

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\  
 Data File : VX002611.D  
 Acq On : 15 Jun 2018 21:56  
 Operator : JC/MD  
 Sample : J3467-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 15 23:53:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 15 14:54:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 205119   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 298845   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 277190   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 152971   | 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   | 142037   | 45.57 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.14% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 107163   | 44.93 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.86% |          |
| 50) Toluene-d8              | 8.72  | 98   | 428431   | 47.31 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.62% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 147570   | 43.00 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.00% |          |

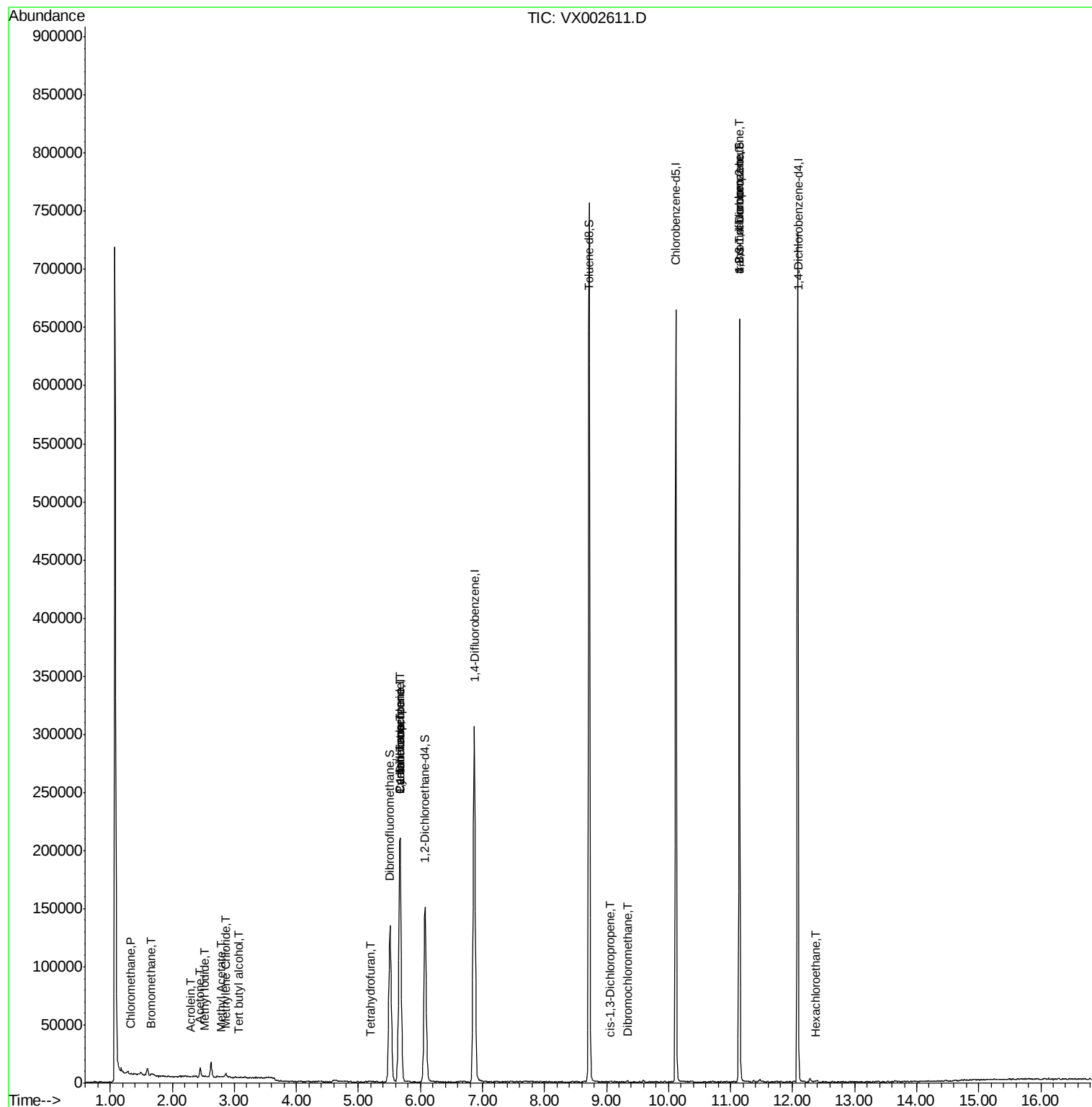
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 673      | 0.26  | ug/l # | 84     |
| 5) Bromomethane                | 1.67  | 94   | 1151     | 0.71  | ug/l # | 77     |
| 10) Methyl Iodide              | 2.52  | 142  | 1102     | 5.48  | ug/l   | 93     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 259      | 0.40  | ug/l # | 76     |
| 13) Acrolein                   | 2.30  | 56   | 157      | 7.37  | ug/l # | 72     |
| 16) Acetone                    | 2.45  | 43   | 8736     | 6.35  | ug/l   | 91     |
| 18) Methyl Acetate             | 2.79  | 43   | 1426     | 0.39  | ug/l # | 71     |
| 20) Methylene Chloride         | 2.86  | 84   | 1410     | 0.50  | ug/l   | 83     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 448      | 0.38  | ug/l # | 64     |
| 31) Cyclohexane                | 5.67  | 56   | 4611     | 1.25  | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 14162    | 4.46  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 19338    | 6.12  | ug/l # | 14     |
| 54) cis-1,3-Dichloropropene    | 9.06  | 75   | 71       | 3.23  | ug/l # | 32     |
| 60) Dibromochloromethane       | 9.34  | 129  | 27       | 3.77  | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 80710    | 27.96 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 80710    | 86.17 | ug/l # | 7      |
| 90) Hexachloroethane           | 12.37 | 117  | 39       | 2.65  | ug/l # | 1      |

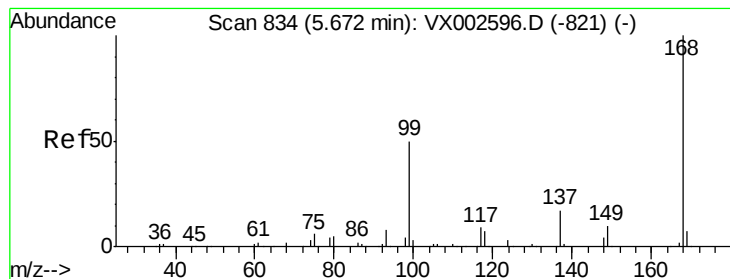
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061518\  
Data File : VX002611.D  
Acq On : 15 Jun 2018 21:56  
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Sample : J3467-08  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 15 23:53:27 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 15 14:54:36 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: VX002611.D

Acq: 15 Jun 2018 21:56

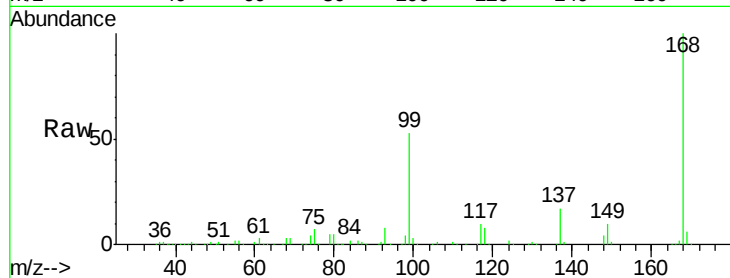
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 205119

Ion Ratio Lower Upper

168 100

99 53.3 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

80000

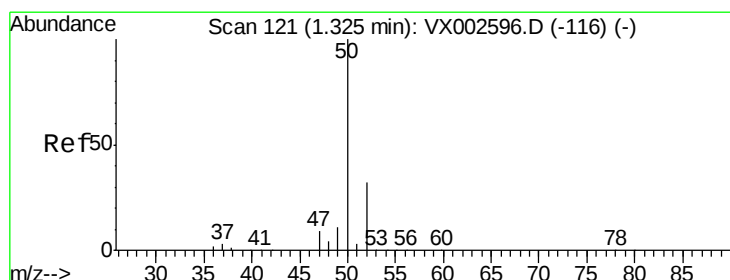
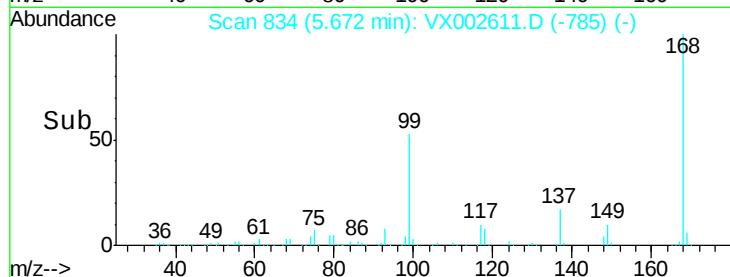
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.26 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002611.D

