

Data File : VX001755.D  
Acq On : 15 May 2018 19:37  
Operator : JC/MD  
Sample : J2796-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS034-180507

Quant Time: May 16 04:18:00 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 01:36:22 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 237681   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 317337   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 259595   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 127038   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 179949   | 56.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.96% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 149629   | 55.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.74% |      |
| 50) Toluene-d8              | 8.72   | 98  | 487304   | 50.81 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.62% |      |
| 62) 4-Bromofluorobenzene    | 11.15  | 95  | 149175   | 43.20 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.40%  |      |

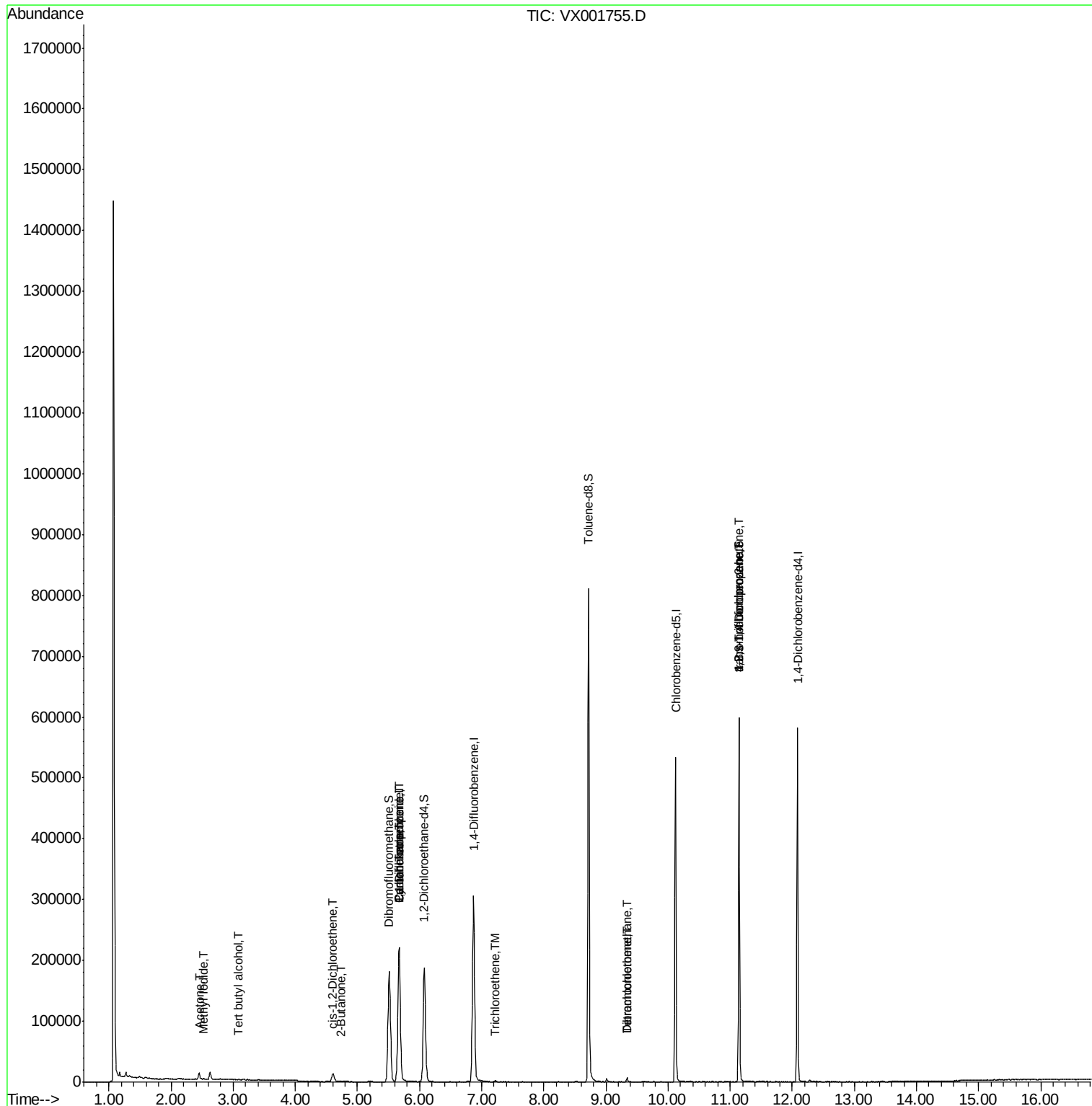
|                                |       |     |        |           |        |    |
|--------------------------------|-------|-----|--------|-----------|--------|----|
| Target Compounds               |       |     | Qvalue |           |        |    |
| 5) Bromomethane                | 1.65  | 94  | 1105   | Below Cal | #      | 80 |
| 10) Methyl Iodide              | 2.52  | 142 | 1090   | 0.49      | ug/l # | 90 |
| 11) Tert butyl alcohol         | 3.08  | 59  | 491    | 0.87      | ug/l # | 94 |
| 16) Acetone                    | 2.45  | 43  | 10439  | 8.34      | ug/l   | 96 |
| 25) 2-Butanone                 | 4.72  | 43  | 1134   | 0.59      | ug/l # | 68 |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96  | 8557   | 2.91      | ug/l   | 91 |
| 31) Cyclohexane                | 5.68  | 56  | 3801   | 0.95      | ug/l # | 10 |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 14111  | 3.86      | ug/l # | 49 |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 19504  | 5.10      | ug/l # | 16 |
| 44) Trichloroethene            | 7.22  | 130 | 861    | 0.26      | ug/l   | 94 |
| 60) Dibromochloromethane       | 9.34  | 129 | 1276   | 0.47      | ug/l # | 11 |
| 64) Tetrachloroethene          | 9.35  | 164 | 1663   | 0.49      | ug/l # | 78 |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 70530  | 29.20     | ug/l # | 39 |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 70530  | 84.56     | ug/l # | 10 |

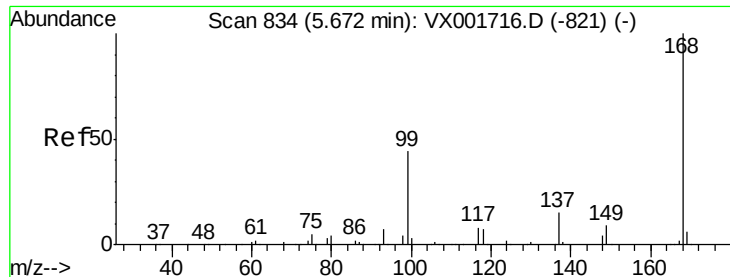
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X051518W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 15 01:36:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

Instrument :

MSVOA\_X

ClientSampleId :

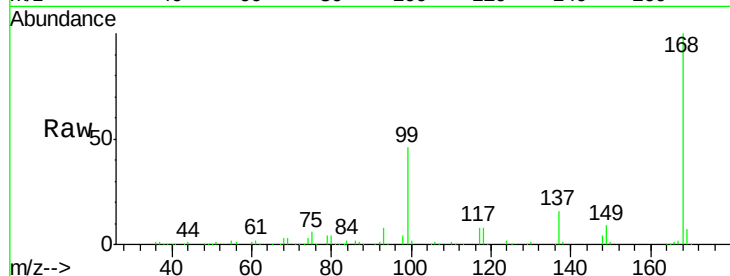
KY038PS034-180507

Tgt Ion:168 Resp: 237681

Ion Ratio Lower Upper

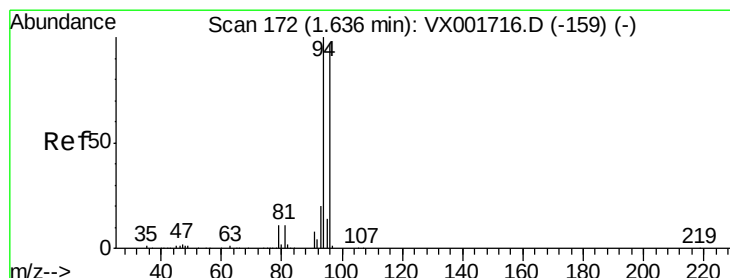
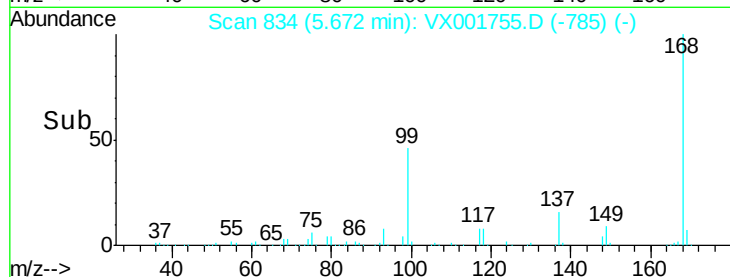
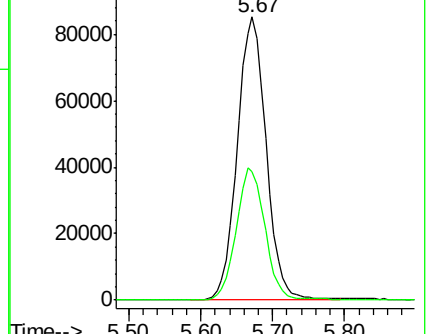
168 100

