

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011819\  
 Data File : VX007143.D  
 Acq On : 18 Jan 2019 18:55  
 Operator : JC/SP  
 Sample : K1199-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-TW519-3337

Quant Time: Jan 21 10:02:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 539530   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 833855   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 787326   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 392239   | 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   | 291293   | 51.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.32% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 259080   | 48.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.04%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1009668  | 51.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.32% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 360297   | 52.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.74% |          |

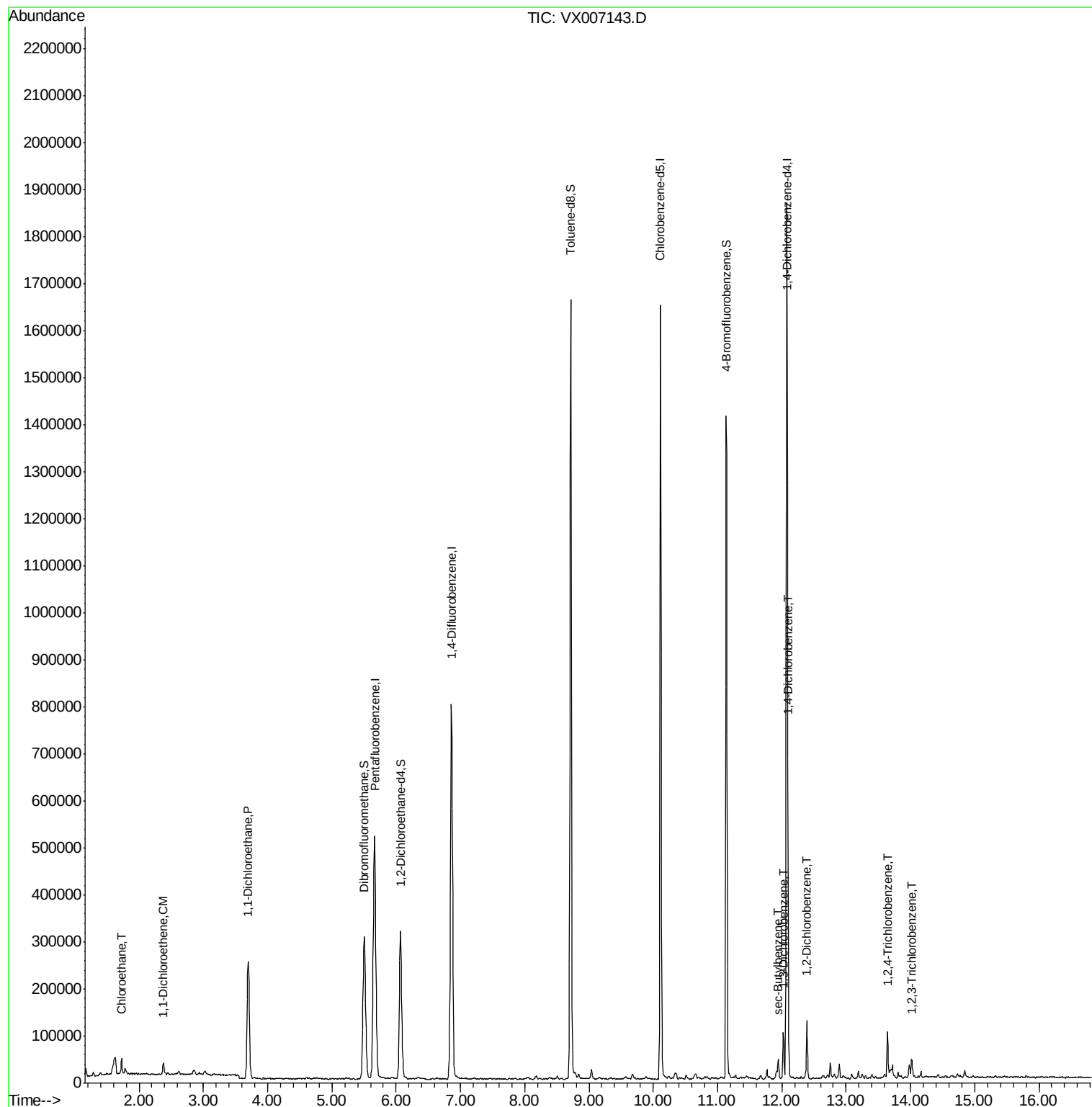
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 6) Chloroethane            | 1.73  | 64   | 22458    | 5.797  | ug/l   | 96     |
| 12) 1,1-Dichloroethene     | 2.38  | 96   | 10175    | 2.052  | ug/l   | 87     |
| 24) 1,1-Dichloroethane     | 3.70  | 63   | 289215   | 32.374 | ug/l   | 99     |
| 85) sec-Butylbenzene       | 11.94 | 105  | 20749    | 0.753  | ug/l   | 96     |
| 87) 1,3-Dichlorobenzene    | 12.02 | 146  | 32474    | 2.358  | ug/l   | 98     |
| 88) 1,4-Dichlorobenzene    | 12.10 | 146  | 102388   | 7.967  | ug/l   | 97     |
| 91) 1,2-Dichlorobenzene    | 12.39 | 146  | 39693    | 2.920  | ug/l   | 98     |
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 24676    | 2.646  | ug/l   | 93     |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 9500     | 1.025  | ug/l # | 79     |

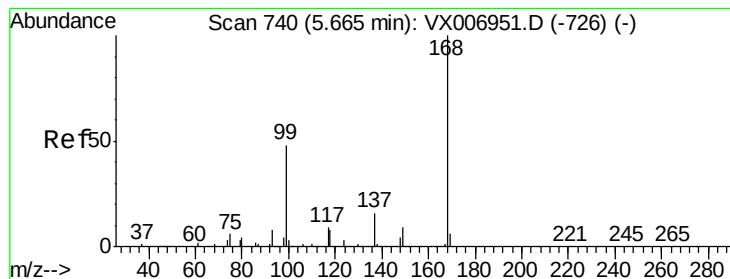
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

Instrument :

MSVOA\_X

ClientSampleId :