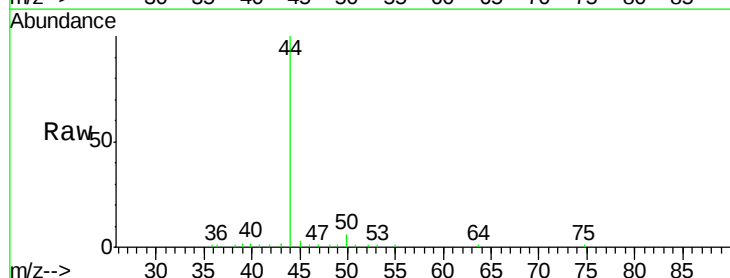
Acq: 15 Jun 2018 21:56

Tgt Ion: 50 Resp: 673

Ion Ratio Lower Upper

50 100

52 23.3 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

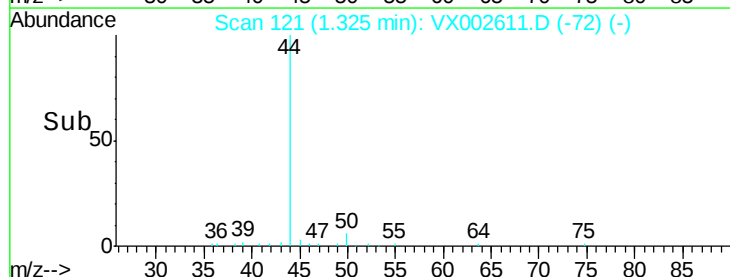
300

200

100

0

Time-->





#5

Bromomethane

Concen: 0.71 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

Instrument :

MSVOA\_X

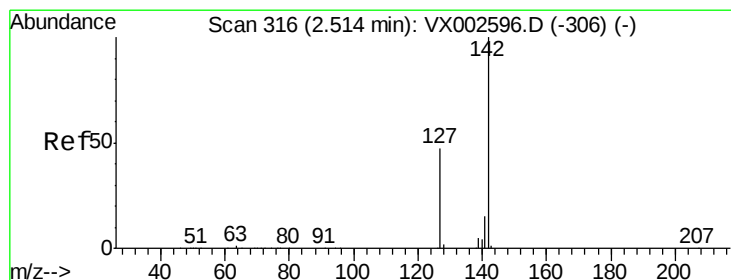
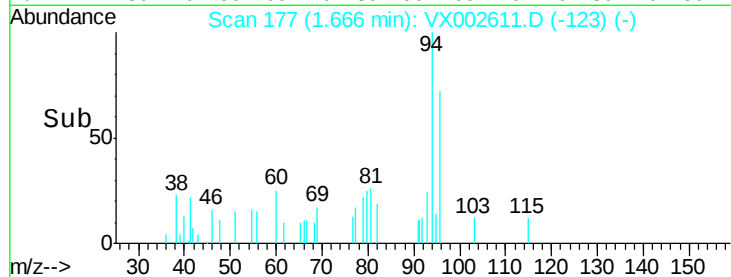
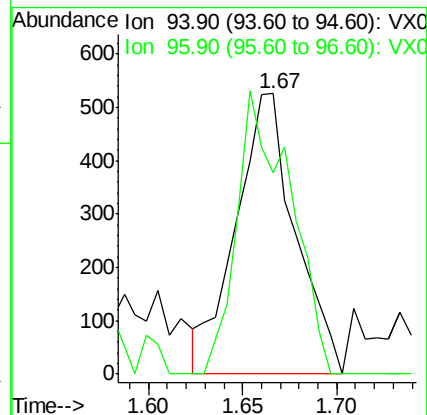
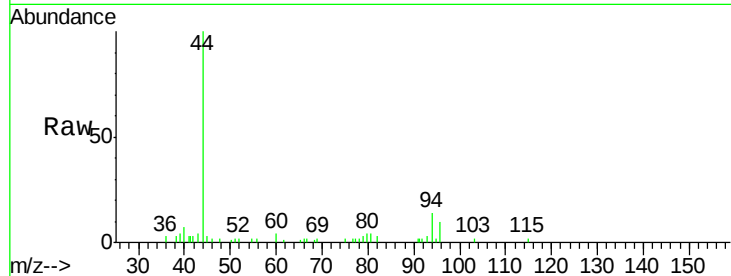
ClientSampled :

Tot Ion: 94 Resp: 1151

Ion Ratio Lower Upper

94 100

96 71.9 74.9 112.3#



#10

Methyl Iodide

Concen: 5.48 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

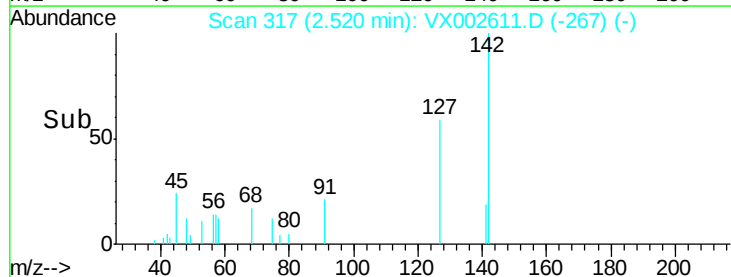
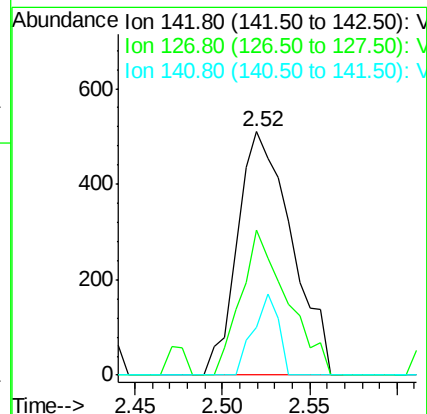
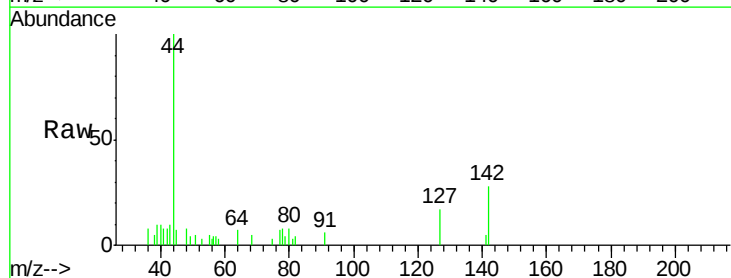
Tgt Ion: 142 Resp: 1102

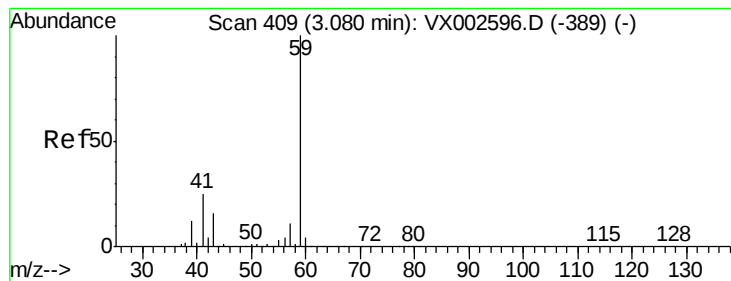
Ion Ratio Lower Upper

142 100

127 50.8 36.6 55.0

141 15.3 11.3 16.9



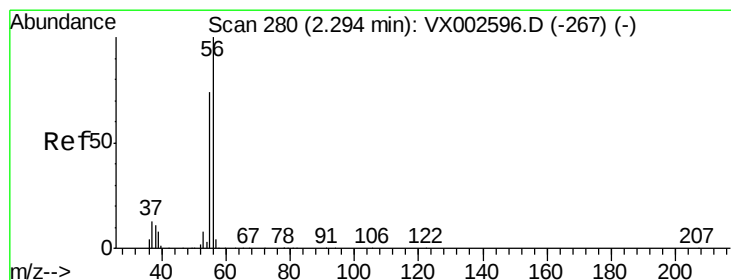
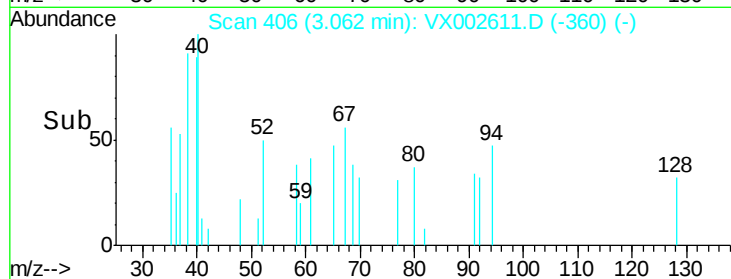
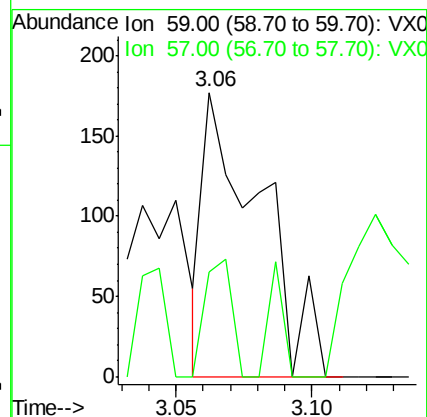
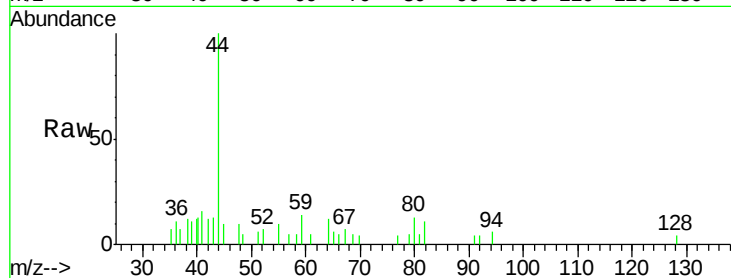


