

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022219\  
 Data File : VX007659.D  
 Acq On : 22 Feb 2019 14:56  
 Operator : JC/SP  
 Sample : K1570-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 10-10

Quant Time: Feb 23 00:32:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Feb 13 07:51:18 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.03  | 128  | 66766    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 331463   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 292146   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 133399   | 30.89    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 102.97% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 123826   | 27.62    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 92.07%  |
| 63) Toluene-d8            | 8.71   | 98    | 392804   | 29.75    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 99.17%  |

## Target Compounds

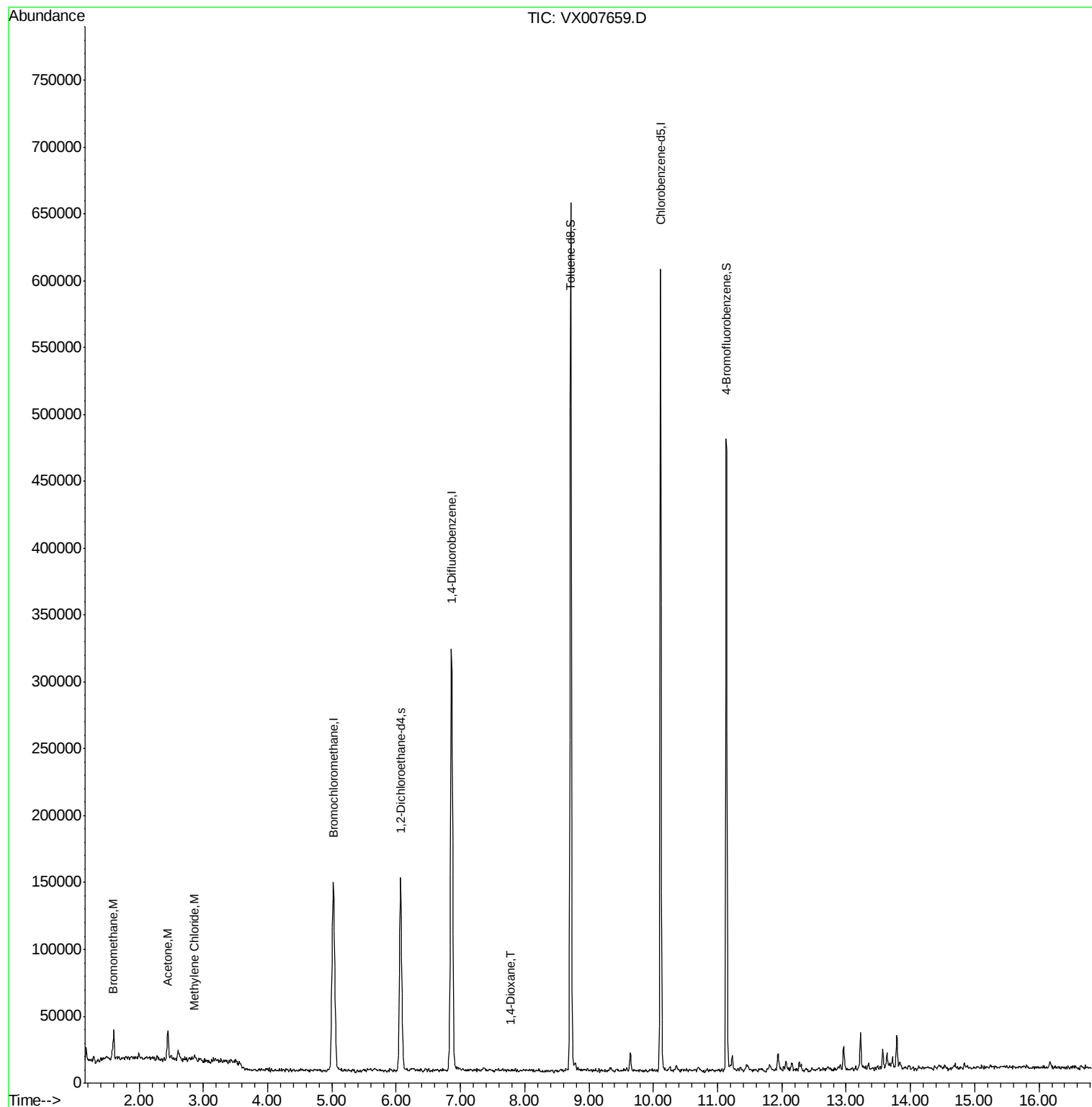
|                        |      |    |      |        | Ovalue |    |
|------------------------|------|----|------|--------|--------|----|
| 5) Bromomethane        | 1.59 | 94 | 903  | 0.242  | ug/l   | 94 |
| 15) Acetone            | 2.45 | 58 | 7412 | 11.718 | ug/l   | 99 |
| 18) Methylene Chloride | 2.86 | 84 | 1883 | 0.456  | ug/l # | 47 |
| 45) 1,4-Dioxane        | 7.78 | 88 | 64   | 0.670  | ug/l # | 1  |