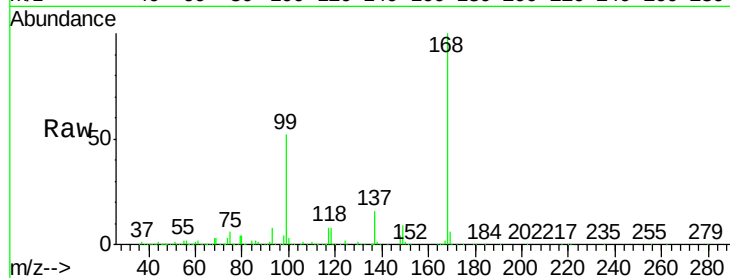
SA-TW519-3337

Tot Ion:168 Resp: 539530

Ion Ratio Lower Upper

168 100

99 51.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

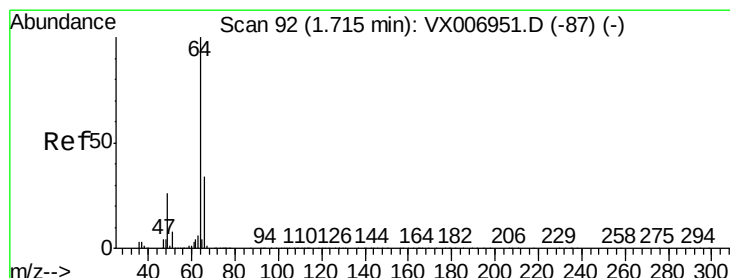
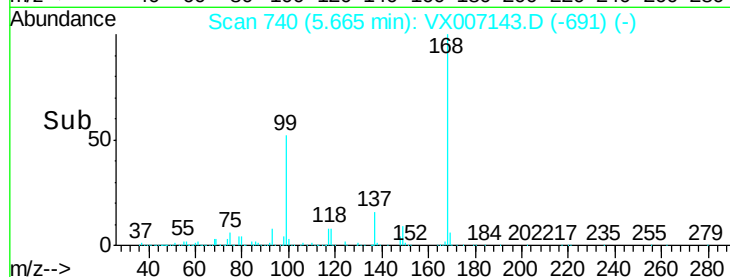
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 5.797 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX007143.D

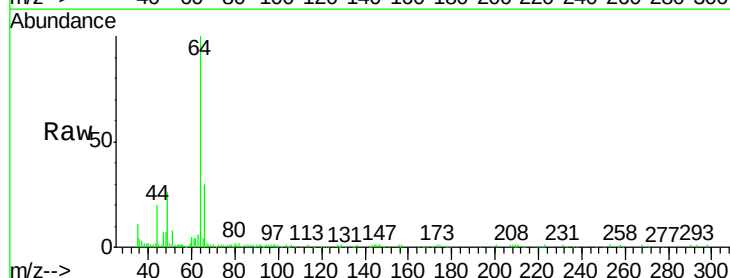
Acq: 18 Jan 2019 18:55

Tgt Ion: 64 Resp: 22458

Ion Ratio Lower Upper

64 100

66 30.9 26.4 39.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

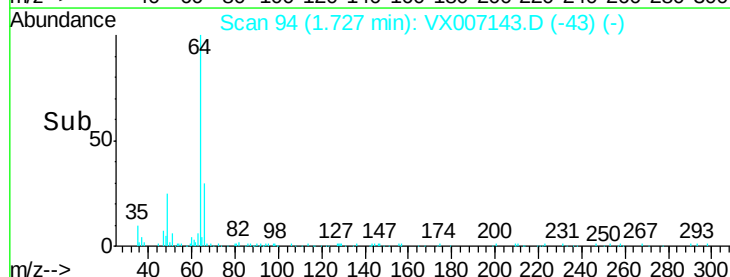
15000

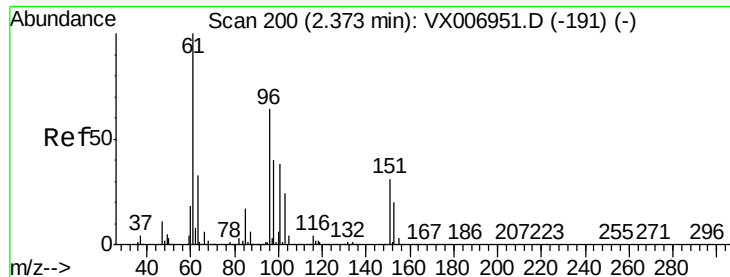
10000

5000

0

Time--> 1.70 1.75 1.80





#12

1,1-Dichloroethene

Concen: 2.052 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW519-3337

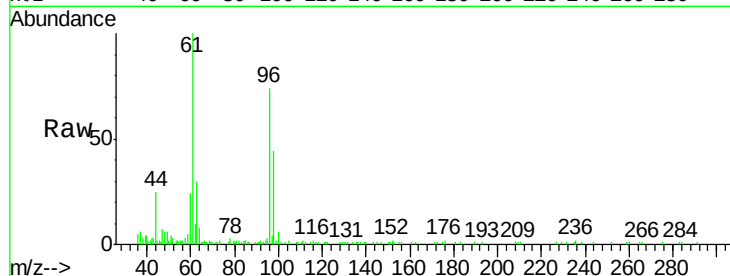
Tot Ion: 96 Resp: 10175

Ion Ratio Lower Upper

96 100

61 132.5 121.4 182.2

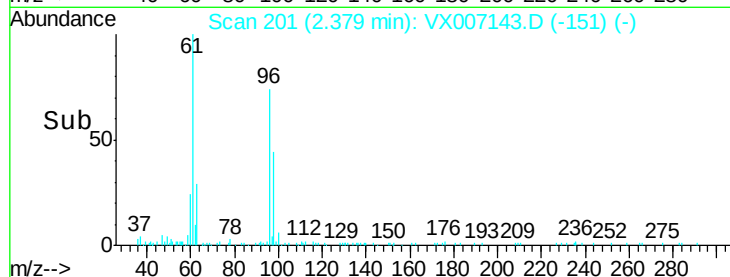
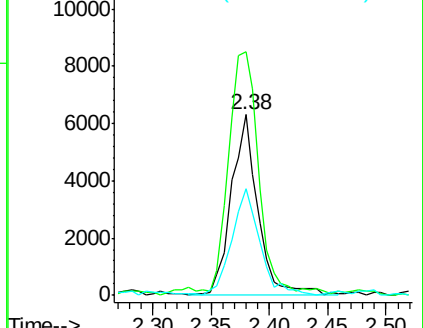
98 58.4 51.9 77.9



