

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021120\  
 Data File : VX014906.D  
 Acq On : 11 Feb 2020 10:55  
 Operator : JC/SP  
 Sample : VX0211WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 12 05:40:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 446695   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 696920   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 649658   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 323128   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 253661   | 50.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.64% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 209709   | 48.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.90%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 823288   | 50.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.68% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 299752   | 50.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.76% |          |

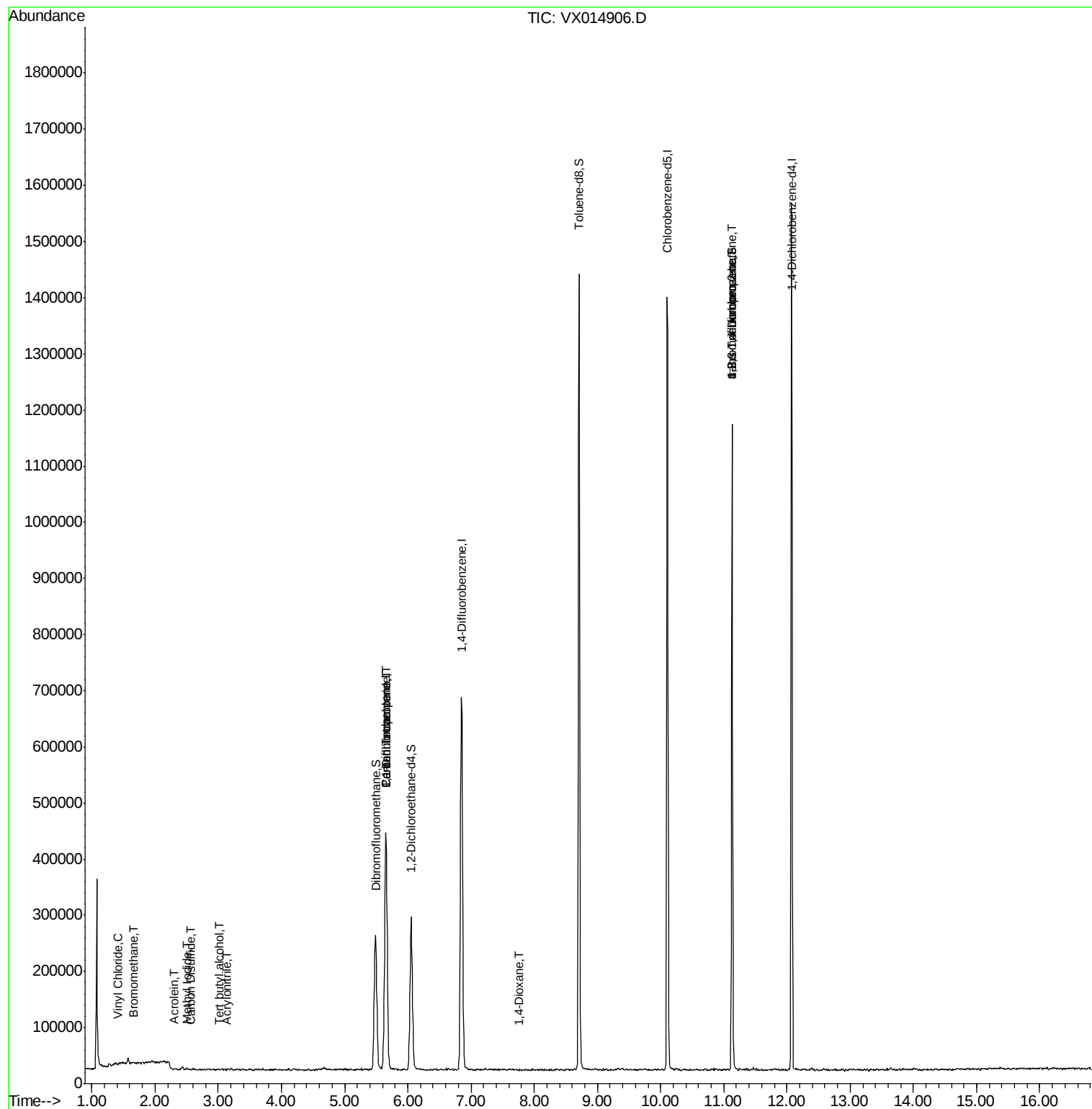
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 4) Vinyl Chloride              | 1.41  | 62   | 1070     | 0.207     | ug/l # | 48     |
| 5) Bromomethane                | 1.66  | 94   | 2043     | 0.611     | ug/l   | 84     |
| 10) Methyl Iodide              | 2.51  | 142  | 1696     | 4.700     | ug/l # | 67     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 267      | 0.300     | ug/l # | 1      |
| 13) Acrolein                   | 2.29  | 56   | 241      | 0.355     | ug/l # | 19     |
| 15) Acrylonitrile              | 3.14  | 53   | 534      | 0.237     | ug/l # | 68     |
| 16) Acetone                    | 2.43  | 43   | 3694     | Below Cal | #      | 80     |
| 17) Carbon Disulfide           | 2.56  | 76   | 2562     | 0.224     | ug/l # | 83     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 30169    | 4.839     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 38906    | 6.404     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 131      | 1.327     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 146719   | 25.109    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 146719   | 64.272    | ug/l # | 12     |

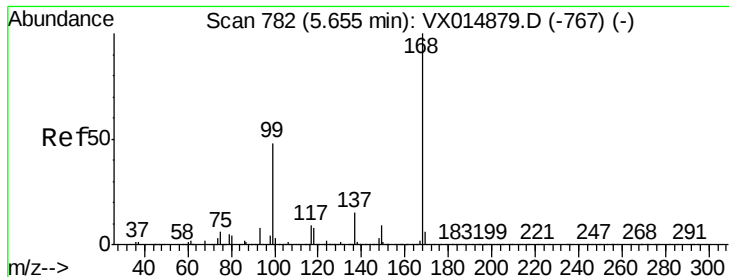
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021120\  
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MSVOA\_X  
ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
Response via : Initial Calibration



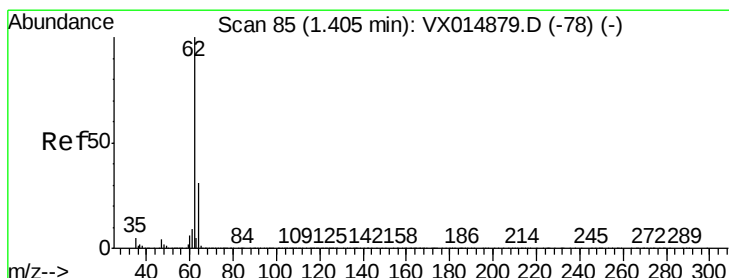
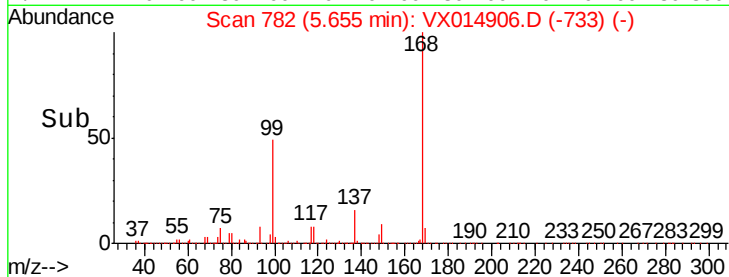
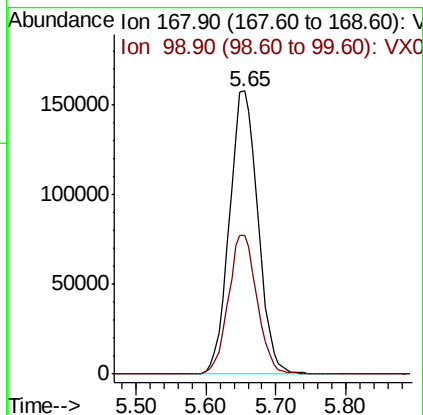
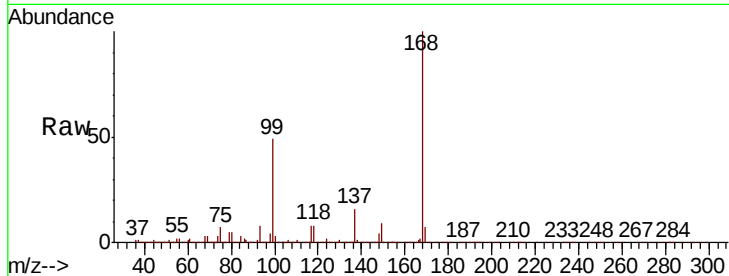