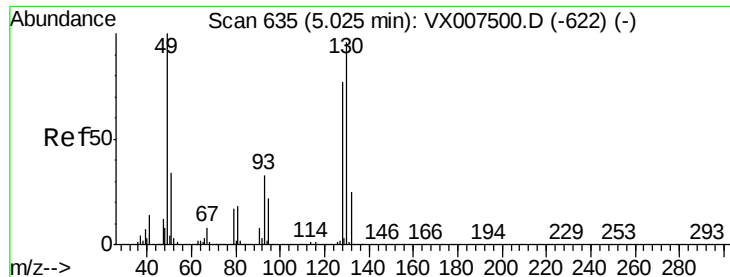
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 23 00:32:03 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Feb 13 07:51:18 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. -0.00 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

10-10

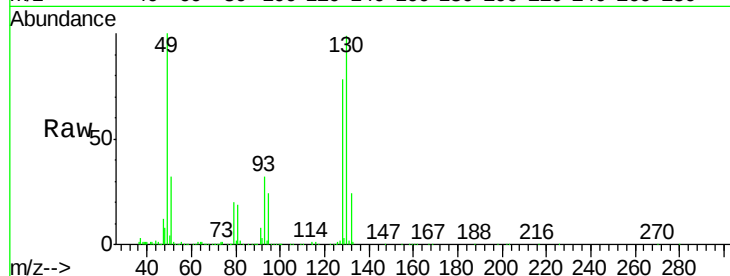
Tot Ion:128 Resp: 66766

Ion Ratio Lower Upper

128 100

49 135.4 0.0 350.8

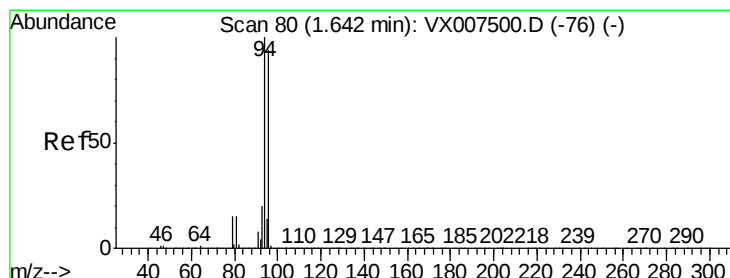
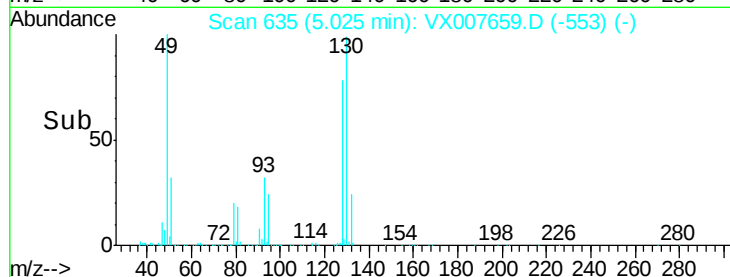
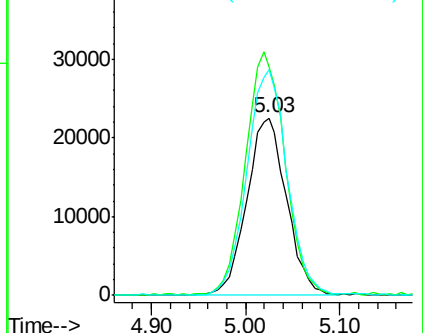
130 128.5 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.242 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.05 min