99 45.6 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001755.D

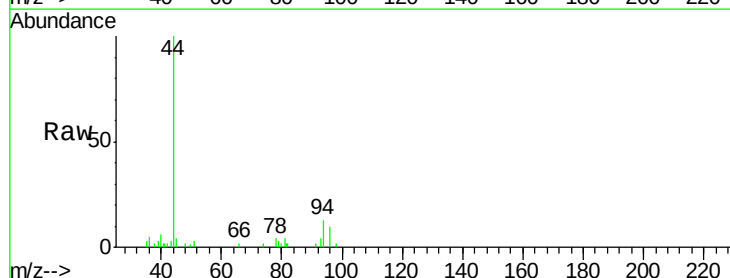
Acq: 15 May 2018 19:37

Tgt Ion: 94 Resp: 1105

Ion Ratio Lower Upper

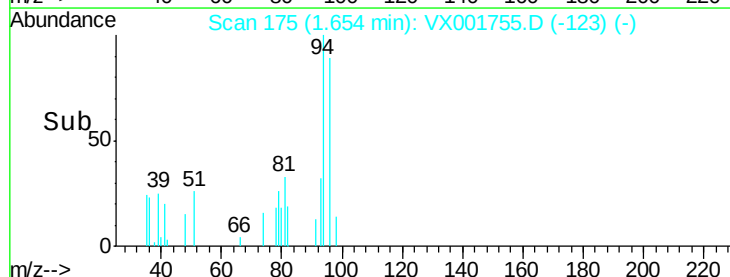
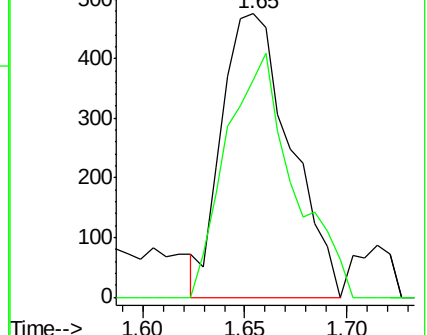
94 100

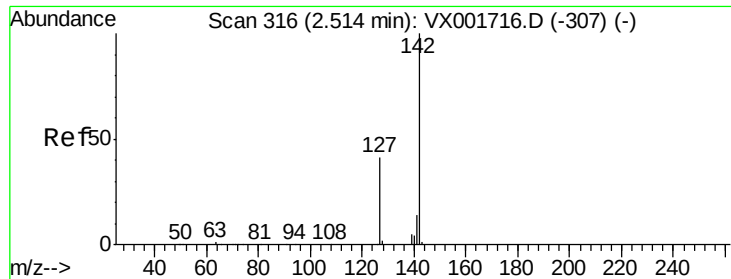
96 76.8 77.4 116.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

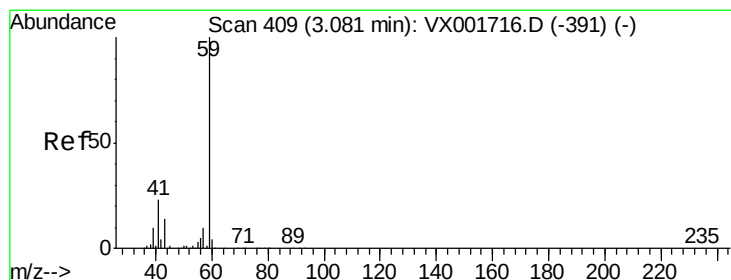
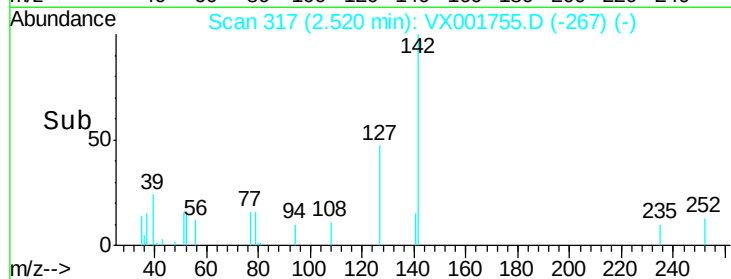
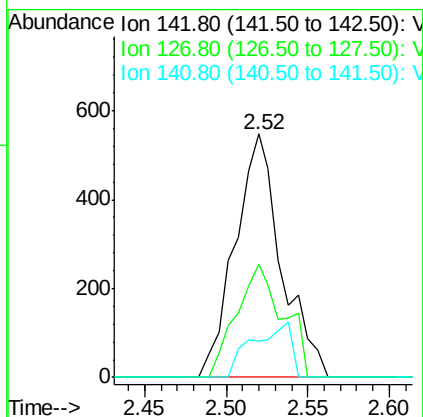
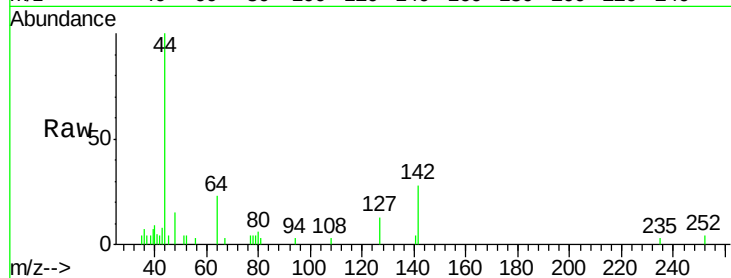




#10  
Methyl Iodide  
Concen: 0.49 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX001755.D  
Acq: 15 May 2018 19:37

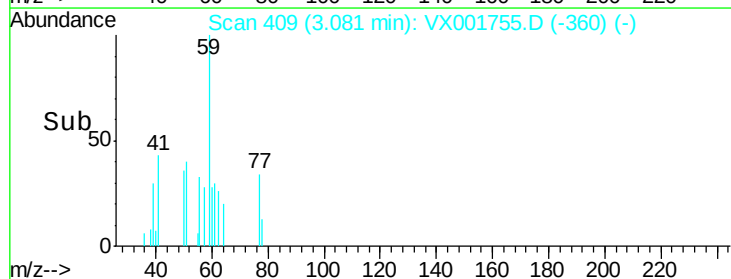
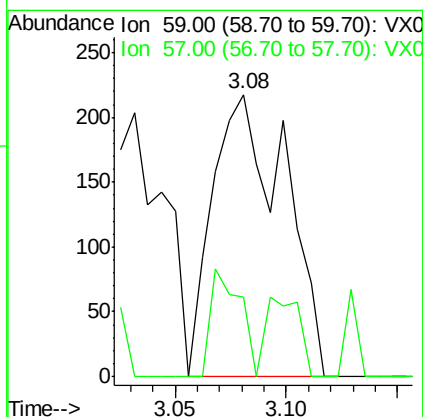
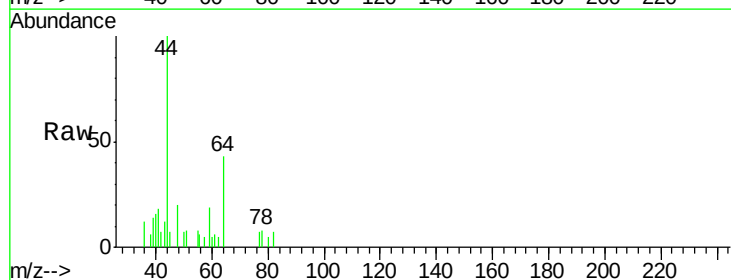
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS034-180507

