

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080818\  
 Data File : VX003925.D  
 Acq On : 08 Aug 2018 15:58  
 Operator : JC/MD  
 Sample : J4379-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-106S

Quant Time: Aug 09 03:14:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 315566   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 493441   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 464379   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 251812   | 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   | 218701   | 52.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.56% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 187996   | 50.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.58% |          |
| 50) Toluene-d8              | 8.72  | 98   | 706161   | 48.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.16%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 242963   | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |

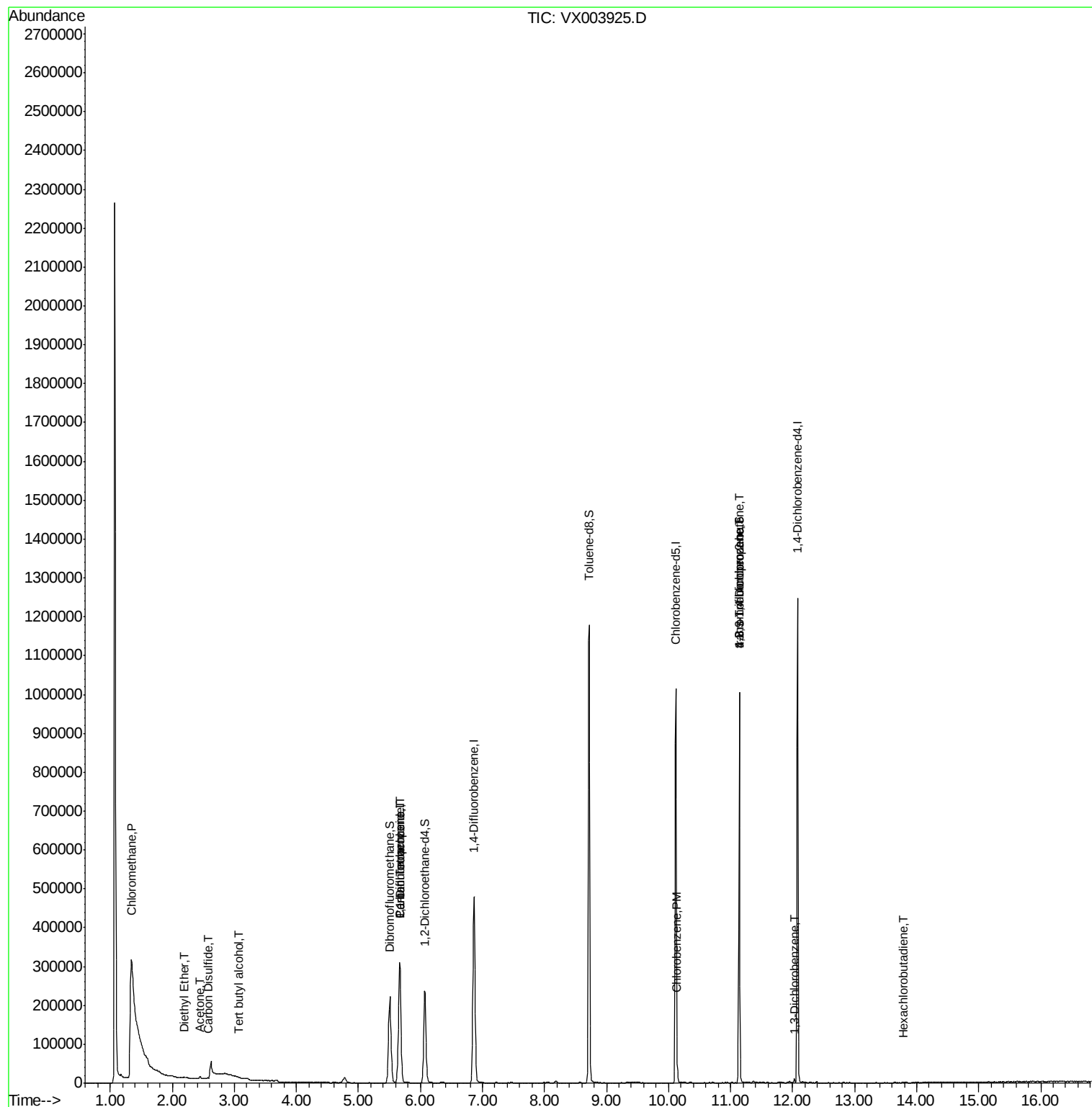
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.34  | 50   | 34765    | 7.99      | ug/l # | 47     |
| 5) Bromomethane                | 1.65  | 94   | 403      | Below Cal | #      | 79     |
| 8) Diethyl Ether               | 2.19  | 74   | 941      | 0.37      | ug/l   | 78     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 586      | 0.58      | ug/l # | 88     |
| 13) Acrolein                   | 2.29  | 56   | 111      | Below Cal | #      | 53     |
| 16) Acetone                    | 2.45  | 43   | 5575     | 2.24      | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.57  | 76   | 3790     | 0.83      | ug/l # | 88     |
| 20) Methylene Chloride         | 2.86  | 84   | 560      | Below Cal | #      | 74     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 21298    | 3.85      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 27834    | 5.29      | ug/l # | 15     |
| 65) Chlorobenzene              | 10.14 | 112  | 13270    | 1.10      | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 118790   | 21.36     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 118790   | 57.74     | ug/l # | 9      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 1900     | 0.21      | ug/l   | 97     |
| 88) 1,4-Dichlorobenzene        | 12.02 | 146  | 1900     | Below Cal |        | 97     |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 207      | 0.50      | ug/l   | 76     |

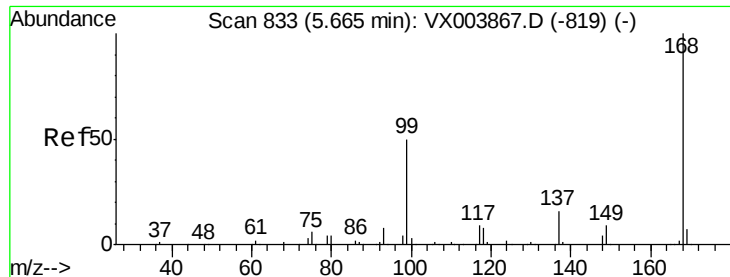
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX080818\  
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Sample : J4379-03  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-106S

Quant Time: Aug 09 03:14:18 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 07:45:48 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

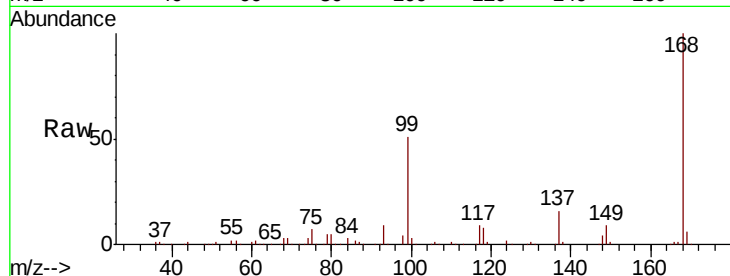
MW-106S

Tot Ion:168 Resp: 315566

Ion Ratio Lower Upper

168 100

99 51.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

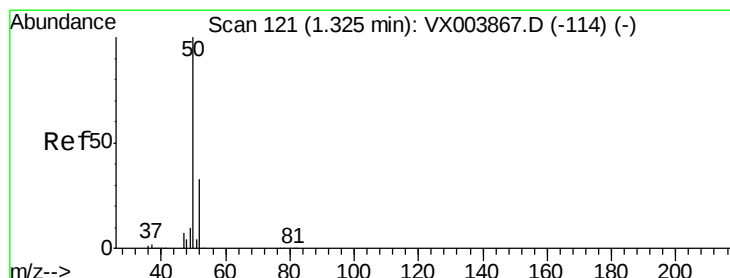
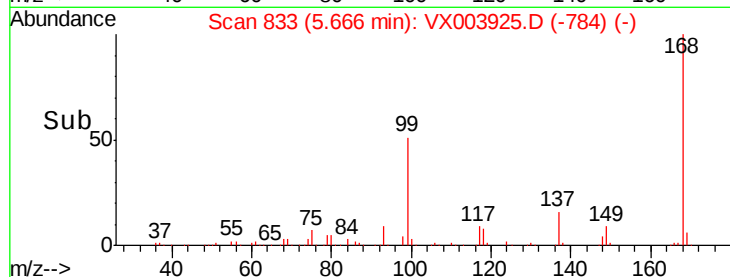
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 7.99 ug/l