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



#24

1,1-Dichloroethane

Concen: 32.374 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

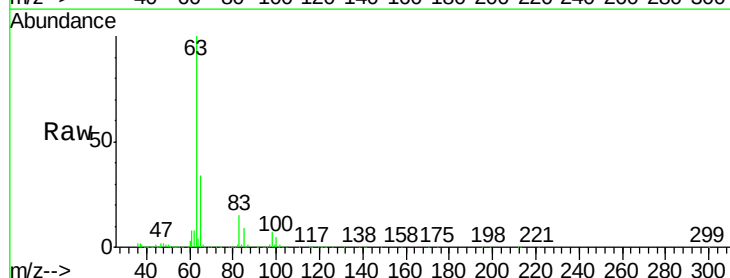
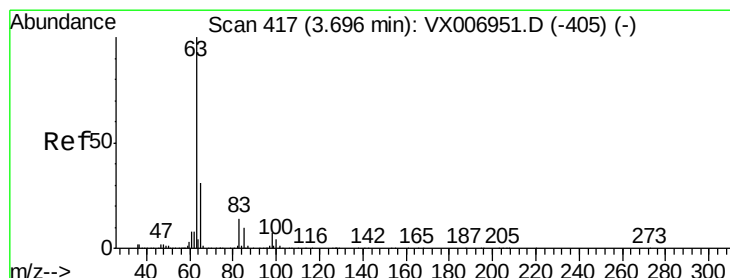
Tgt Ion: 63 Resp: 289215

Ion Ratio Lower Upper

63 100

98 7.1 3.9 11.5

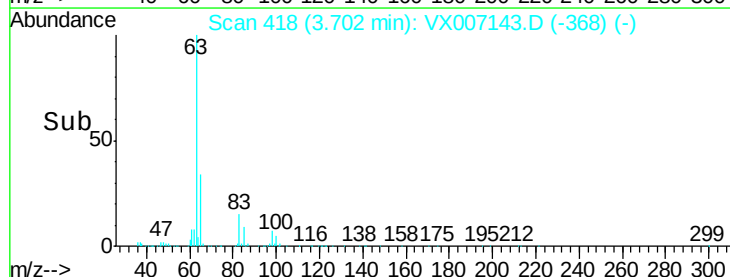
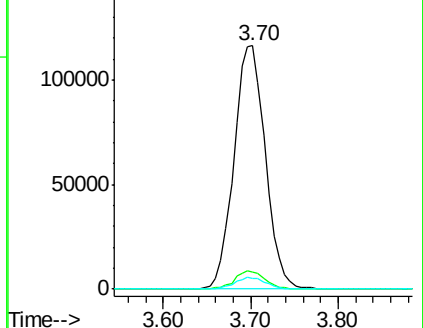
100 4.5 2.4 7.2

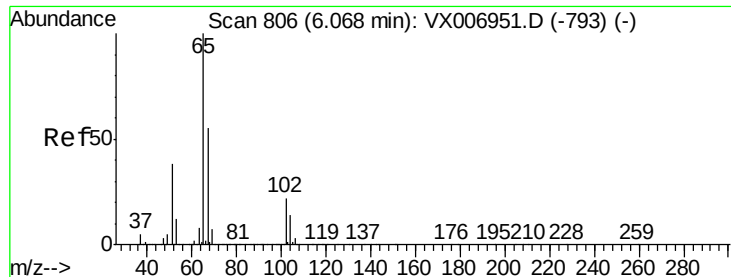


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.661 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

Instrument :

MSVOA\_X

ClientSampleId :

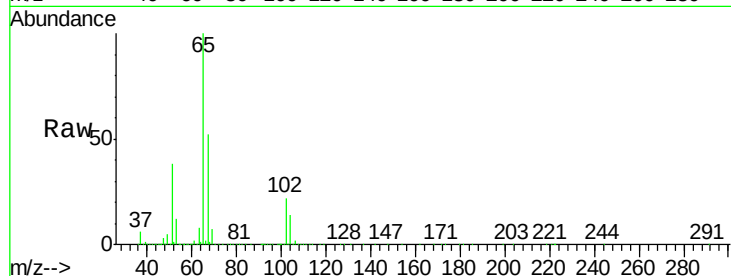
SA-TW519-3337

Tot Ion: 65 Resp: 291293

Ion Ratio Lower Upper

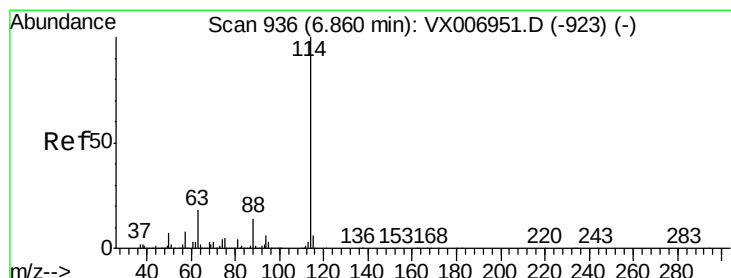
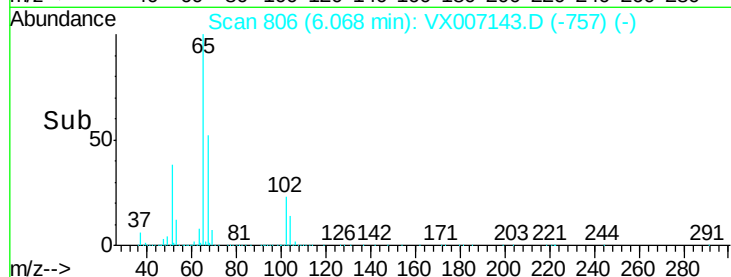
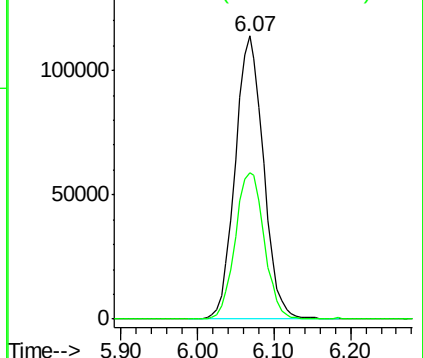
65 100

