

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032119\  
 Data File : VX008290.D  
 Acq On : 21 Mar 2019 14:58  
 Operator : JC/SP  
 Sample : K1963-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW04-20190314

Quant Time: Mar 22 08:43:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 13:15:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 293336   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 485743   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 406125   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 162454   | 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   | 206908   | 46.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.66% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 156065   | 47.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.98% |          |
| 50) Toluene-d8              | 8.71  | 98   | 589810   | 47.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.68% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 188855   | 44.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.98% |          |

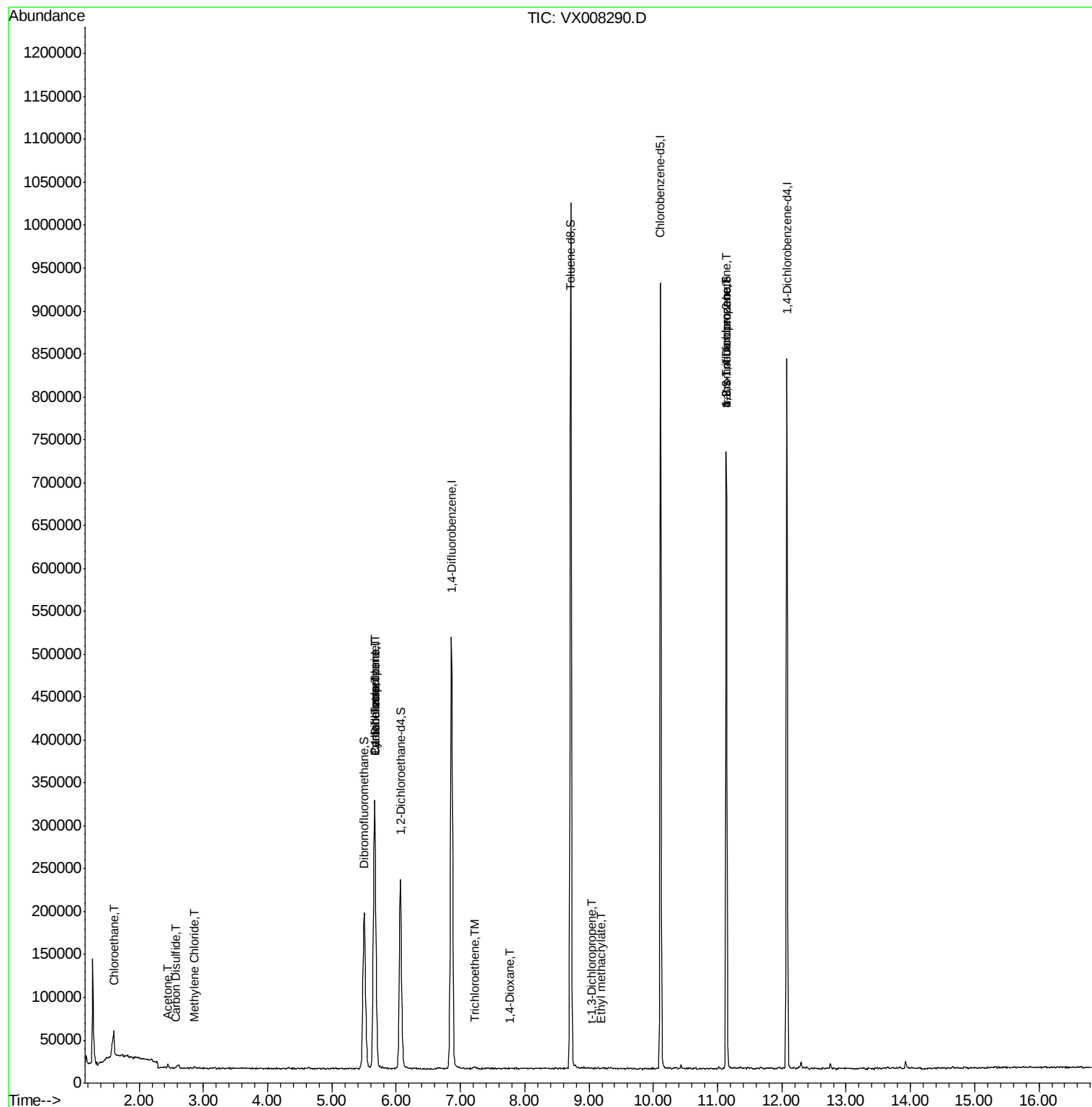
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.60  | 64   | 11281    | 4.044     | ug/l # | 55     |
| 13) Acrolein                   | 2.28  | 56   | 359      | Below Cal | #      | 13     |
| 16) Acetone                    | 2.45  | 43   | 4853     | 1.937     | ug/l   | 89     |
| 17) Carbon Disulfide           | 2.58  | 76   | 1862     | 0.833     | ug/l # | 74     |
| 20) Methylene Chloride         | 2.86  | 84   | 1086     | 0.260     | ug/l # | 86     |
| 31) Cyclohexane                | 5.66  | 56   | 6439     | 0.879     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 23840    | 4.215     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 29361    | 5.827     | ug/l # | 16     |
| 44) Trichloroethene            | 7.21  | 130  | 1018     | 0.249     | ug/l   | 93     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 47       | 0.467     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 272      | 1.461     | ug/l # | 58     |
| 56) Ethyl methacrylate         | 9.18  | 69   | 125      | 0.543     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 98469    | 21.551    | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 98469    | 54.797    | ug/l # | 11     |

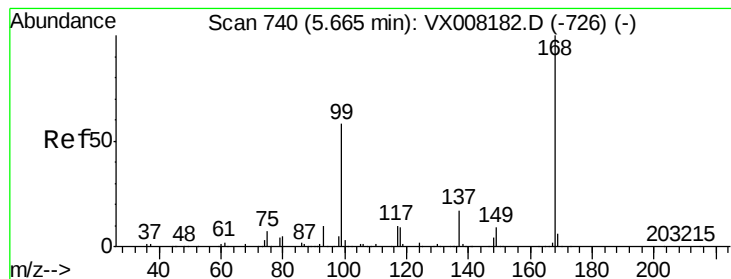
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Mar 19 13:15:13 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: VX008290.D

Acq: 21 Mar 2019 14:58

Instrument :

MSVOA\_X

ClientSampleId :

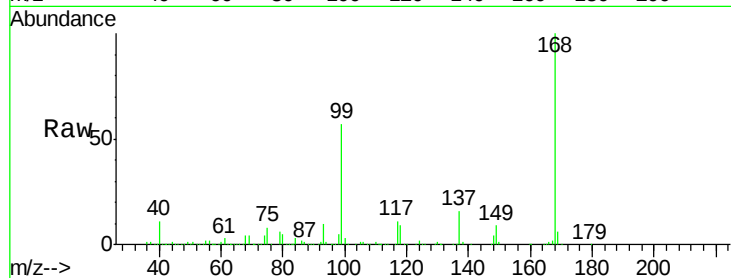
BP-TT-AOC22-MW04-20190314

Tot Ion:168 Resp: 293336

Ion Ratio Lower Upper

168 100

99 57.0 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

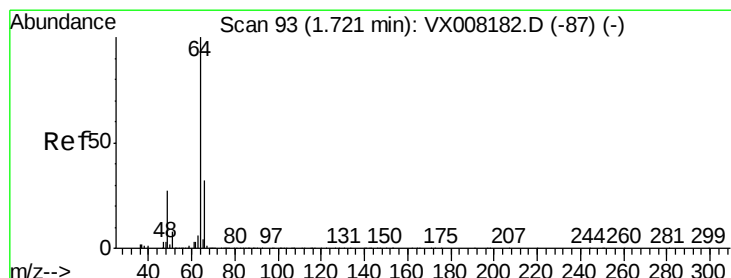
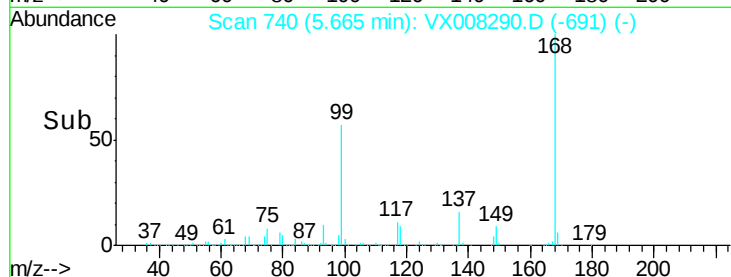
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 4.044 ug/l