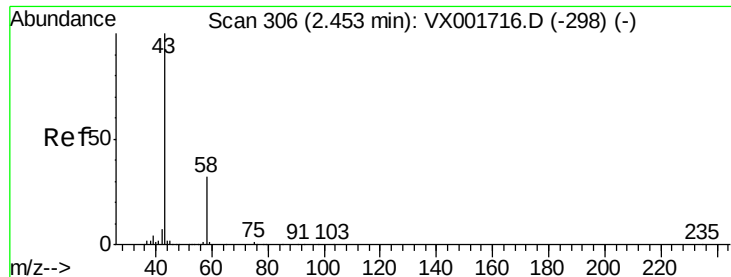
Tgt Ion:142 Resp: 1090  
Ion Ratio Lower Upper  
142 100  
127 46.9 32.5 48.7  
141 18.3 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 0.87 ug/l  
RT: 3.08 min Scan# 409  
Delta R.T. -0.00 min  
Lab File: VX001755.D  
Acq: 15 May 2018 19:37

Tgt Ion: 59 Resp: 491  
Ion Ratio Lower Upper  
59 100  
57 12.8 8.5 12.7#





#16

Acetone

Concen: 8.34 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

Instrument :

MSVOA\_X

ClientSampleId :

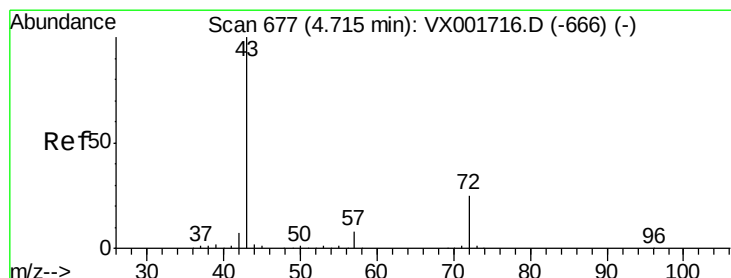
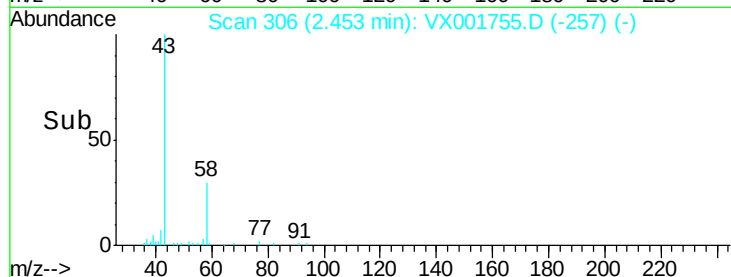
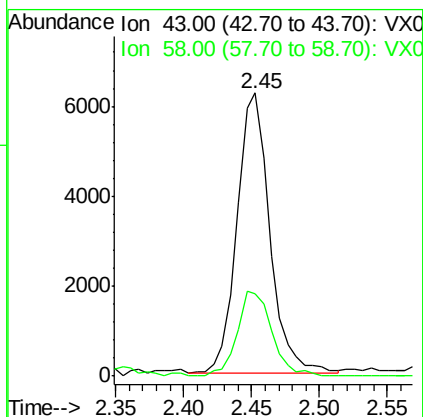
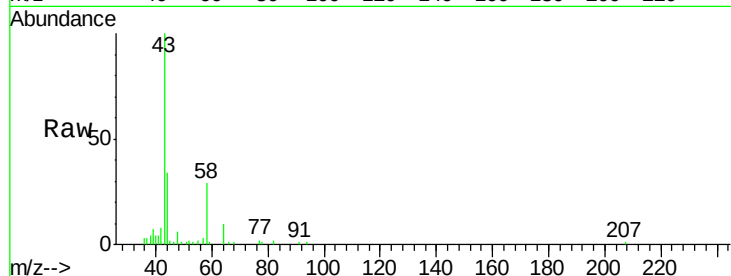
KY038PS034-180507

Tgt Ion: 43 Resp: 10439

Ion Ratio Lower Upper

43 100

58 29.5 25.3 37.9



#25

2-Butanone

Concen: 0.59 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX001755.D

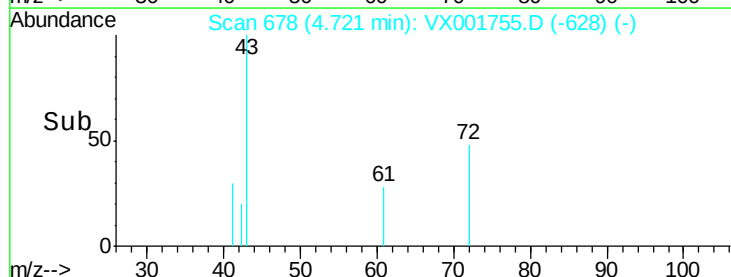
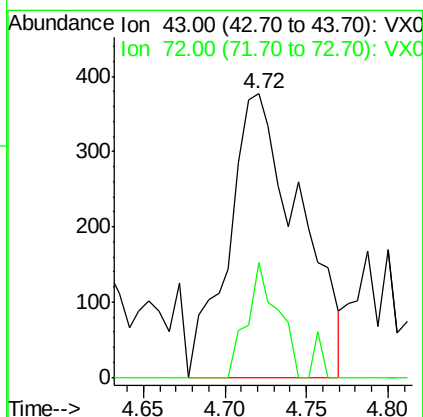
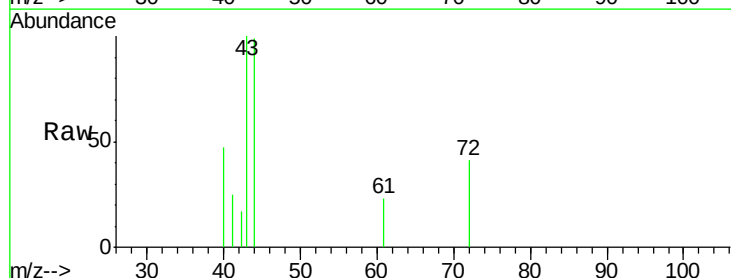
Acq: 15 May 2018 19:37