67 53.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

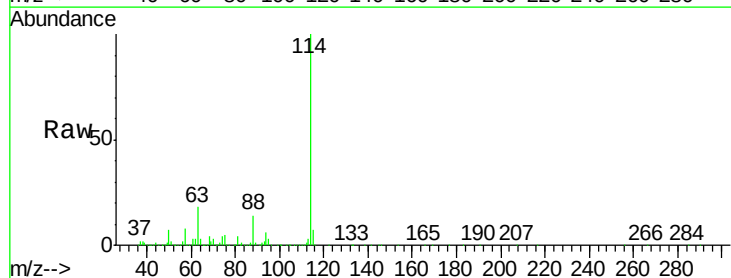
Tgt Ion: 114 Resp: 833855

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

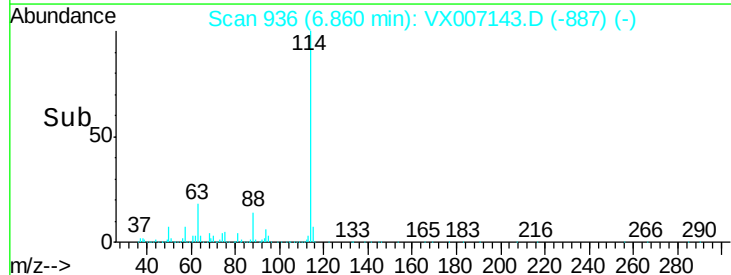
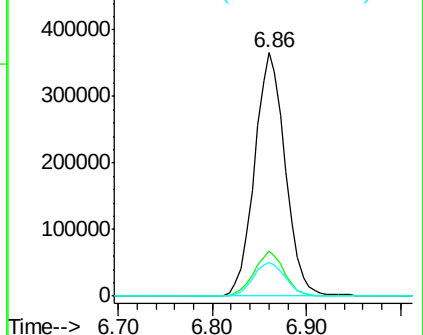
88 14.0 0.0 28.8

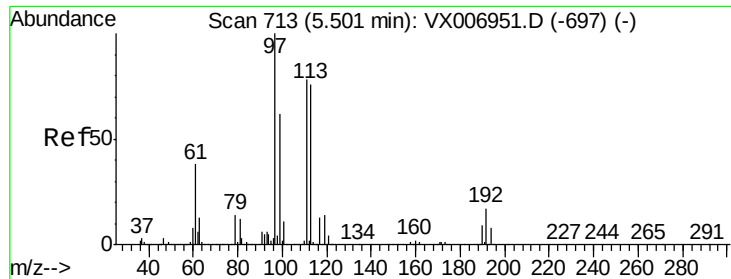


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

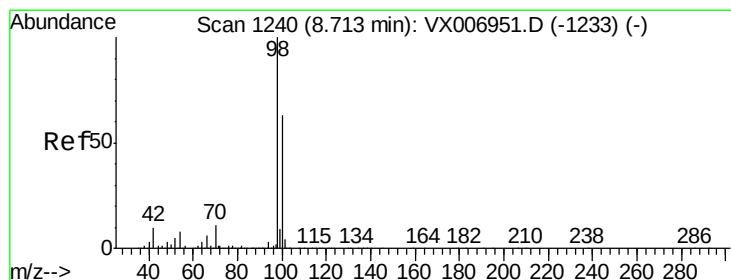
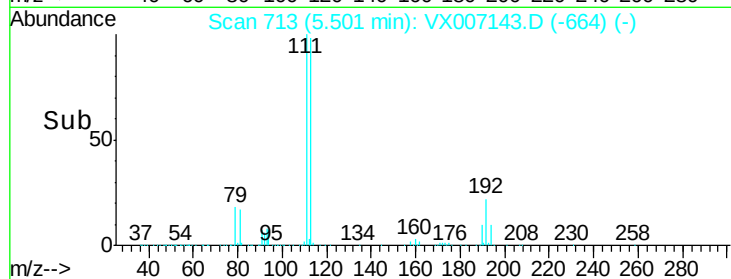
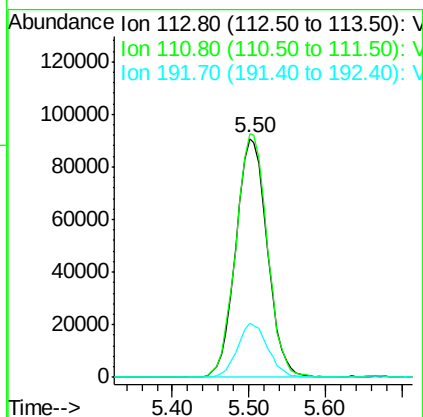
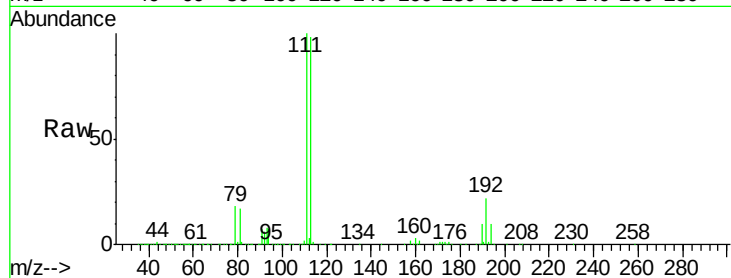




#35  
Dibromofluoromethane  
Concen: 48.517 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.00 min  
Lab File: VX007143.D  
Acq: 18 Jan 2019 18:55

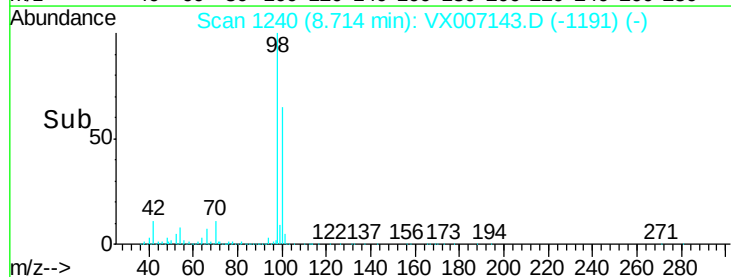
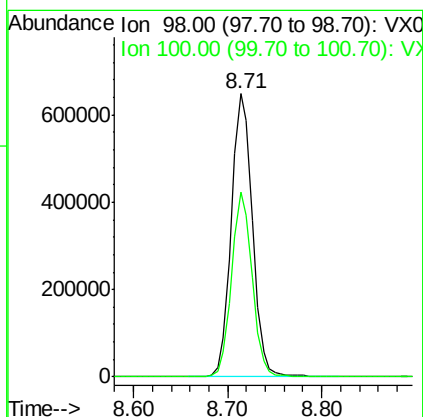
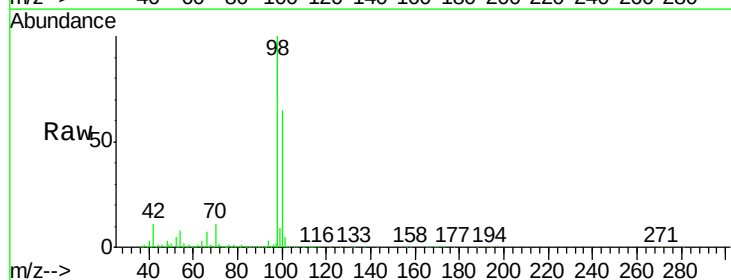
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW519-3337

