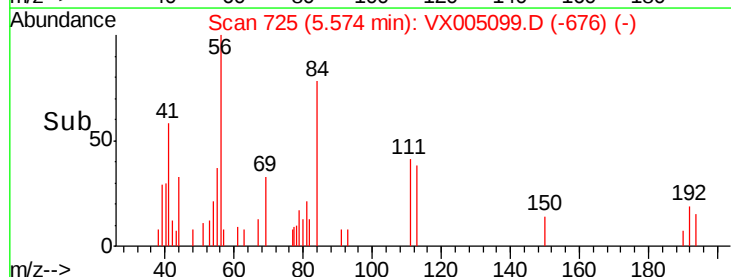
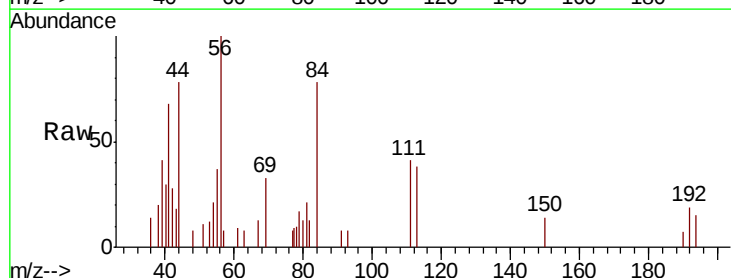
Tgt Ion: 56 Resp: 2266

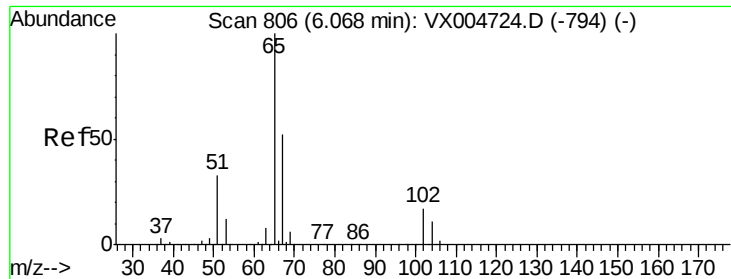
Ion Ratio Lower Upper

56 100

69 33.5 25.9 38.9

84 78.0 71.9 107.9

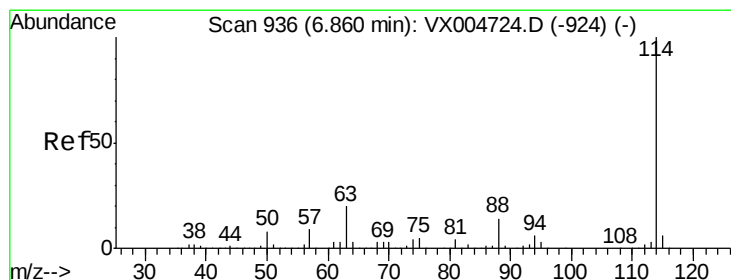
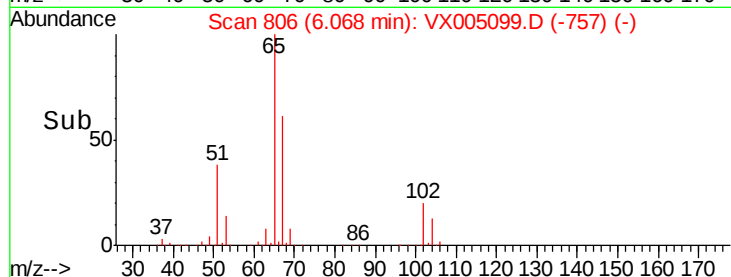
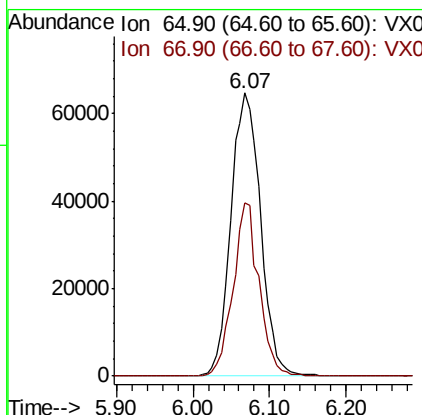
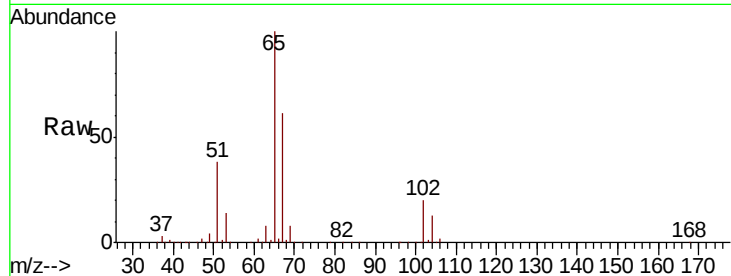




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.930 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX005099.D  
 Acq: 06 Oct 2018 06:52

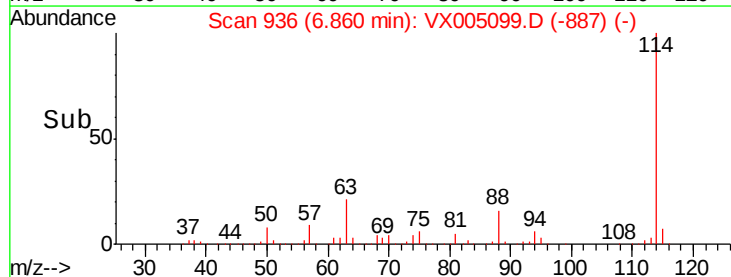
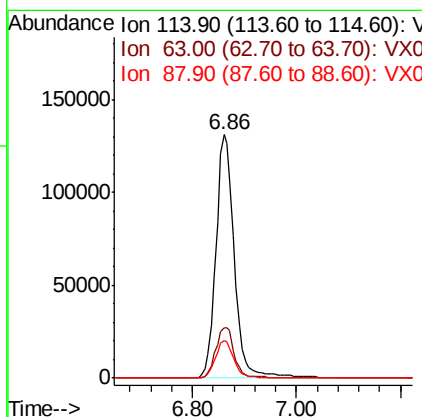
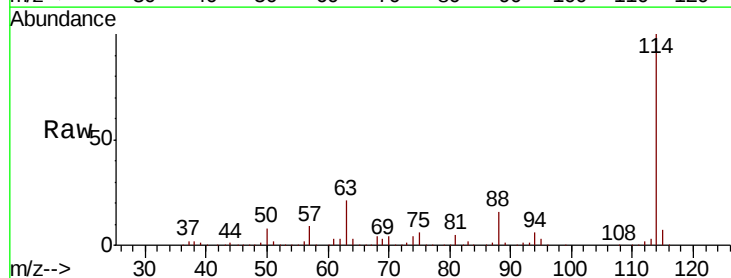
Instrument :  
 MSVOA\_X  
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 FA18-QBC1