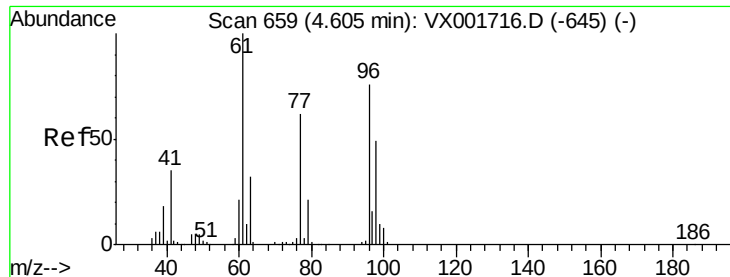
Tgt Ion: 43 Resp: 1134

Ion Ratio Lower Upper

43 100

72 40.6 19.8 29.6#





#27

cis-1,2-Dichloroethene

Concen: 2.91 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS034-180507

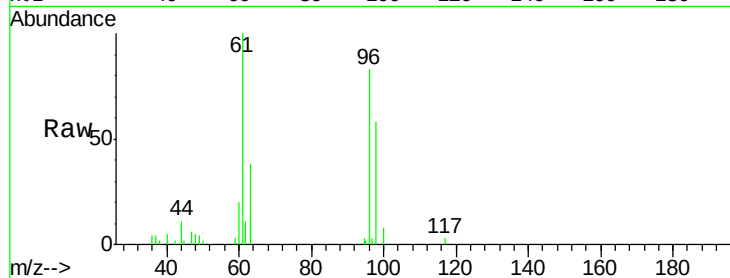
Tgt Ion: 96 Resp: 8557

Ion Ratio Lower Upper

96 100

61 153.3 0.0 280.4

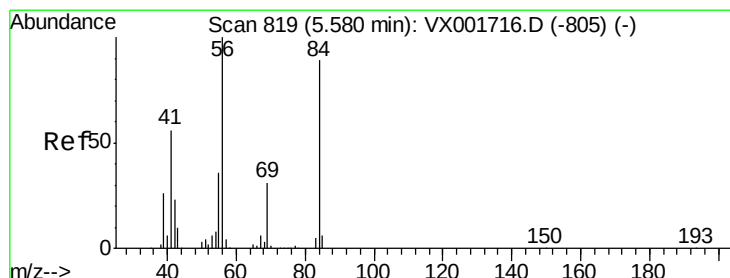
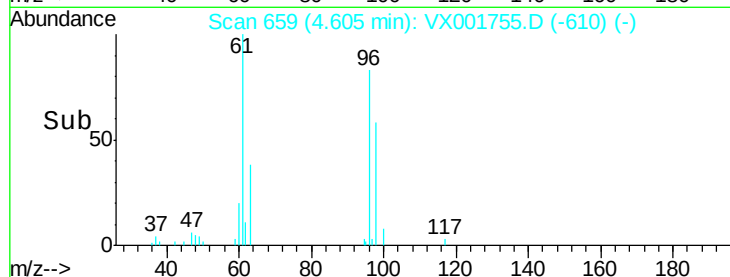
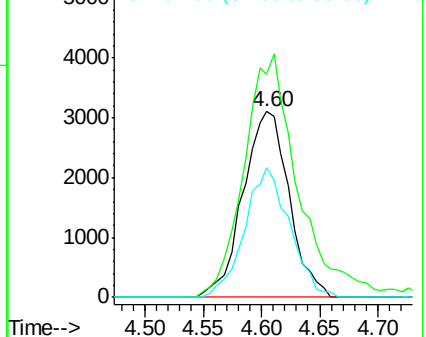
98 68.1 0.0 128.4



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



#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.10 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

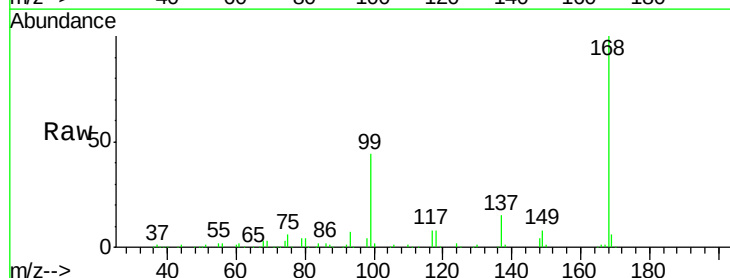
Tgt Ion: 56 Resp: 3801

Ion Ratio Lower Upper

56 100

69 178.7 25.0 37.6#

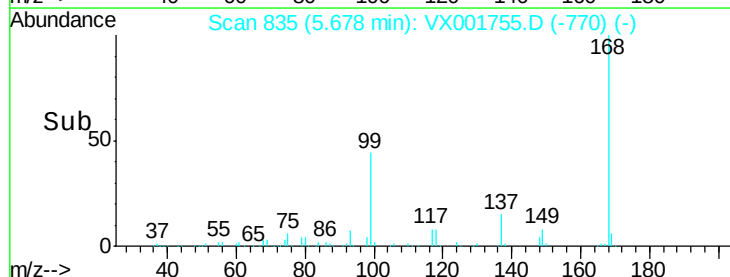
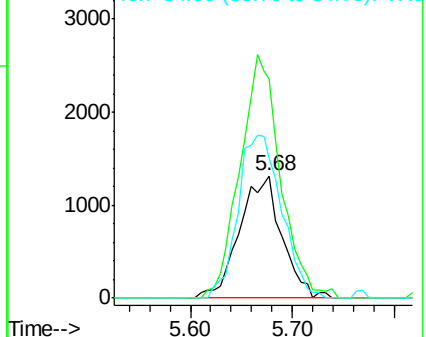
84 113.8 71.0 106.4#

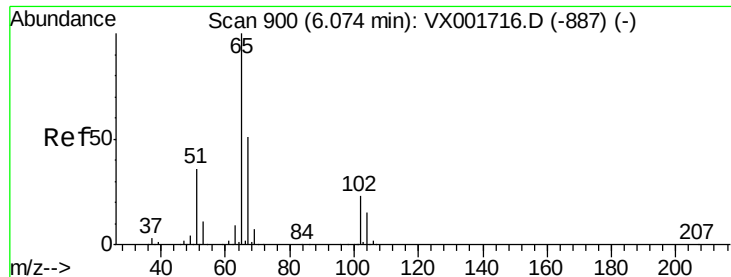


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

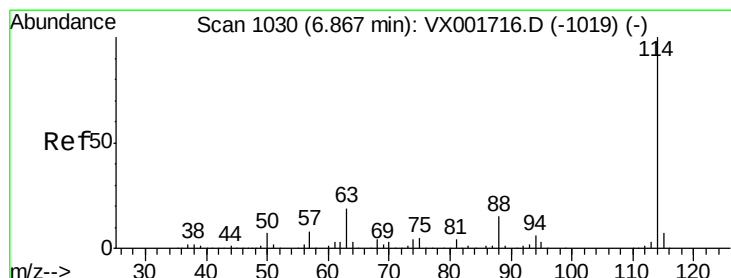
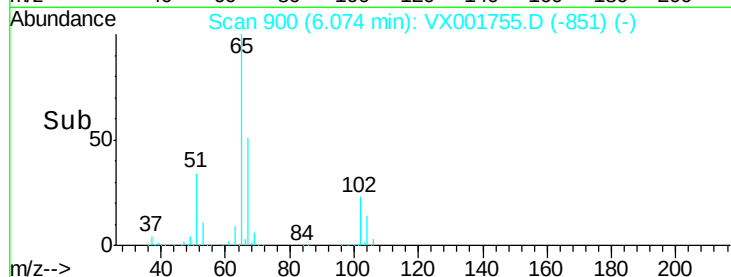
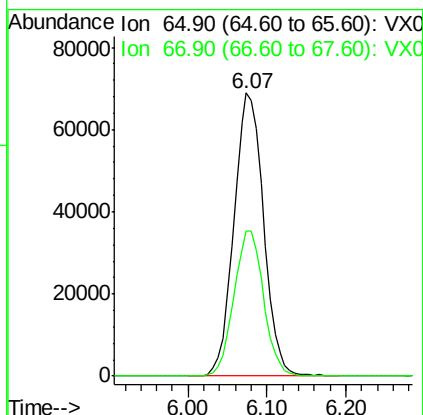
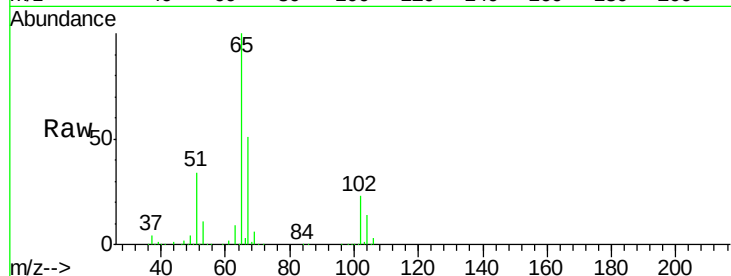




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.48 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. -0.00 min  
 Lab File: VX001755.D  
 Acq: 15 May 2018 19:37