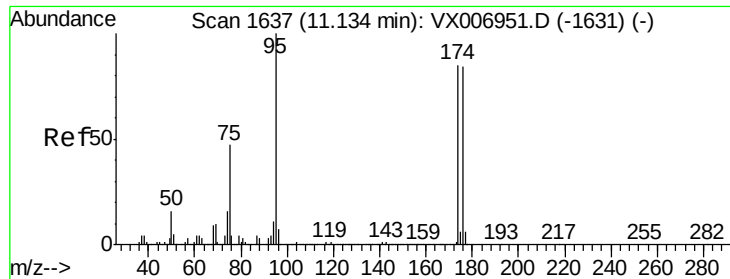
Tot Ion:113 Resp: 259080  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.6 122.4  
192 22.1 16.7 25.1



#50  
Toluene-d8  
Concen: 51.656 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX007143.D  
Acq: 18 Jan 2019 18:55

Tgt Ion: 98 Resp: 1009668  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.0 78.0

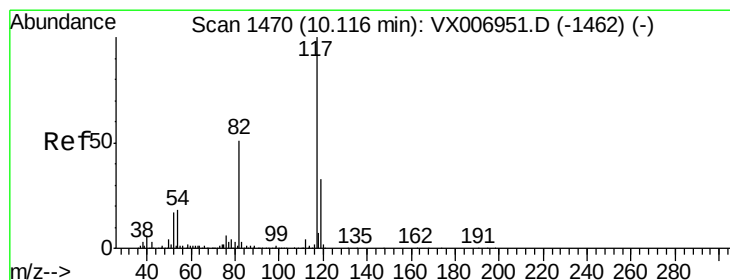
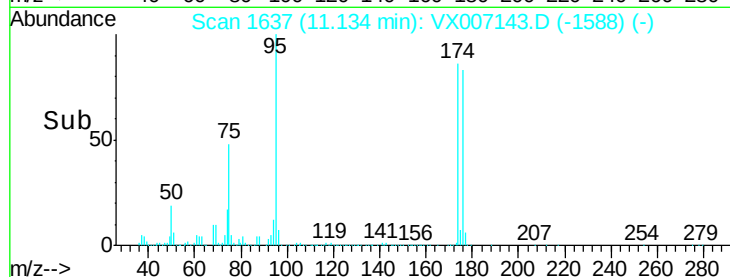
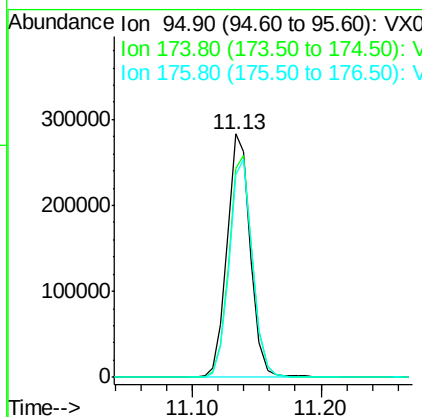
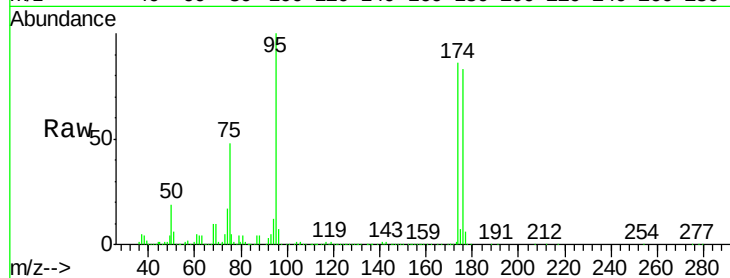




#62  
4-Bromofluorobenzene  
Concen: 52.875 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX007143.D  
Acq: 18 Jan 2019 18:55

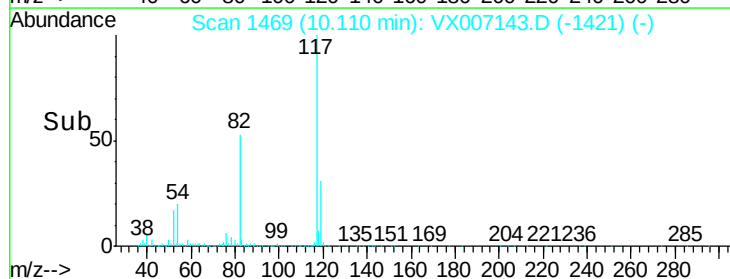
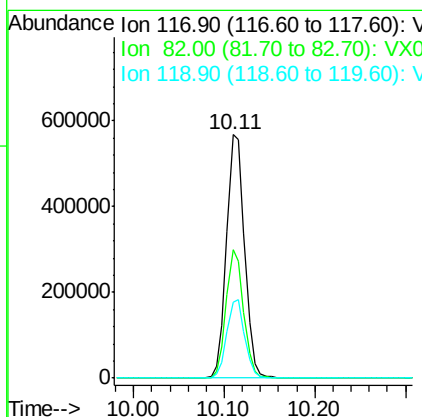
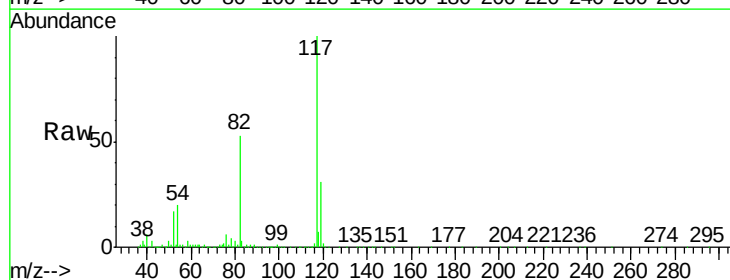
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW519-3337