Lab File: VX007659.D

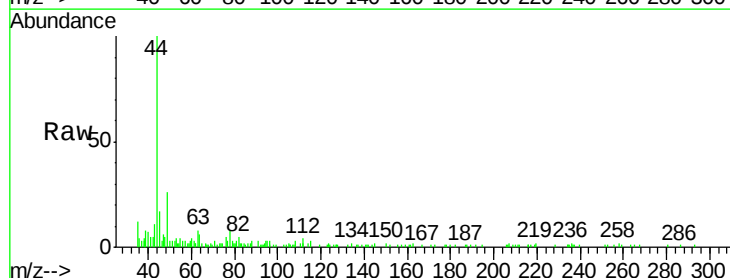
Acq: 22 Feb 2019 14:56

Tgt Ion: 94 Resp: 903

Ion Ratio Lower Upper

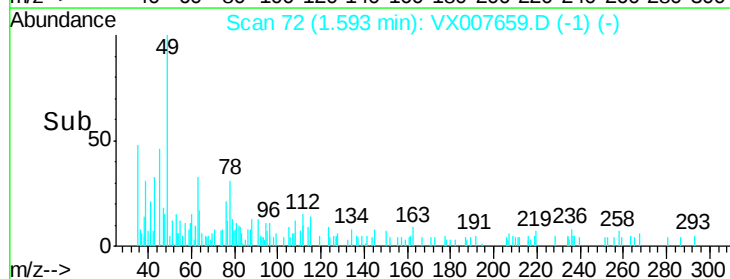
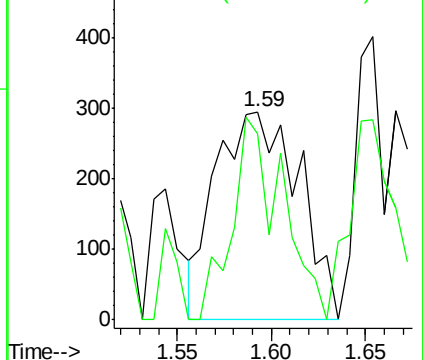
94 100