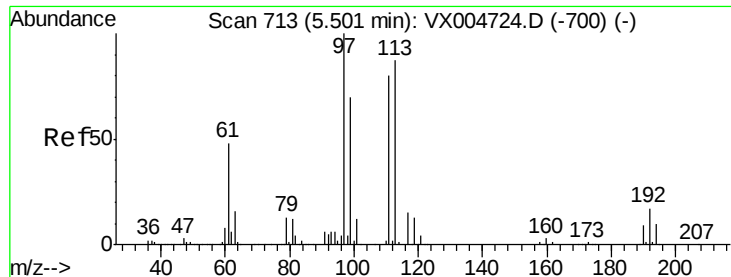
Tot Ion: 65 Resp: 173342  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 107.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX005099.D  
 Acq: 06 Oct 2018 06:52

Tgt Ion: 114 Resp: 328248  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 39.8  
 88 15.5 0.0 27.0





#35

Dibromofluoromethane

Concen: 53.634 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampleId :

FA18-QBC1

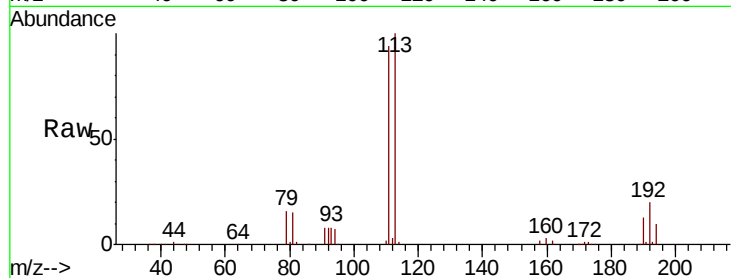
Tot Ion:113 Resp: 149207

Ion Ratio Lower Upper

113 100

111 101.8 77.0 115.4

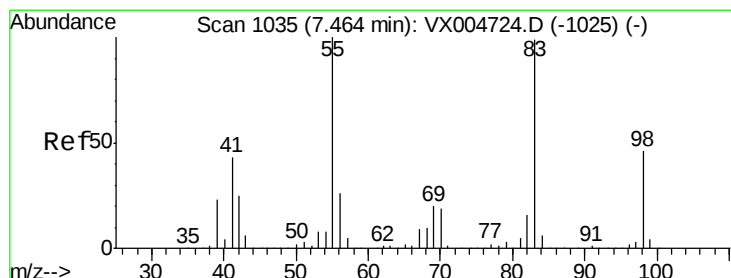
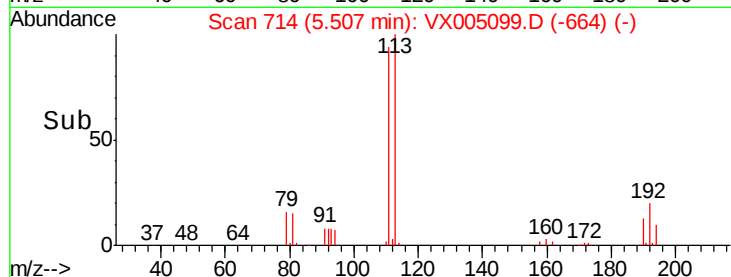
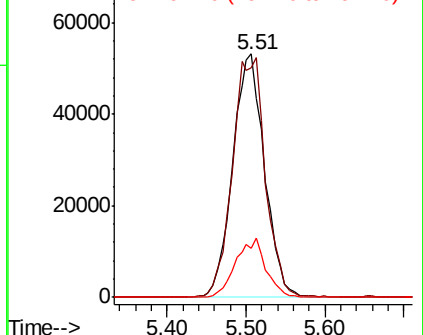
192 23.0 17.0 25.6



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

Methylcyclohexane

Concen: 0.860 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

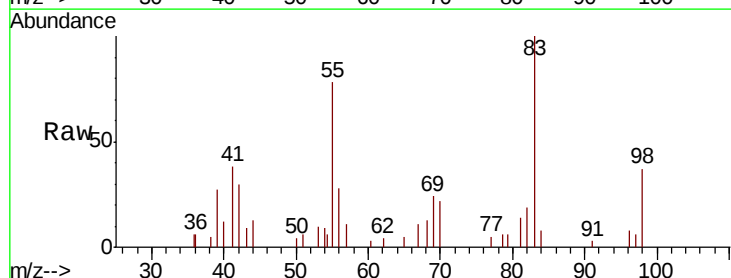
Tgt Ion: 83 Resp: 3332

Ion Ratio Lower Upper

83 100

55 78.0 81.1 121.7#

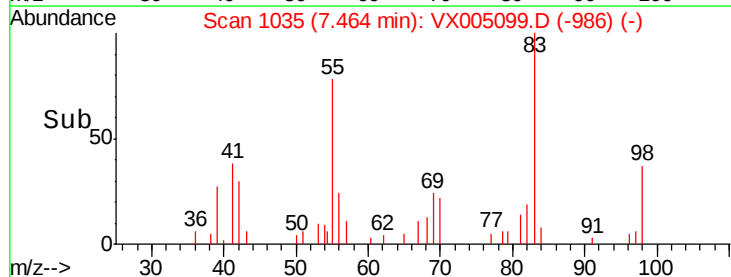
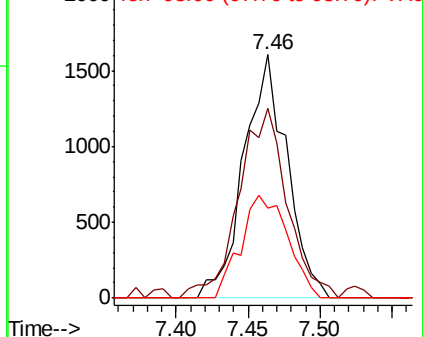
98 37.2 37.3 55.9#