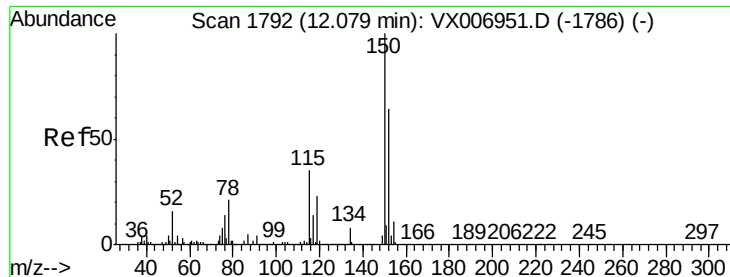
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 91.7  | 0.0   | 182.2 |
| 176     | 89.2  | 0.0   | 178.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.01 min  
Lab File: VX007143.D  
Acq: 18 Jan 2019 18:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.9  | 41.0  | 61.6  |
| 119     | 31.5  | 25.4  | 38.0  |



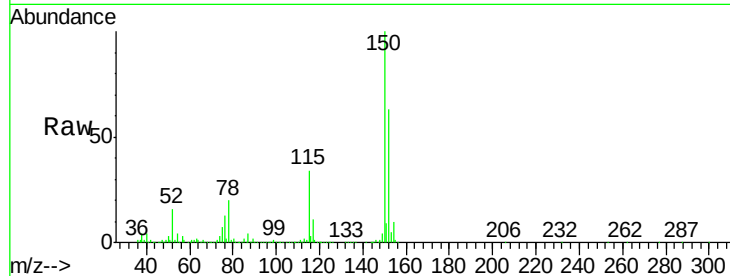


#72

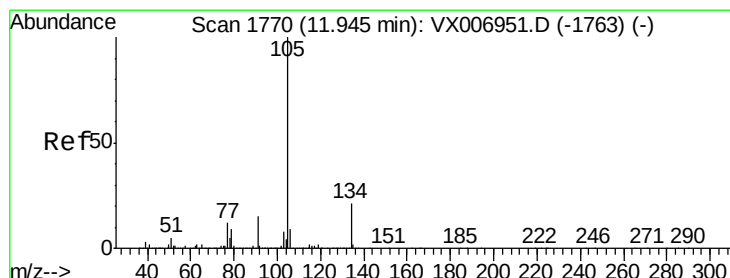
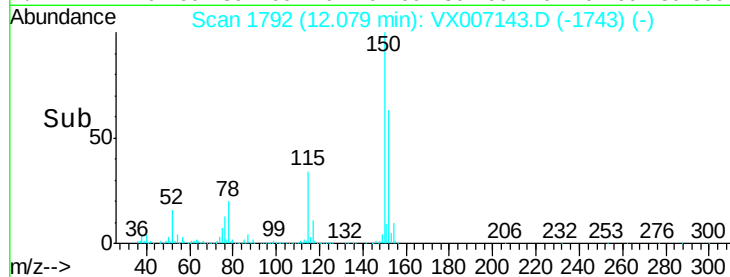
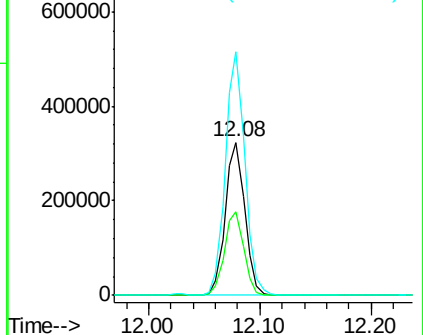
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX007143.D  
Acq: 18 Jan 2019 18:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-TW519-3337

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.2  | 39.1  | 117.2 |
| 150     | 159.0 | 0.0   | 344.8 |



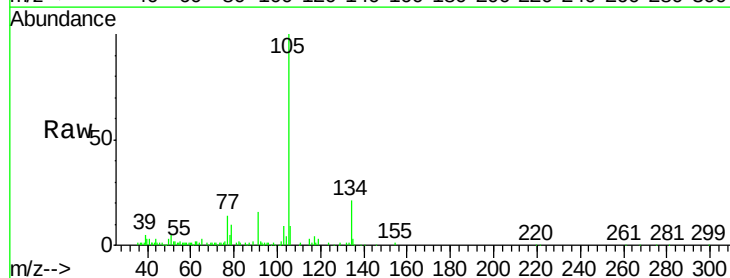
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



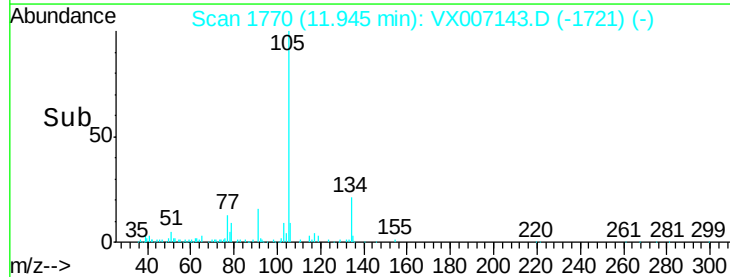
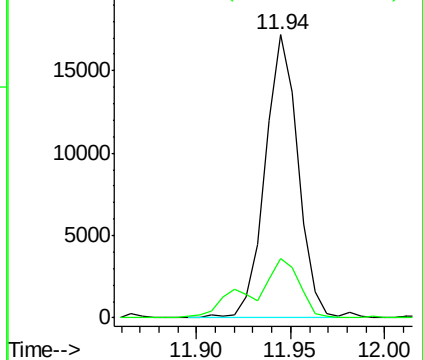
#85

sec-Butylbenzene  
Concen: 0.753 ug/l  
RT: 11.94 min Scan# 1770  
Delta R.T. 0.00 min  
Lab File: VX007143.D  
Acq: 18 Jan 2019 18:55