#11

Tert butyl alcohol  
Concen: 0.40 ug/l  
RT: 3.06 min Scan# 406  
Delta R.T. -0.02 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Instrument :  
MSVOA\_X  
ClientSampled :

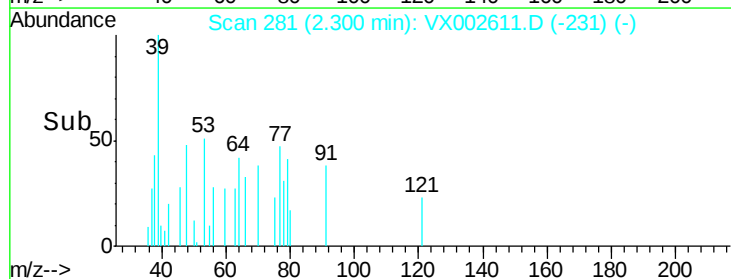
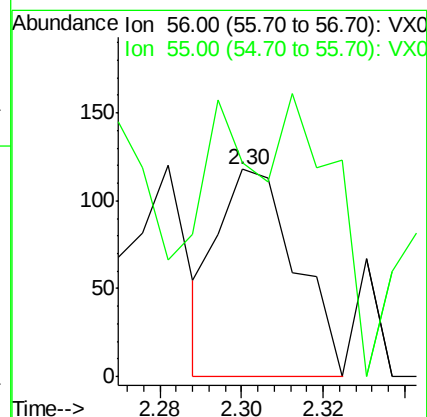
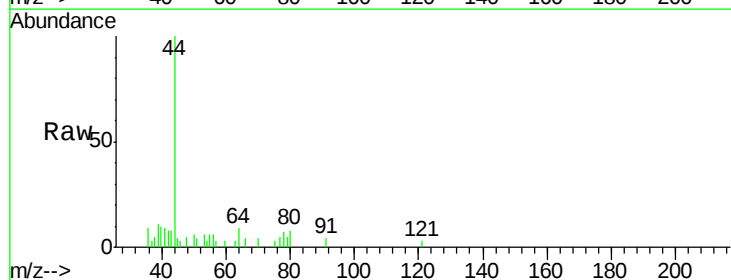
Tot Ion: 59 Resp: 259  
Ion Ratio Lower Upper  
59 100  
57 19.3 8.2 12.2#

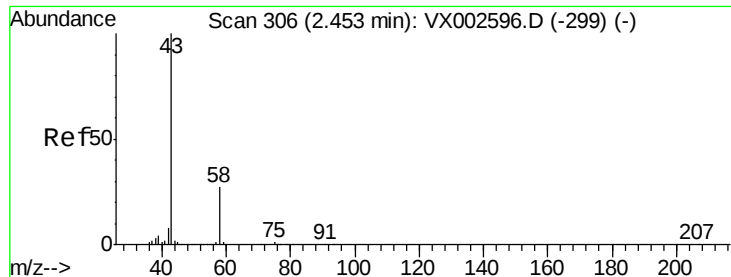


#13

Acrolein  
Concen: 7.37 ug/l  
RT: 2.30 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Tgt Ion: 56 Resp: 157  
Ion Ratio Lower Upper  
56 100  
55 48.4 57.0 85.4#





#16

Acetone

Concen: 6.35 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

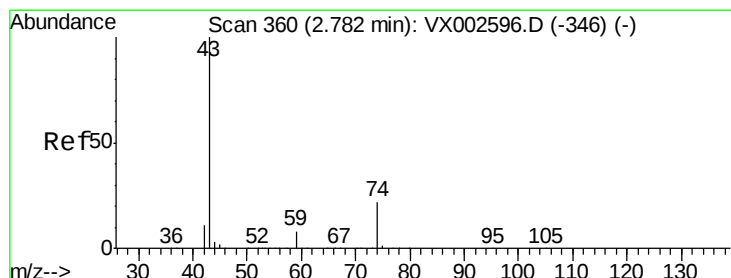
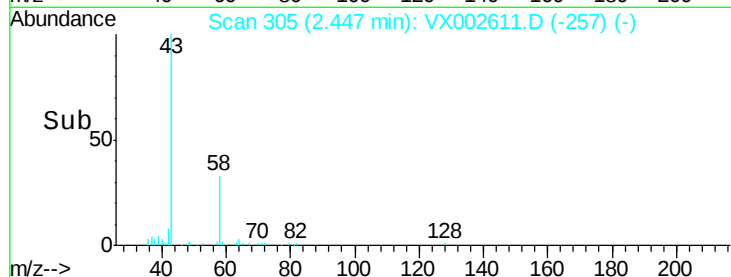
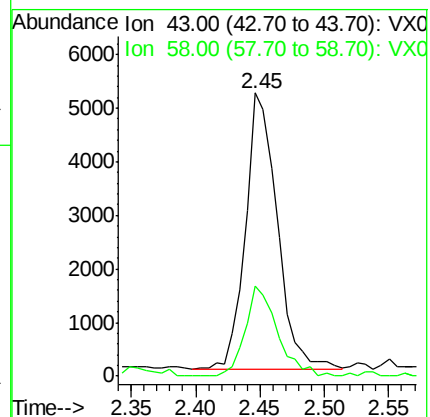
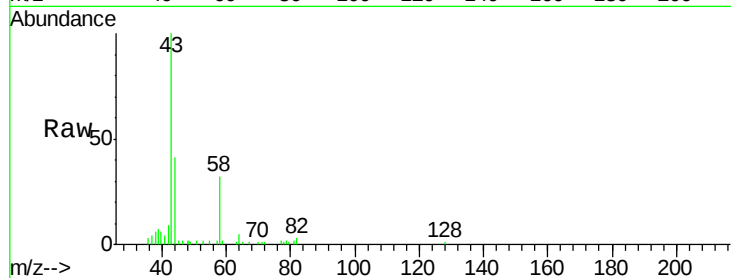
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 43 Resp: 8736

Ion Ratio Lower Upper

43 100

58 32.6 22.1 33.1



#18

Methyl Acetate

Concen: 0.39 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002611.D

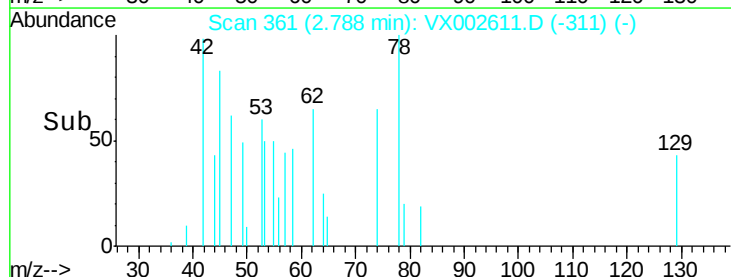
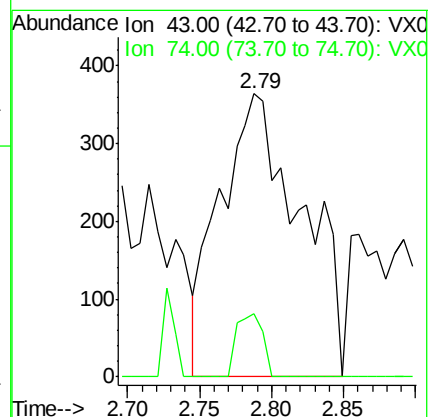
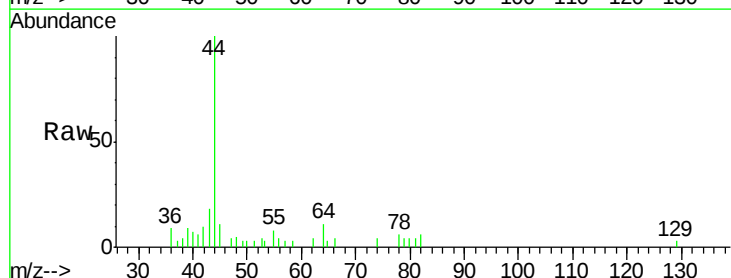
Acq: 15 Jun 2018 21:56