RT: 1.34 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX003925.D

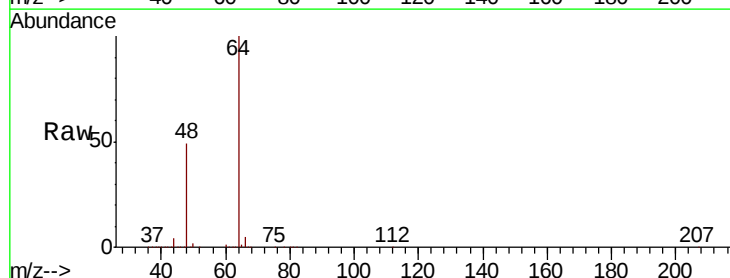
Acq: 08 Aug 2018 15:58

Tgt Ion: 50 Resp: 34765

Ion Ratio Lower Upper

50 100

52 3.2 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

5000

4000

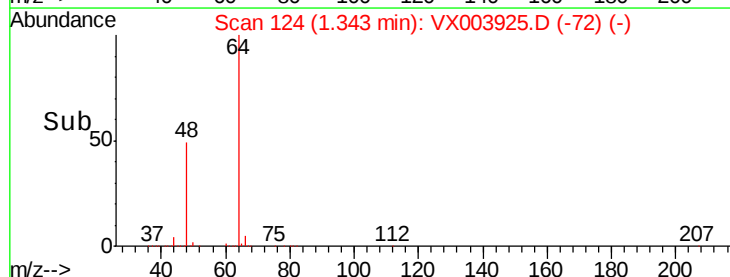
3000

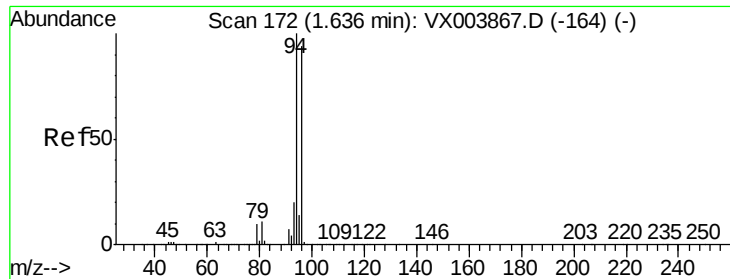
2000

1000

0

Time--> 1.20 1.30 1.40 1.50 1.60





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

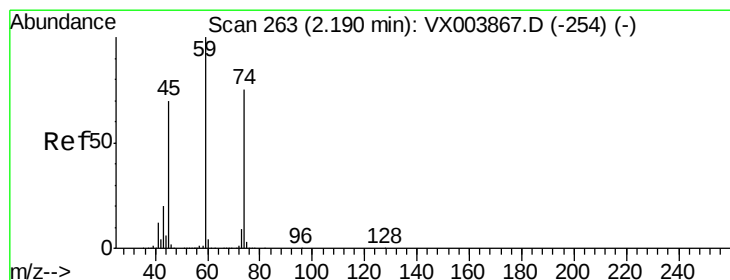
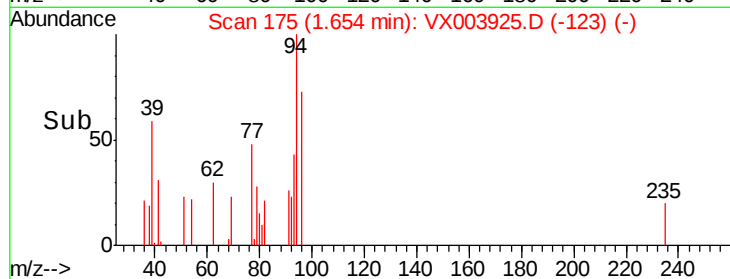
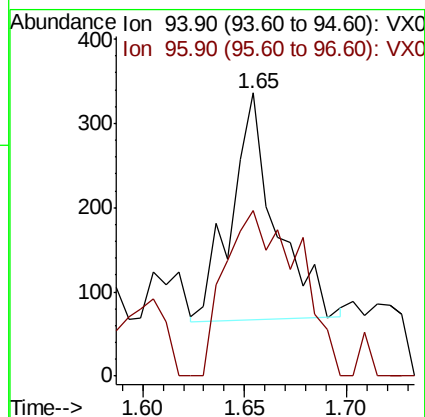
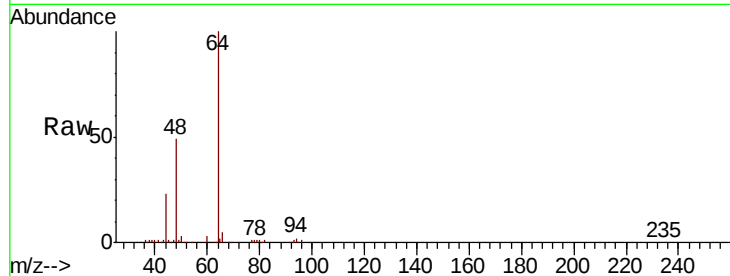
MW-106S

Tot Ion: 94 Resp: 403

Ion Ratio Lower Upper

94 100

96 74.0 75.2 112.8#



#8

Diethyl Ether

Concen: 0.37 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003925.D

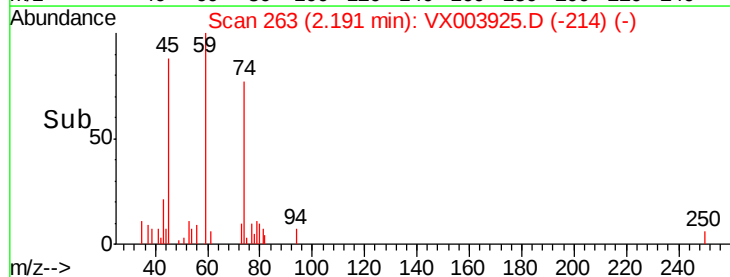
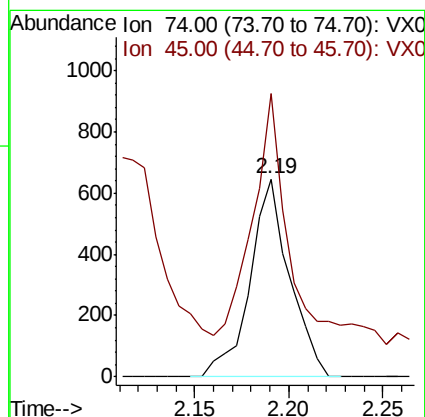
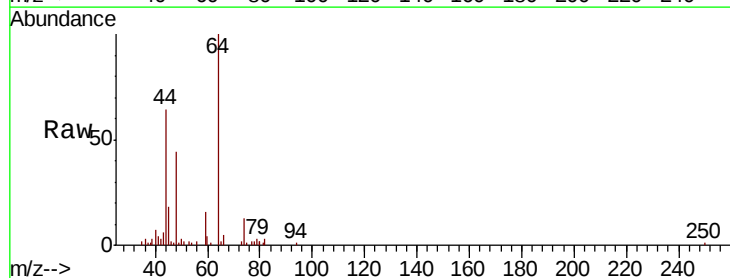
Acq: 08 Aug 2018 15:58