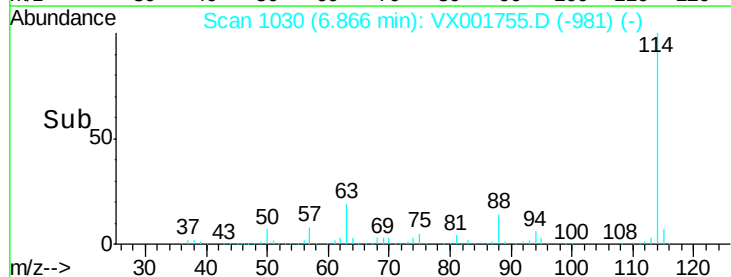
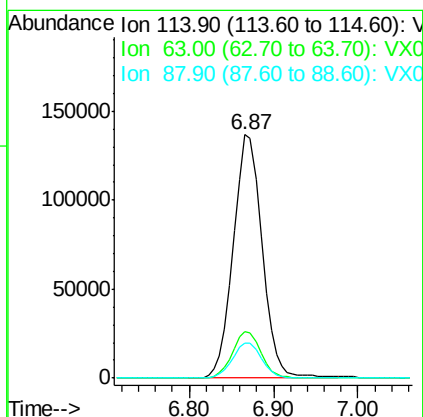
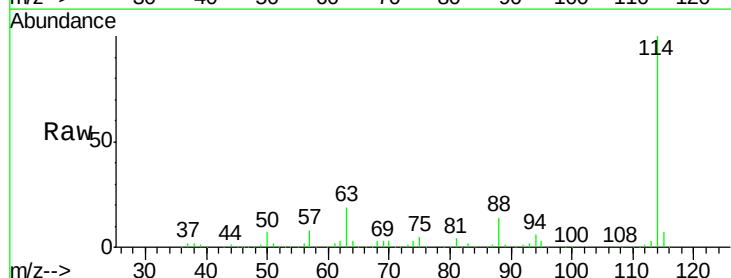
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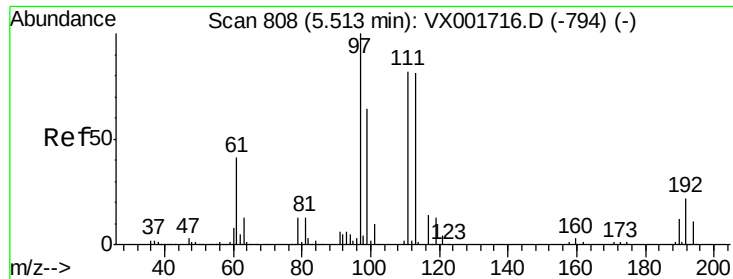
Tgt Ion: 65 Resp: 179949  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 102.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX001755.D  
 Acq: 15 May 2018 19:37

Tgt Ion: 114 Resp: 317337  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 37.0  
 88 14.5 0.0 29.8

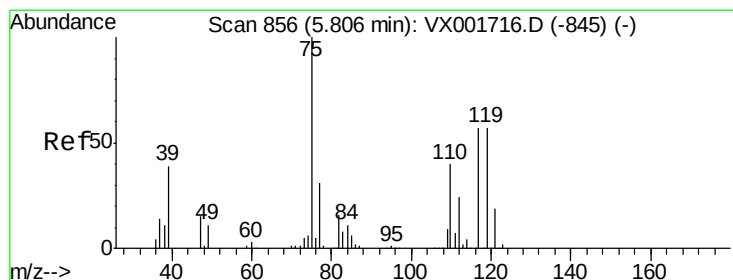
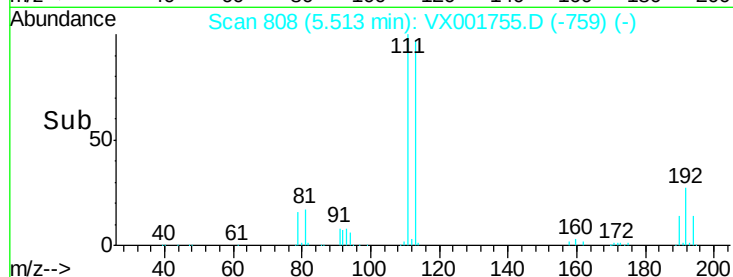
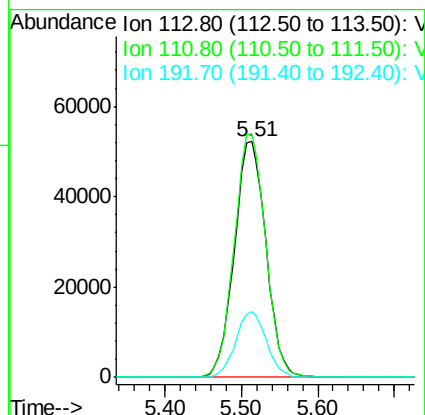
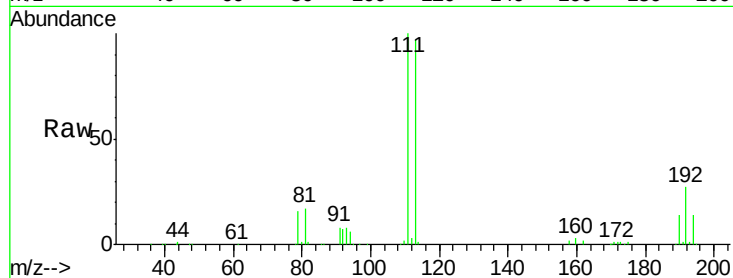




#35  
 Dibromofluoromethane  
 Concen: 55.87 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX001755.D  
 Acq: 15 May 2018 19:37

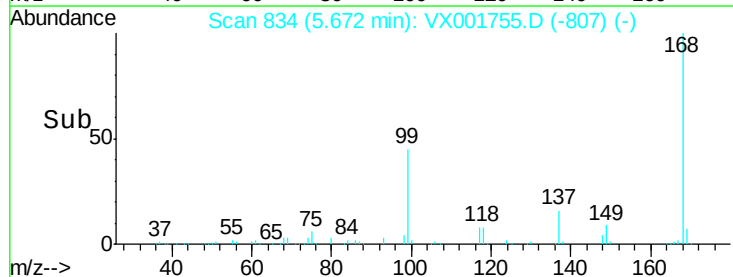
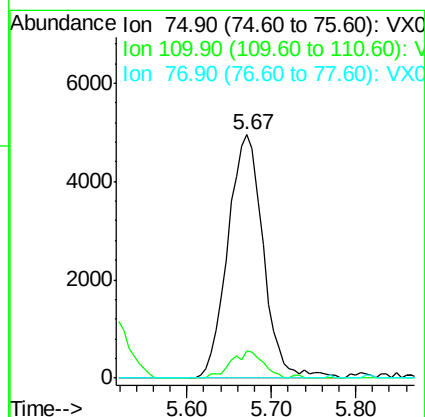
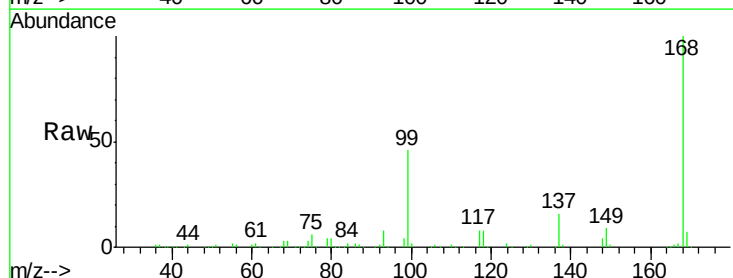
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY038PS034-180507

Tgt Ion:113 Resp: 149629  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 82.0 123.0  
 192 27.2 21.6 32.4

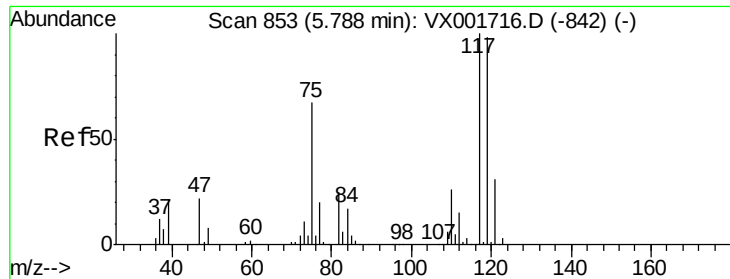


#36  
 1,1-Dichloropropene  
 Concen: 3.86 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001755.D  
 Acq: 15 May 2018 19:37

Tgt Ion: 75 Resp: 14111  
 Ion Ratio Lower Upper  
 75 100  
 110 10.0 19.1 57.1#  
 77 0.0 24.6 37.0#