RT: 1.60 min Scan# 74

Delta R.T. -0.12 min

Lab File: VX008290.D

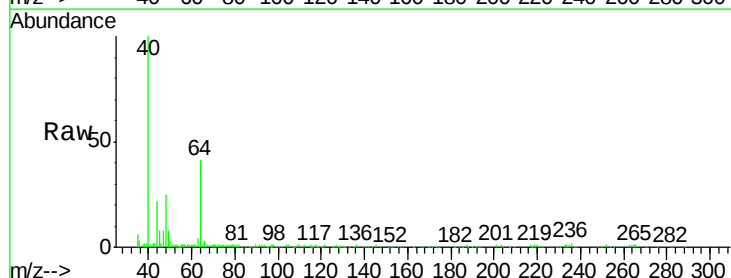
Acq: 21 Mar 2019 14:58

Tgt Ion: 64 Resp: 11281

Ion Ratio Lower Upper

64 100

66 6.3 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.60

8000

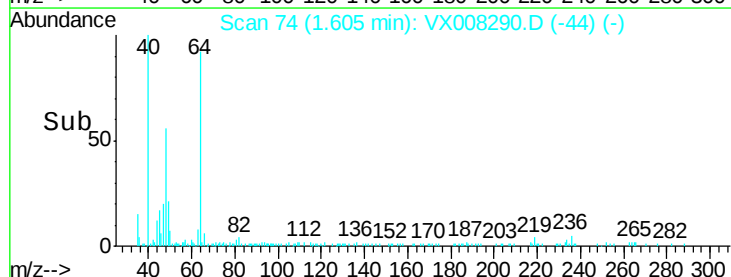
6000

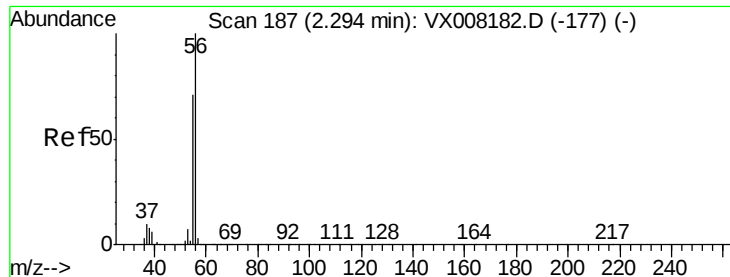
4000

2000

0

Time--> 1.55 1.60 1.65





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

Instrument :

MSVOA\_X

ClientSampleId :

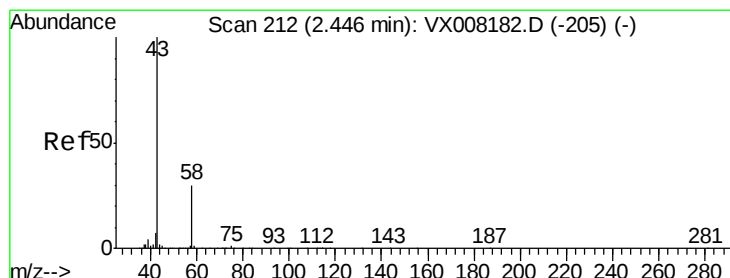
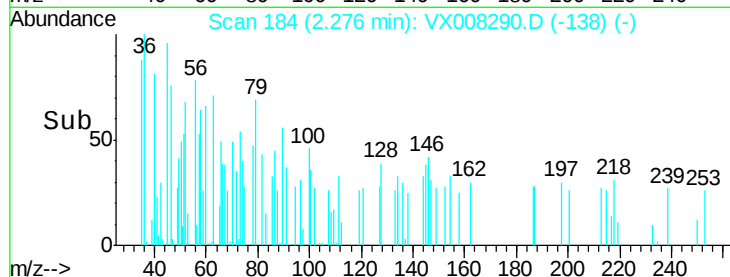
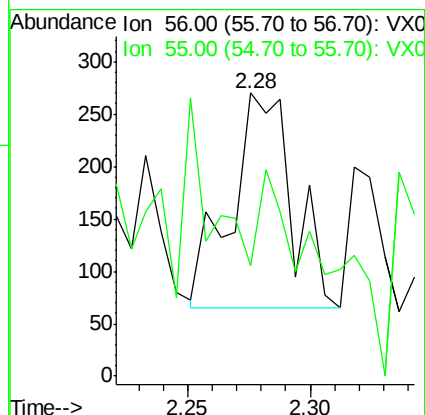
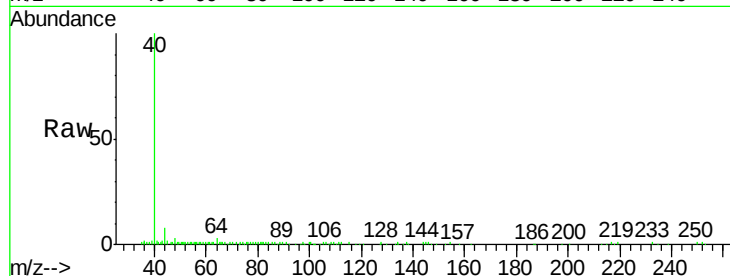
BP-TT-AOC22-MW04-20190314

Tot Ion: 56 Resp: 359

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#16

Acetone

Concen: 1.937 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008290.D

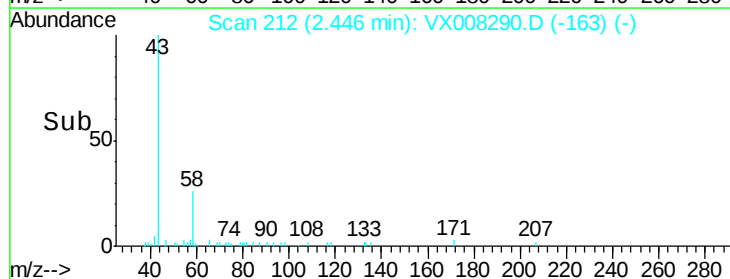
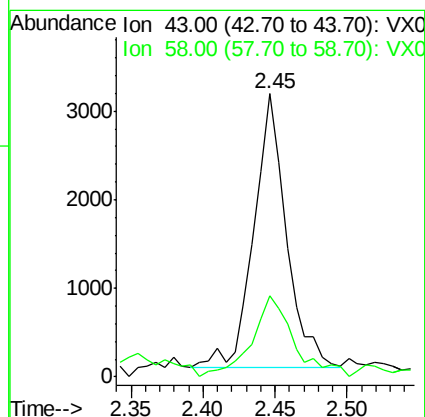
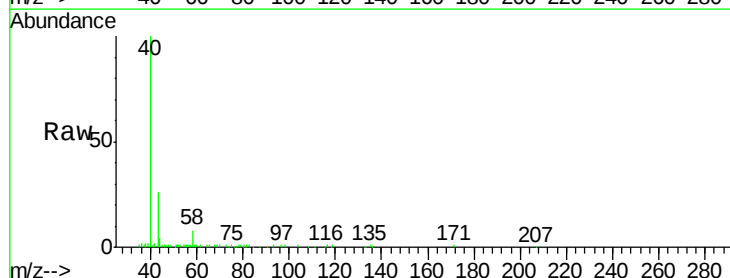
Acq: 21 Mar 2019 14:58