#1

Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.00 min  
 Lab File: VX014906.D  
 Acq: 11 Feb 2020 10:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :

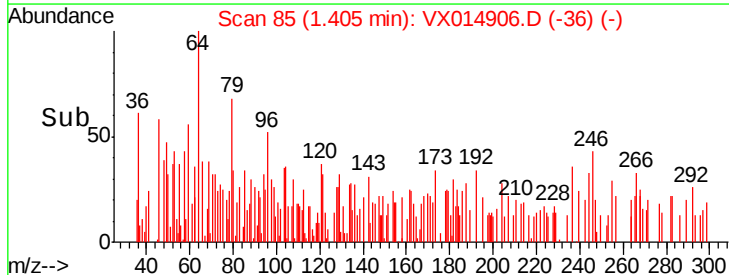
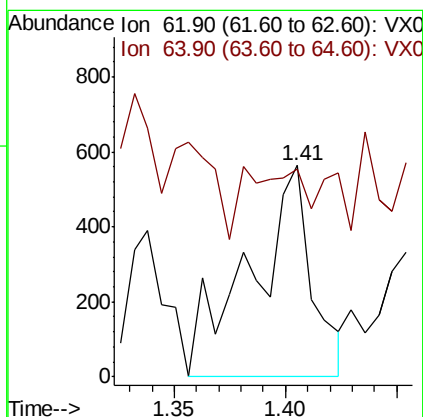
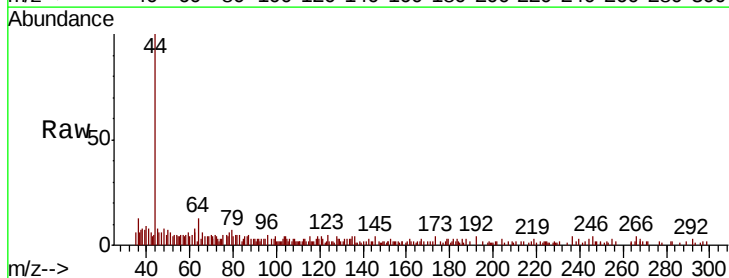
Tot Ion:168 Resp: 446695  
 Ion Ratio Lower Upper  
 168 100  
 99 49.1 38.7 58.1

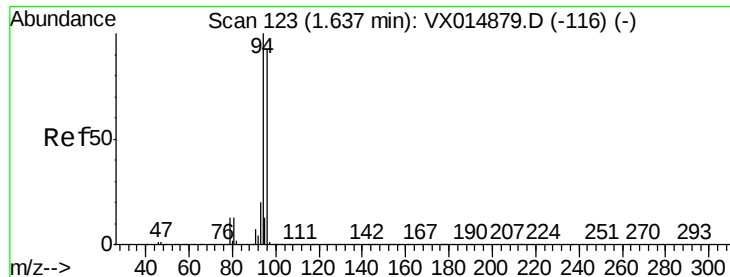


#4

Vinyl Chloride  
 Concen: 0.207 ug/l  
 RT: 1.41 min Scan# 85  
 Delta R.T. -0.00 min  
 Lab File: VX014906.D  
 Acq: 11 Feb 2020 10:55

Tgt Ion: 62 Resp: 1070  
 Ion Ratio Lower Upper  
 62 100  
 64 2.5 24.8 37.2#





#5

Bromomethane

Concen: 0.611 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.02 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

Instrument :

MSVOA\_X

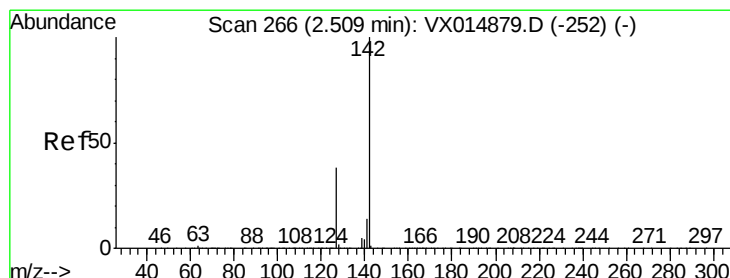
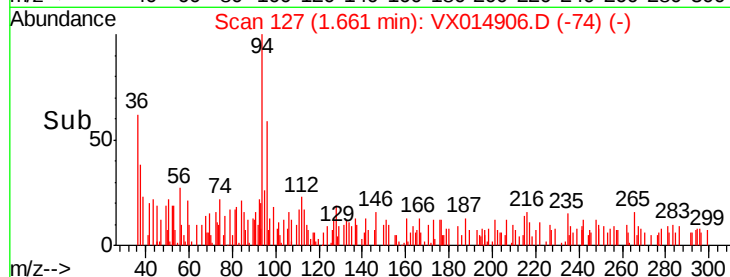
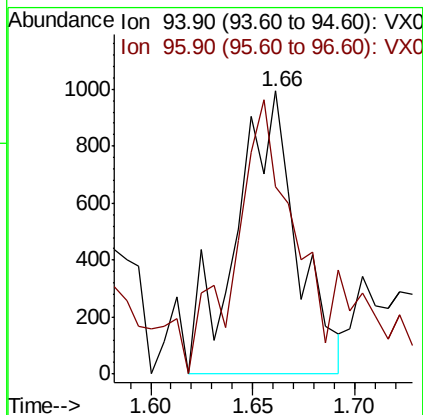
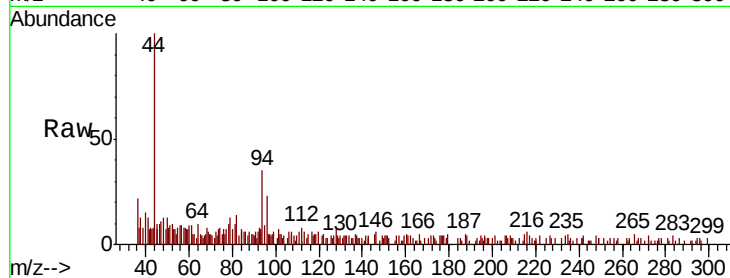
ClientSampleId :

Tot Ion: 94 Resp: 2043

Ion Ratio Lower Upper

94 100

96 77.1 73.7 110.5



#10

Methyl Iodide

Concen: 4.700 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

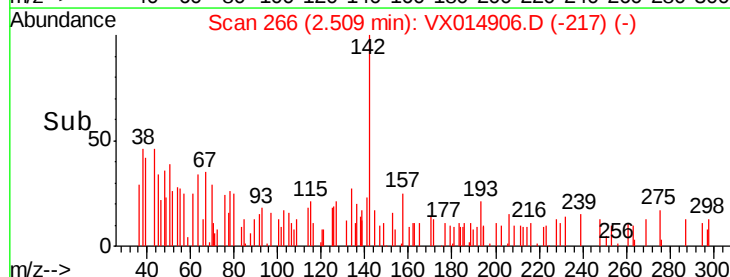
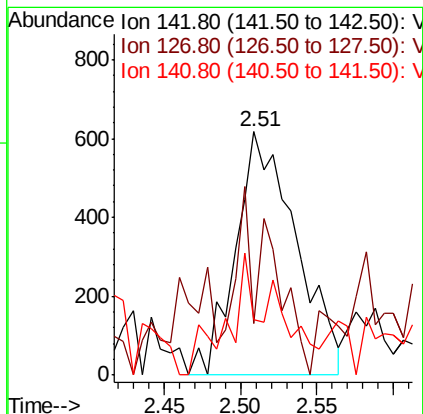
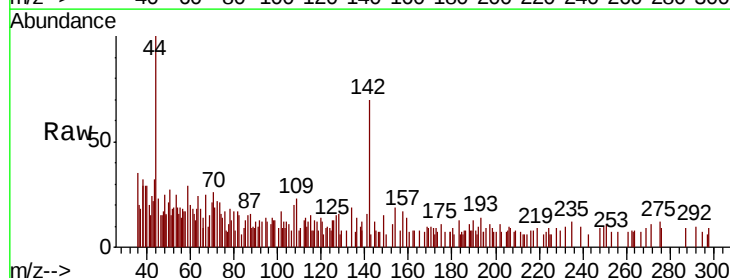
Tgt Ion: 142 Resp: 1696