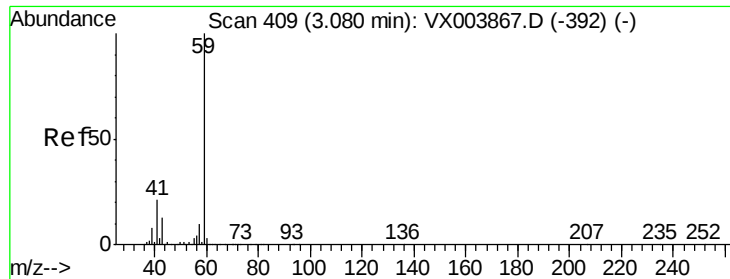
Tgt Ion: 74 Resp: 941

Ion Ratio Lower Upper

74 100

45 118.6 48.3 144.9

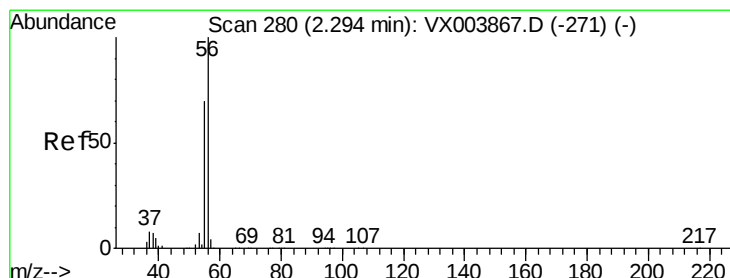
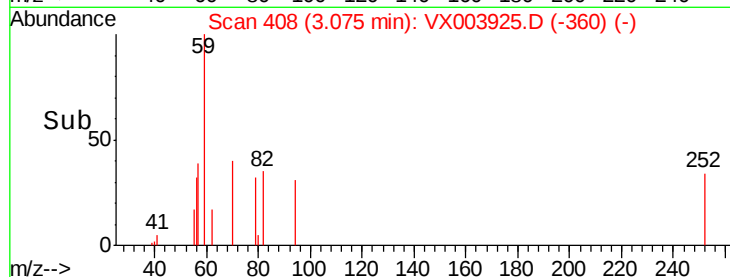
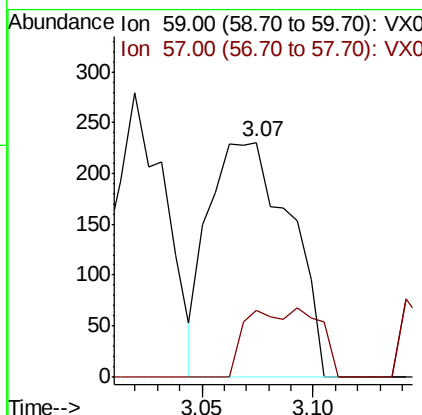
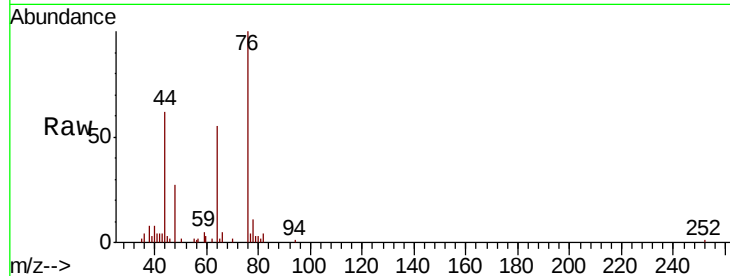




#11  
Tert butvl alcohol  
Concen: 0.58 ug/l  
RT: 3.07 min Scan# 408  
Delta R.T. -0.01 min  
Lab File: VX003925.D  
Acq: 08 Aug 2018 15:58

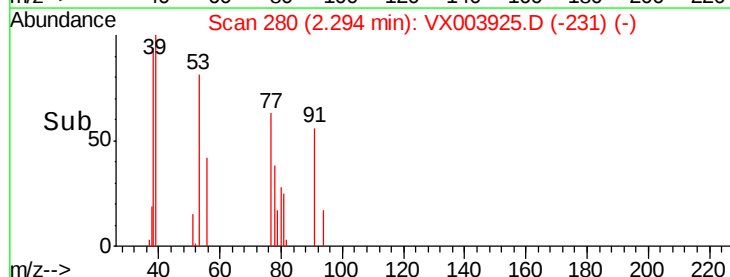
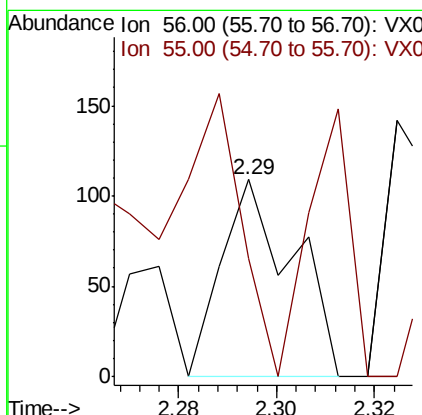
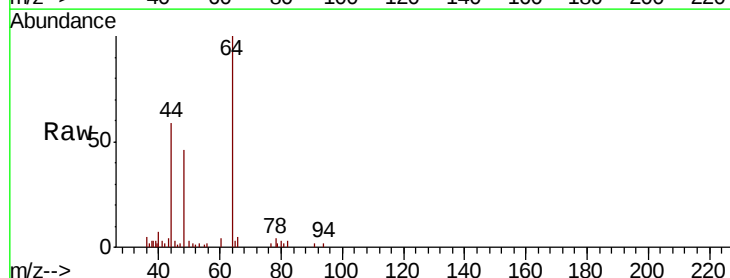
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-106S

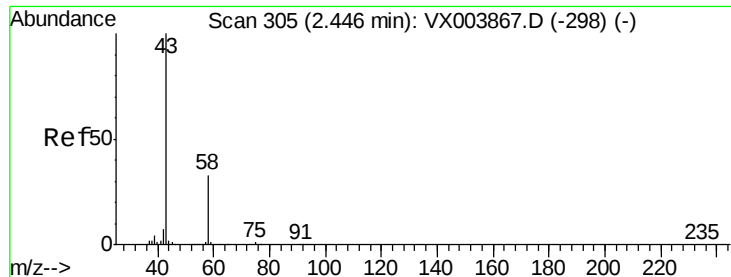
Tot Ion: 59 Resp: 586  
Ion Ratio Lower Upper  
59 100  
57 14.7 8.1 12.1#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.29 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: VX003925.D  
Acq: 08 Aug 2018 15:58

Tgt Ion: 56 Resp: 111  
Ion Ratio Lower Upper  
56 100  
55 109.0 56.1 84.1#





#16

Acetone

Concen: 2.24 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

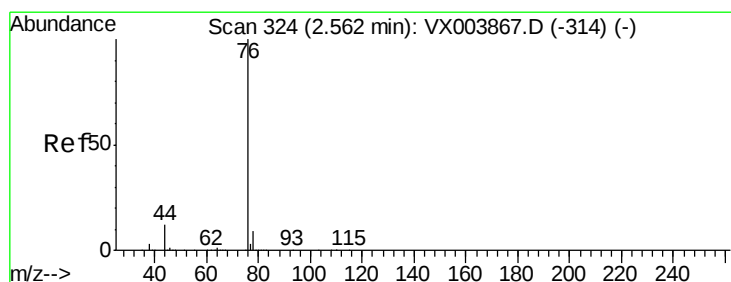
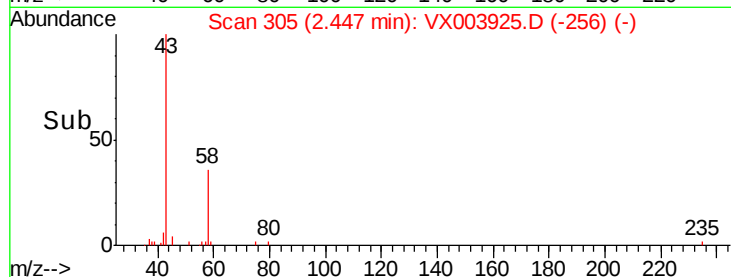
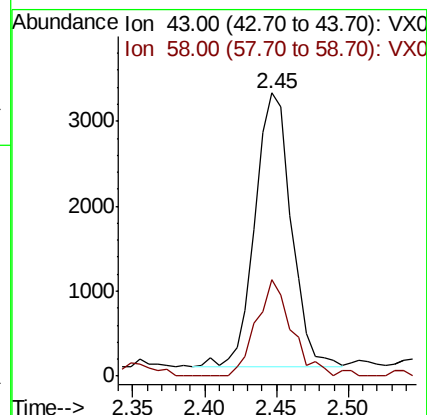
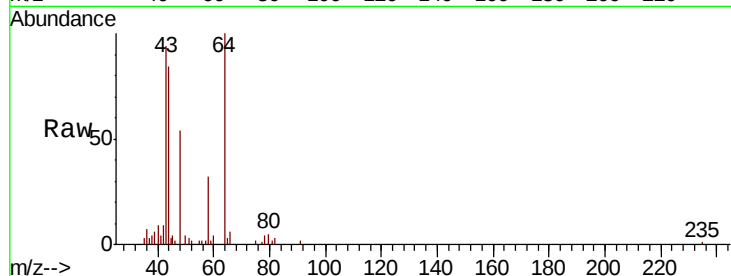
MW-106S