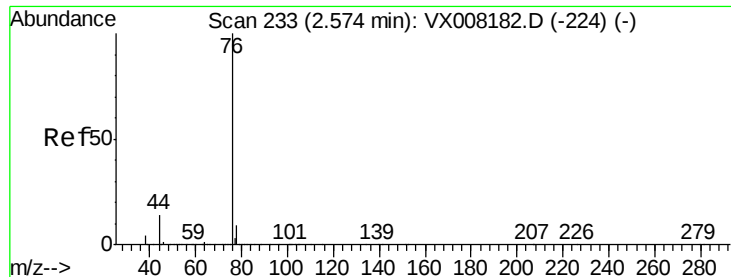
Tgt Ion: 43 Resp: 4853

Ion Ratio Lower Upper

43 100

58 25.8 25.5 38.3





#17

Carbon Disulfide

Concen: 0.833 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

Instrument :

MSVOA\_X

ClientSampleId :

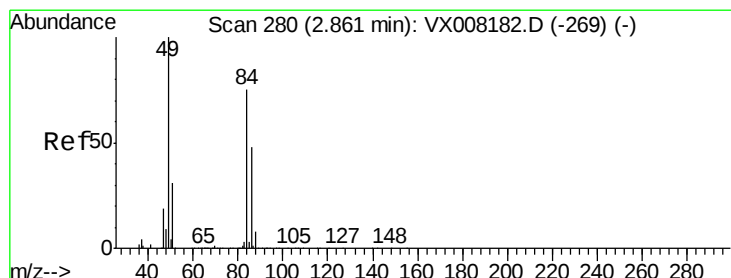
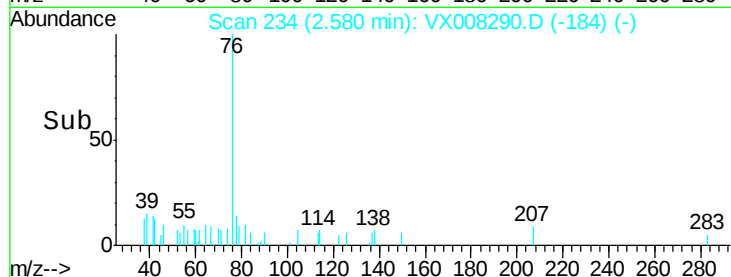
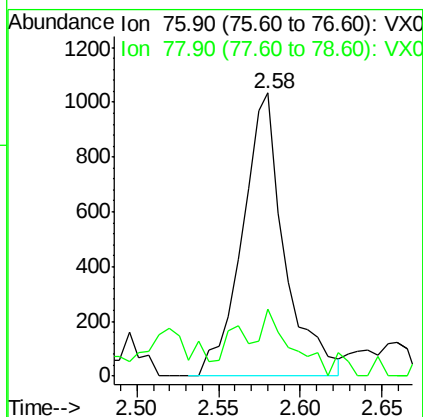
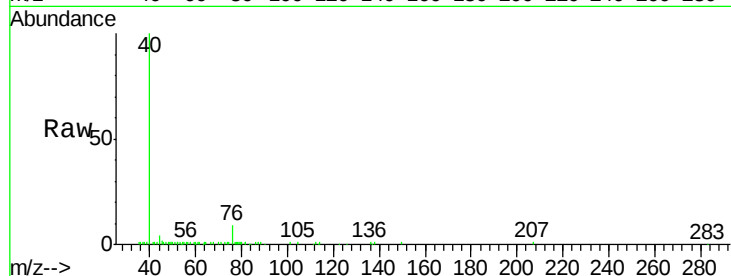
BP-TT-AOC22-MW04-20190314

Tot Ion: 76 Resp: 1862

Ion Ratio Lower Upper

76 100

78 18.4 7.2 10.8#



#20

Methylene Chloride

Concen: 0.260 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

Tgt Ion: 84 Resp: 1086

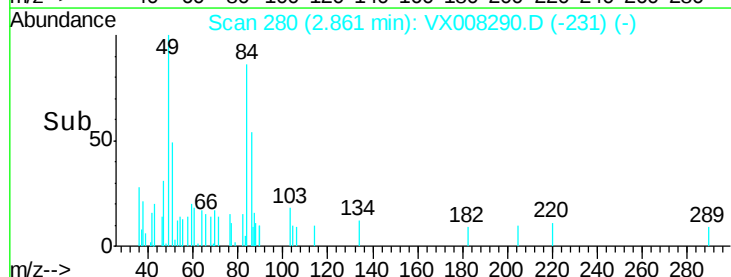
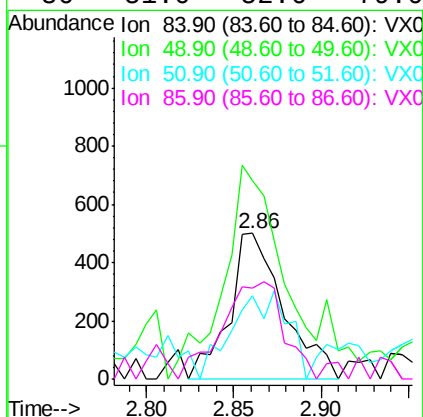
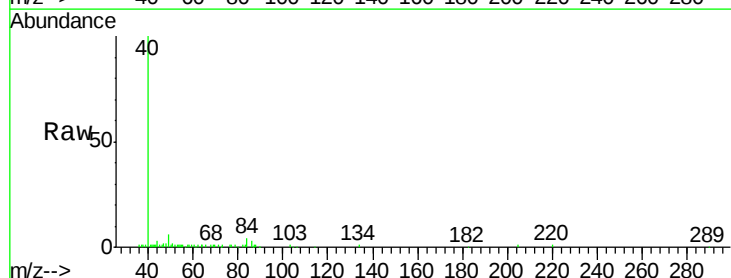
Ion Ratio Lower Upper

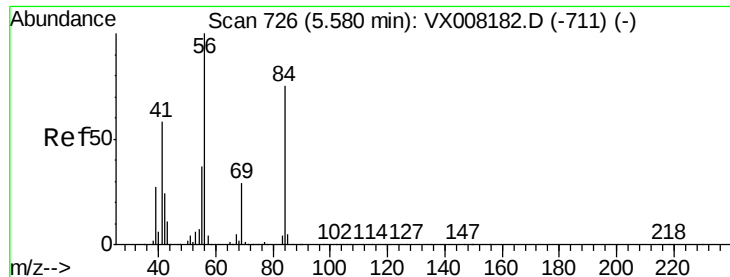
84 100

49 106.2 99.3 148.9

51 38.4 31.3 46.9

86 51.0 52.6 79.0#

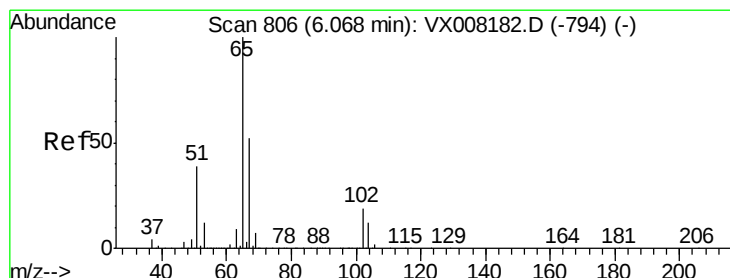
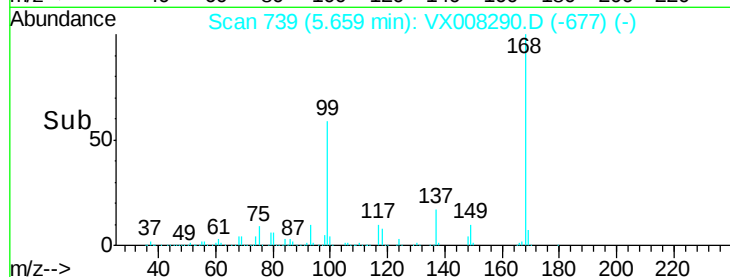
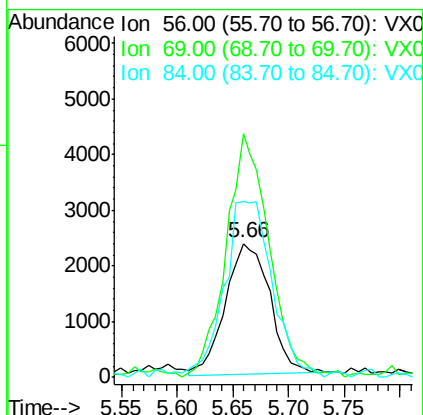
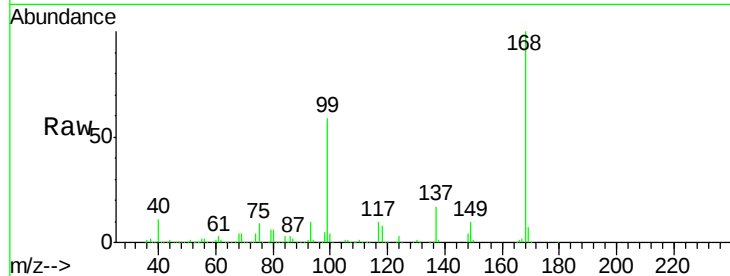