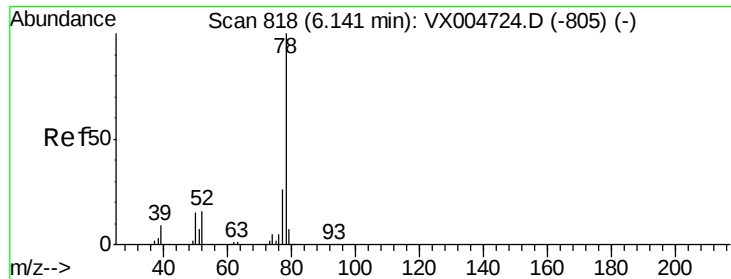


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 9.171 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampleId :

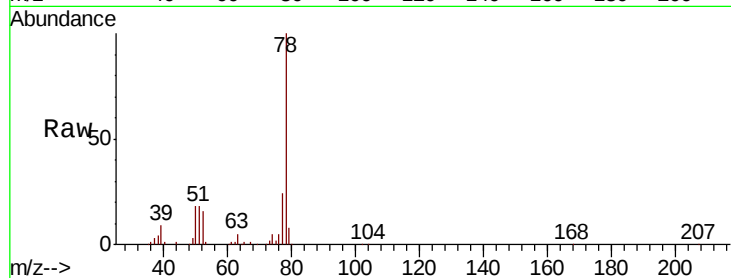
FA18-QBC1

Tot Ion: 78 Resp: 108976

Ion Ratio Lower Upper

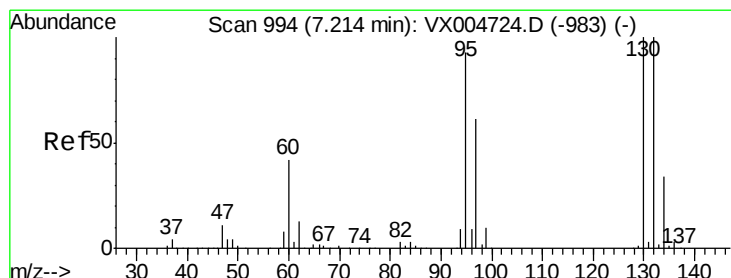
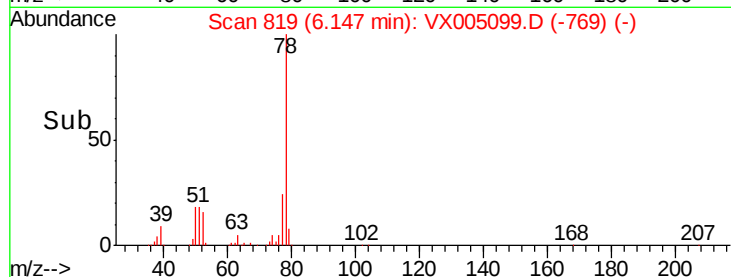
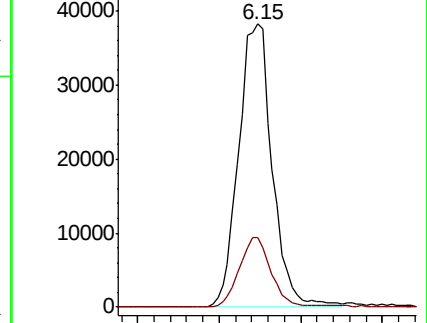
78 100

77 24.5 21.0 31.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 17.466 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005099.D

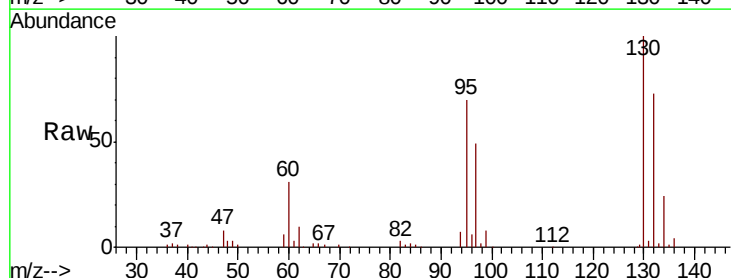
Acq: 06 Oct 2018 06:52

Tgt Ion:130 Resp: 51020

Ion Ratio Lower Upper

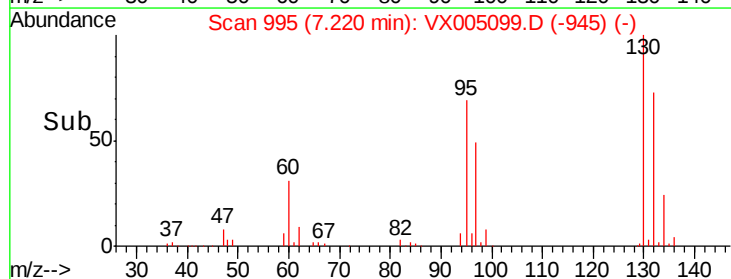
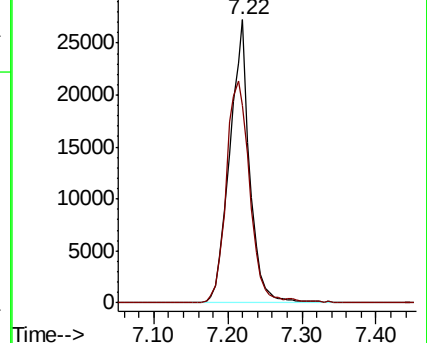
130 100

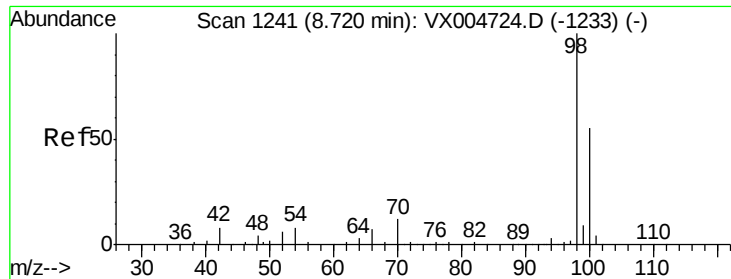
95 69.6 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