Tot Ion: 43 Resp: 5575

Ion Ratio Lower Upper

43 100

58 35.2 26.4 39.6



#17

Carbon Disulfide

Concen: 0.83 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003925.D

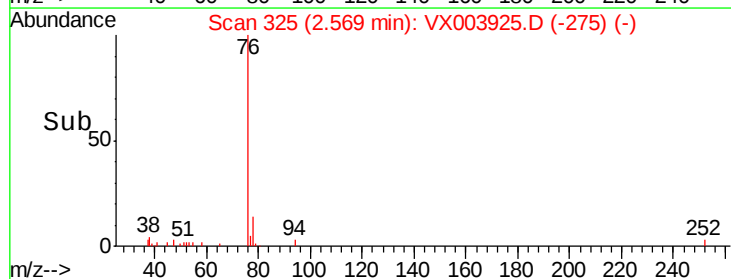
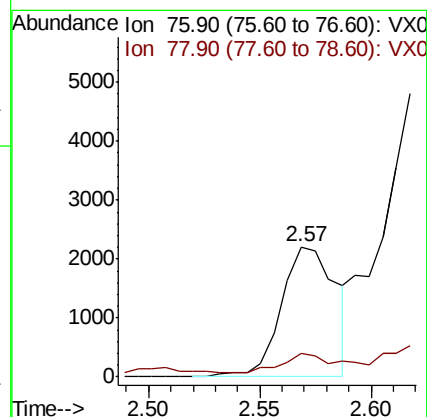
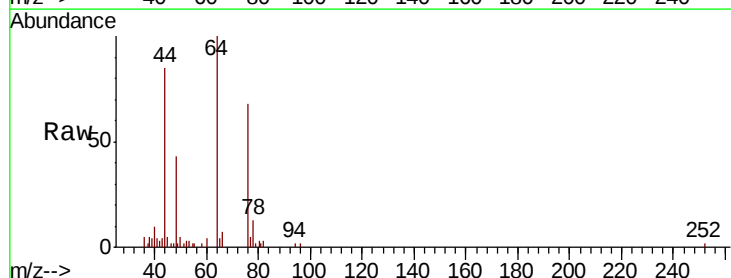
Acq: 08 Aug 2018 15:58

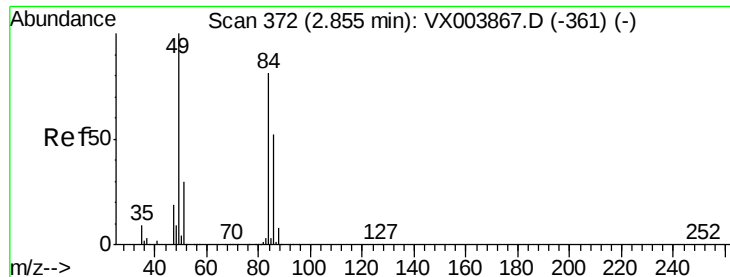
Tgt Ion: 76 Resp: 3790

Ion Ratio Lower Upper

76 100

78 13.6 7.5 11.3#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

MW-106S

Tot Ion: 84 Resp: 560

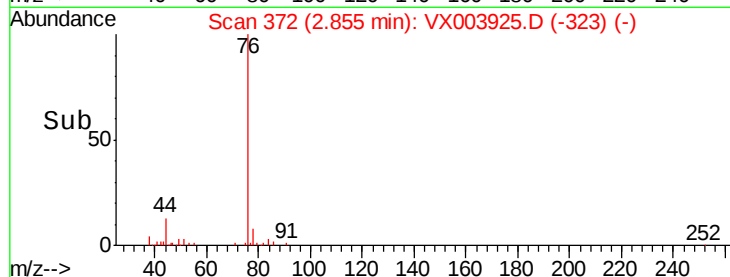
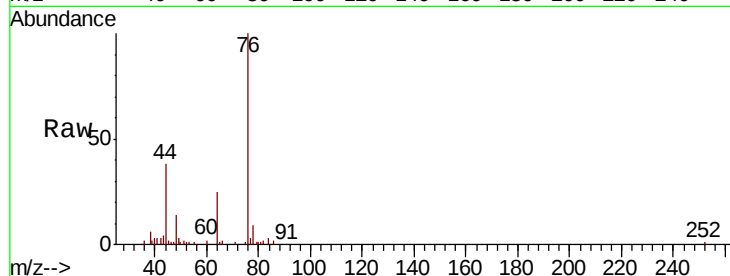
Ion Ratio Lower Upper

84 100

49 85.7 98.9 148.3#

51 61.4 29.9 44.9#

86 60.1 51.0 76.6

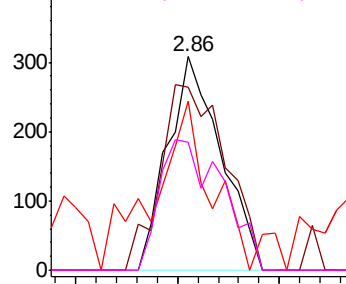


Abundance Ion 83.90 (83.60 to 84.60): VX0

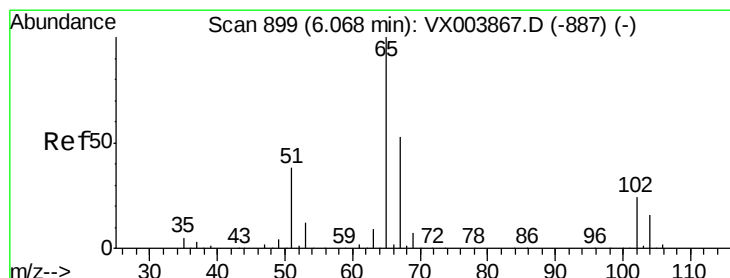
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.28 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003925.D

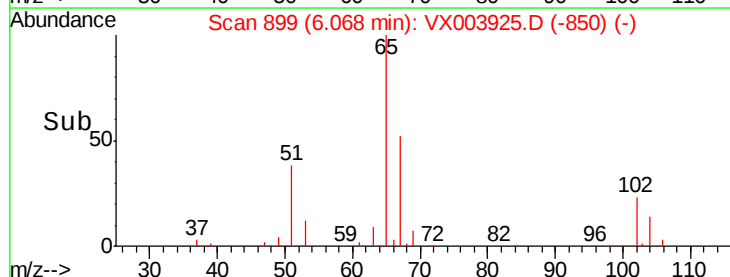
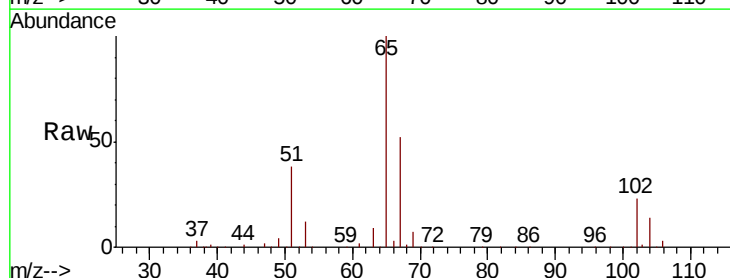
Acq: 08 Aug 2018 15:58

Tgt Ion: 65 Resp: 218701

Ion Ratio Lower Upper

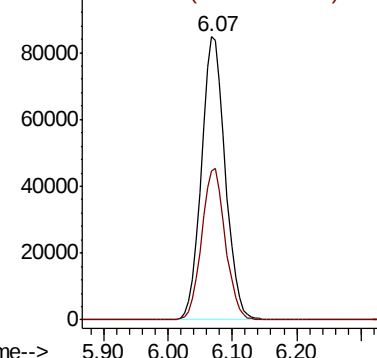
65 100

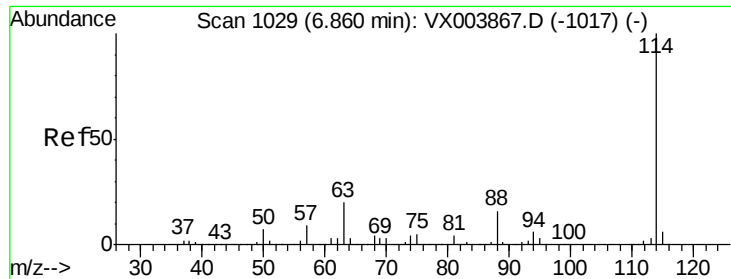
67 53.2 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