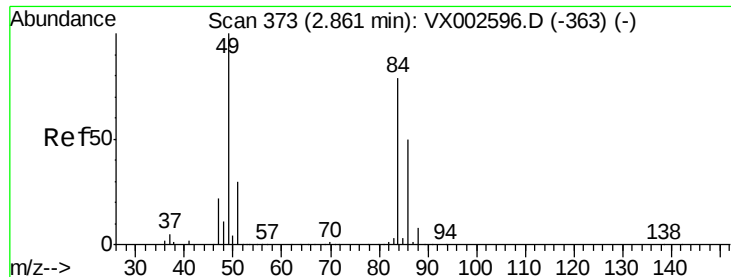
Tgt Ion: 43 Resp: 1426

Ion Ratio Lower Upper

43 100

74 7.3 16.7 25.1#

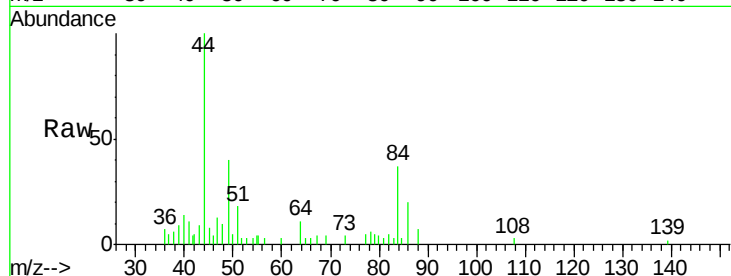




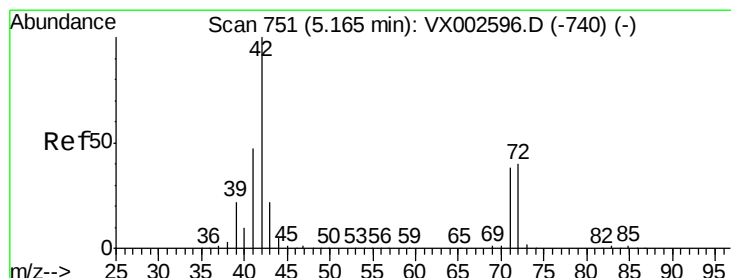
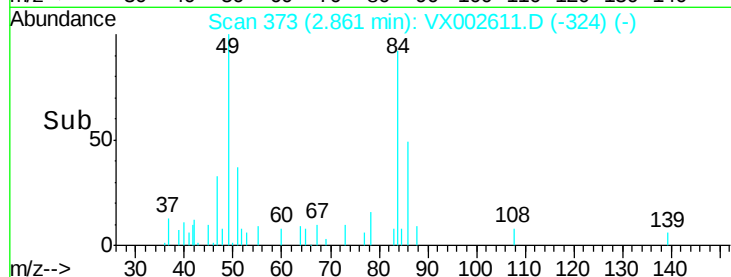
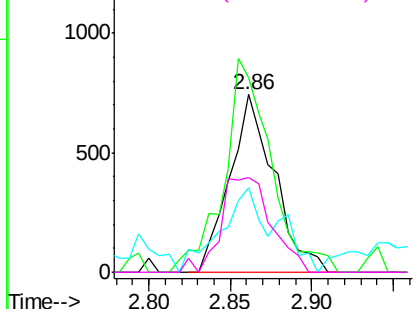
#20  
Methvlene Chloride  
Concen: 0.50 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.00 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 84 Resp: 1410  
Ion Ratio Lower Upper  
84 100  
49 109.3 107.8 161.6  
51 38.4 32.8 49.2  
86 53.3 52.5 78.7

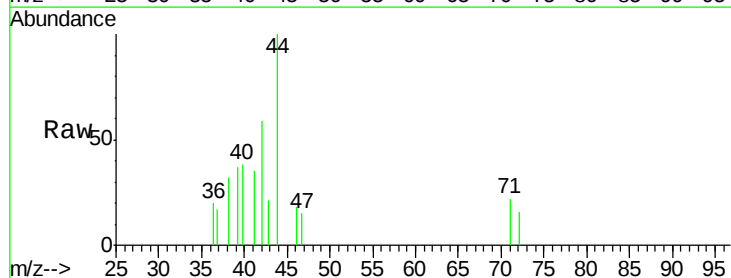


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

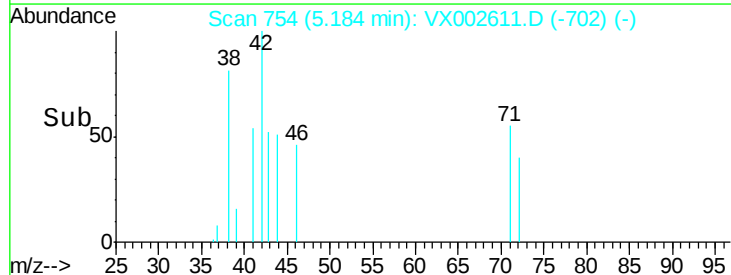
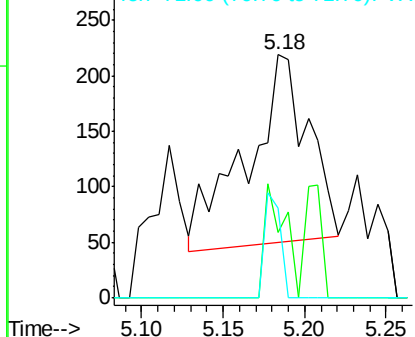


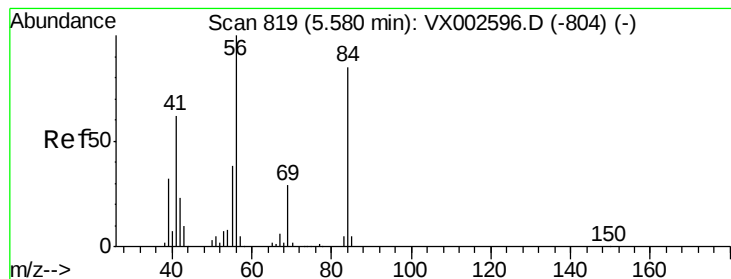
#29  
Tetrahydrofuran  
Concen: 0.38 ug/l  
RT: 5.18 min Scan# 754  
Delta R.T. 0.02 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Tgt Ion: 42 Resp: 448  
Ion Ratio Lower Upper  
42 100  
72 19.4 32.0 48.0#  
71 14.3 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0  
Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.25 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

Instrument :

MSVOA\_X

ClientSampleId :

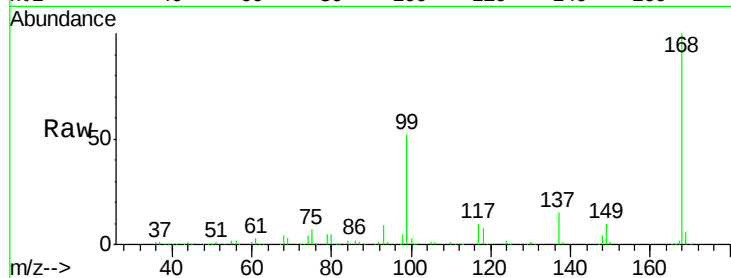
Tot Ion: 56 Resp: 4611

Ion Ratio Lower Upper

56 100

69 154.7 23.7 35.5#

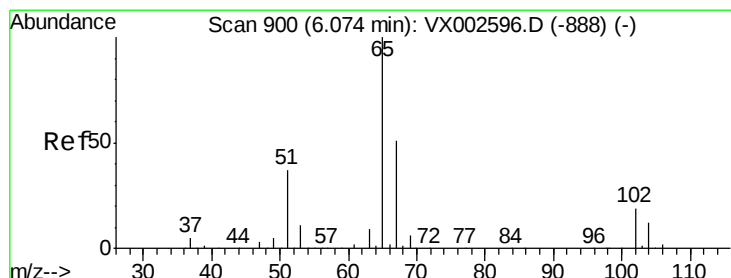
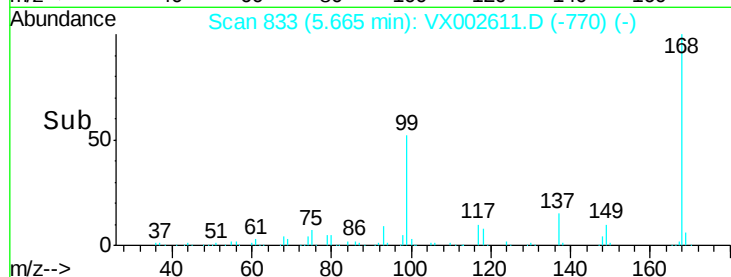
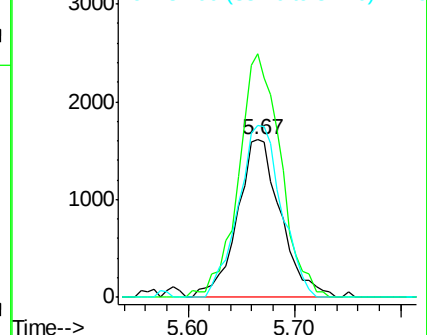
84 108.9 64.1 96.1#



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: 45.57 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002611.D