#38

Carbon Tetrachloride

Concen: 5.10 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS034-180507

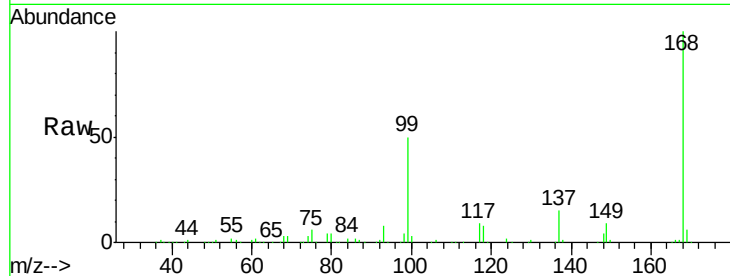
Tgt Ion:117 Resp: 19504

Ion Ratio Lower Upper

117 100

119 5.1 77.6 116.4#

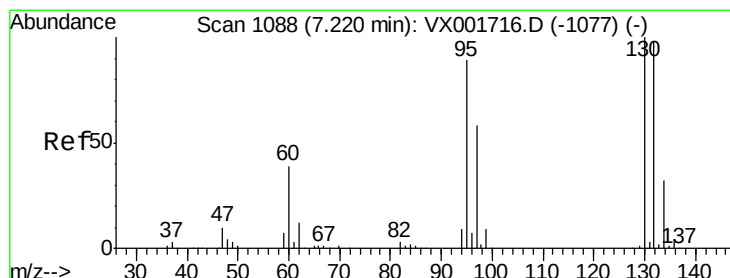
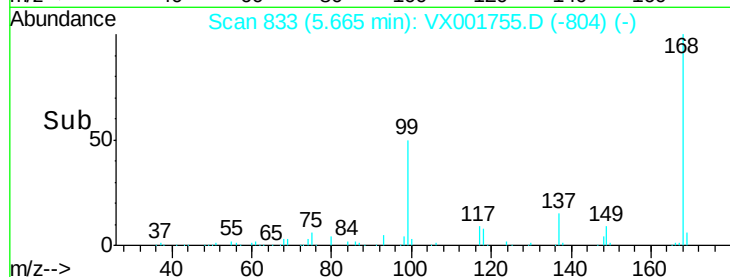
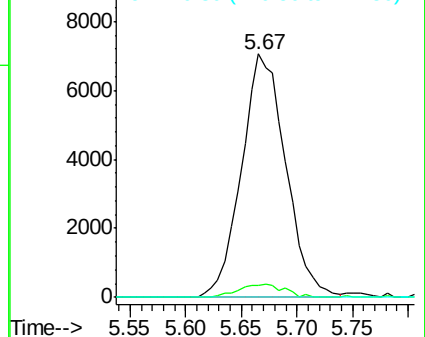
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.26 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX001755.D

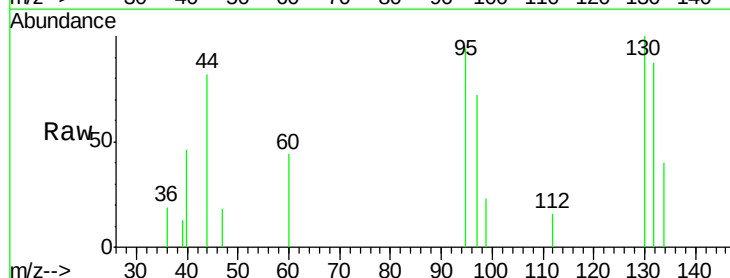
Acq: 15 May 2018 19:37

Tgt Ion:130 Resp: 861

Ion Ratio Lower Upper

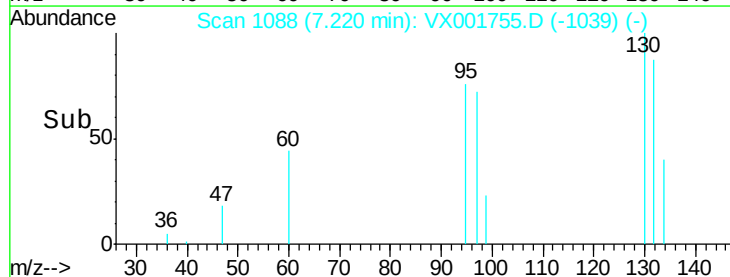
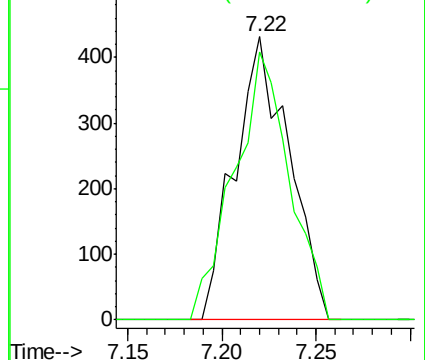
130 100

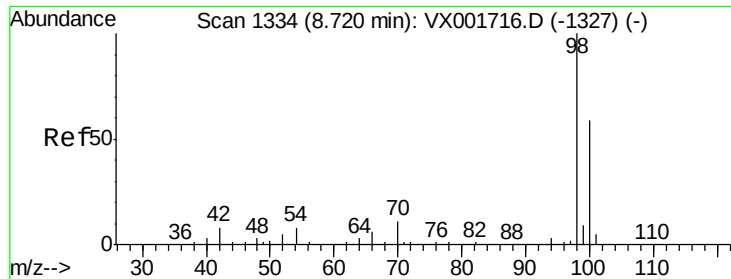
95 94.4 0.0 177.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

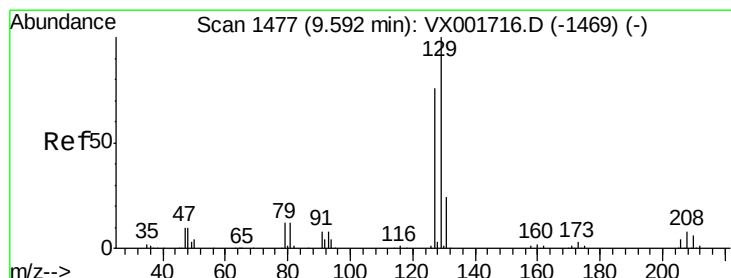
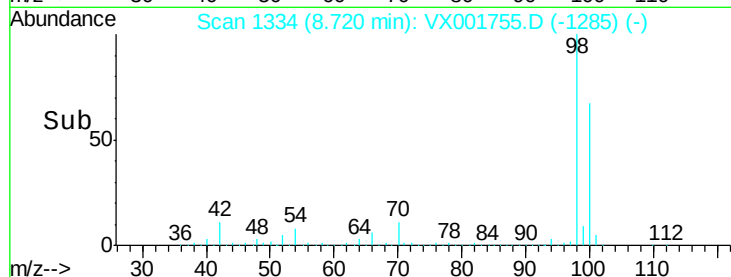
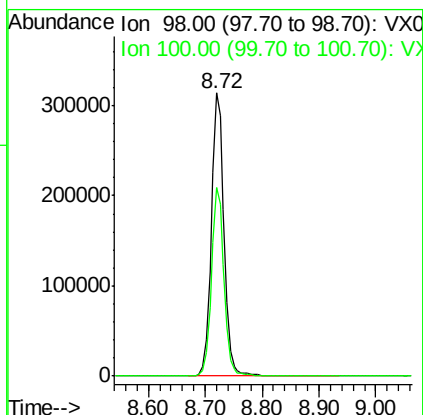
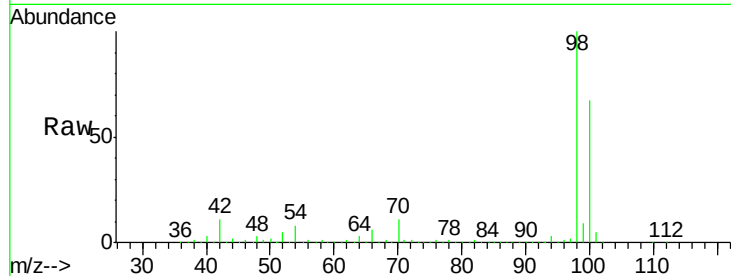




#50  
Toluene-d8  
Concen: 50.81 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX001755.D  
Acq: 15 May 2018 19:37