#31  
Cyclohexane  
Concen: 0.879 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX008290.D  
Acq: 21 Mar 2019 14:58

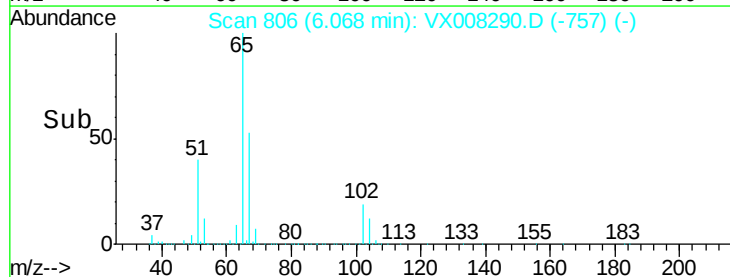
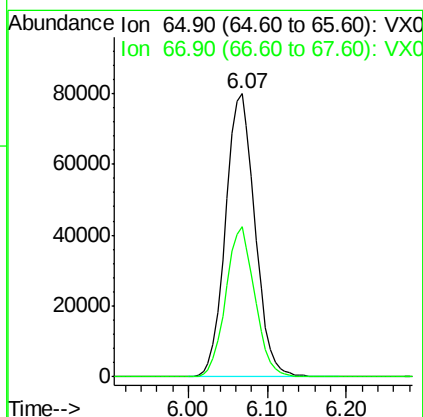
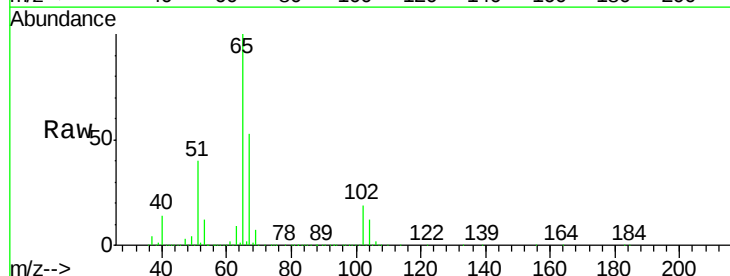
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW04-20190314

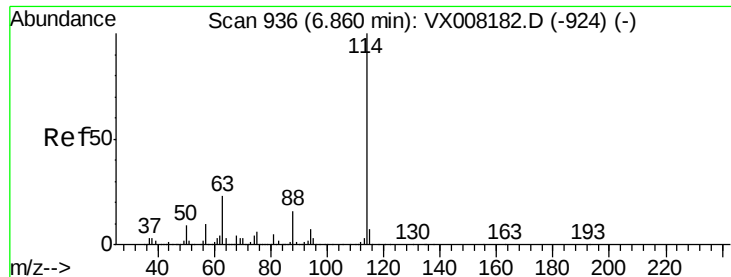
Tot Ion: 56 Resp: 6439  
Ion Ratio Lower Upper  
56 100  
69 187.4 24.0 36.0#  
84 133.7 65.3 97.9#



#33  
1,2-Dichloroethane-d4  
Concen: 46.834 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX008290.D  
Acq: 21 Mar 2019 14:58

Tgt Ion: 65 Resp: 206908  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-AOC22-MW04-20190314

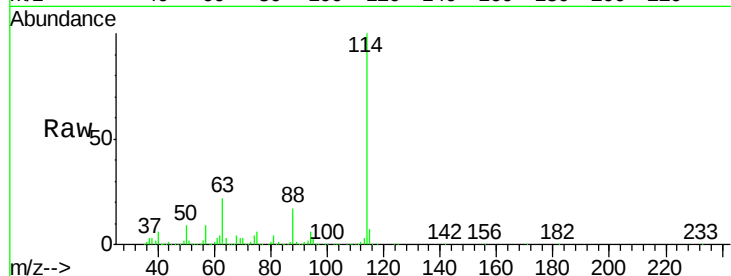
Tot Ion:114 Resp: 485743

Ion Ratio Lower Upper

114 100

63 22.3 0.0 39.8

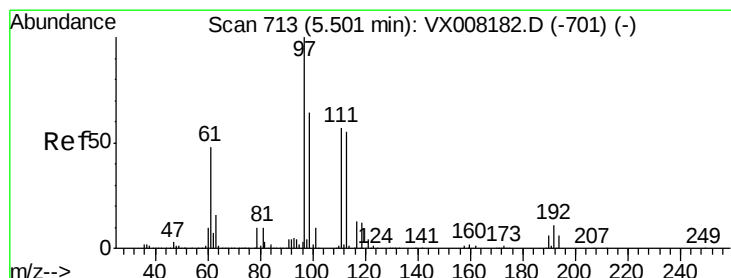
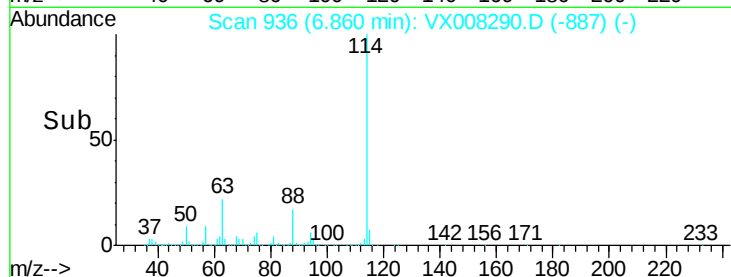
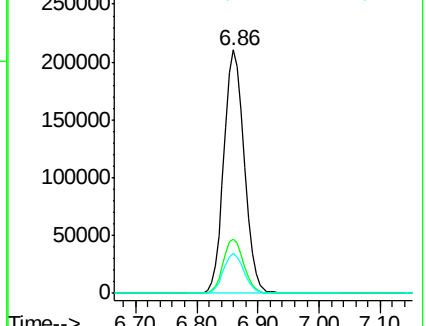
88 16.5 0.0 31.4



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: 47.994 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

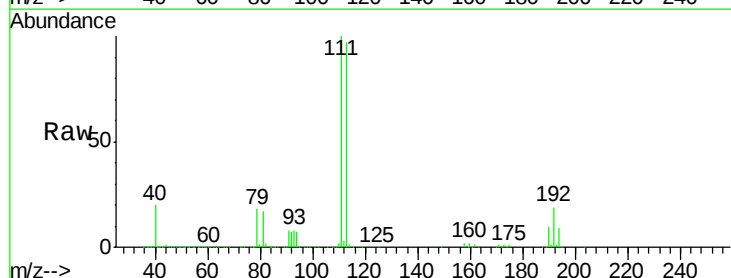
Tgt Ion:113 Resp: 156065

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

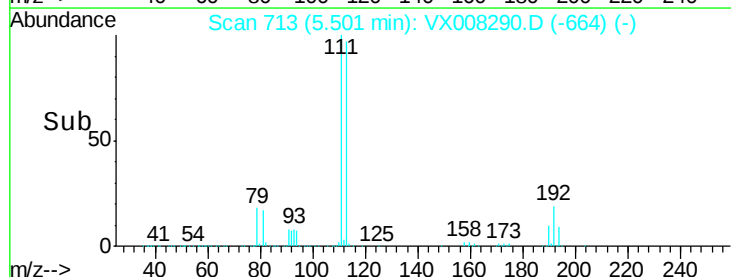
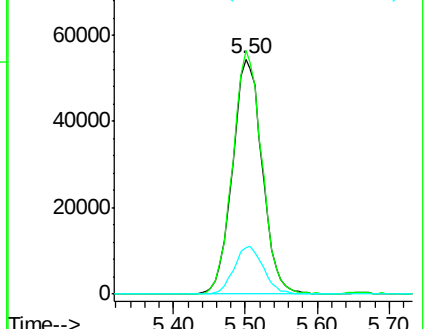
192 20.1 19.4 29.0