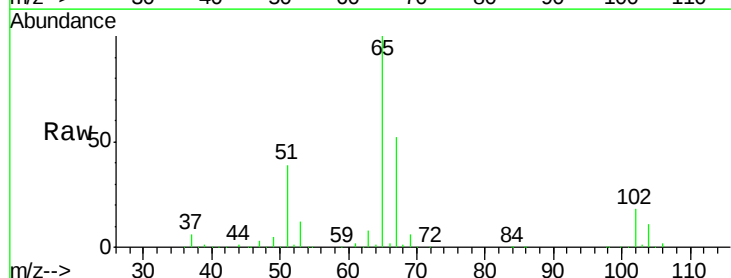
Acq: 15 Jun 2018 21:56

Tgt Ion: 65 Resp: 142037

Ion Ratio Lower Upper

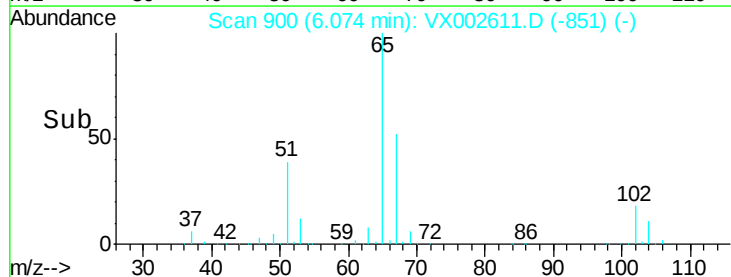
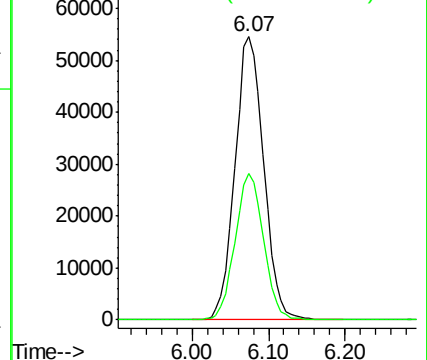
65 100

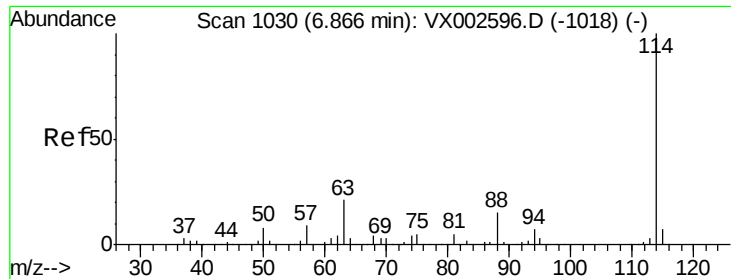
67 51.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

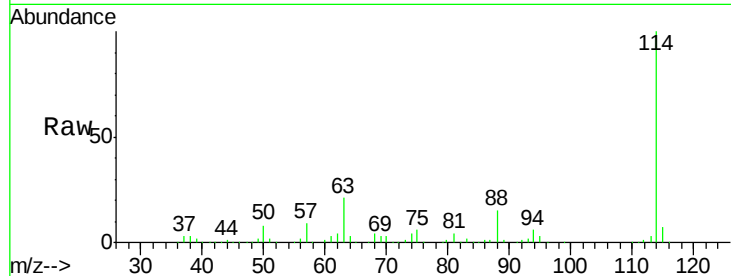




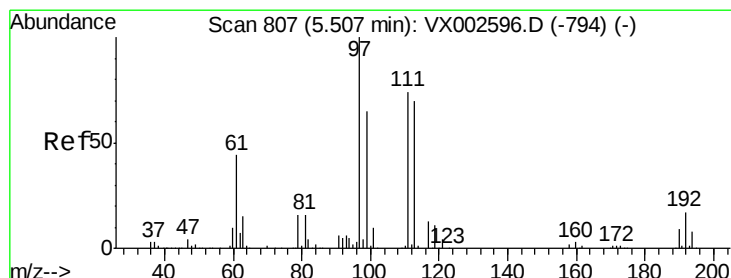
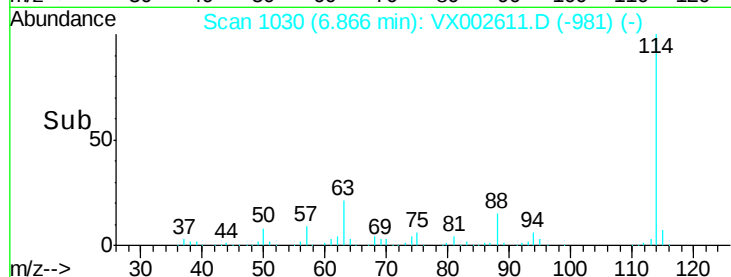
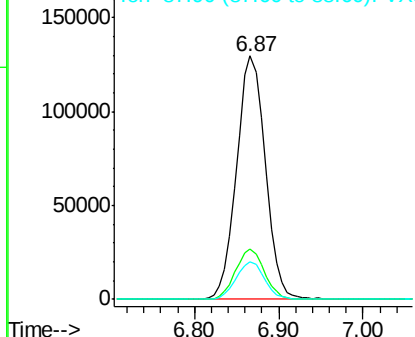
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX002611.D  
 Acq: 15 Jun 2018 21:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.9  | 0.0   | 41.4  |
| 88      | 15.4  | 0.0   | 30.0  |

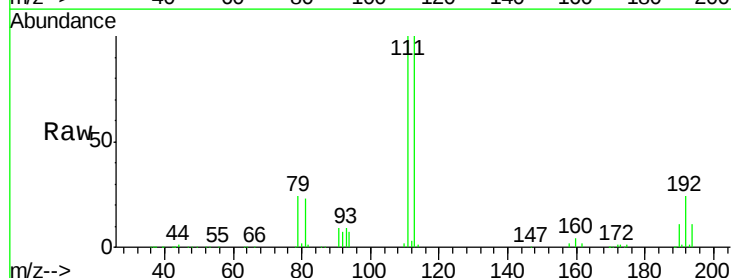


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX  
 Ion 87.90 (87.60 to 88.60): VX

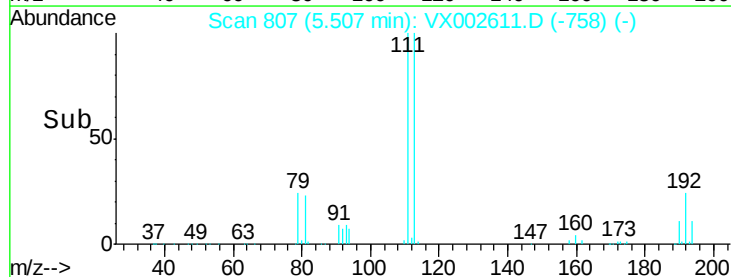
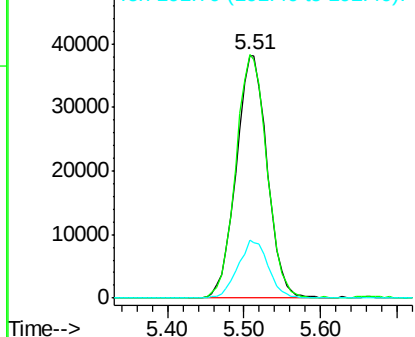


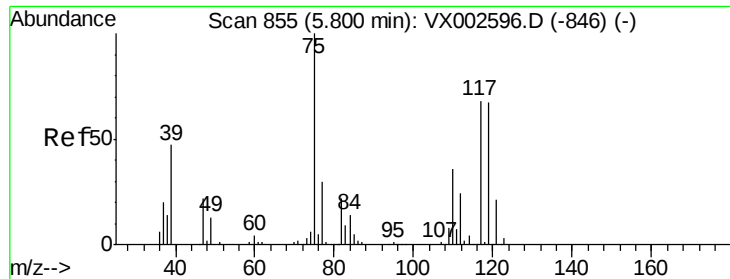
#35  
 Dibromofluoromethane  
 Concen: 44.93 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX002611.D  
 Acq: 15 Jun 2018 21:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.8 | 81.4  | 122.0 |
| 192     | 23.4  | 19.1  | 28.7  |