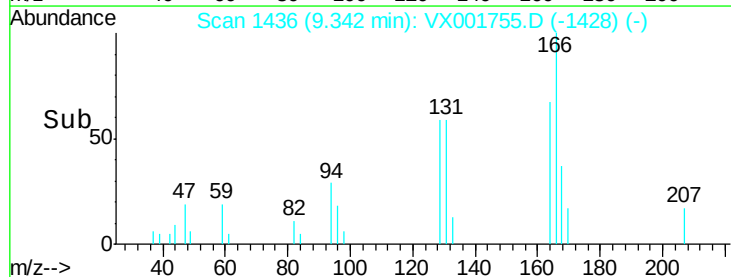
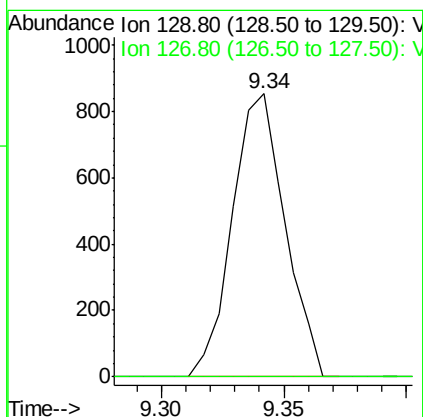
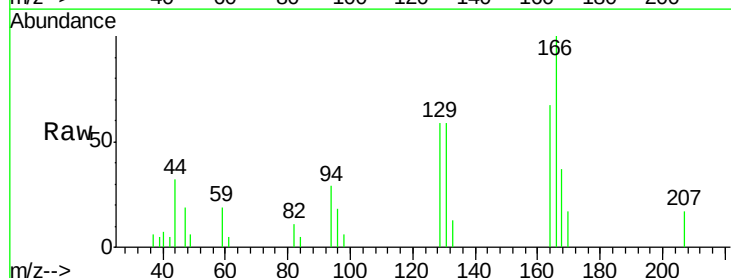
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS034-180507

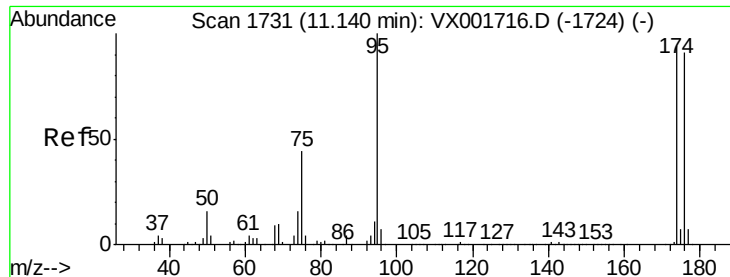
Tgt Ion: 98 Resp: 487304  
Ion Ratio Lower Upper  
98 100  
100 66.2 54.0 81.0



#60  
Dibromochloromethane  
Concen: 0.47 ug/l  
RT: 9.34 min Scan# 1436  
Delta R.T. -0.25 min  
Lab File: VX001755.D  
Acq: 15 May 2018 19:37

Tgt Ion: 129 Resp: 1276  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.7 116.1#

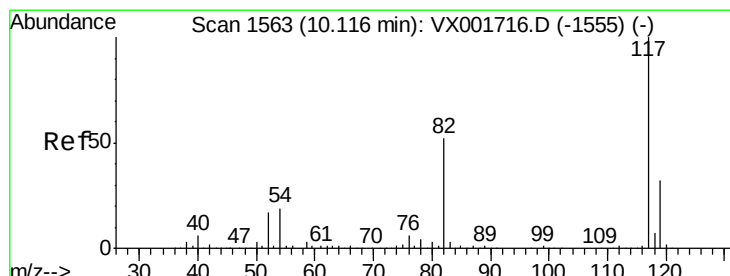
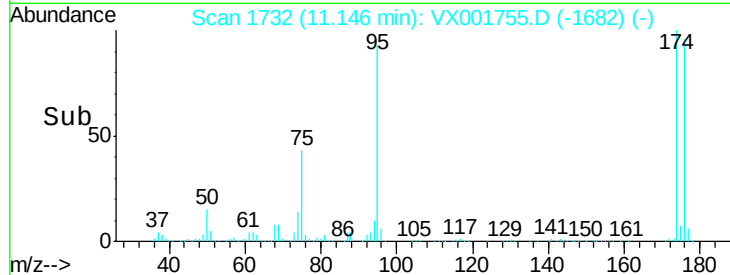
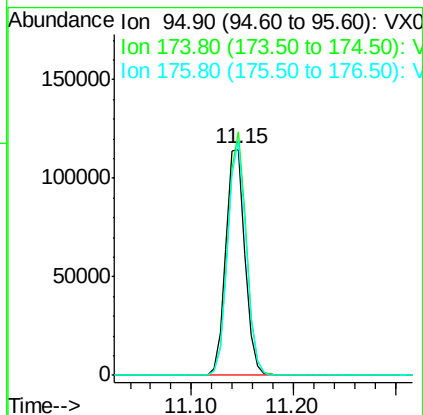
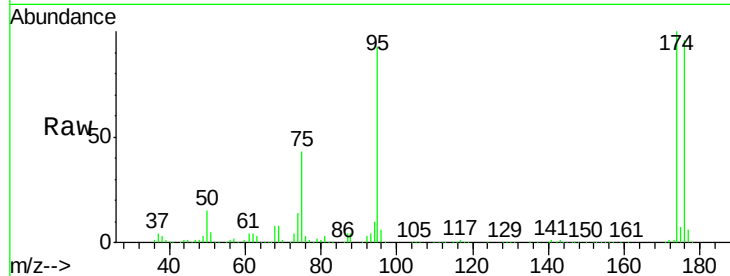




#62  
4-Bromofluorobenzene  
Concen: 43.20 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. 0.01 min  
Lab File: VX001755.D  
Acq: 15 May 2018 19:37

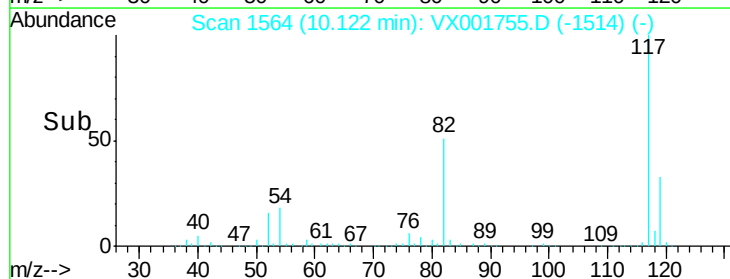
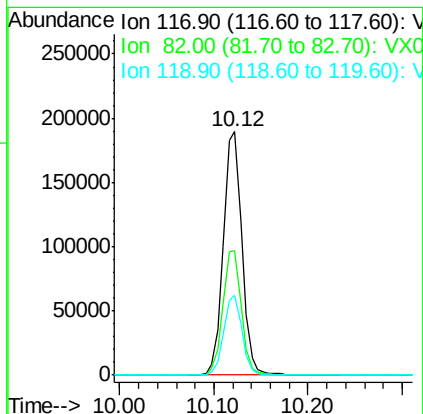
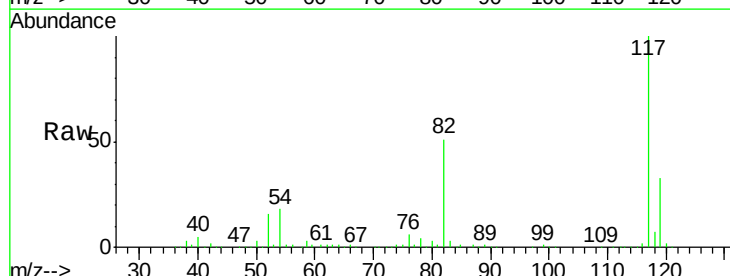
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS034-180507

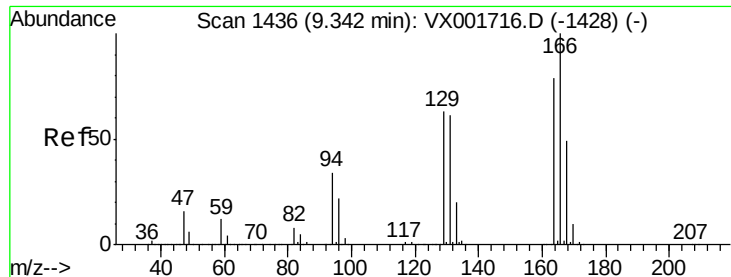
Tgt Ion: 95 Resp: 149175  
Ion Ratio Lower Upper  
95 100  
174 103.3 0.0 201.8  
176 99.2 0.0 196.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VX001755.D  
Acq: 15 May 2018 19:37