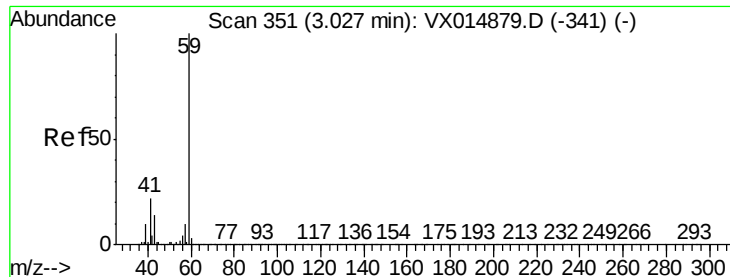
Ion Ratio Lower Upper

142 100

127 13.9 31.1 46.7#

141 10.3 11.3 16.9#



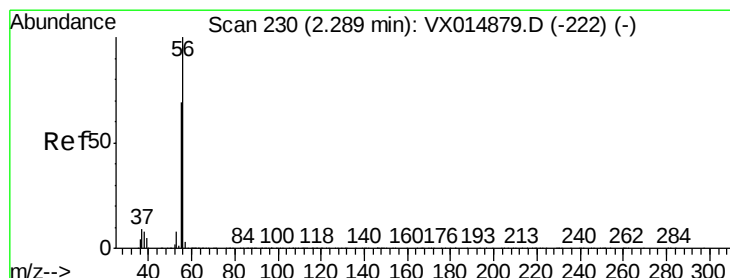
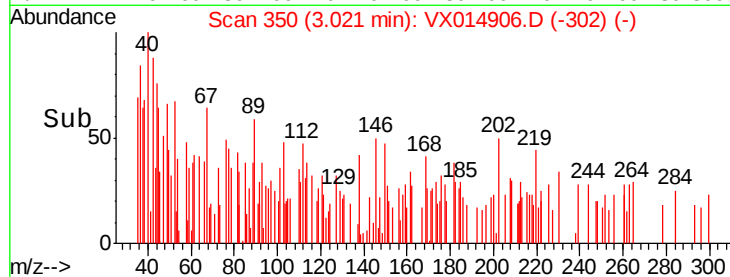
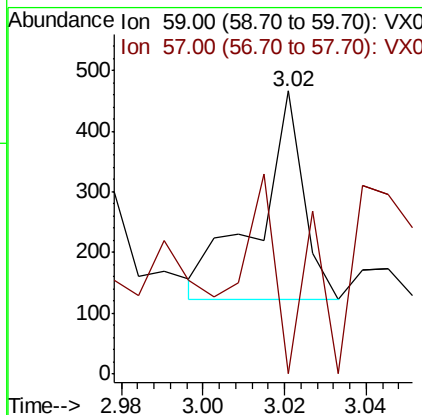
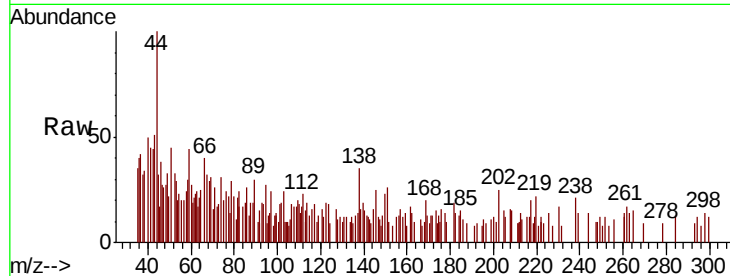


#11

Tert butyl alcohol  
 Concen: 0.300 ug/l  
 RT: 3.02 min Scan# 350  
 Delta R.T. -0.01 min  
 Lab File: VX014906.D  
 Acq: 11 Feb 2020 10:55

Instrument :  
 MSVOA\_X  
 ClientSampled :

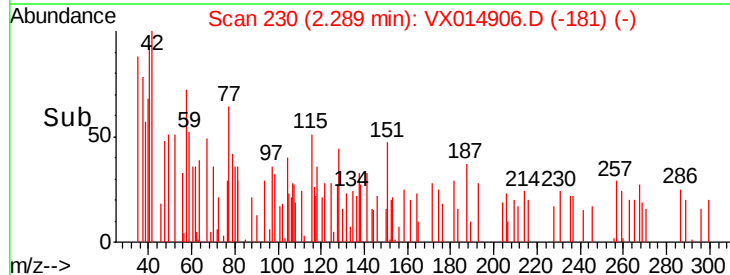
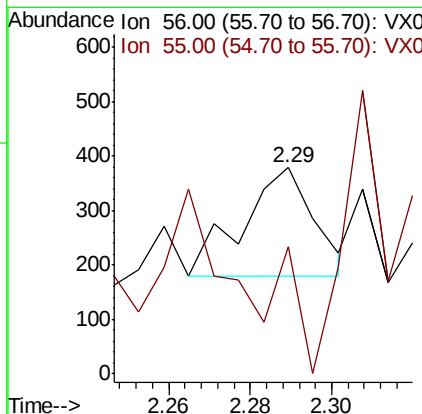
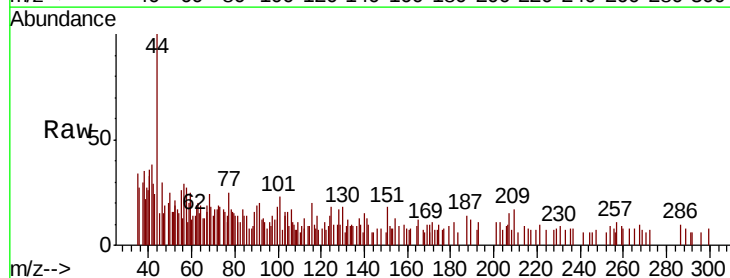
Tot Ion: 59 Resp: 267  
 Ion Ratio Lower Upper  
 59 100  
 57 65.9 8.2 12.4#

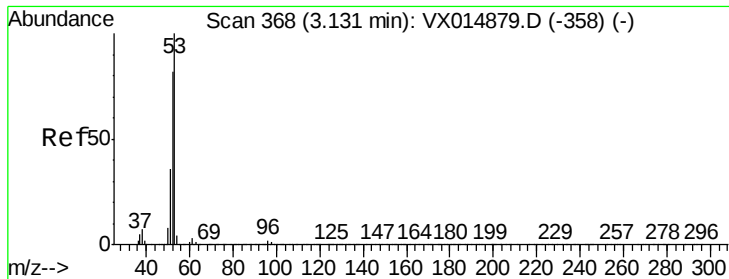


#13

Acrolein  
 Concen: 0.355 ug/l  
 RT: 2.29 min Scan# 230  
 Delta R.T. -0.00 min  
 Lab File: VX014906.D  
 Acq: 11 Feb 2020 10:55

Tgt Ion: 56 Resp: 241  
 Ion Ratio Lower Upper  
 56 100  
 55 134.9 55.0 82.4#





#15

Acrylonitrile

Concen: 0.237 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

Instrument :

MSVOA\_X

ClientSampled :