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

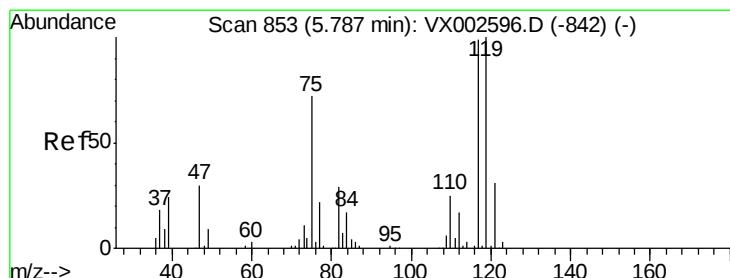
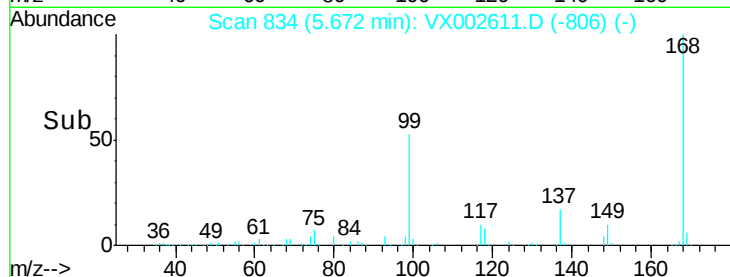
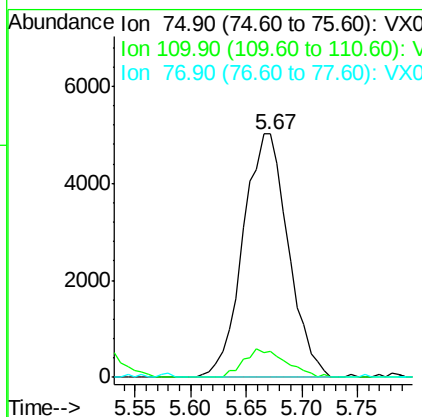
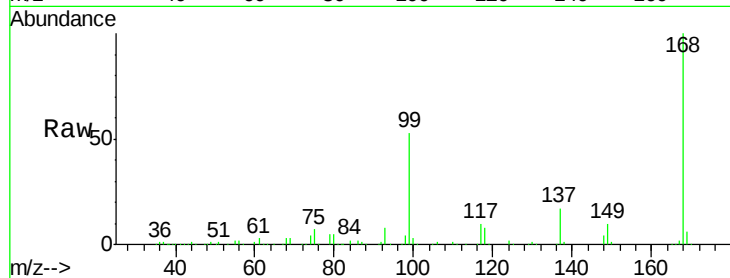




#36  
 1,1-Dichloropropene  
 Concen: 4.46 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX002611.D  
 Acq: 15 Jun 2018 21:56

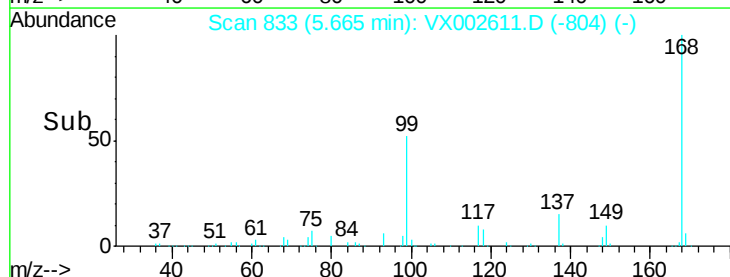
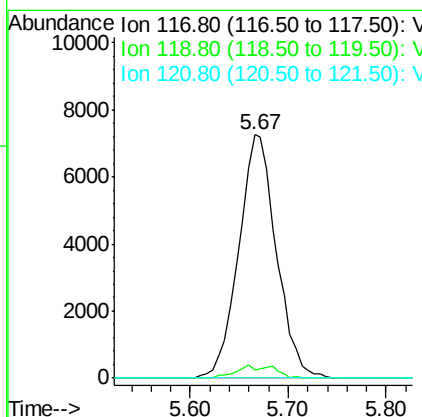
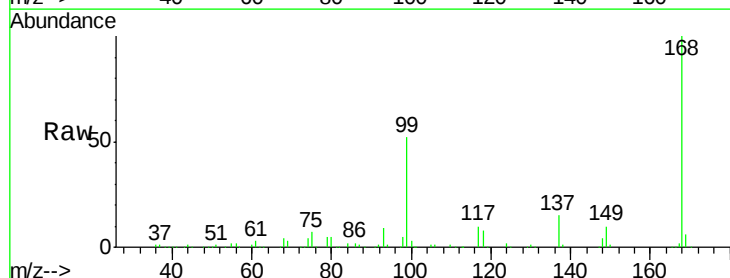
Instrument :  
 MSVOA\_X  
 ClientSampleId :

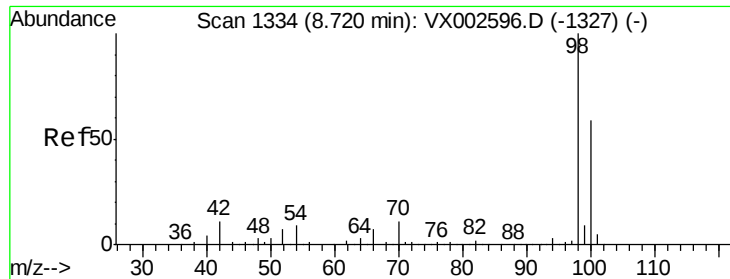
Tot Ion: 75 Resp: 14162  
 Ion Ratio Lower Upper  
 75 100  
 110 10.8 18.1 54.4#  
 77 0.0 24.3 36.5#



#38  
 Carbon Tetrachloride  
 Concen: 6.12 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.12 min  
 Lab File: VX002611.D  
 Acq: 15 Jun 2018 21:56

Tgt Ion: 117 Resp: 19338  
 Ion Ratio Lower Upper  
 117 100  
 119 3.3 77.4 116.0#  
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 47.31 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

Instrument :

MSVOA\_X

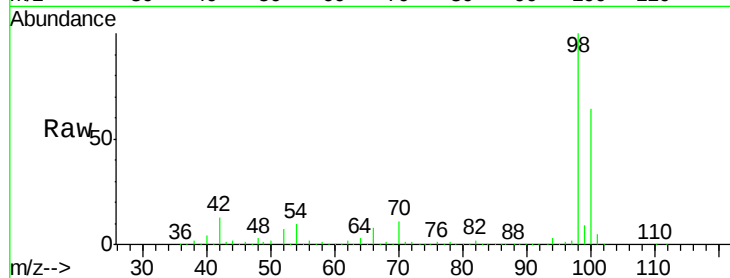
ClientSampleId :

Tot Ion: 98 Resp: 428431

Ion Ratio Lower Upper

98 100

100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

300000

250000

200000

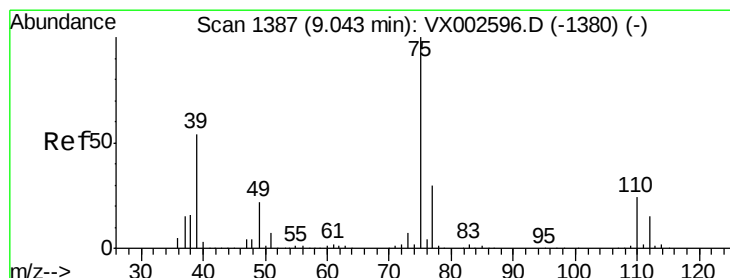
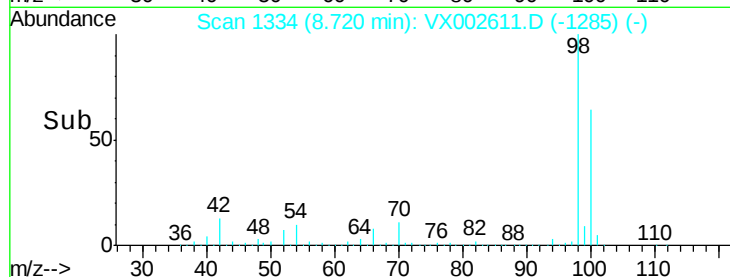
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#54

cis-1,3-Dichloropropene

Concen: 3.23 ug/l

RT: 9.06 min Scan# 1389

Delta R.T. 0.01 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

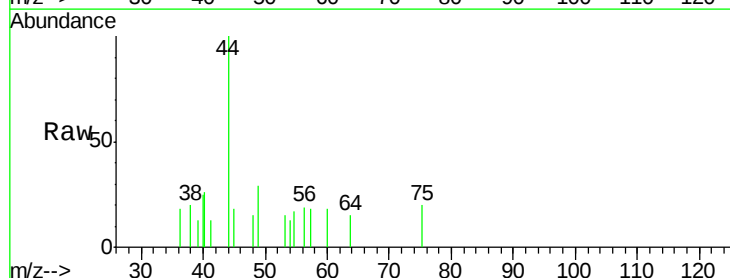
Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 0.0 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