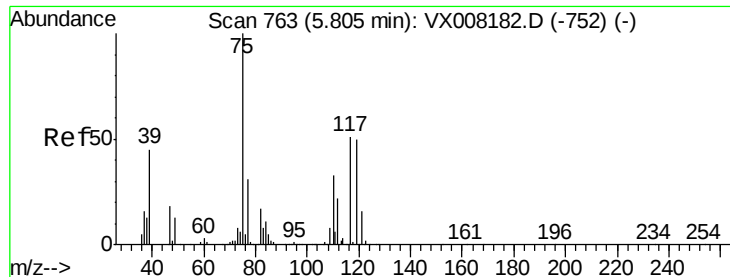


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.215 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.14 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

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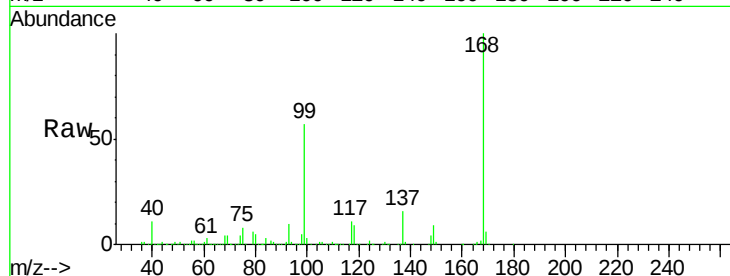
Tot Ion: 75 Resp: 23840

Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.0#

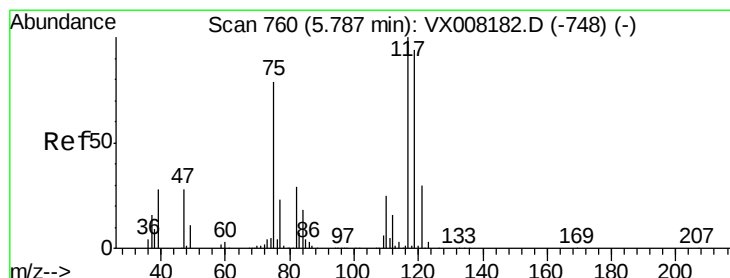
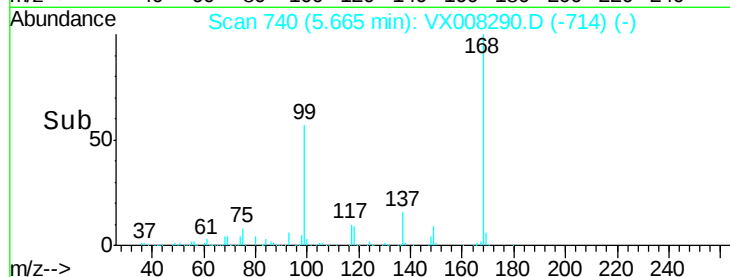
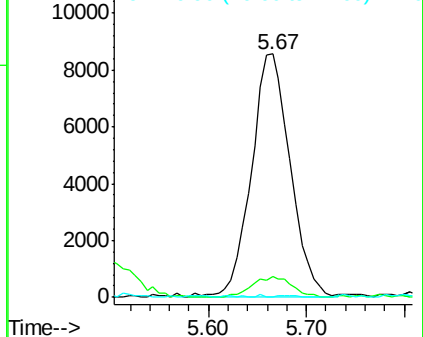
77 0.4 25.0 37.4#



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: 5.827 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

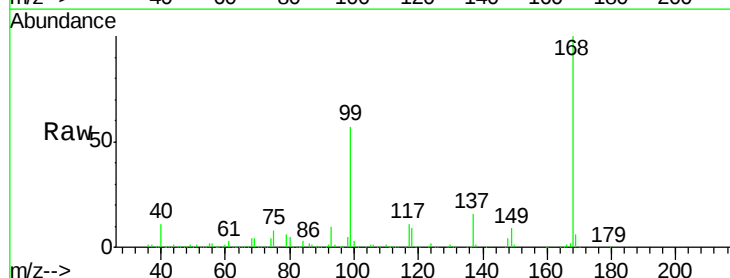
Tgt Ion:117 Resp: 29361

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

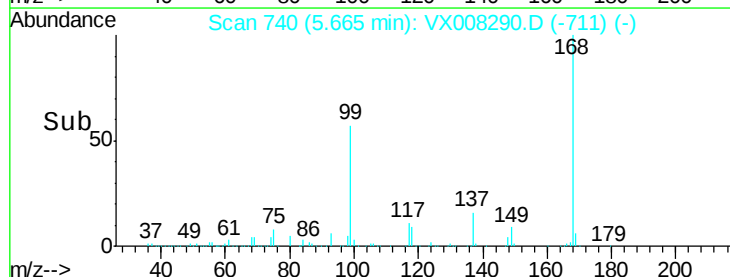
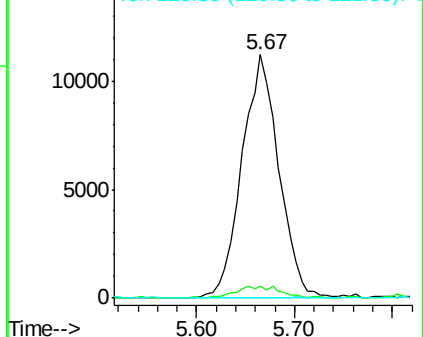
121 0.0 24.6 36.8#

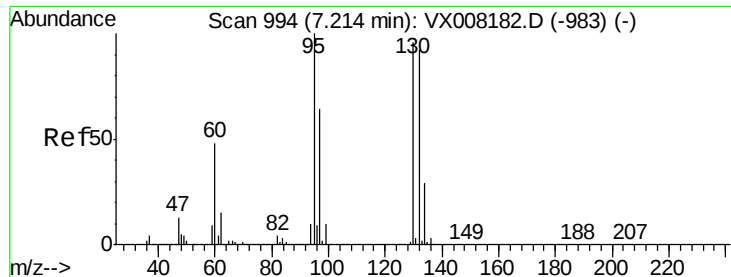


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.249 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

Instrument :

MSVOA\_X

ClientSampleId :