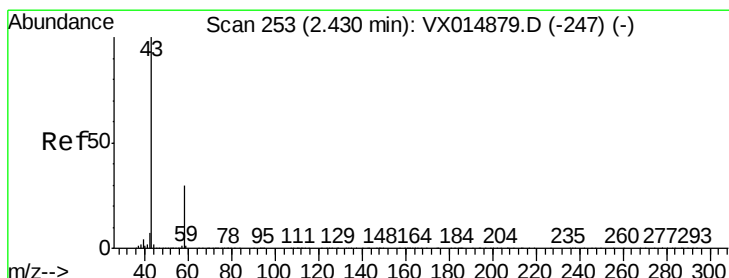
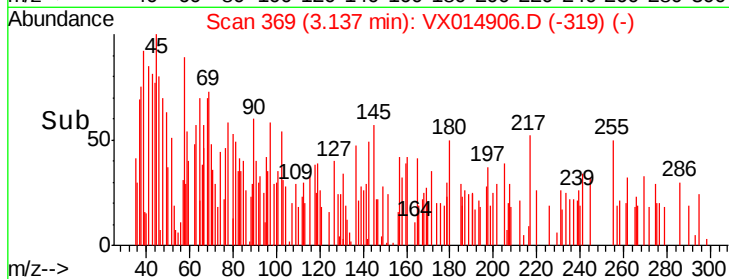
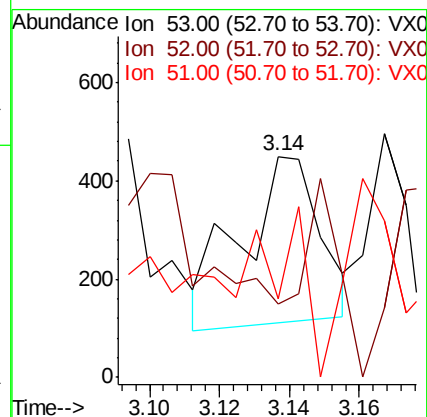
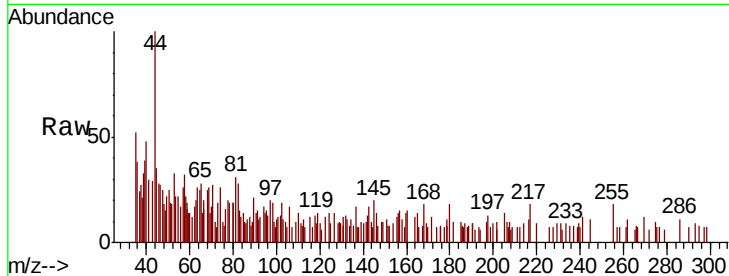
Tot Ion: 53 Resp: 534

Ion Ratio Lower Upper

53 100

52 53.7 65.8 98.6#

51 55.2 29.1 43.7#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014906.D

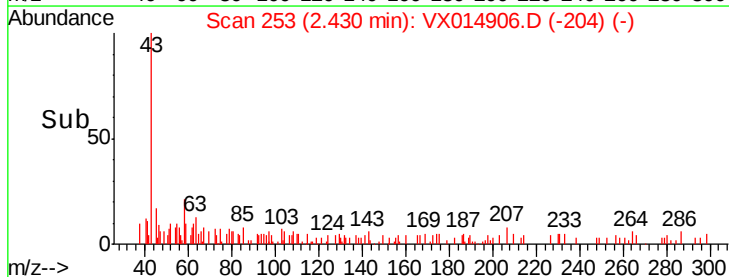
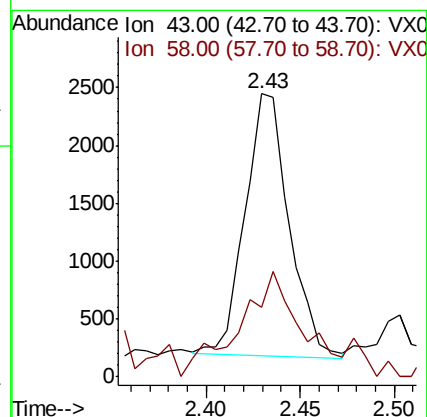
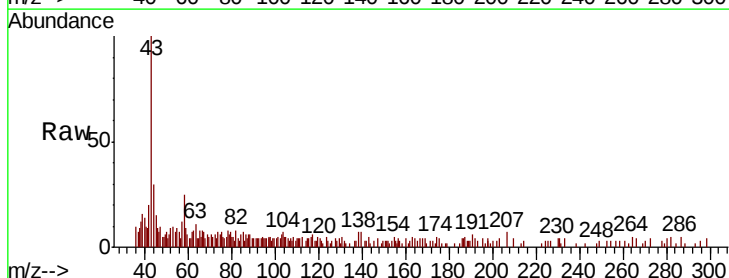
Acq: 11 Feb 2020 10:55

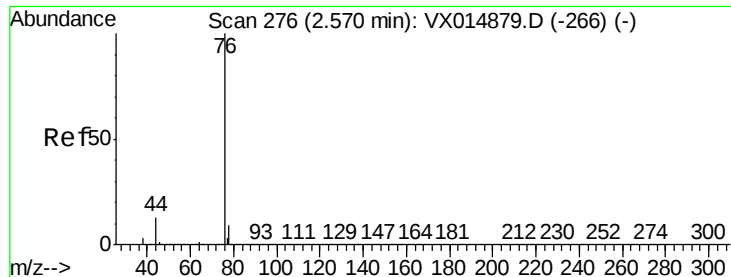
Tgt Ion: 43 Resp: 3694

Ion Ratio Lower Upper

43 100

58 19.1 24.1 36.1#





#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.01 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

Instrument :

MSVOA\_X

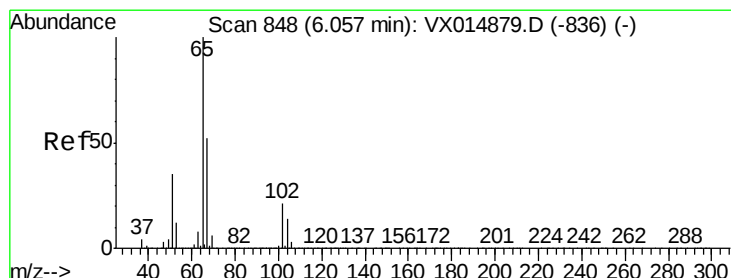
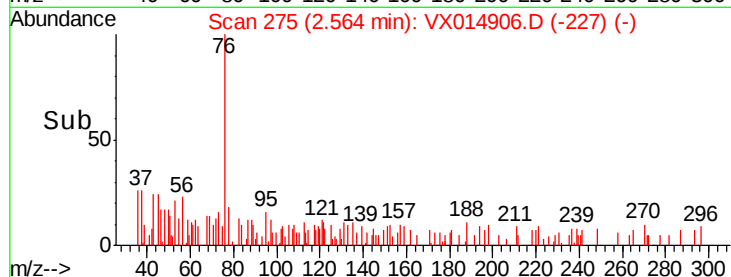
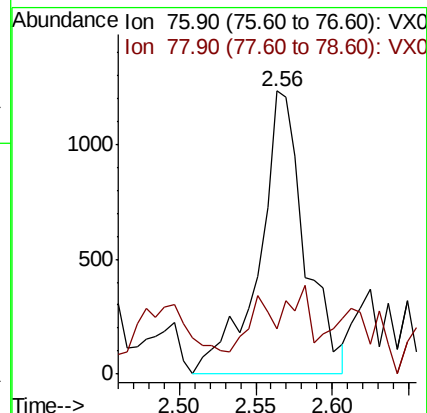
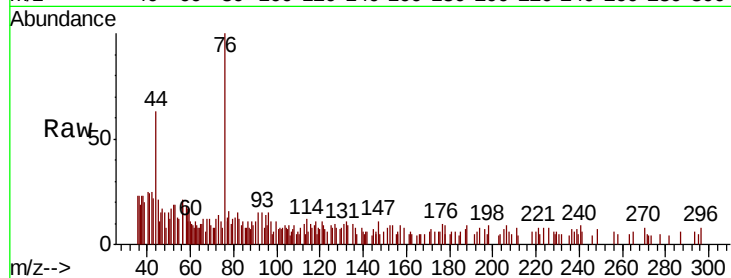
ClientSampled :