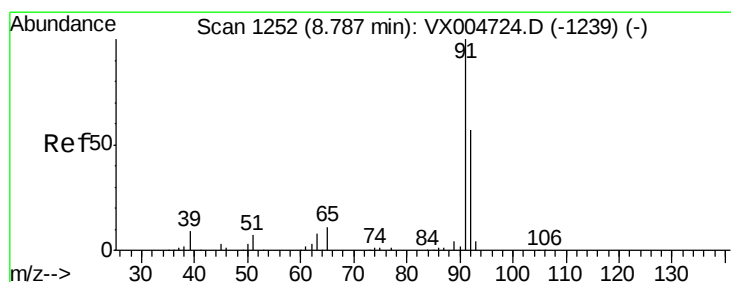
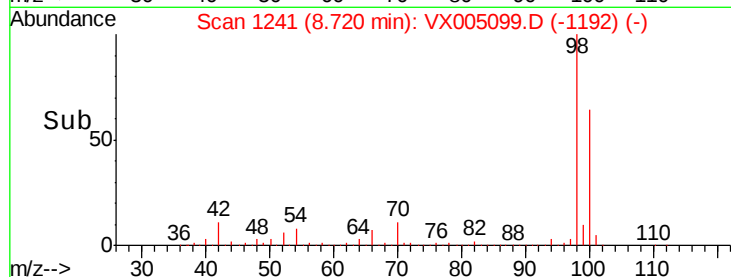
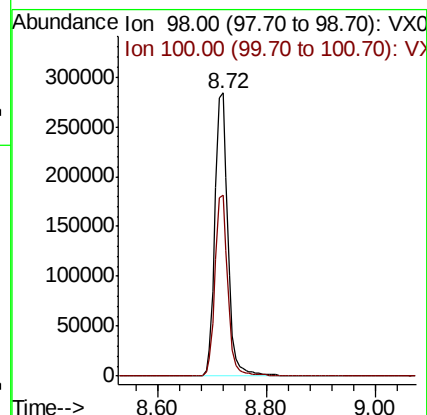
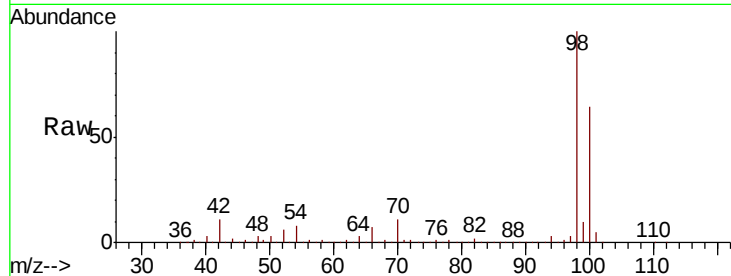




#50  
Toluene-d8  
Concen: 50.744 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

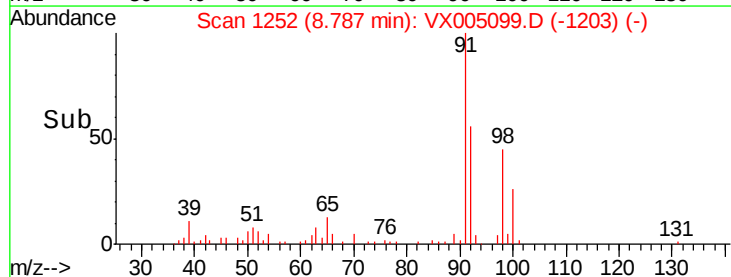
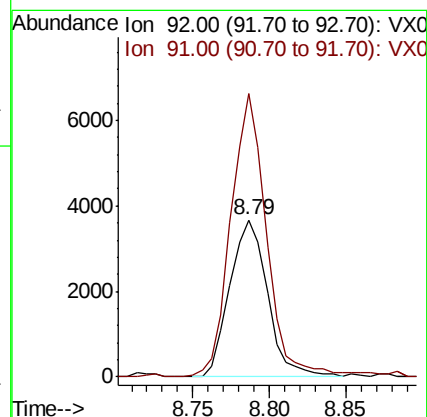
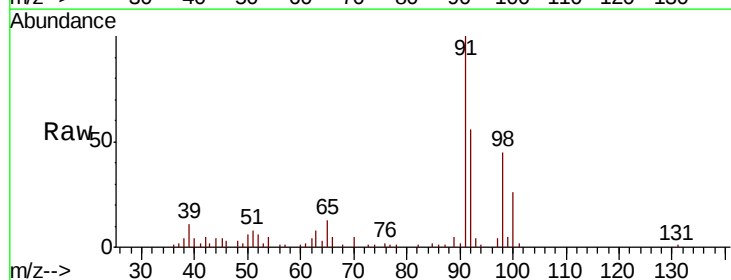
Instrument :  
MSVOA\_X  
ClientSampled :  
FA18-QBC1

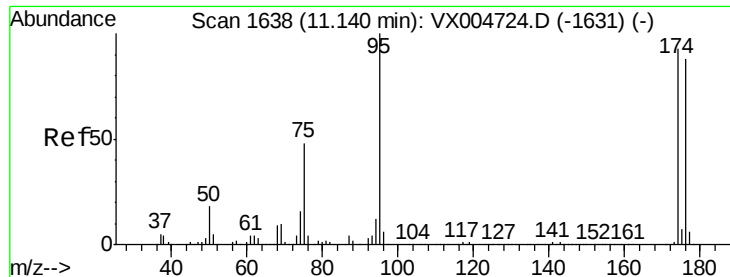
Tot Ion: 98 Resp: 469312  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.9 77.9



#52  
Toluene  
Concen: 0.962 ug/l  
RT: 8.79 min Scan# 1252  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