300

250

200

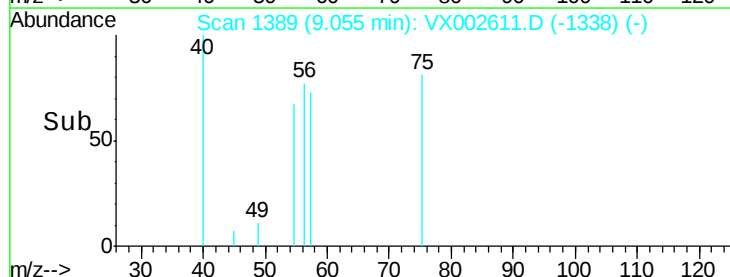
150

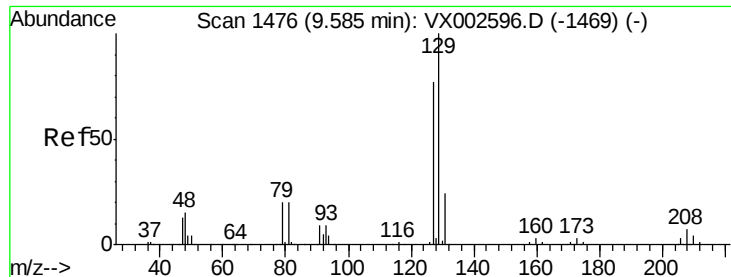
100

50

0

Time--> 9.02 9.04 9.06 9.08

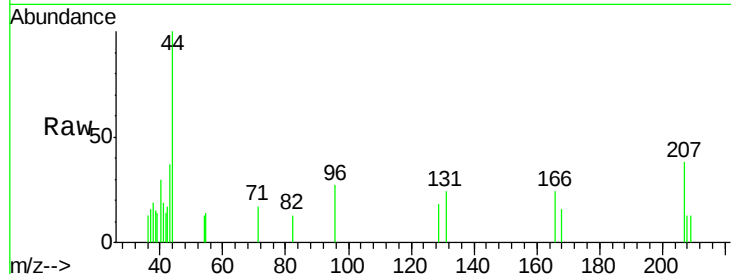




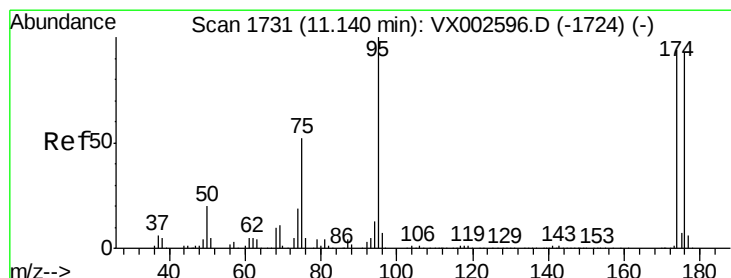
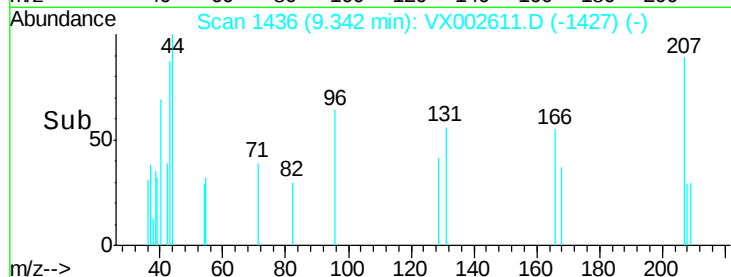
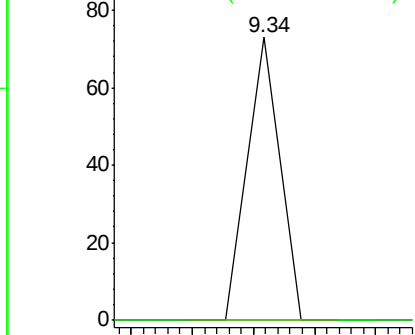
#60  
Dibromochloromethane  
Concen: 3.77 ug/l  
RT: 9.34 min Scan# 1436  
Delta R.T. -0.24 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:129 Resp: 27  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#

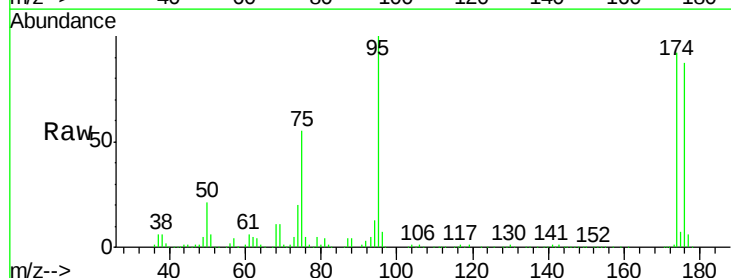


Abundance Ion 128.80 (128.50 to 129.50): V  
Ion 126.80 (126.50 to 127.50): V

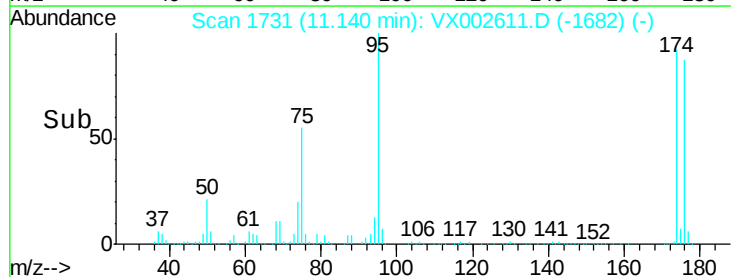
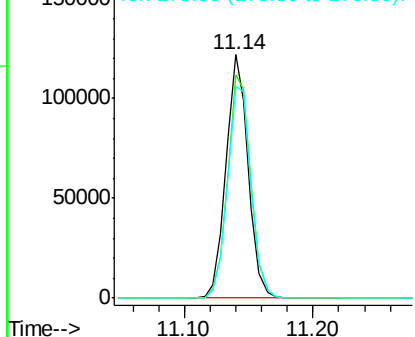


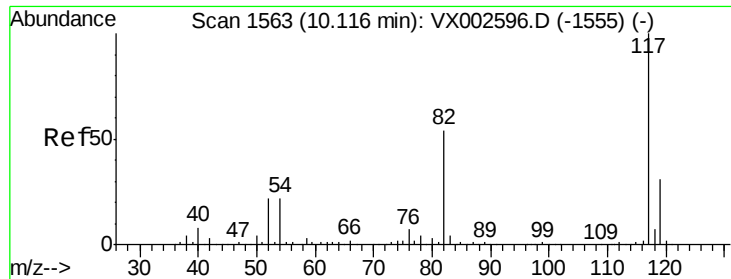
#62  
4-Bromofluorobenzene  
Concen: 43.00 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Tgt Ion: 95 Resp: 147570  
Ion Ratio Lower Upper  
95 100  
174 95.6 0.0 187.4  
176 92.8 0.0 181.0



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

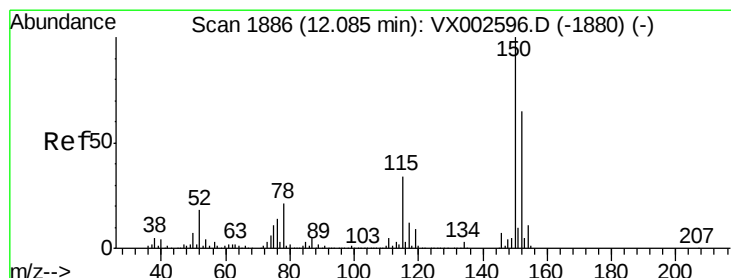
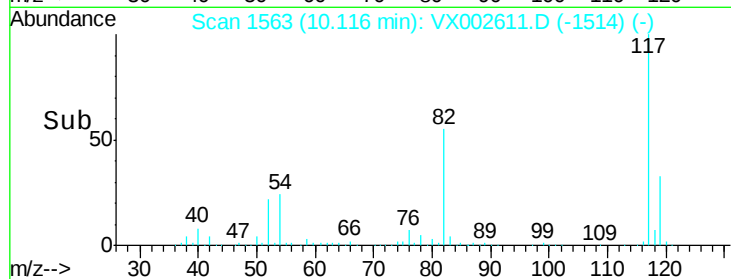
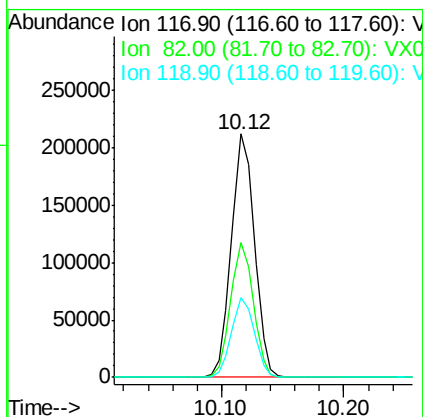
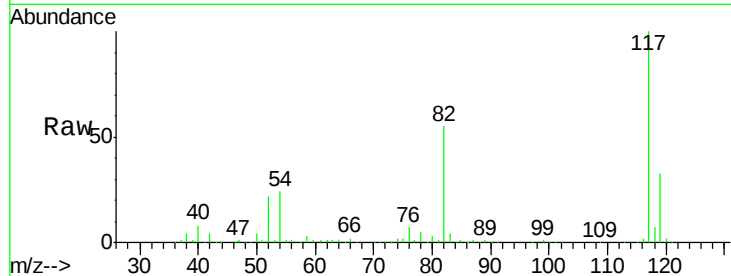