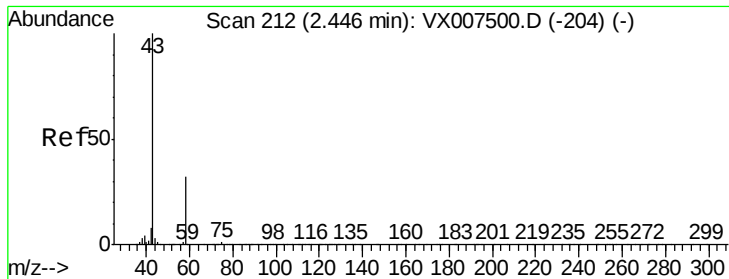
96 89.2 75.6 113.4



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#15

Acetone

Concen: 11.718 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

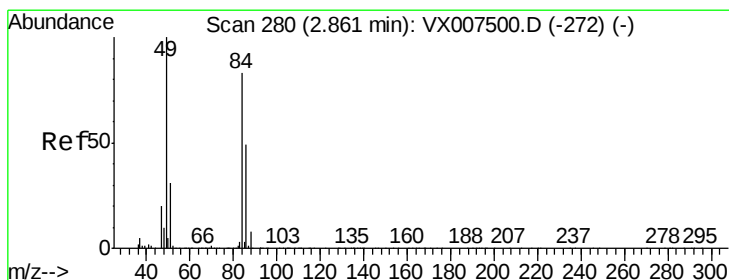
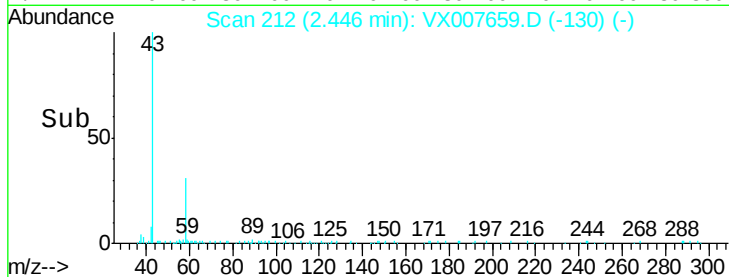
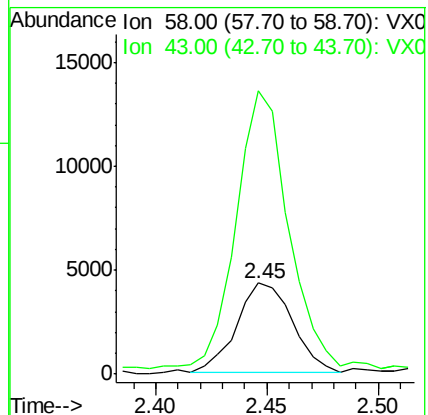
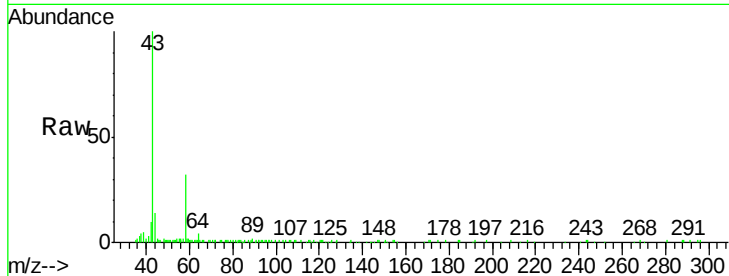
Instrument :  
MSVOA\_X  
ClientSampleId :  
10-10

Tot Ion: 58 Resp: 7412

Ion Ratio Lower Upper

58 100

43 309.9 249.8 374.6



#18

Methylene Chloride

Concen: 0.456 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

Tgt Ion: 84 Resp: 1883

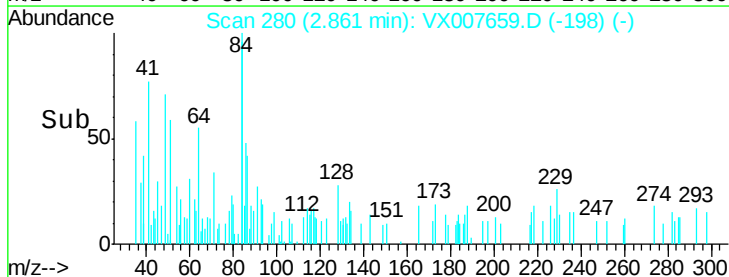
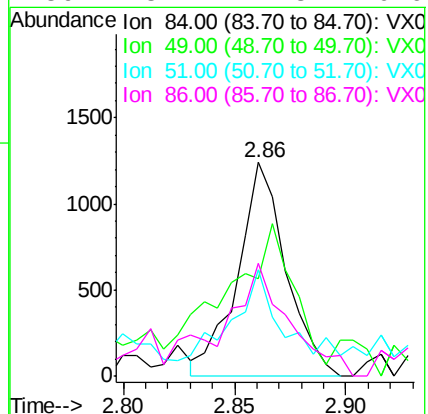
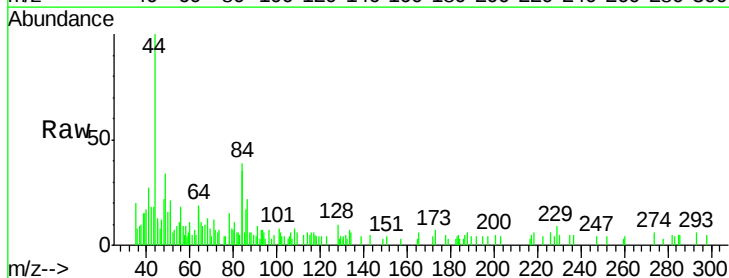
Ion Ratio Lower Upper