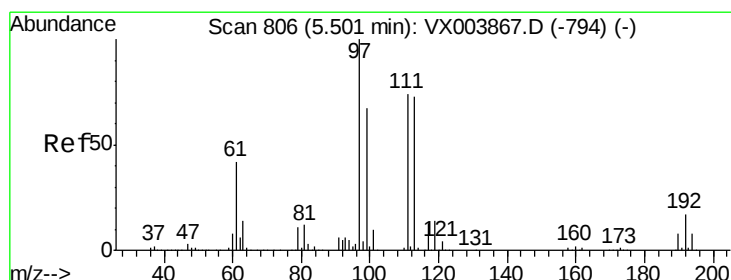
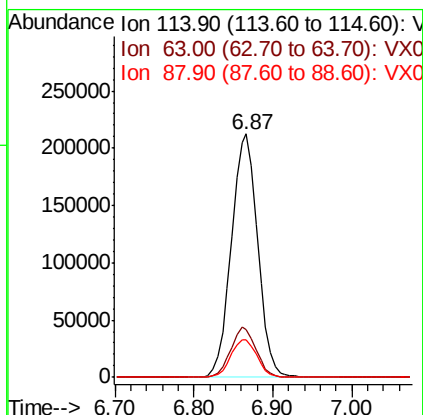
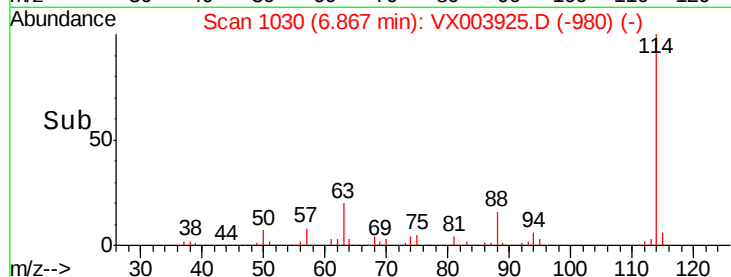
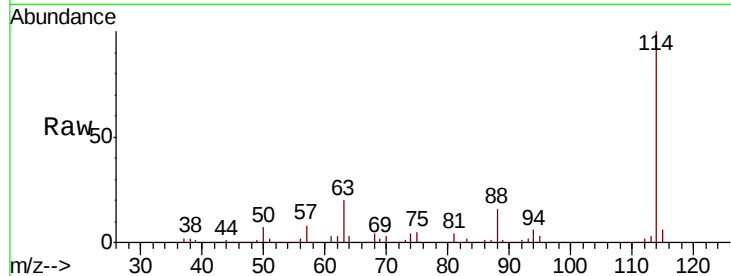




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.01 min  
 Lab File: VX003925.D  
 Acq: 08 Aug 2018 15:58

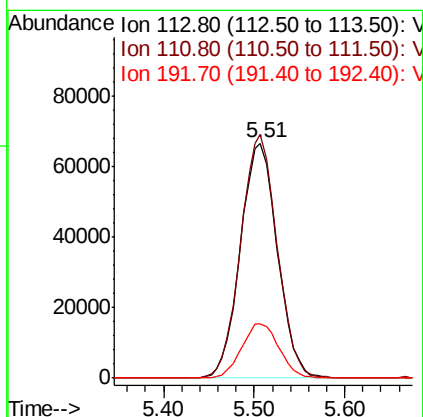
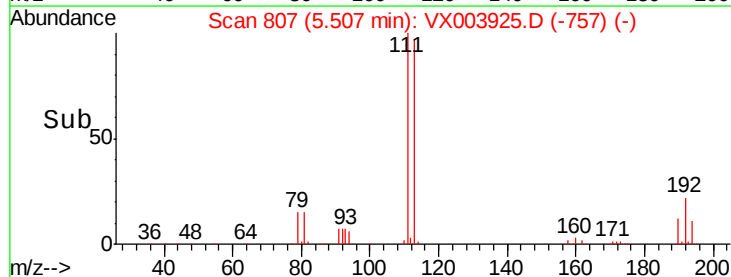
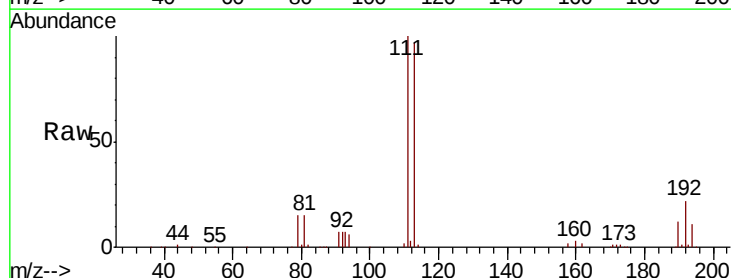
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-106S

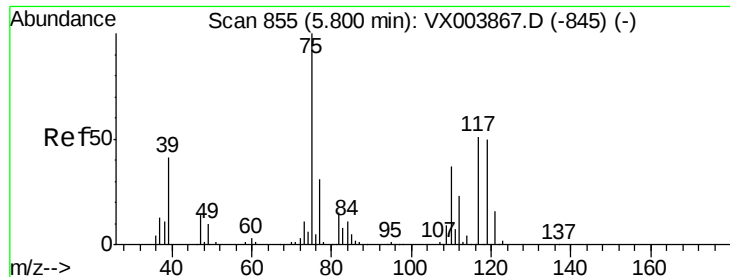
Tot Ion:114 Resp: 493441  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 39.0  
 88 15.6 0.0 32.0



#35  
 Dibromofluoromethane  
 Concen: 50.29 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.01 min  
 Lab File: VX003925.D  
 Acq: 08 Aug 2018 15:58

Tgt Ion:113 Resp: 187996  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 82.0 123.0  
 192 23.7 19.0 28.4

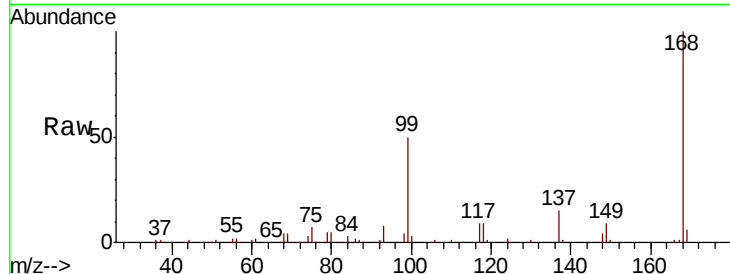




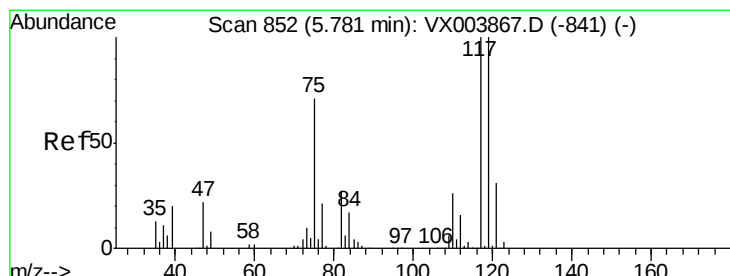
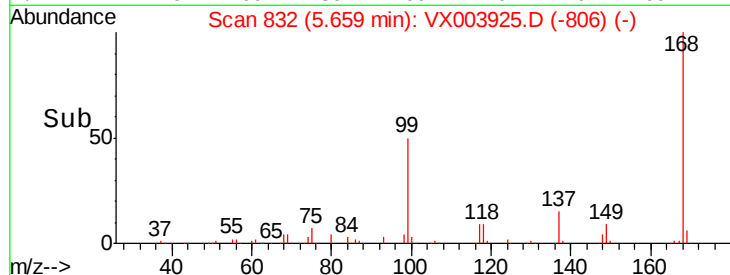
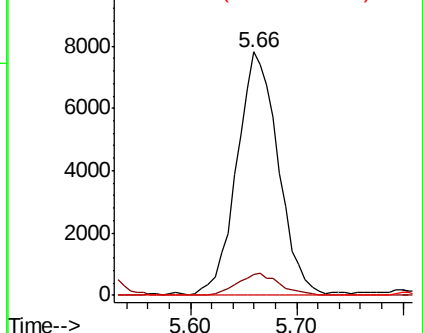
#36  
 1,1-Dichloropropene  
 Concen: 3.85 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.14 min  
 Lab File: VX003925.D  
 Acq: 08 Aug 2018 15:58

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-106S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 18.2  | 54.6# |
| 77      | 0.0   | 25.0  | 37.4# |

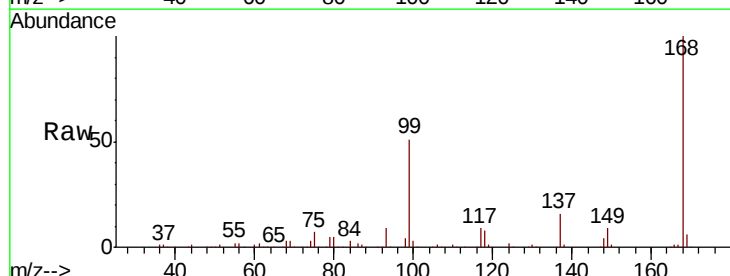


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

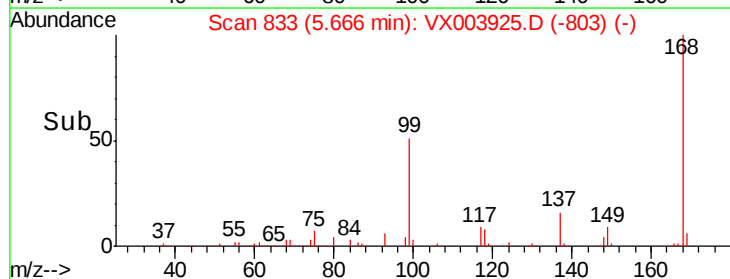
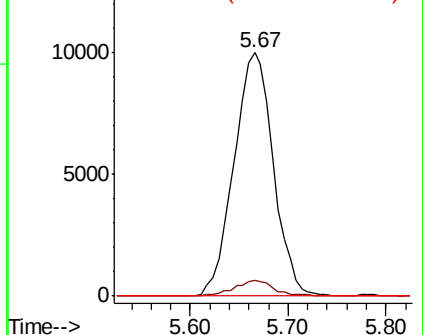