Tgt Ion: 92 Resp: 6279  
Ion Ratio Lower Upper  
92 100  
91 173.4 136.7 205.1

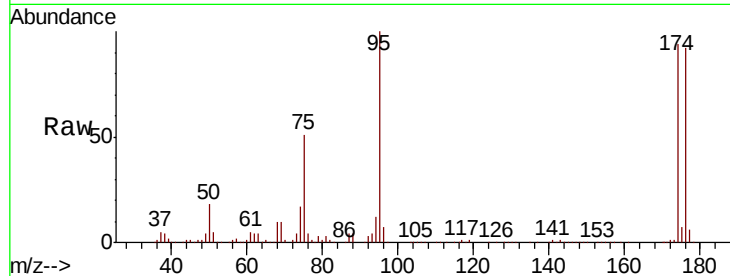




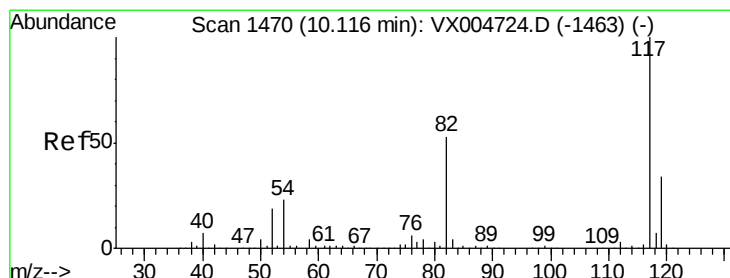
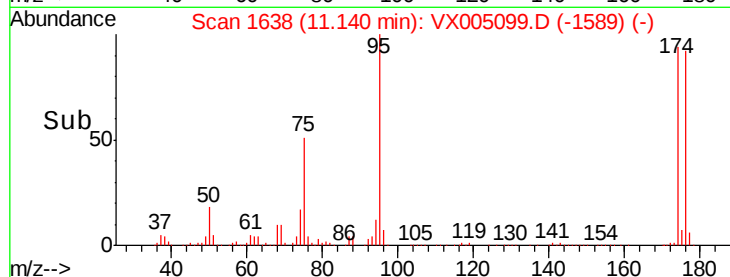
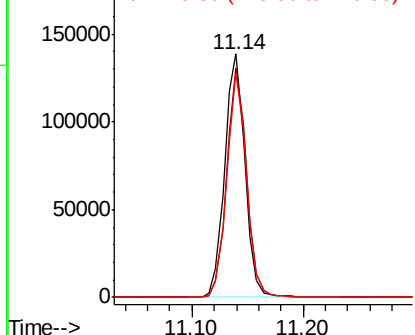
#62  
4-Bromofluorobenzene  
Concen: 52.306 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA18-QBC1

Tot Ion: 95 Resp: 174277  
Ion Ratio Lower Upper  
95 100  
174 92.6 0.0 185.0  
176 89.3 0.0 180.2

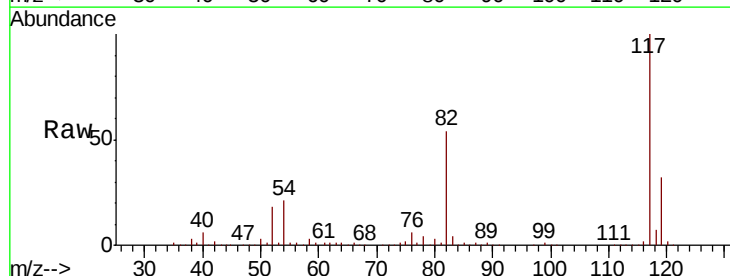


Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

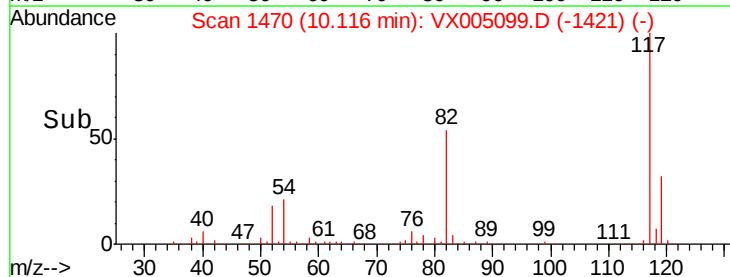
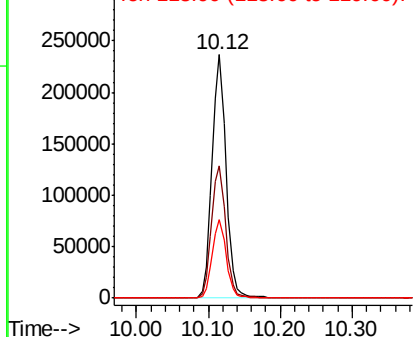


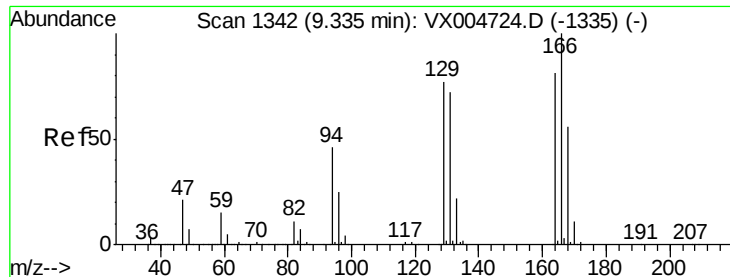
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

Tgt Ion: 117 Resp: 318673  
Ion Ratio Lower Upper  
117 100  
82 54.2 42.2 63.4  
119 32.2 27.4 41.0



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





#64

Tetrachloroethene

Concen: 38.456 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampleId :