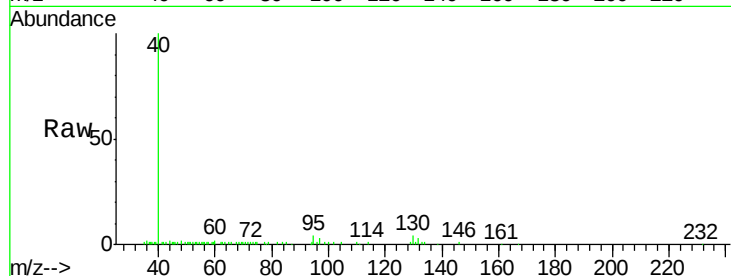
BP-TT-AOC22-MW04-20190314

Tot Ion:130 Resp: 1018

Ion Ratio Lower Upper

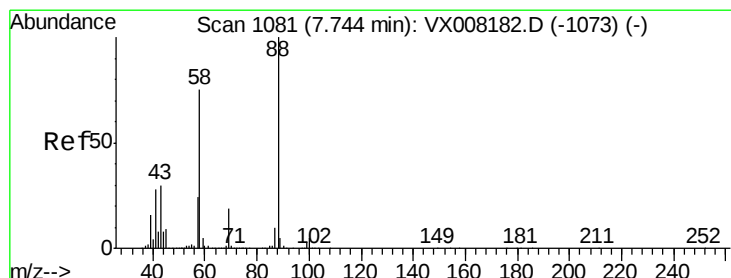
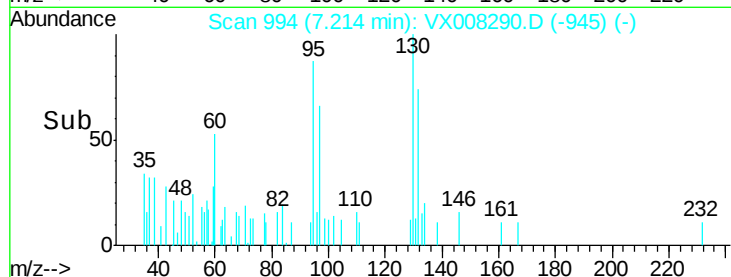
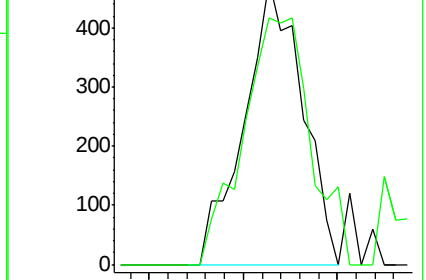
130 100

95 86.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.467 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

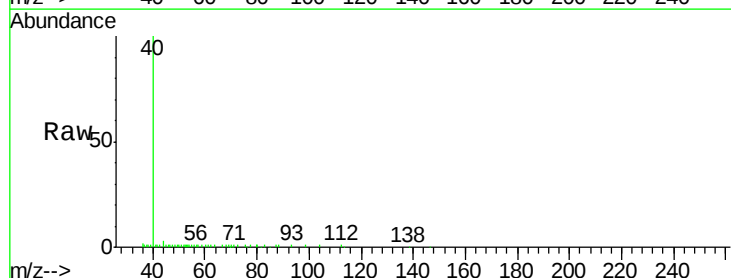
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 525.5 25.1 37.7#

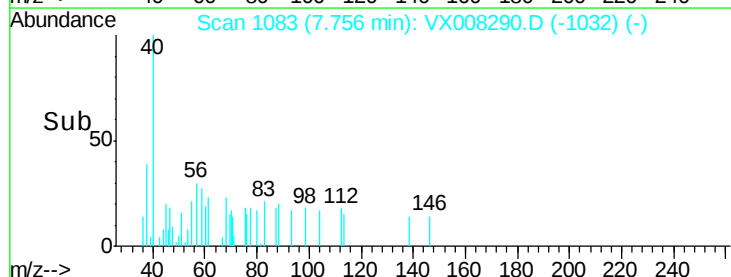
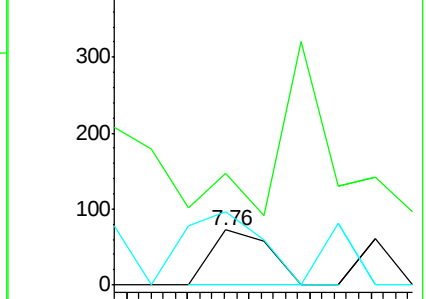
58 242.6 57.8 86.6#

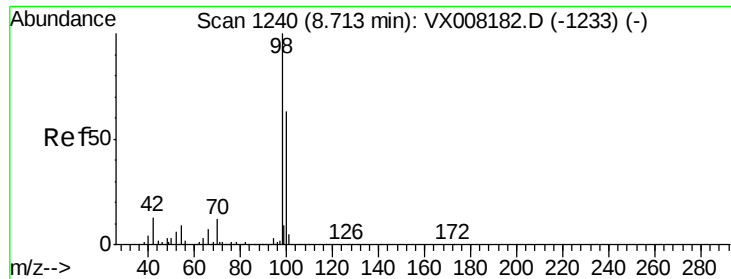


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.841 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008290.D

Acq: 21 Mar 2019 14:58

Instrument :

MSVOA\_X

ClientSampleId :

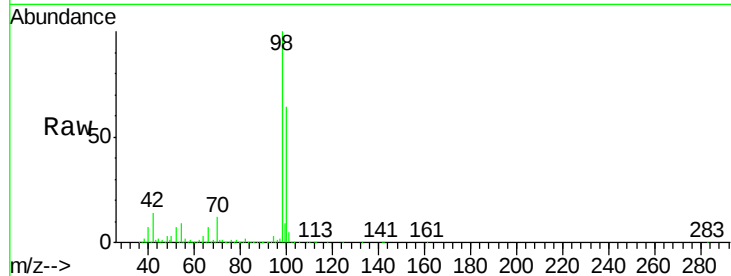
BP-TT-AOC22-MW04-20190314

Tot Ion: 98 Resp: 589810

Ion Ratio Lower Upper

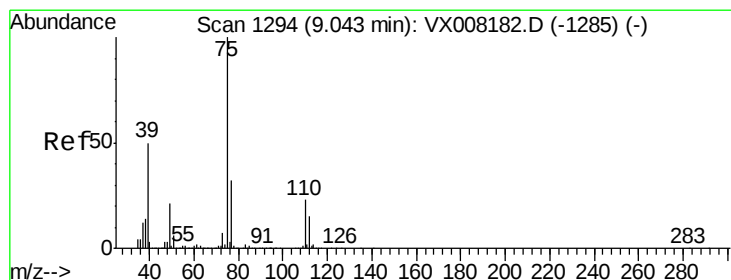
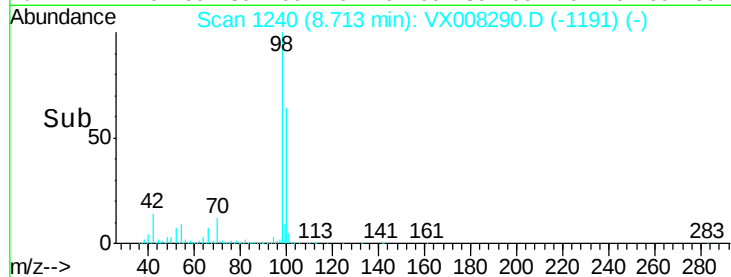
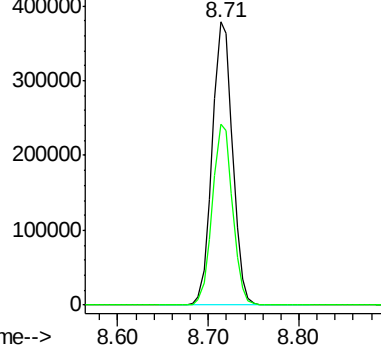
98 100

100 63.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 1.461 ug/l

RT: 9.03 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VX008290.D

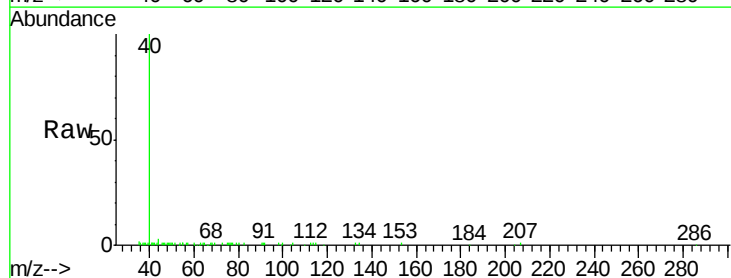
Acq: 21 Mar 2019 14:58

Tgt Ion: 75 Resp: 272

Ion Ratio Lower Upper

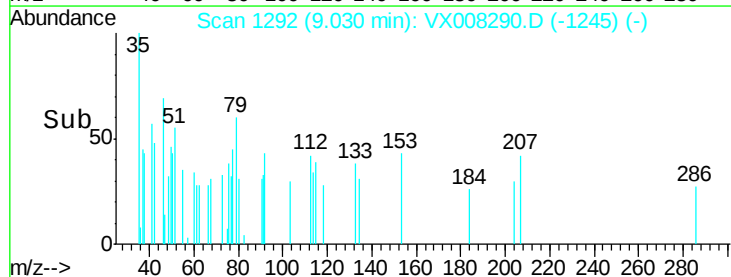
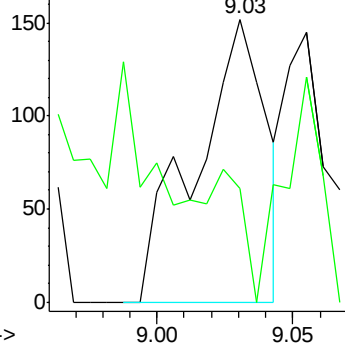
75 100