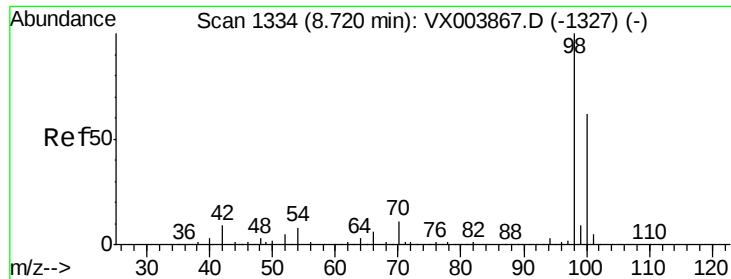
#38  
 Carbon Tetrachloride  
 Concen: 5.29 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.12 min  
 Lab File: VX003925.D  
 Acq: 08 Aug 2018 15:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.4   | 79.5  | 119.3# |
| 121     | 0.0   | 25.0  | 37.4#  |



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

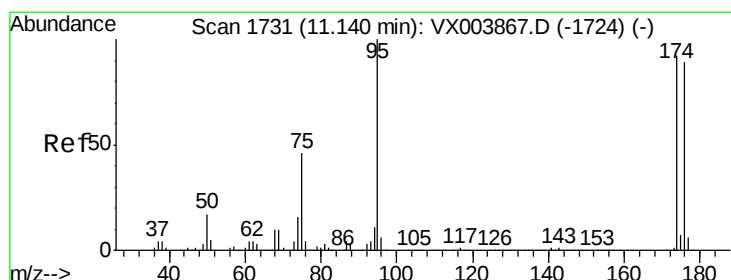
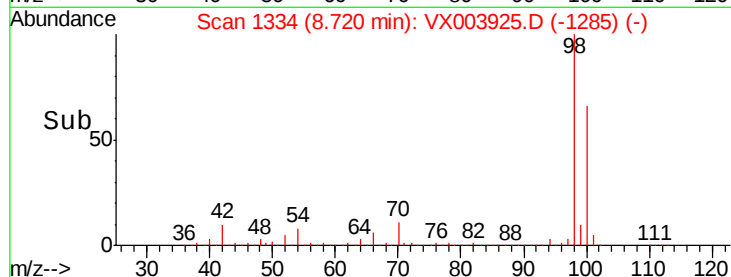
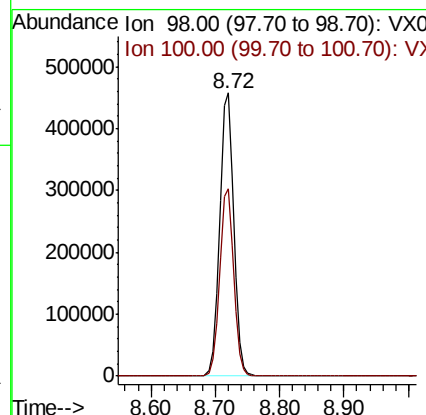
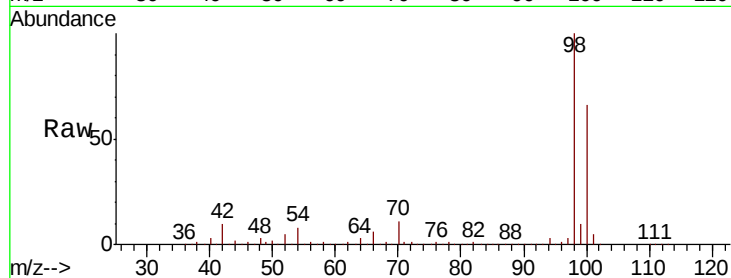




#50  
Toluene-d8  
Concen: 48.58 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003925.D  
Acq: 08 Aug 2018 15:58

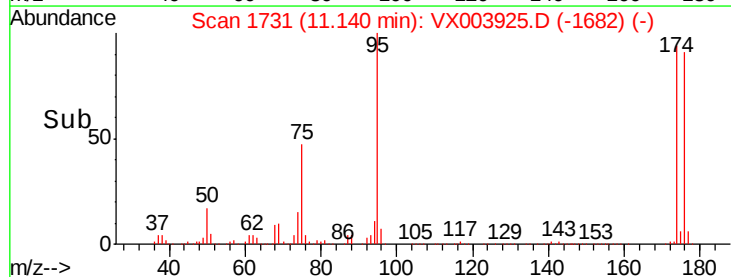
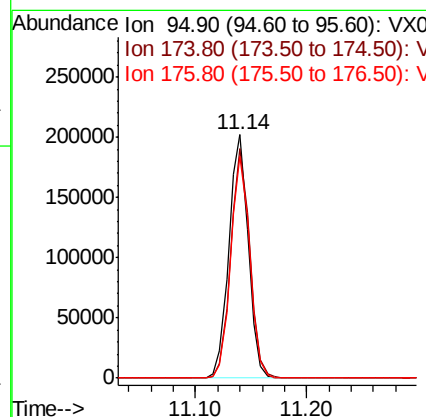
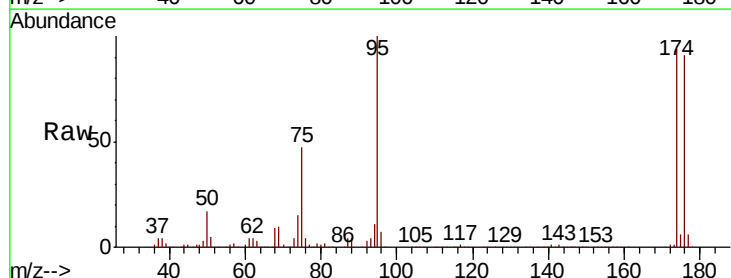
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-106S

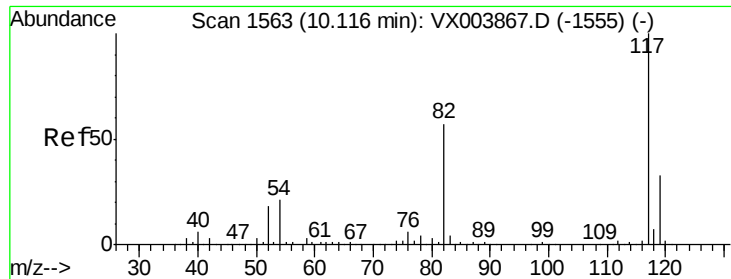
Tot Ion: 98 Resp: 706161  
Ion Ratio Lower Upper  
98 100  
100 65.9 53.3 79.9



#62  
4-Bromofluorobenzene  
Concen: 51.65 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003925.D  
Acq: 08 Aug 2018 15:58

Tgt Ion: 95 Resp: 242963  
Ion Ratio Lower Upper  
95 100  
174 92.8 0.0 182.8  
176 89.8 0.0 179.0