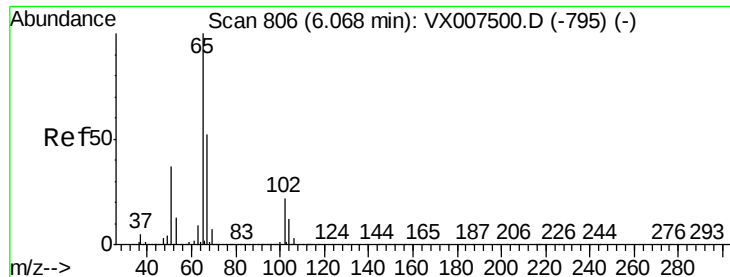
84 100

49 28.7 96.1 144.1#

51 40.3 29.1 43.7

86 43.2 47.3 70.9#





#27

1,2-Dichloroethane-d4

Concen: 30.887 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

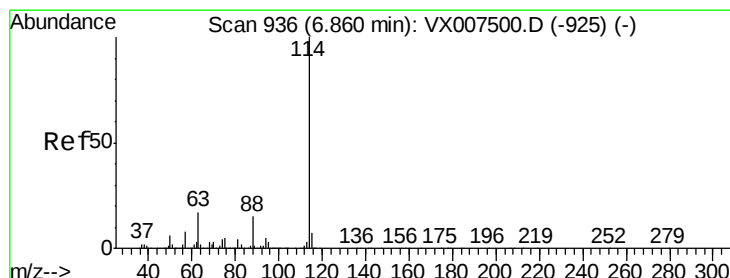
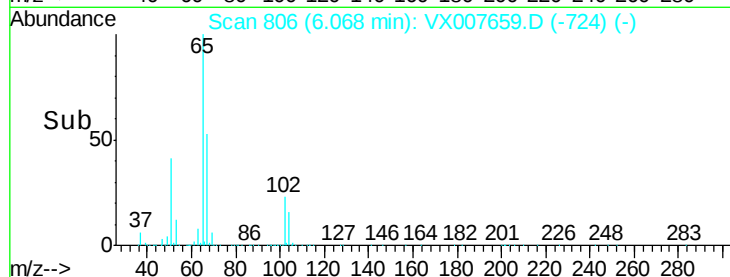
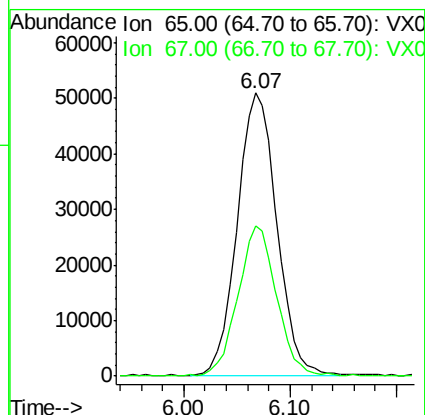
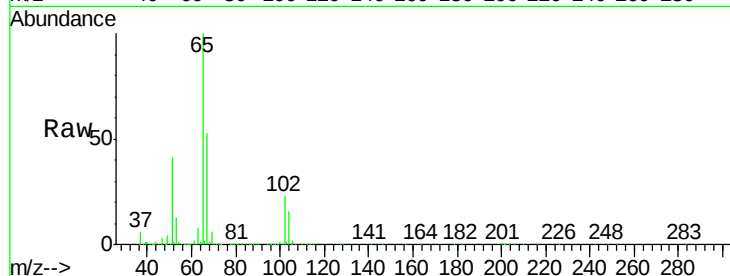
10-10