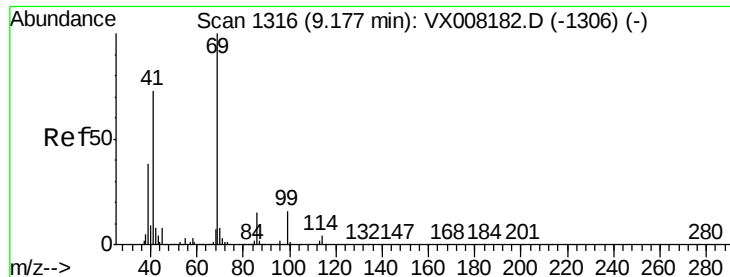
77 55.3 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

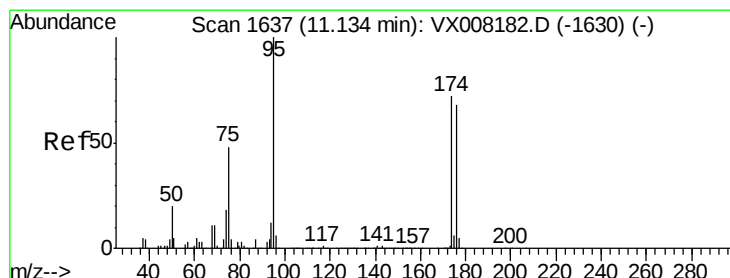
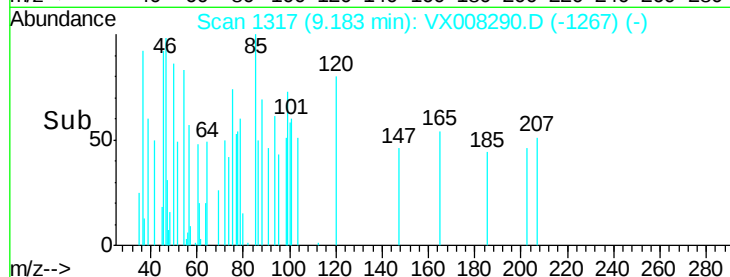
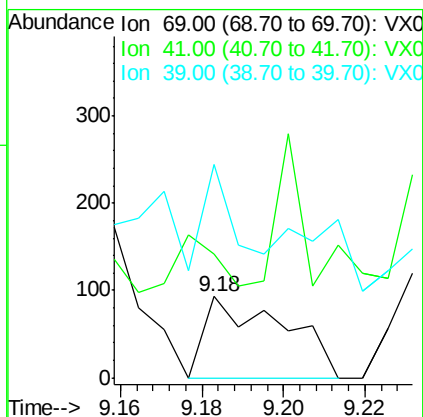
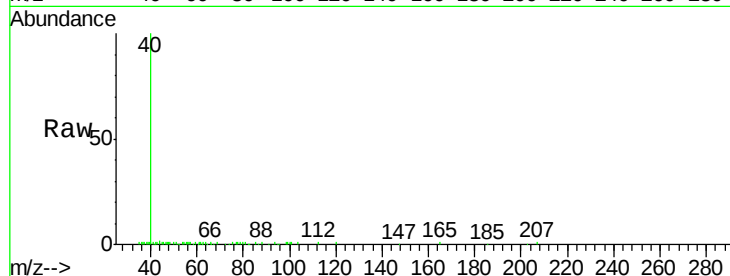




#56  
Ethyl methacrylate  
Concen: 0.543 ug/l  
RT: 9.18 min Scan# 1317  
Delta R.T. 0.01 min  
Lab File: VX008290.D  
Acq: 21 Mar 2019 14:58

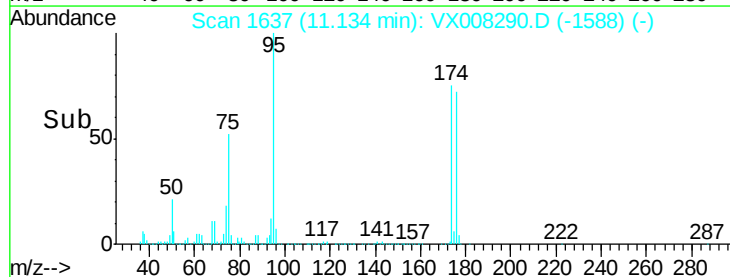
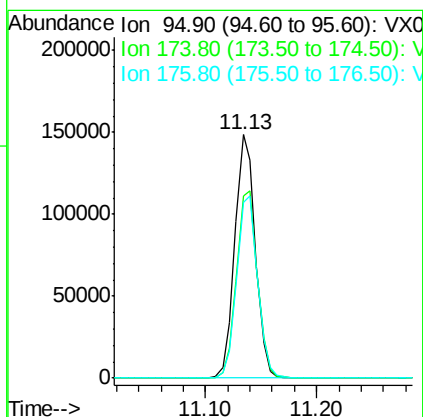
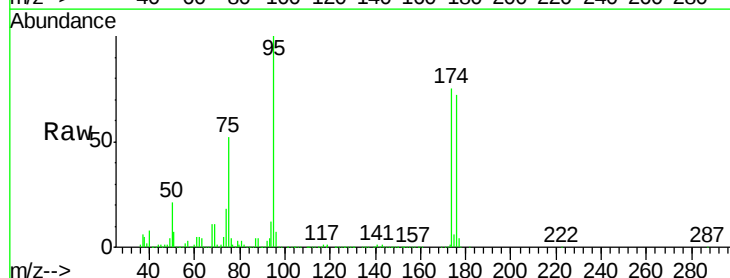
Instrument :  
MSVOA\_X  
ClientSampleID :  
BP-TT-AOC22-MW04-20190314

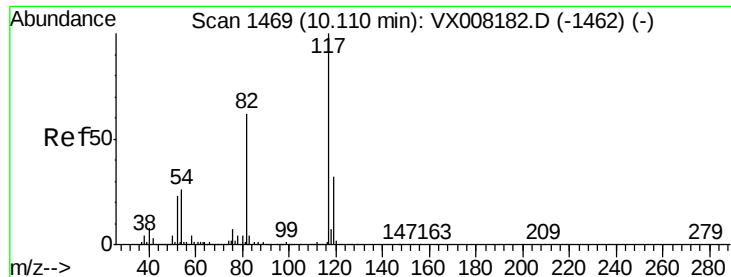
Tot Ion: 69 Resp: 125  
Ion Ratio Lower Upper  
69 100  
41 36.8 54.2 81.4#  
39 253.6 25.0 37.4#



#62  
4-Bromofluorobenzene  
Concen: 44.490 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008290.D  
Acq: 21 Mar 2019 14:58

Tgt Ion: 95 Resp: 188855  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 182.8  
176 76.7 0.0 178.0