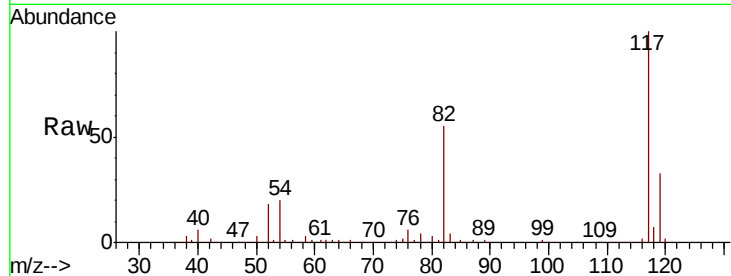




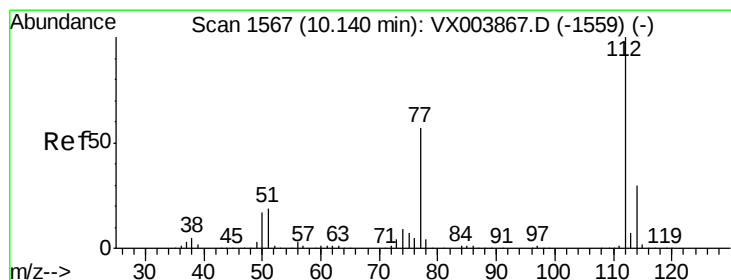
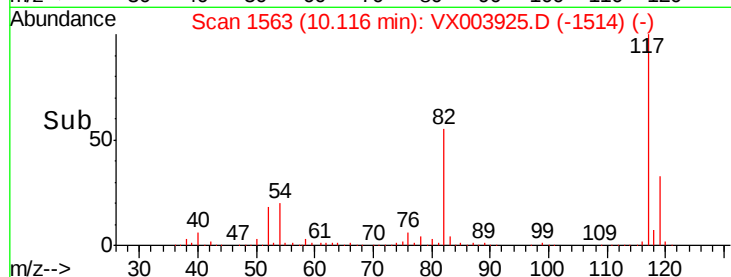
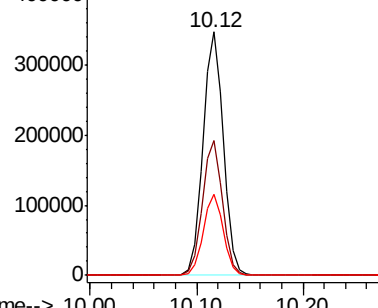
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003925.D  
Acq: 08 Aug 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-106S

Tot Ion:117 Resp: 464379  
Ion Ratio Lower Upper  
117 100  
82 55.1 45.4 68.0  
119 33.3 26.6 40.0

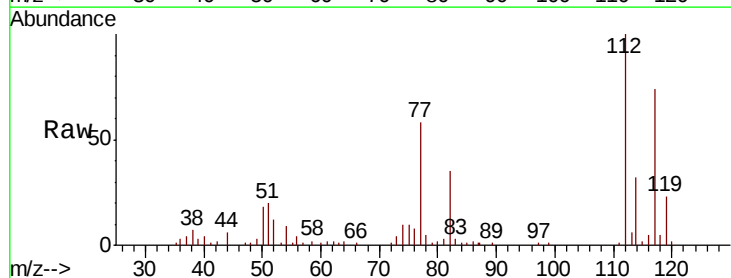


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

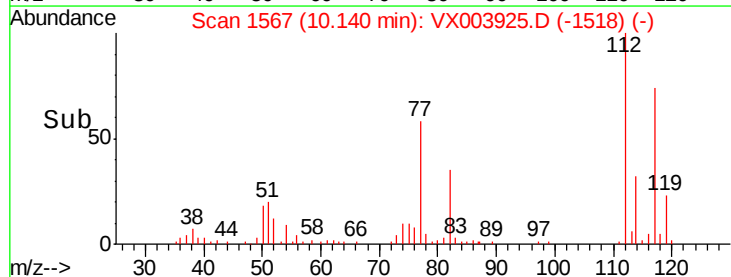
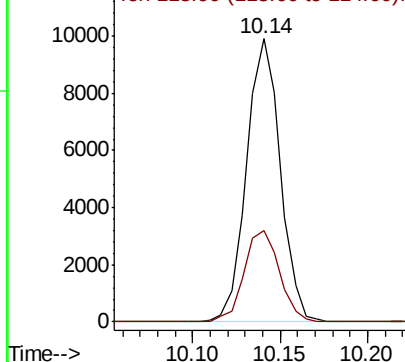


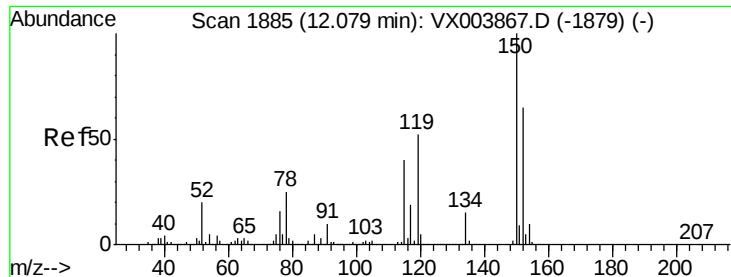
#65  
Chlorobenzene  
Concen: 1.10 ug/l  
RT: 10.14 min Scan# 1567  
Delta R.T. 0.00 min  
Lab File: VX003925.D  
Acq: 08 Aug 2018 15:58

Tgt Ion:112 Resp: 13270  
Ion Ratio Lower Upper  
112 100  
114 32.3 23.6 35.4



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampled :

MW-106S

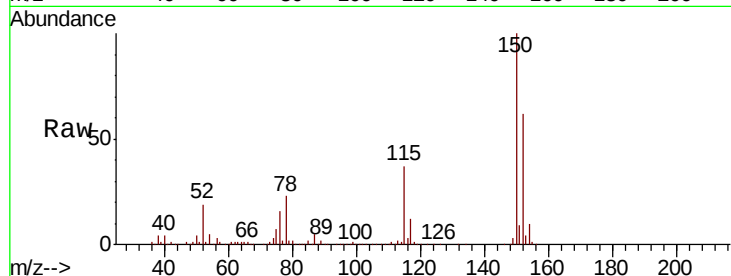
Tot Ion:152 Resp: 251812

Ion Ratio Lower Upper

152 100

115 55.6 39.1 117.3

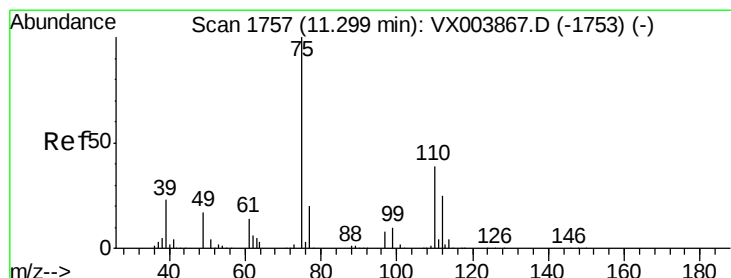
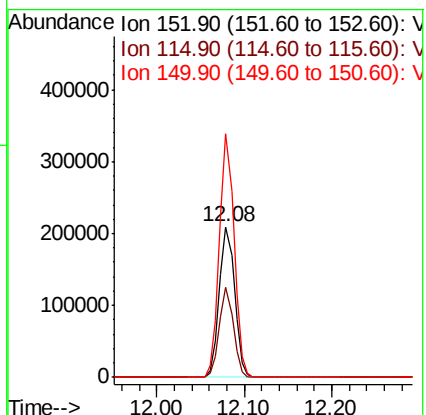
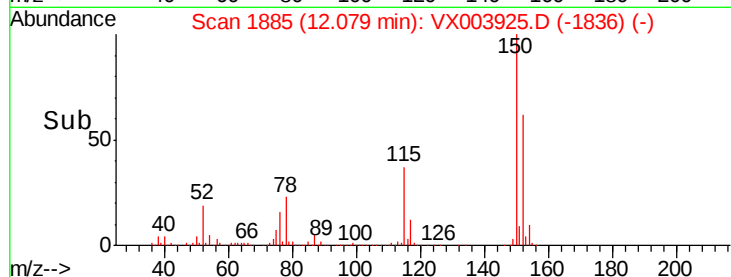
150 155.4 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 21.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003925.D

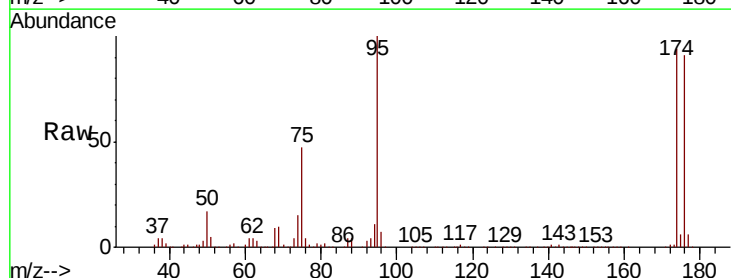
Acq: 08 Aug 2018 15:58

Tgt Ion: 75 Resp: 118790

Ion Ratio Lower Upper

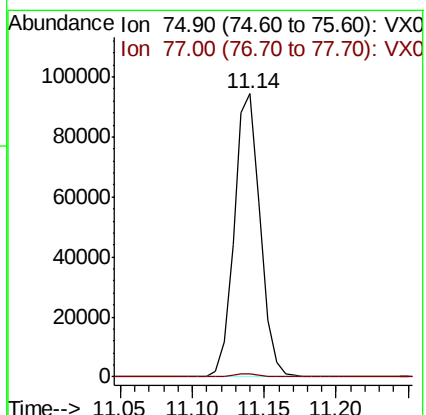
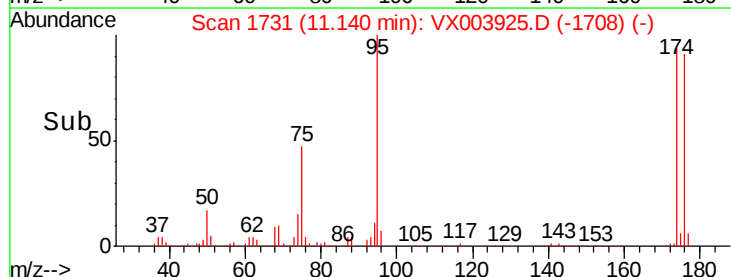
75 100