Tot Ion: 76 Resp: 2562

Ion Ratio Lower Upper

76 100

78 3.2 7.4 11.0#



#33

1,2-Dichloroethane-d4

Concen: 50.317 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX014906.D

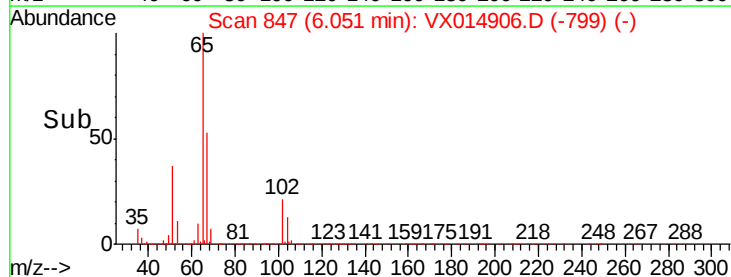
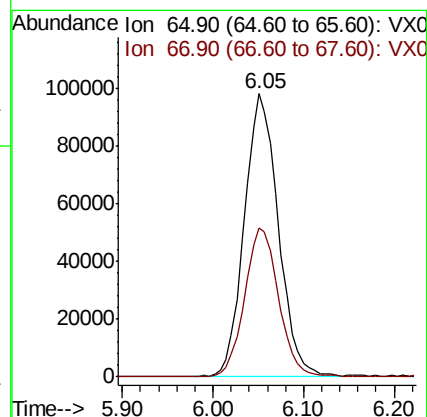
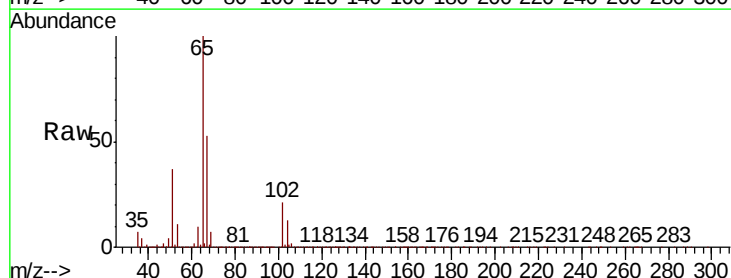
Acq: 11 Feb 2020 10:55

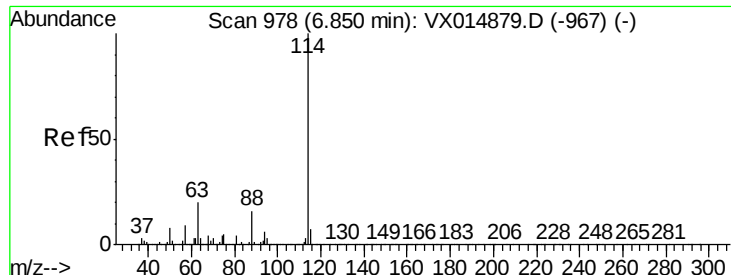
Tgt Ion: 65 Resp: 253661

Ion Ratio Lower Upper

65 100

67 53.0 0.0 103.0

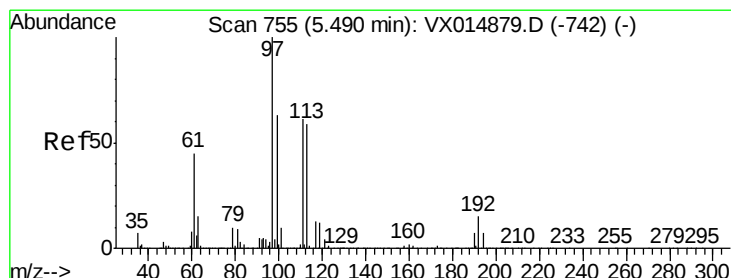
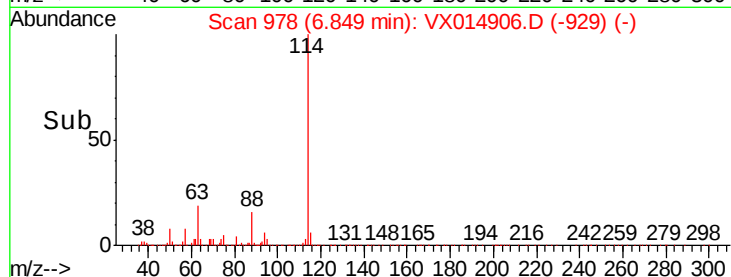
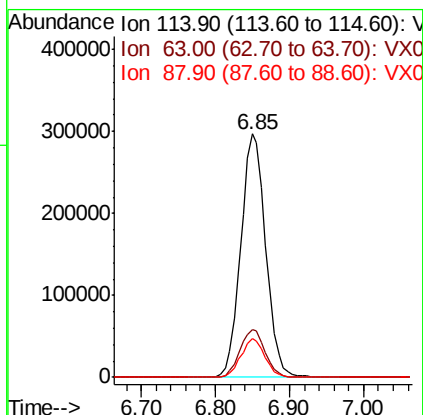
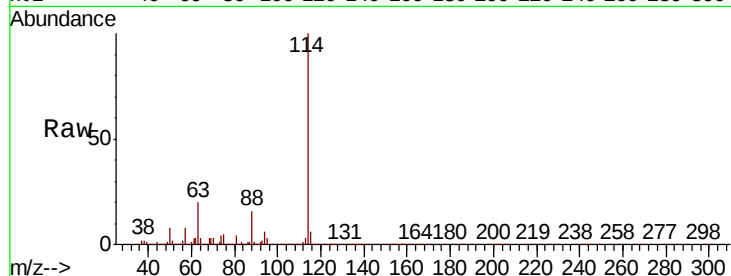




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. -0.00 min  
Lab File: VX014906.D  
Acq: 11 Feb 2020 10:55

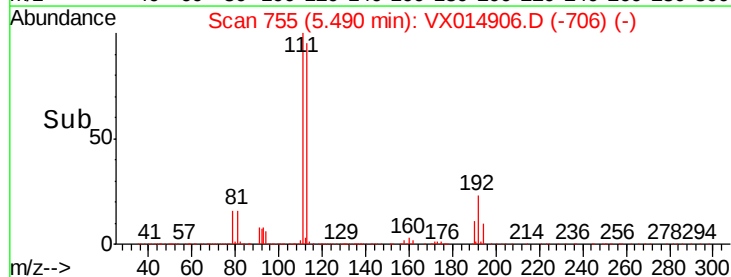
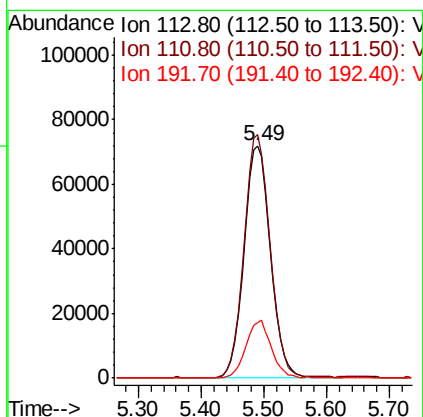
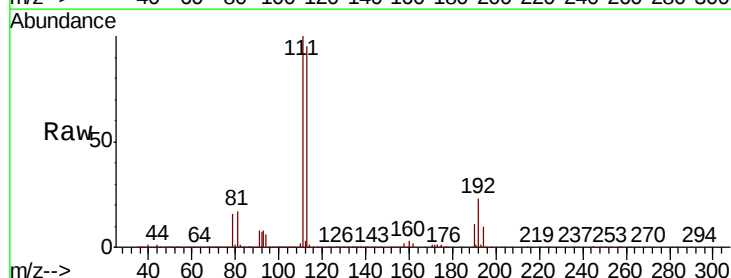
Instrument :  
MSVOA\_X  
ClientSampleId :