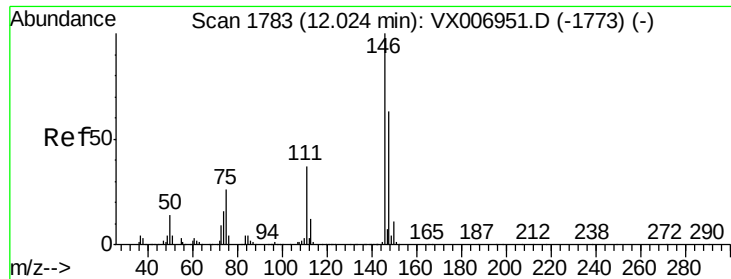
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 19.3  | 10.7  | 31.9  |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 134.00 (133.70 to 134.70): V







#87

1,3-Dichlorobenzene

Concen: 2.358 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

Instrument :

MSVOA\_X

ClientSampleId :

SA-TW519-3337

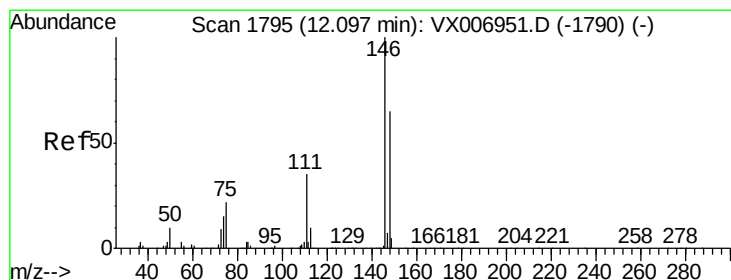
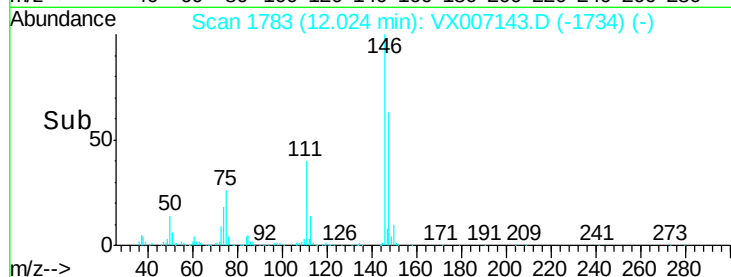
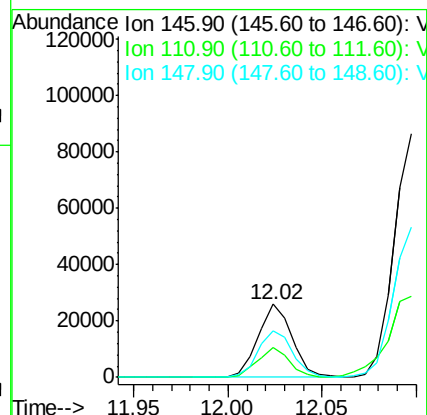
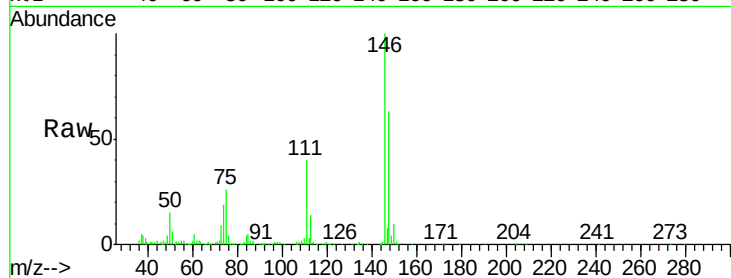
Tot Ion:146 Resp: 32474

Ion Ratio Lower Upper

146 100

111 39.3 18.6 55.8

148 64.8 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 7.967 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX007143.D

Acq: 18 Jan 2019 18:55

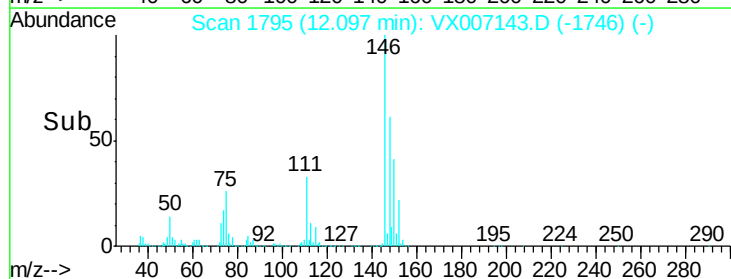
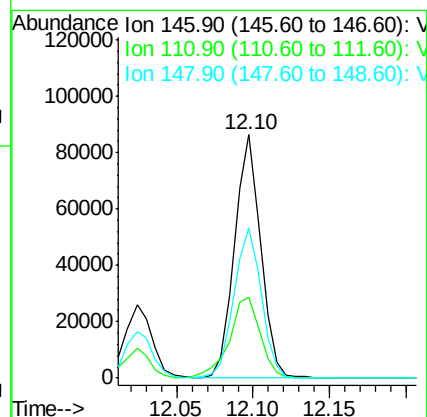
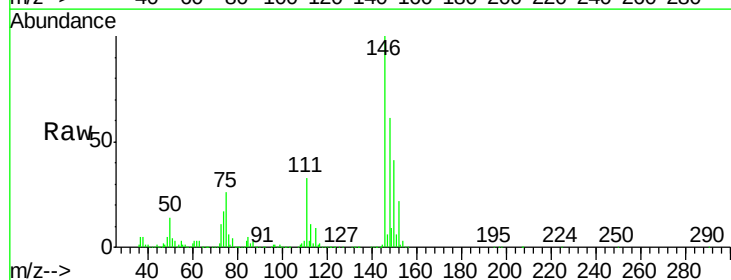
Tgt Ion:146 Resp: 102388