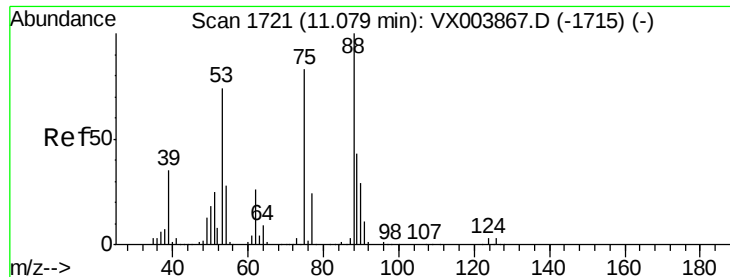
77 1.4 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

MW-106S

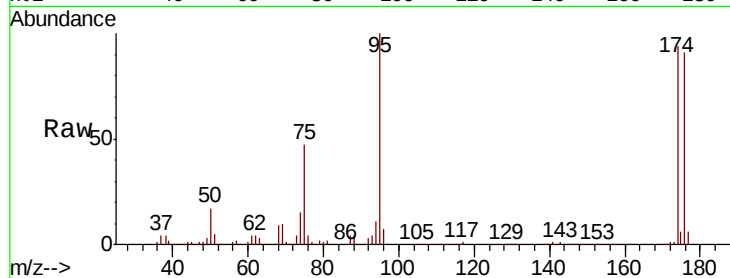
Tot Ion: 75 Resp: 118790

Ion Ratio Lower Upper

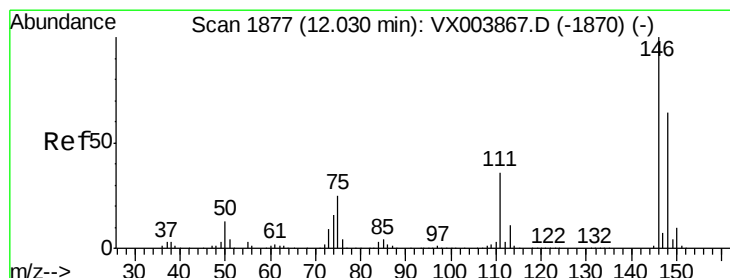
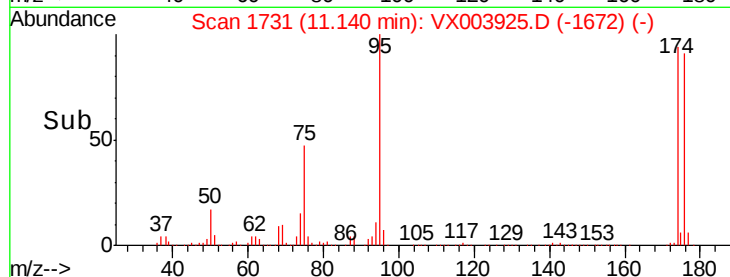
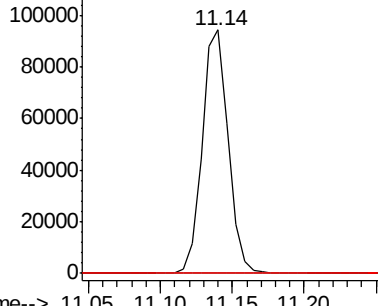
75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 53.00 (52.70 to 53.70): VX0  
Ion 88.90 (88.60 to 89.60): VX0



#87

1,3-Dichlorobenzene

Concen: 0.21 ug/l

RT: 12.02 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

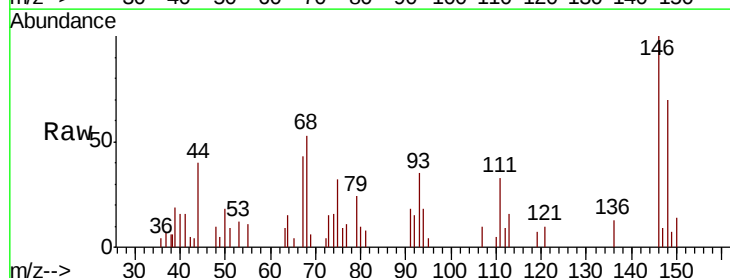
Tgt Ion: 146 Resp: 1900

Ion Ratio Lower Upper

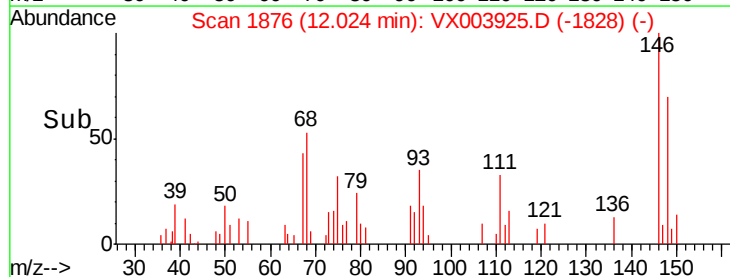
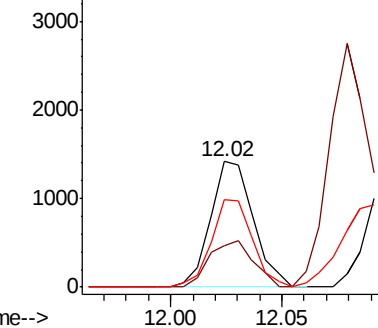
146 100

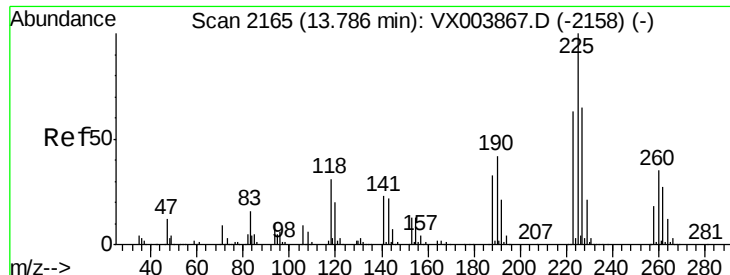
111 37.9 18.8 56.4

148 67.1 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.50 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003925.D

Acq: 08 Aug 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

MW-106S

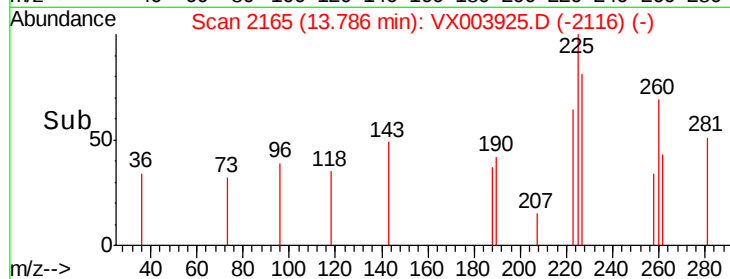
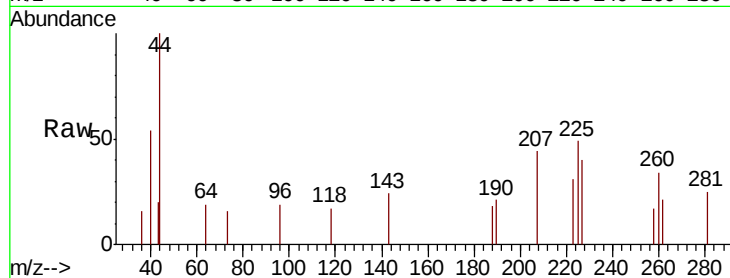
Tot Ion: 225 Resp: 207

Ion Ratio Lower Upper

225 100

223 76.8 31.4 94.0

227 87.9 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