Tot Ion: 65 Resp: 133399

Ion Ratio Lower Upper

65 100

67 51.4 42.9 64.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

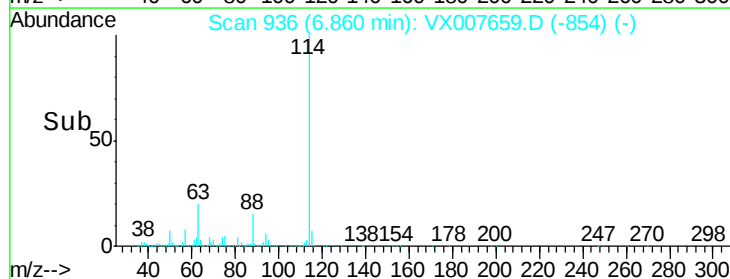
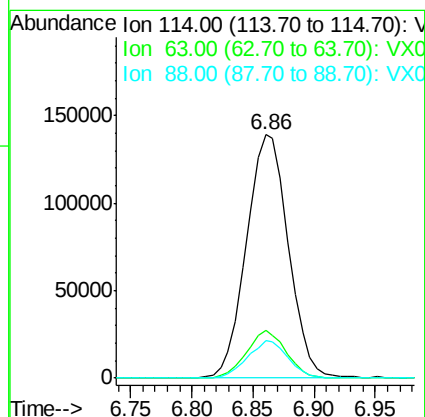
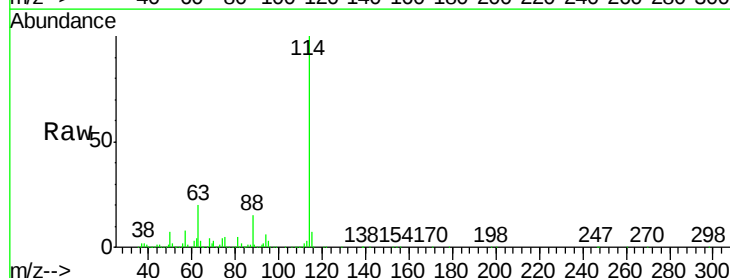
Tgt Ion: 114 Resp: 331463

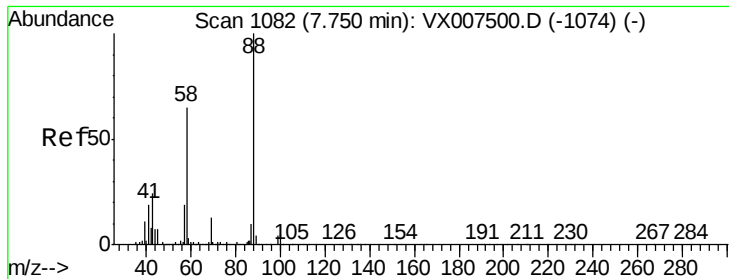
Ion Ratio Lower Upper

114 100

63 18.6 14.2 21.4

88 14.8 11.9 17.9





#45

1,4-Dioxane

Concen: 0.670 ug/l

RT: 7.78 min Scan# 1087

Delta R.T. 0.03 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

10-10

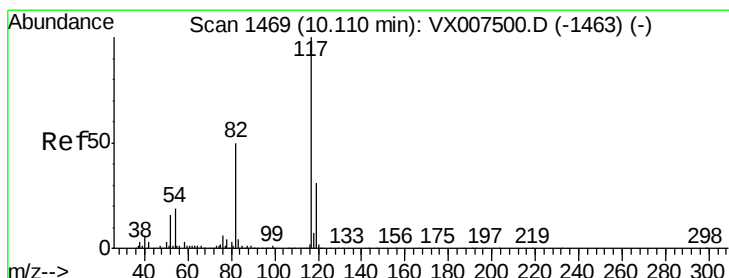
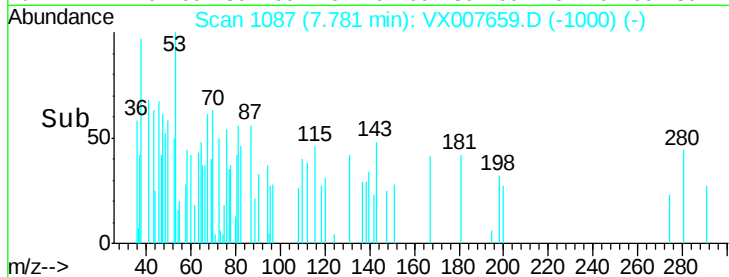
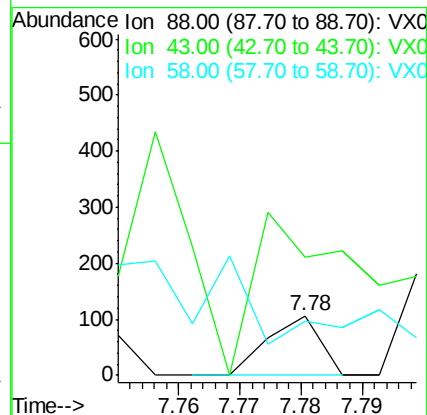
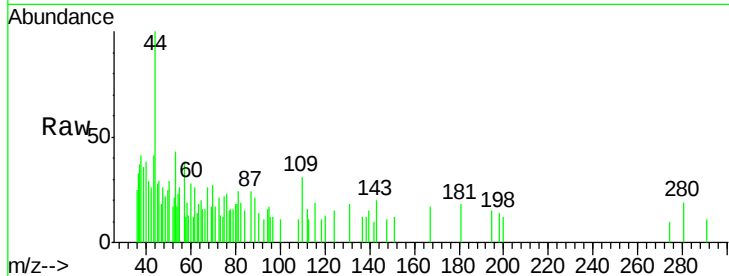
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 504.7 23.6 35.4#