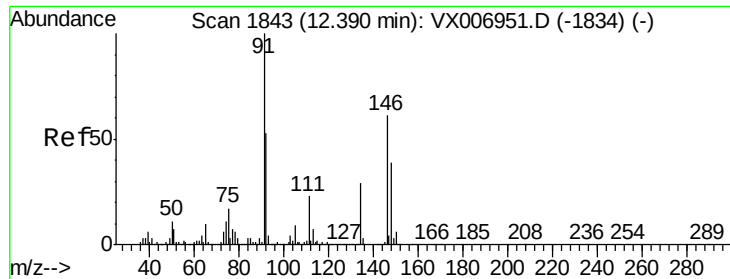
Ion Ratio Lower Upper

146 100

111 39.2 18.1 54.1

148 64.8 31.9 95.9

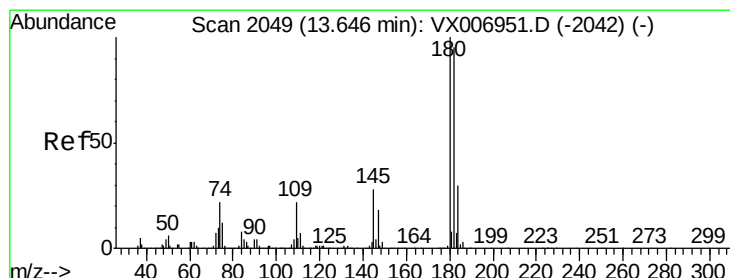
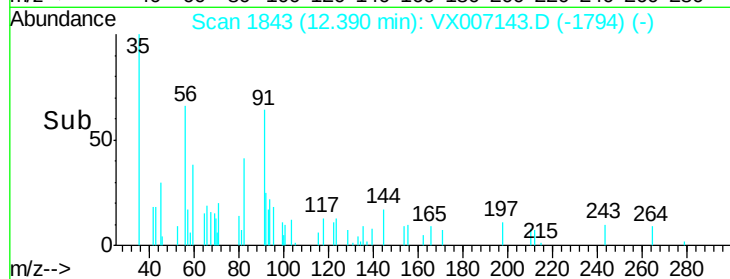
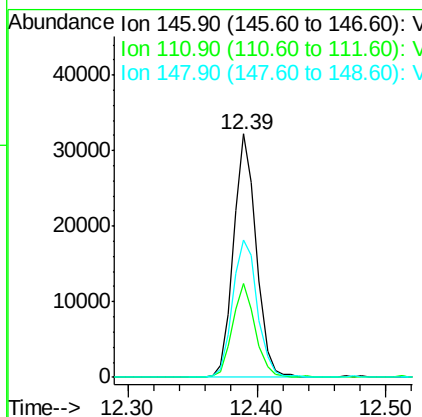
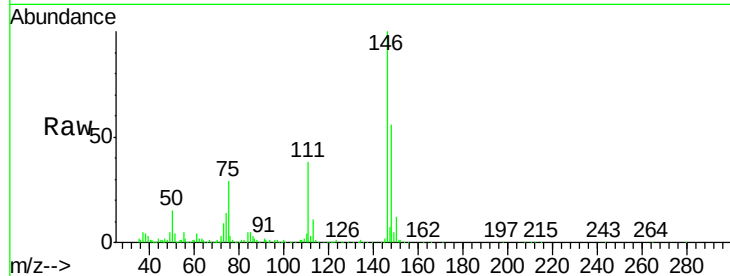




#91  
 1,2-Dichlorobenzene  
 Concen: 2.920 ug/l  
 RT: 12.39 min Scan# 1843  
 Delta R.T. 0.00 min  
 Lab File: VX007143.D  
 Acq: 18 Jan 2019 18:55

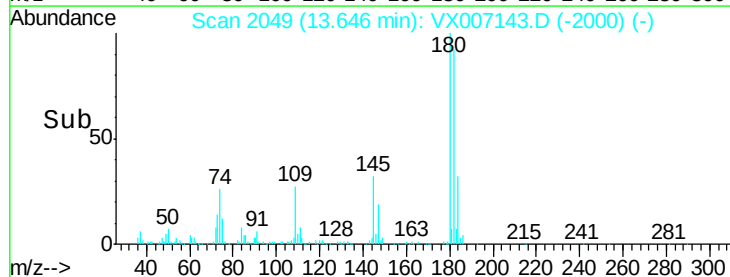
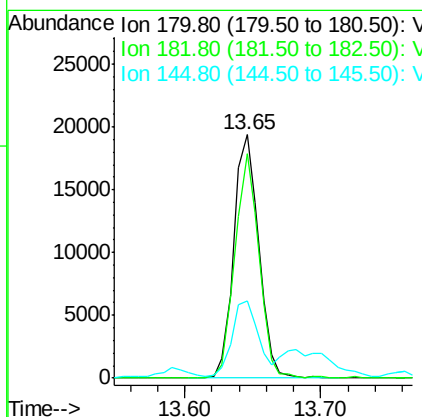
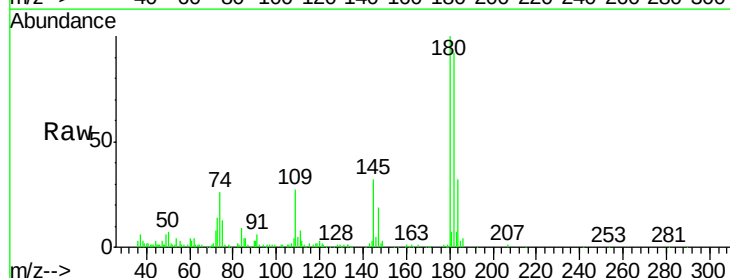
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-TW519-3337

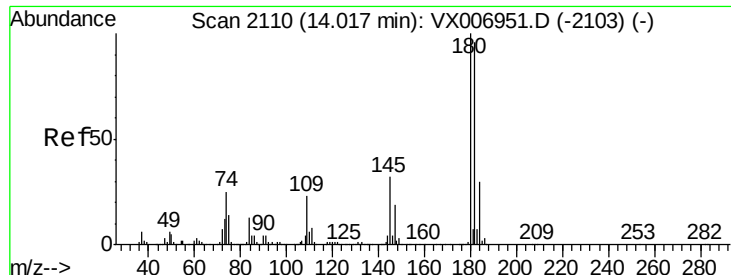
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.7  | 19.4  | 58.2  |
| 148     | 61.5  | 32.3  | 96.9  |



#93  
 1,2,4-Trichlorobenzene  
 Concen: 2.646 ug/l  
 RT: 13.65 min Scan# 2049  
 Delta R.T. 0.00 min  
 Lab File: VX007143.D  
 Acq: 18 Jan 2019 18:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 89.0  | 47.3  | 142.0 |
| 145     | 34.0  | 14.8  | 44.3  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.025 ug/l  
 RT: 14.02 min Scan# 2111  
 Delta R.T. 0.01 min  
 Lab File: VX007143.D  
 Acq: 18 Jan 2019 18:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-TW519-3337

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 88.5  | 48.5  | 145.5 |
| 145     | 65.6  | 16.0  | 47.9# |