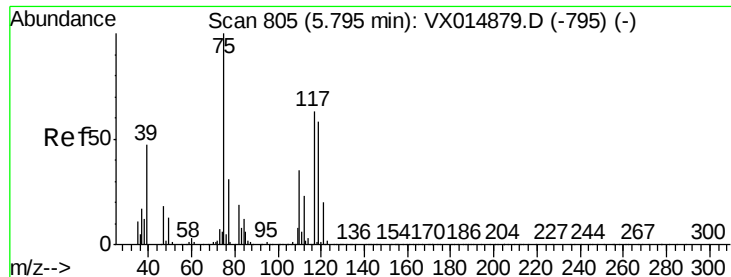
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.5  | 0.0   | 39.2  |
| 88      | 15.7  | 0.0   | 32.0  |



#35  
Dibromofluoromethane  
Concen: 48.946 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. -0.00 min  
Lab File: VX014906.D  
Acq: 11 Feb 2020 10:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 82.4  | 123.6 |
| 192     | 23.9  | 19.1  | 28.7  |





#36

1,1-Dichloropropene

Concen: 4.839 ug/l

RT: 5.65 min Scan# 782

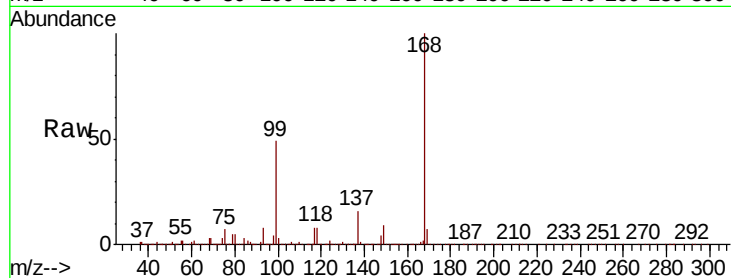
Delta R.T. -0.14 min

Lab File: VX014906.D

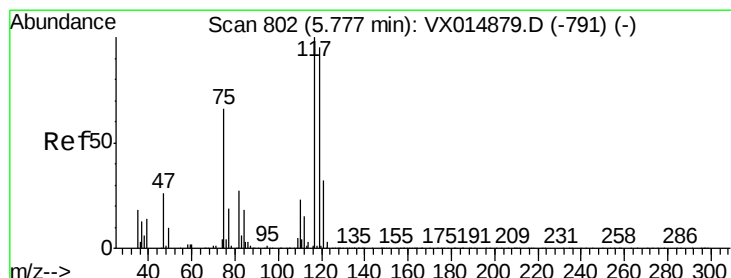
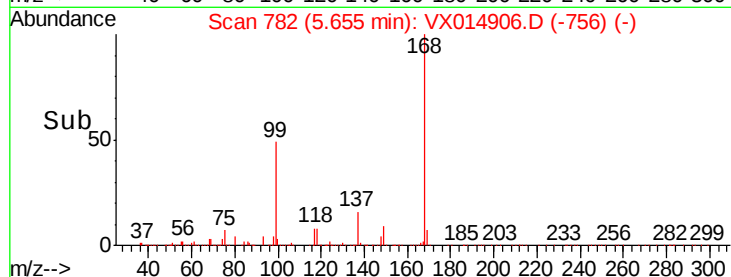
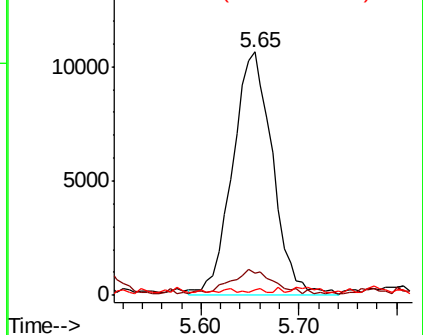
Acq: 11 Feb 2020 10:55

Instrument :  
MSVOA\_X  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 30169 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 11.4  | 18.3  | 54.8# |
| 77       | 0.7   | 24.6  | 36.8# |



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: 6.404 ug/l

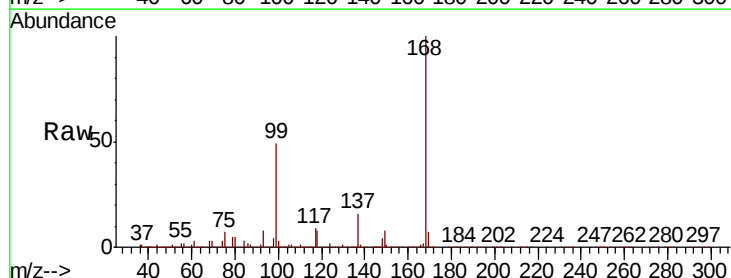
RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

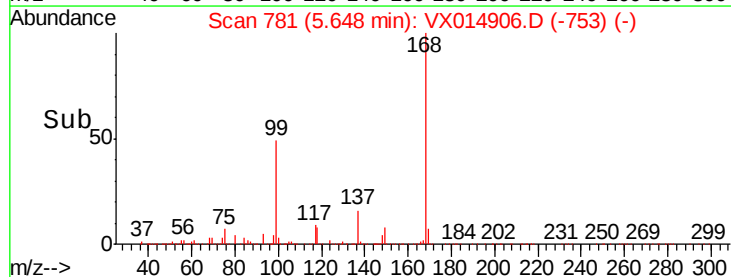
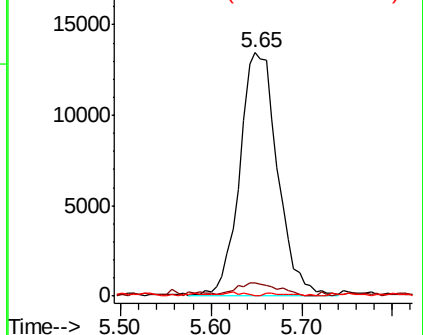
Lab File: VX014906.D

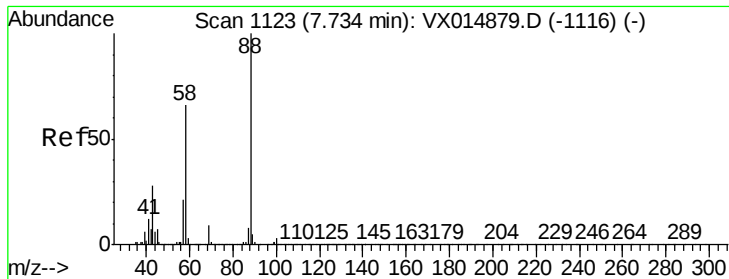
Acq: 11 Feb 2020 10:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 38906  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.4   | 76.0  | 114.0# |
| 121      | 0.0   | 25.4  | 38.2#  |