58 90.6 51.6 77.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

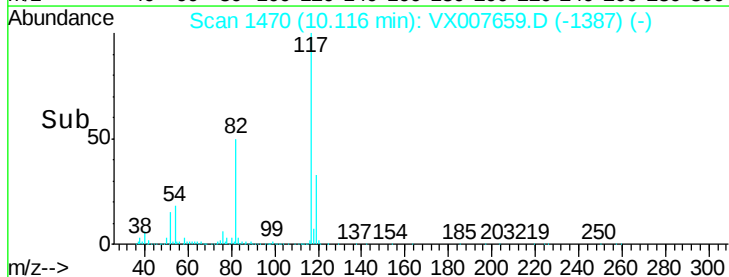
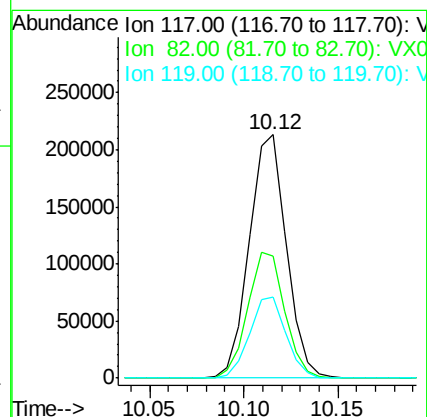
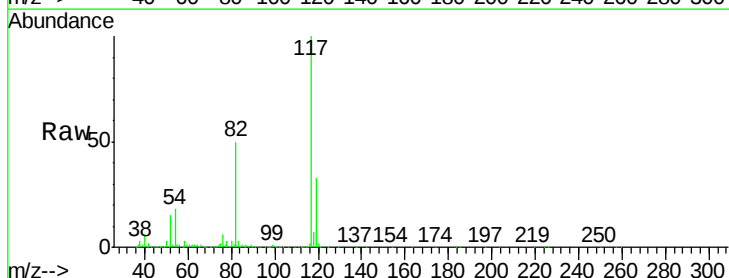
Tgt Ion: 117 Resp: 292146

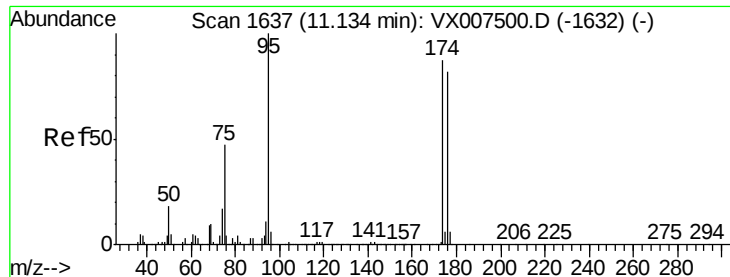
Ion Ratio Lower Upper

117 100

82 51.8 40.4 60.6

119 32.7 25.8 38.6





#60

4-Bromofluorobenzene

Concen: 27.616 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007659.D

Acq: 22 Feb 2019 14:56

Instrument :