FA18-QBC1

Tot Ion:164 Resp: 120614

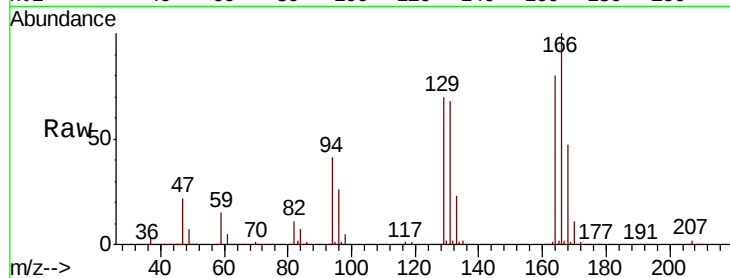
Ion Ratio Lower Upper

164 100

166 124.7 98.4 147.6

129 87.6 76.1 114.1

131 85.3 71.0 106.4

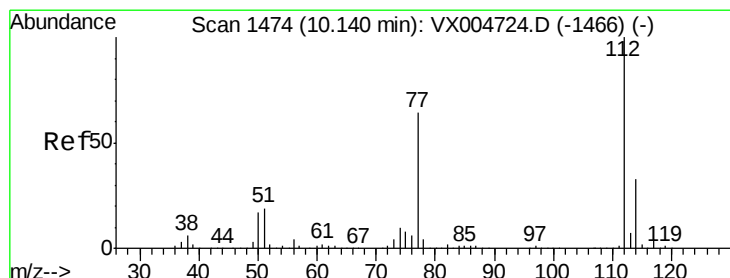
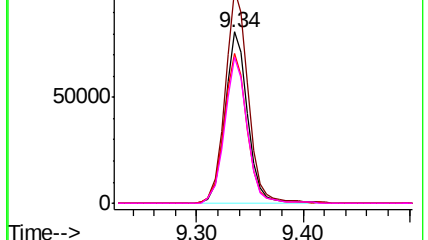
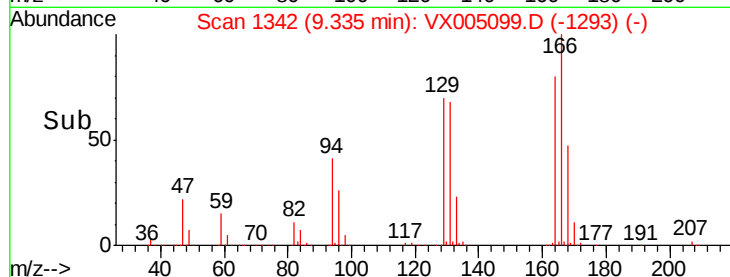


Abundance Ion 163.80 (163.50 to 164.50): V

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: 5.440 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VX005099.D

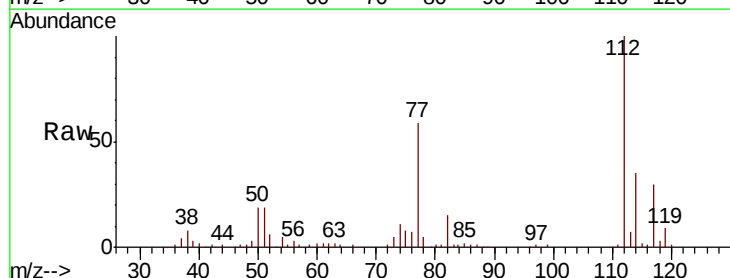
Acq: 06 Oct 2018 06:52

Tgt Ion:112 Resp: 44454

Ion Ratio Lower Upper

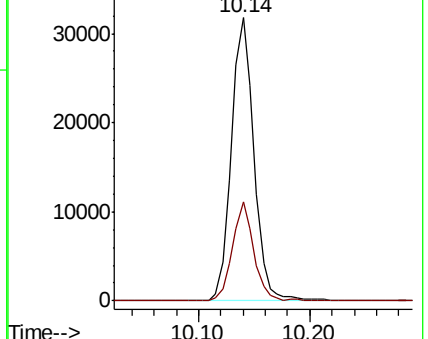
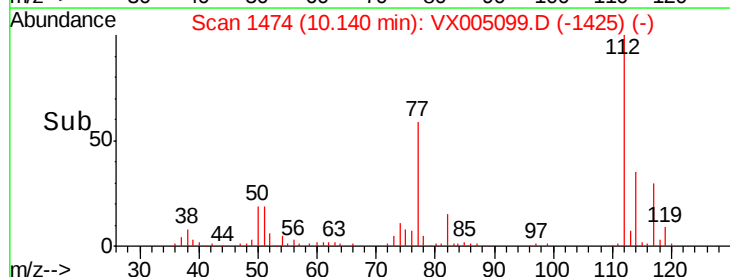
112 100

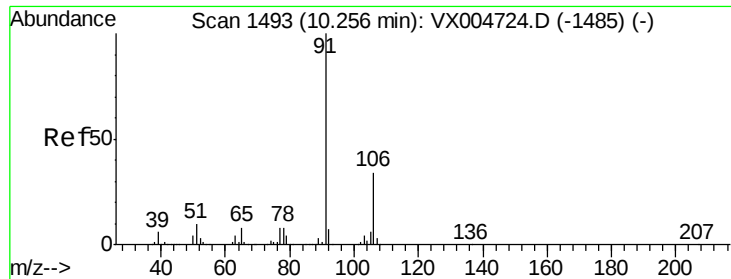
114 34.9 26.7 40.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 1.153 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VX005099.D

Acq: 06 Oct 2018 06:52

Instrument :

MSVOA\_X

ClientSampled :

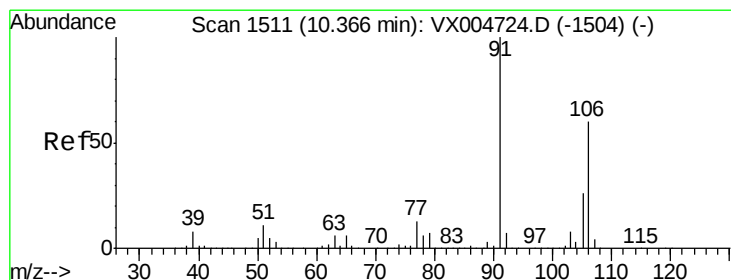
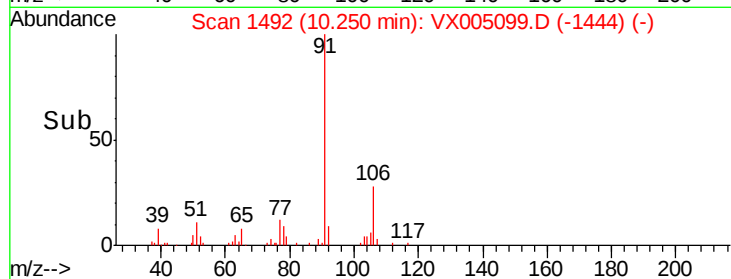
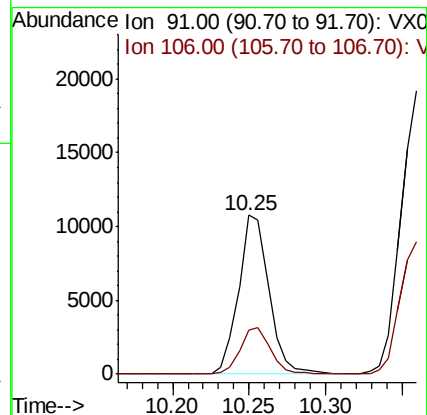
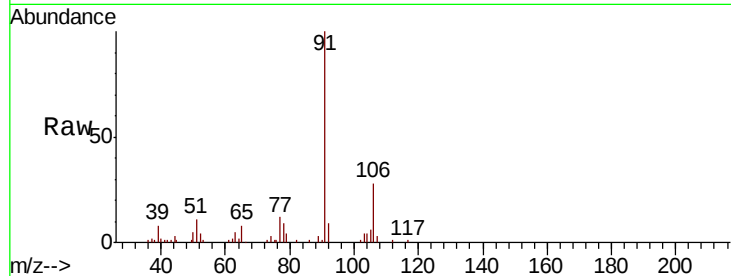
FA18-QBC1