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

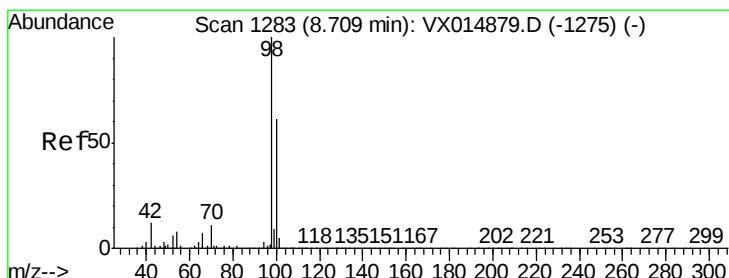
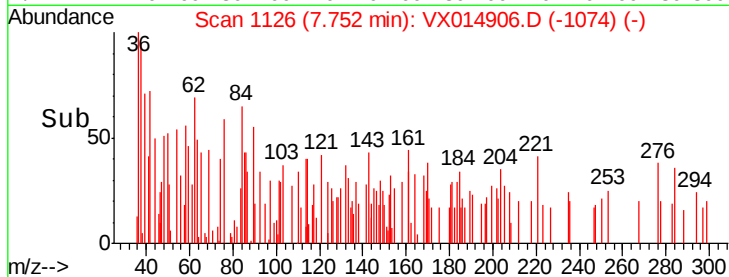
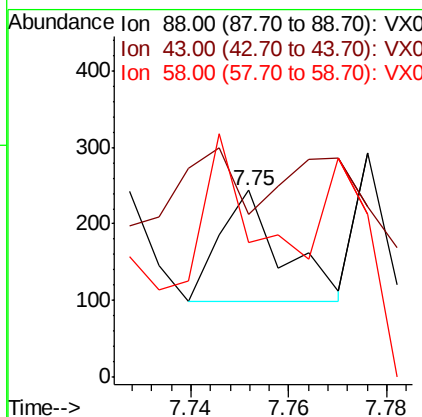
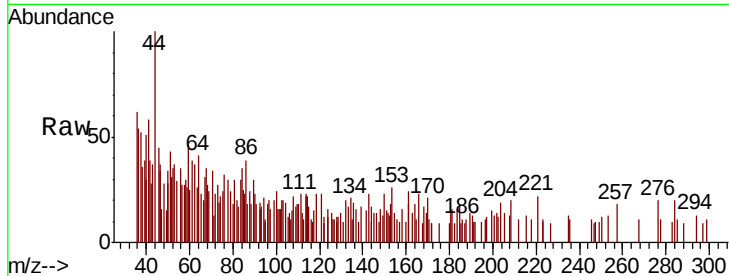




#49  
1,4-Dioxane  
Concen: 1.327 ug/l  
RT: 7.75 min Scan# 1126  
Delta R.T. 0.02 min  
Lab File: VX014906.D  
Acq: 11 Feb 2020 10:55

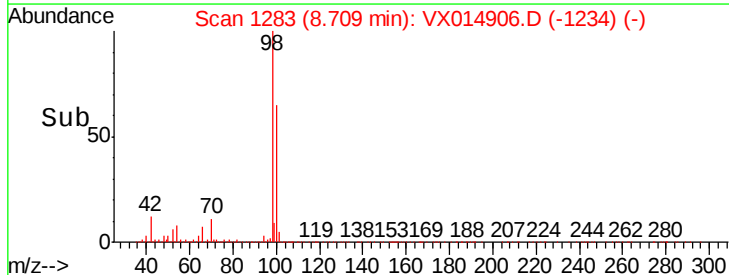
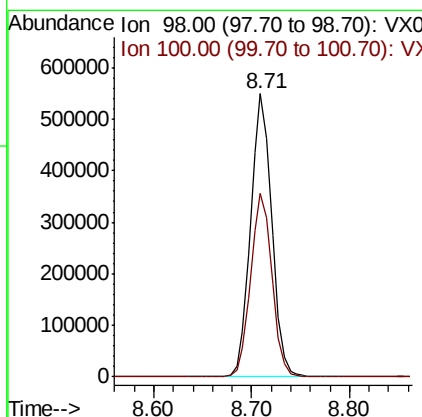
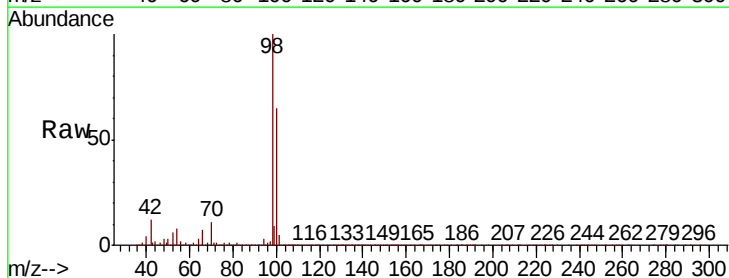
Instrument :  
MSVOA\_X  
ClientSampleId :

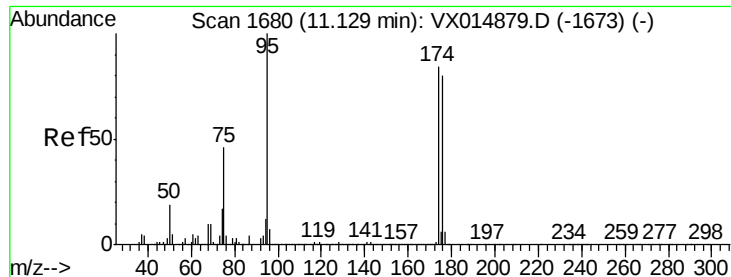
Tot Ion: 88 Resp: 131  
Ion Ratio Lower Upper  
88 100  
43 369.5 27.0 40.4#  
58 108.4 53.2 79.8#



#50  
Toluene-d8  
Concen: 50.341 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX014906.D  
Acq: 11 Feb 2020 10:55

Tgt Ion: 98 Resp: 823288  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 50.880 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

Instrument :

MSVOA\_X

ClientSampleId :

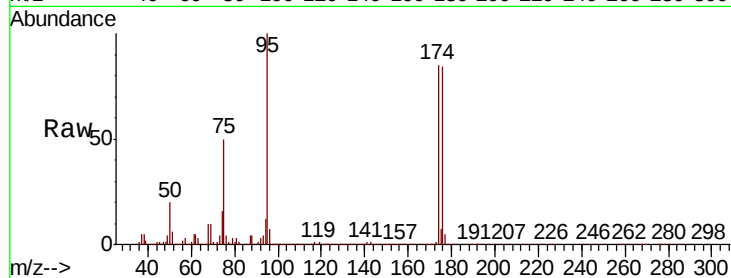
Tot Ion: 95 Resp: 299752

Ion Ratio Lower Upper

95 100

174 92.0 0.0 183.0

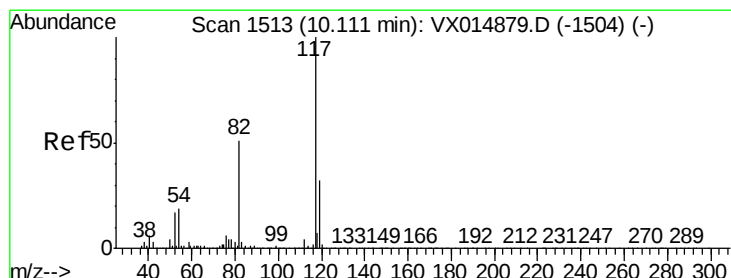
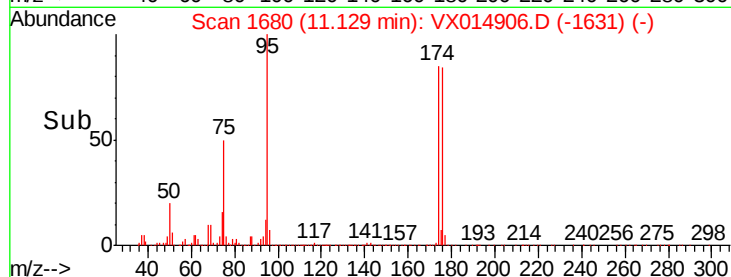
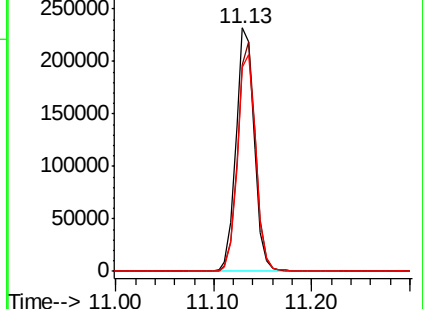
176 89.3 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX014879.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX014879.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX014879.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