Tgt Ion: 117 Resp: 259595  
Ion Ratio Lower Upper  
117 100  
82 51.3 41.4 62.2  
119 32.7 25.6 38.4





#64

Tetrachloroethene

Concen: 0.49 ug/l

RT: 9.35 min Scan# 1437

Delta R.T. 0.01 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS034-180507

Tgt Ion:164 Resp: 1663

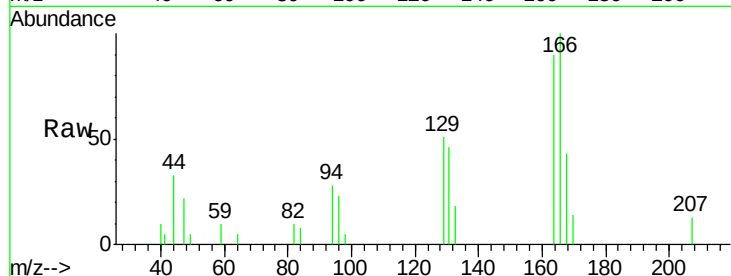
Ion Ratio Lower Upper

164 100

166 111.3 101.8 152.8

129 57.2 63.8 95.6#

131 50.7 62.2 93.2#



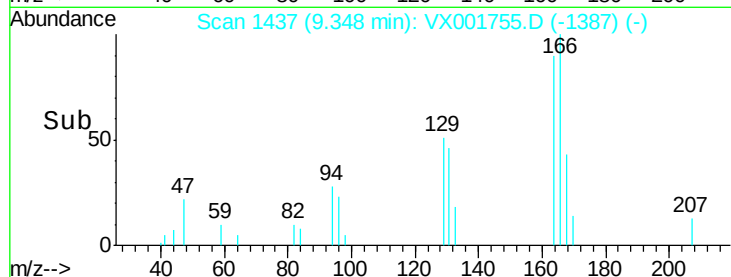
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

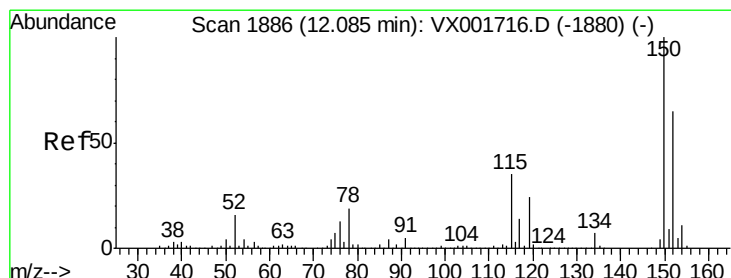
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001755.D

Acq: 15 May 2018 19:37

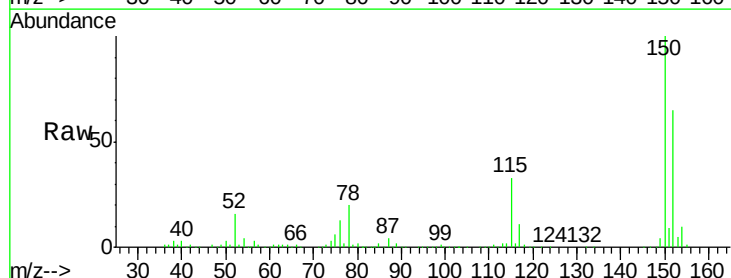
Tgt Ion:152 Resp: 127038

Ion Ratio Lower Upper

152 100

115 51.6 37.4 112.2

150 155.0 0.0 344.8

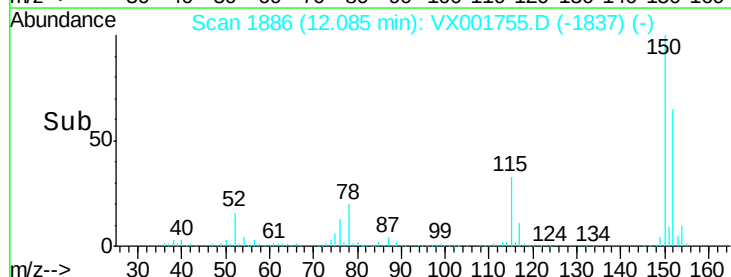


Abundance Ion 151.90 (151.60 to 152.60): V

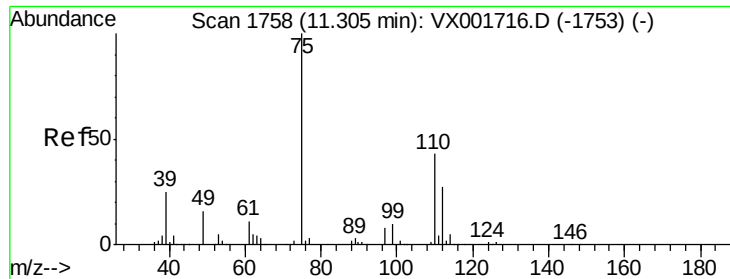
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->



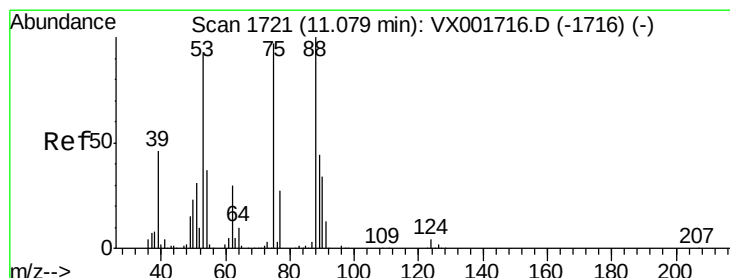
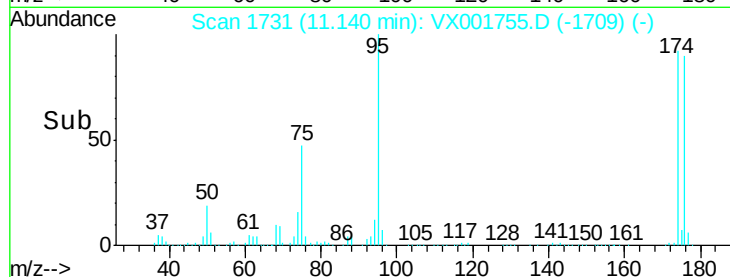
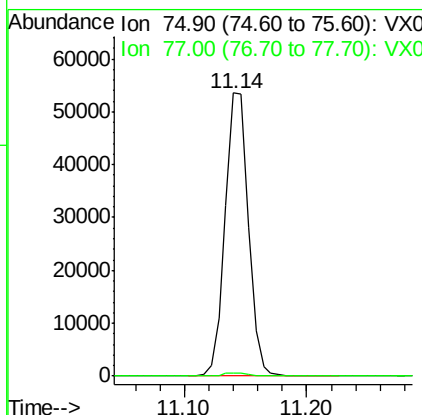
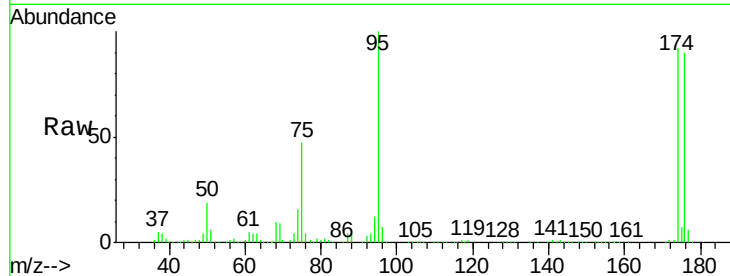
Time-->



#76  
 1,2,3-Trichloropropane  
 Concen: 29.20 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX001755.D  
 Acq: 15 May 2018 19:37

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY038PS034-180507

Tgt Ion: 75 Resp: 70530  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 18.9 56.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 84.56 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX001755.D  
 Acq: 15 May 2018 19:37

Tgt Ion: 75 Resp: 70530  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 79.4 119.2#  
 89 0.0 38.8 58.2#