Tot Ion: 91 Resp: 14961

Ion Ratio Lower Upper

91 100

106 28.0 26.9 40.3



#68

m/p-Xylenes

Concen: 2.516 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VX005099.D

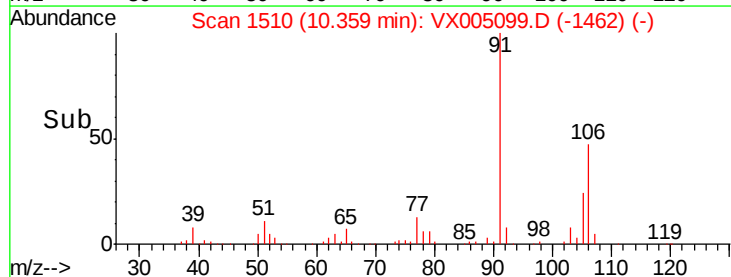
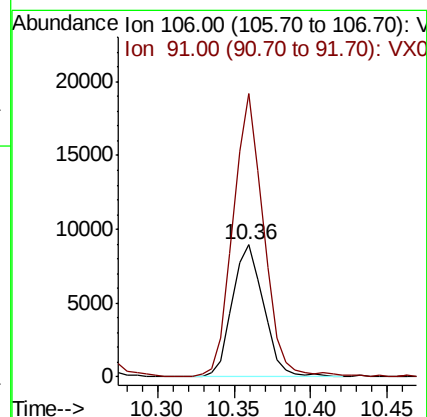
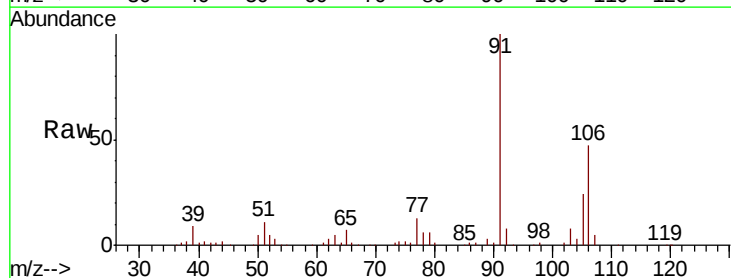
Acq: 06 Oct 2018 06:52

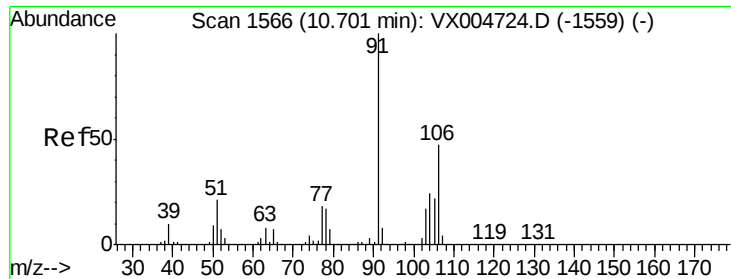
Tgt Ion: 106 Resp: 12757

Ion Ratio Lower Upper

106 100

91 209.0 157.5 236.3

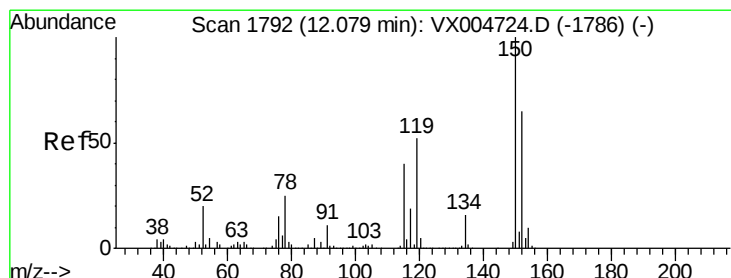
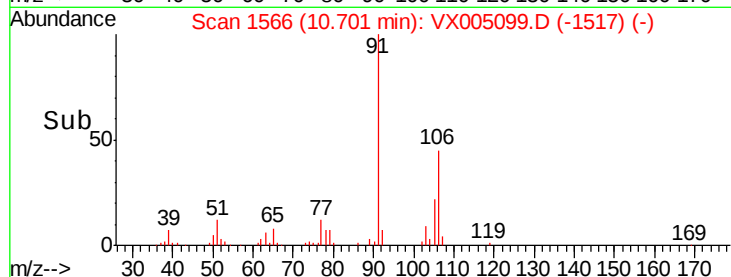
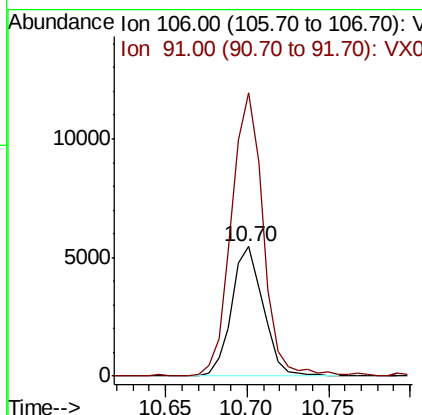
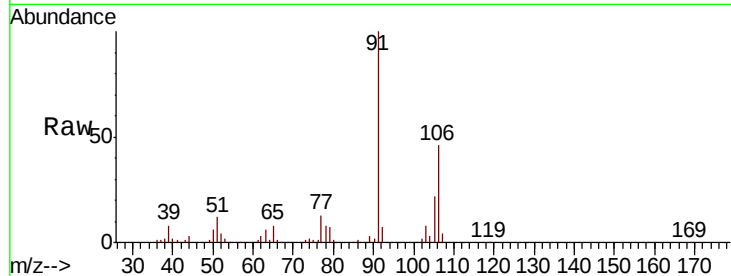




#69  
o-Xylene  
Concen: 1.580 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