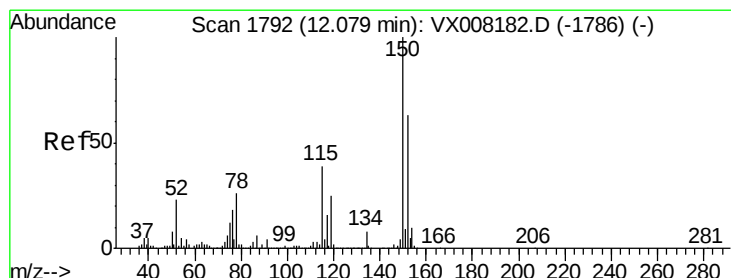
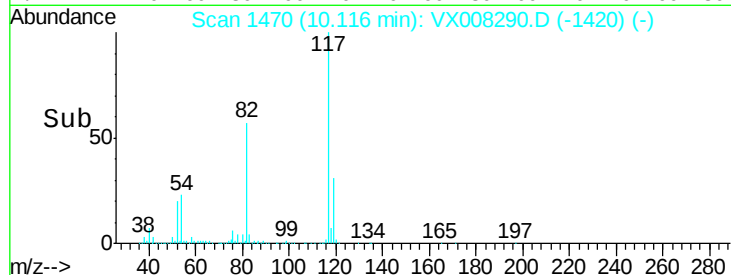
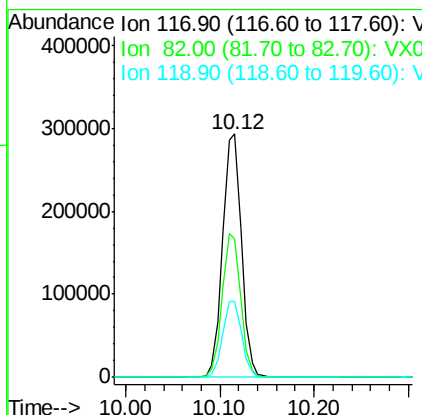
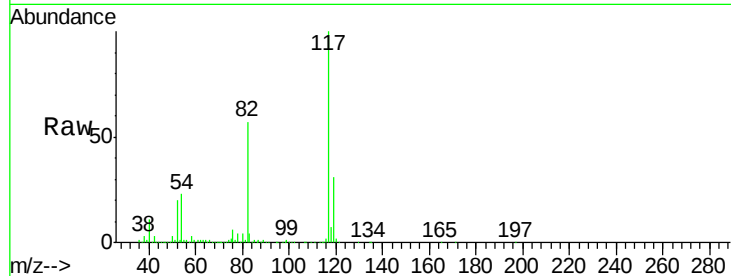




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX008290.D  
Acq: 21 Mar 2019 14:58

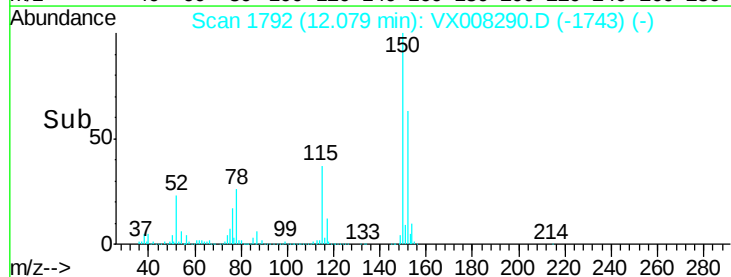
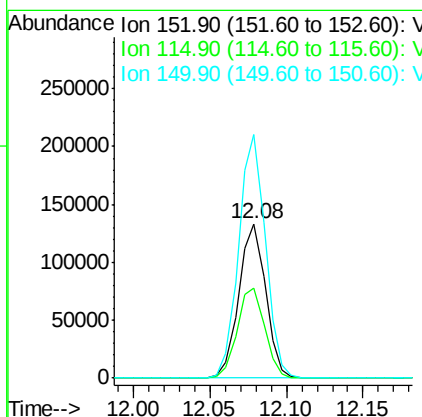
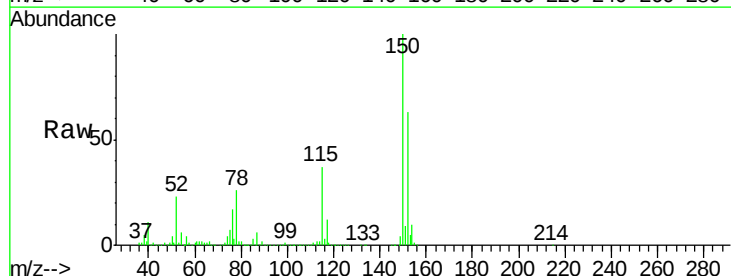
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-AOC22-MW04-20190314

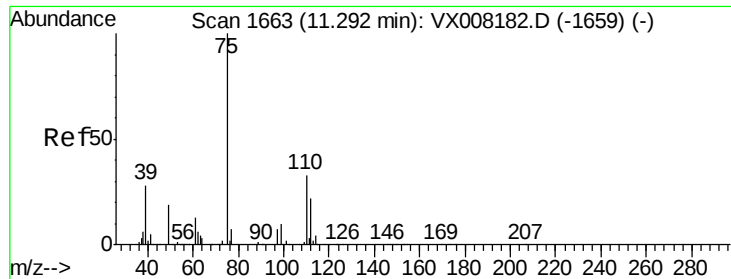
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.7  | 44.3  | 66.5  |
| 119     | 31.4  | 25.3  | 37.9  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX008290.D  
Acq: 21 Mar 2019 14:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.1  | 38.6  | 115.7 |
| 150     | 157.1 | 0.0   | 348.4 |

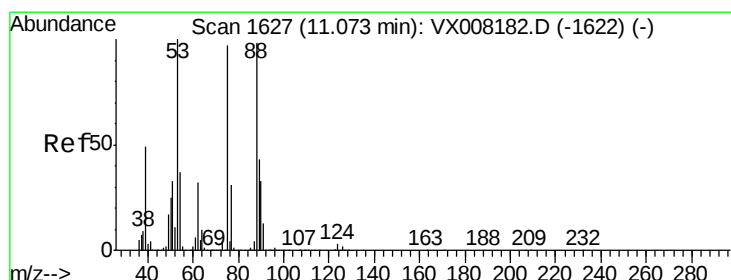
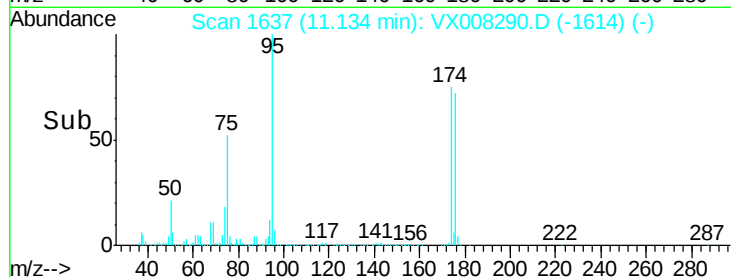
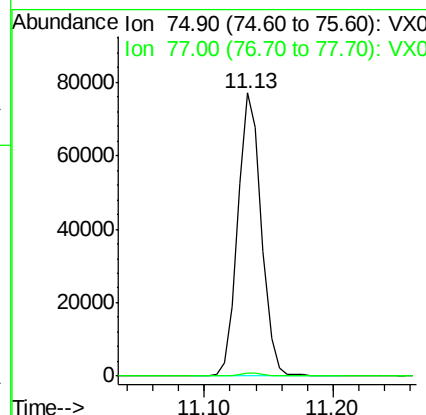
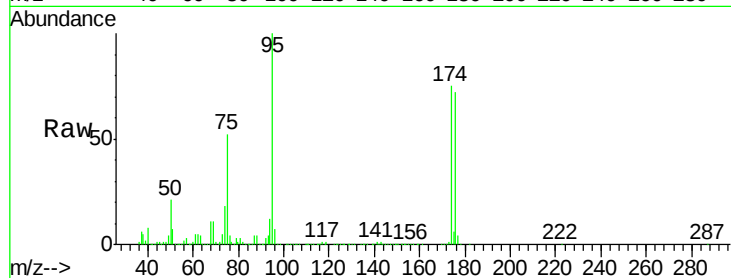




#76  
 1,2,3-Trichloropropane  
 Concen: 21.551 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX008290.D  
 Acq: 21 Mar 2019 14:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-AOC22-MW04-20190314

Tot Ion: 75 Resp: 98469  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 18.9 56.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 54.797 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX008290.D  
 Acq: 21 Mar 2019 14:58

Tgt Ion: 75 Resp: 98469  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 76.1 114.1#  
 89 0.0 36.3 54.5#