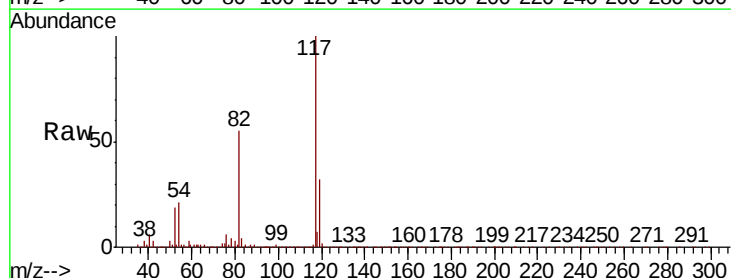
Tgt Ion: 117 Resp: 649658

Ion Ratio Lower Upper

117 100

82 54.8 40.5 60.7

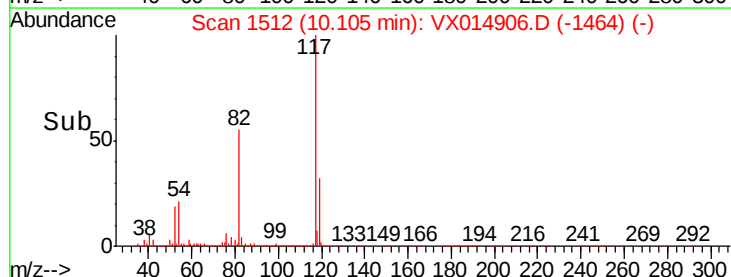
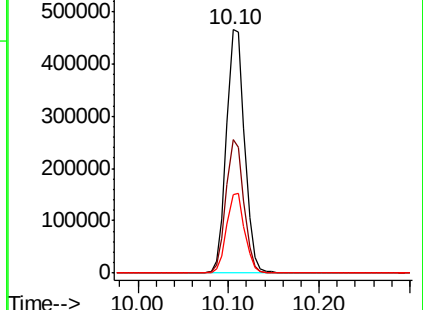
119 32.0 25.8 38.6

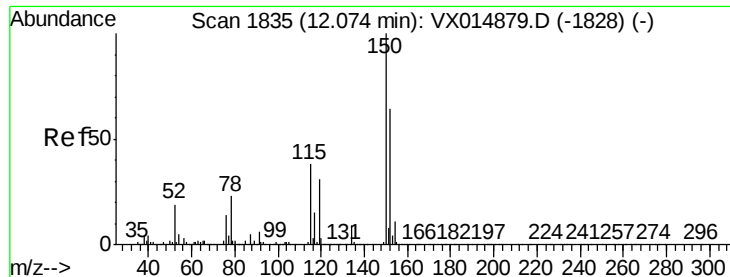


Abundance Ion 116.90 (116.60 to 117.60): VX014879.D (-1504) (-)

Ion 82.00 (81.70 to 82.70): VX014879.D (-1504) (-)

Ion 118.90 (118.60 to 119.60): VX014879.D (-1504) (-)



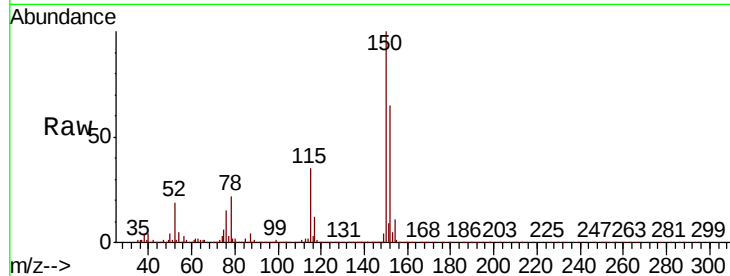


#72

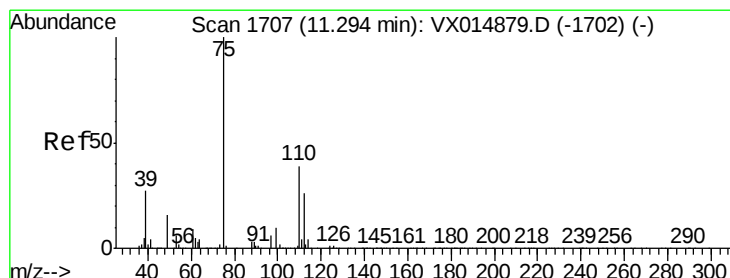
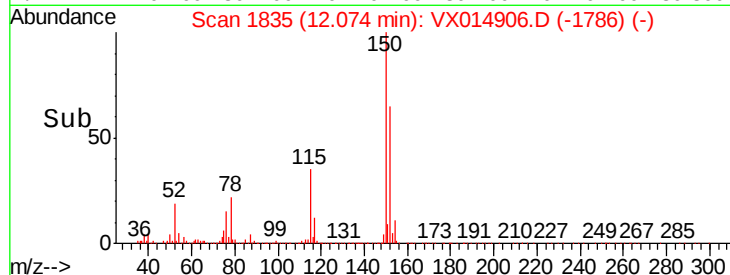
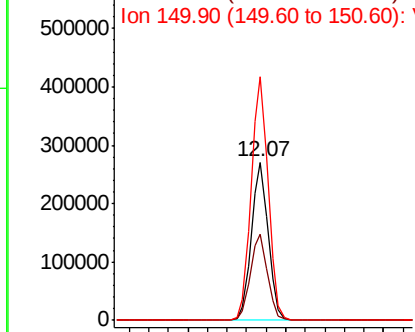
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX014906.D  
Acq: 11 Feb 2020 10:55

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.4  | 38.6  | 116.0 |
| 150     | 155.5 | 0.0   | 349.0 |



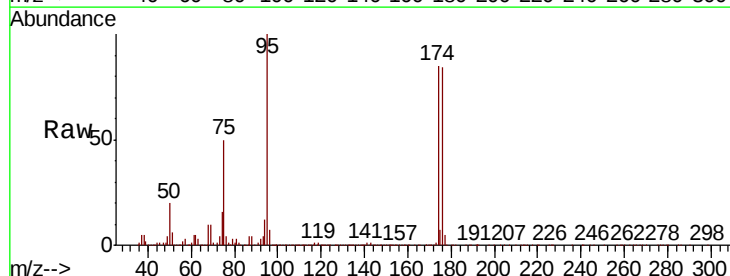
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



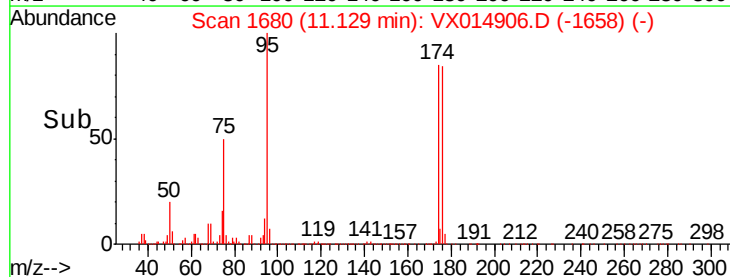
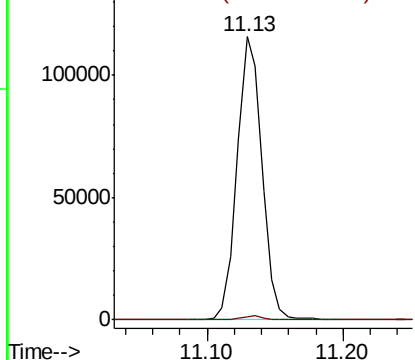
#76

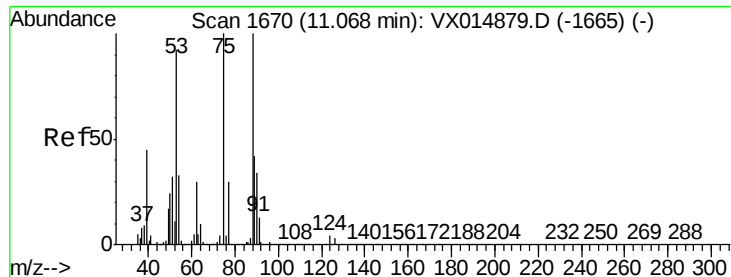
1,2,3-Trichloropropane  
Concen: 25.109 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.16 min  
Lab File: VX014906.D  
Acq: 11 Feb 2020 10:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.2   | 18.4  | 55.0# |



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: 64.272 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014906.D

Acq: 11 Feb 2020 10:55

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 75 Resp: 146719

Ion Ratio Lower Upper

75 100

53 0.7 76.2 114.2#

89 0.2 35.8 53.6#