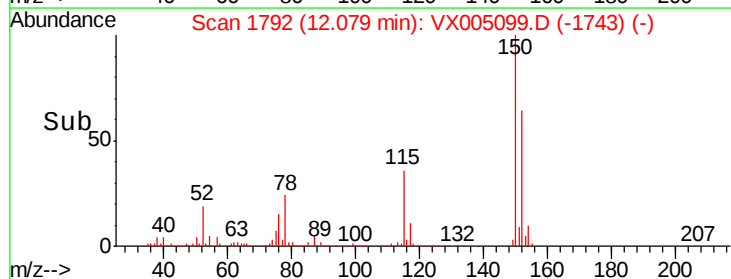
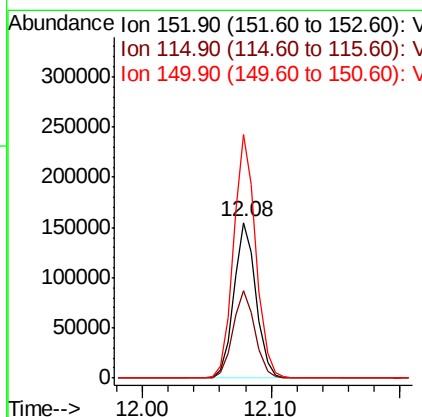
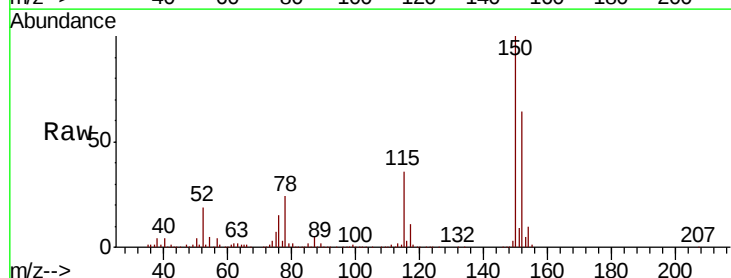
Instrument :  
MSVOA\_X  
ClientSampled :  
FA18-QBC1

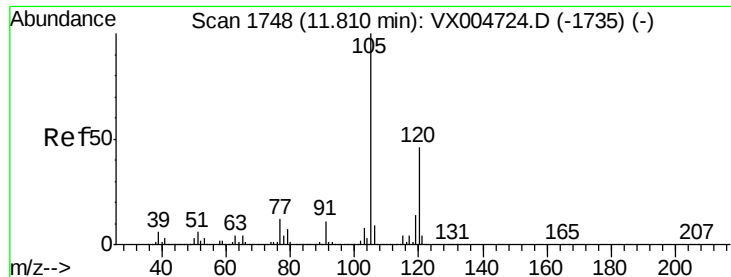
Tot Ion:106 Resp: 7358  
Ion Ratio Lower Upper  
106 100  
91 220.8 108.3 324.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005099.D  
Acq: 06 Oct 2018 06:52

Tgt Ion:152 Resp: 185549  
Ion Ratio Lower Upper  
152 100  
115 55.8 40.2 120.6  
150 156.8 0.0 351.0

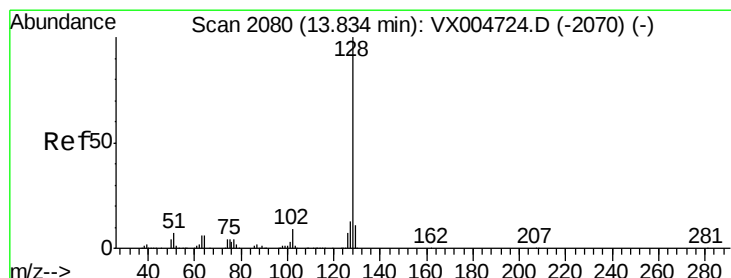
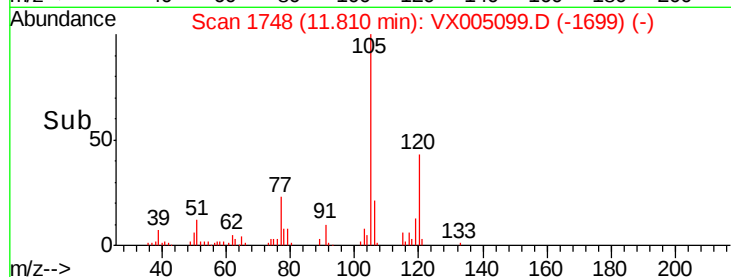
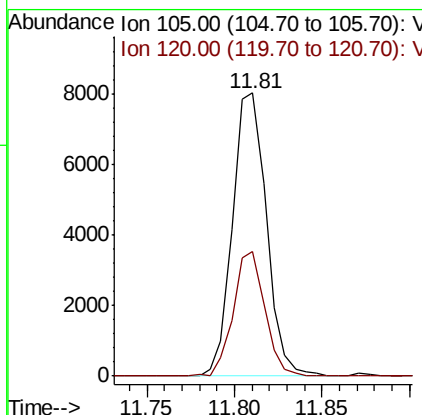
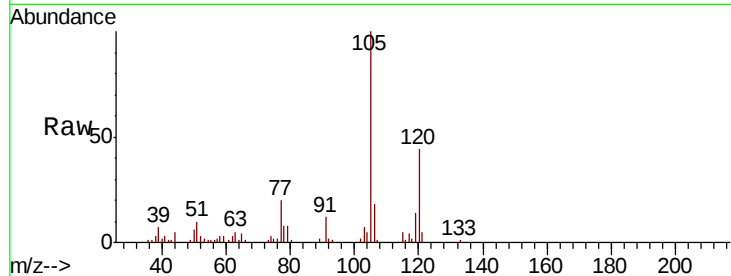




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.785 ug/l  
 RT: 11.81 min Scan# 1748  
 Delta R.T. -0.00 min  
 Lab File: VX005099.D  
 Acq: 06 Oct 2018 06:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA18-QBC1

Tot Ion:105 Resp: 10832  
 Ion Ratio Lower Upper  
 105 100  
 120 40.8 22.8 68.3



#95  
 Naphthalene  
 Concen: 6.187 ug/l  
 RT: 13.83 min Scan# 2080  
 Delta R.T. -0.00 min  
 Lab File: VX005099.D  
 Acq: 06 Oct 2018 06:52

Tgt Ion:128 Resp: 85619  
 Ion Ratio Lower Upper  
 128 100  
 127 13.4 10.4 15.6  
 129 11.3 8.7 13.1