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

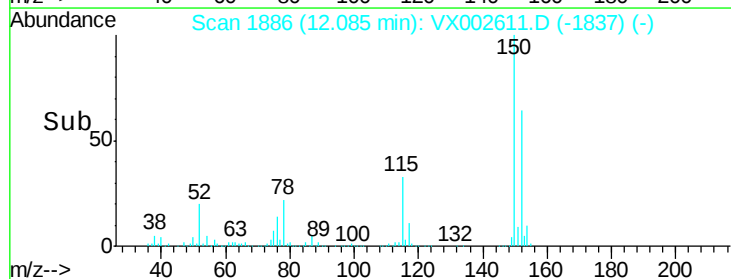
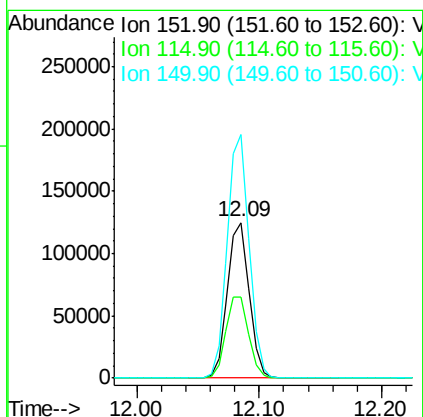
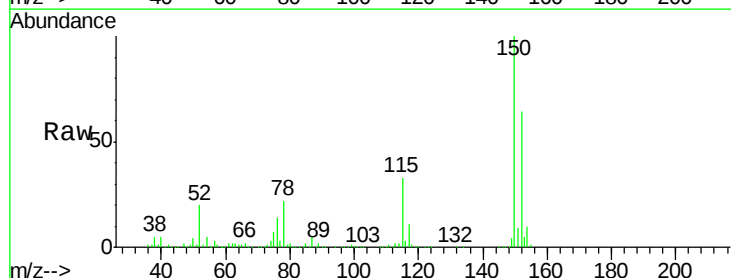
Instrument :  
MSVOA\_X  
ClientSampled :

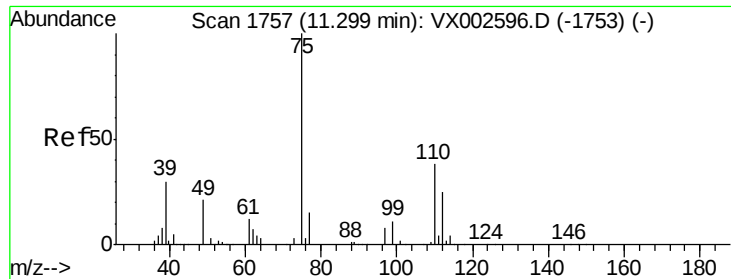
Tot Ion:117 Resp: 277190  
Ion Ratio Lower Upper  
117 100  
82 55.2 45.0 67.4  
119 32.8 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX002611.D  
Acq: 15 Jun 2018 21:56

Tgt Ion:152 Resp: 152971  
Ion Ratio Lower Upper  
152 100  
115 54.8 40.1 120.2  
150 157.3 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 27.96 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

Instrument :

MSVOA\_X

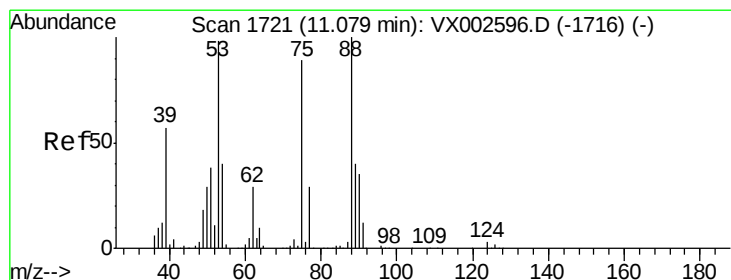
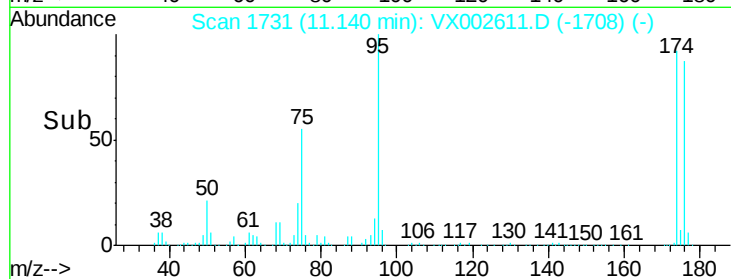
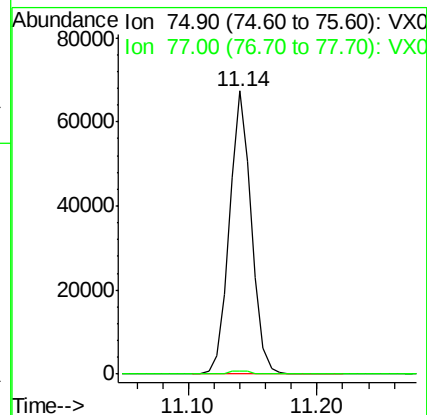
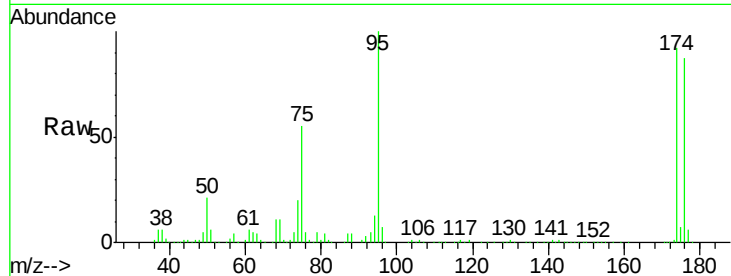
ClientSampleId :

Tot Ion: 75 Resp: 80710

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 86.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

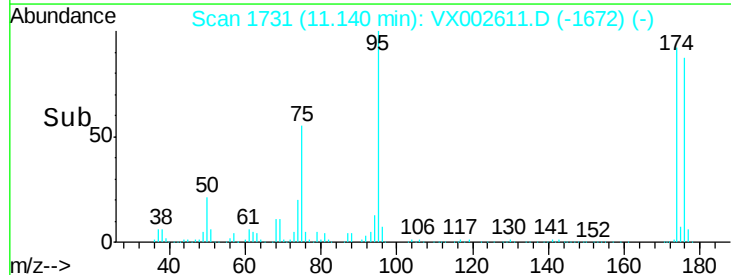
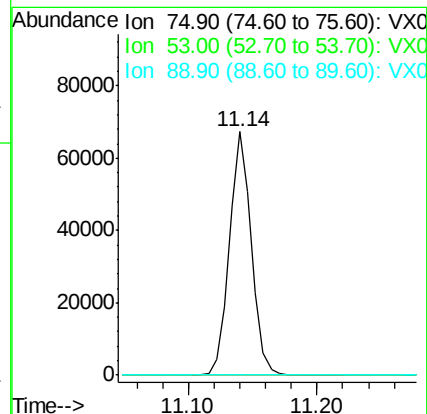
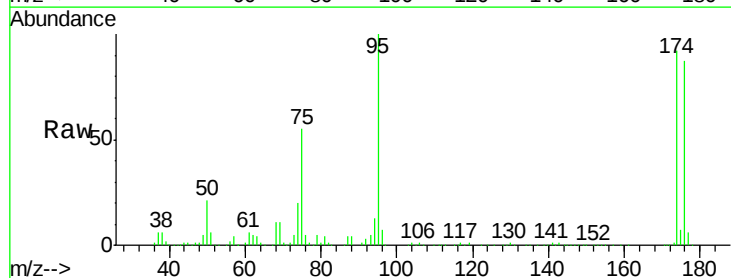
Tgt Ion: 75 Resp: 80710

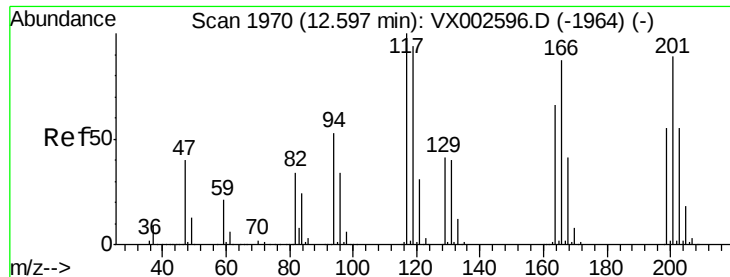
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.65 ug/l

RT: 12.37 min Scan# 1933

Delta R.T. -0.23 min

Lab File: VX002611.D

Acq: 15 Jun 2018 21:56

Instrument :

MSVOA\_X

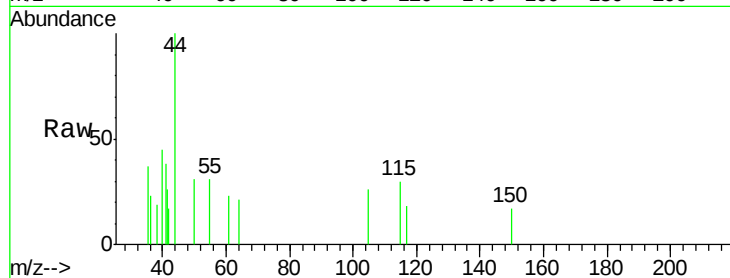
ClientSampleId :

Tot Ion:117 Resp: 39

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