MSVOA\_X

ClientSampleId :

10-10

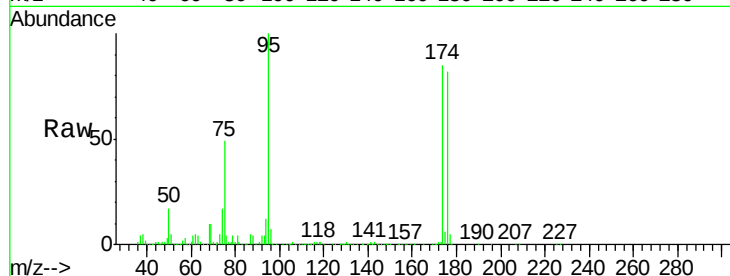
Tot Ion: 95 Resp: 123826

Ion Ratio Lower Upper

95 100

174 91.4 74.9 112.3

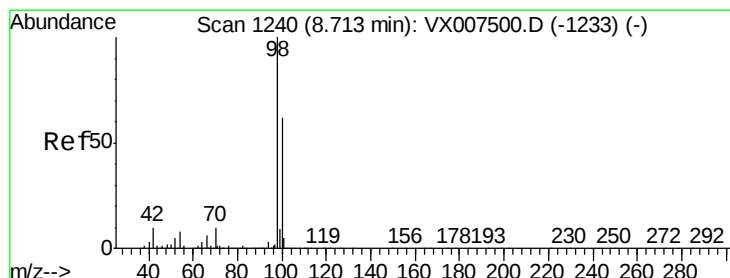
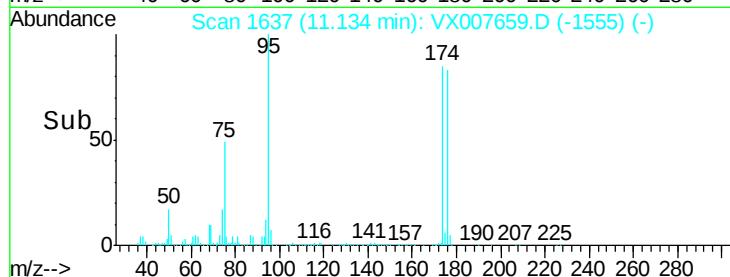
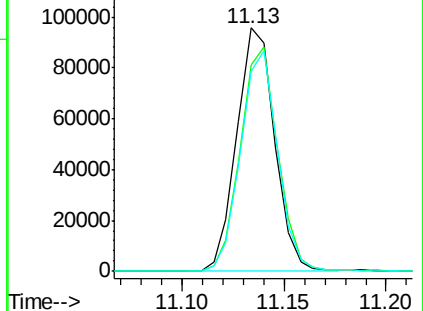
176 88.6 70.7 106.1



Abundance Ion 95.00 (94.70 to 95.70): VX007500.D (-1632) (-)

Ion 174.00 (173.70 to 174.70): VX007500.D (-1632) (-)

Ion 176.00 (175.70 to 176.70): VX007500.D (-1632) (-)



#63

Toluene-d8

Concen: 29.748 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007659.D

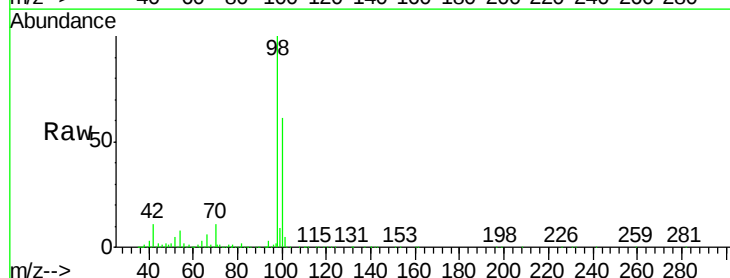
Acq: 22 Feb 2019 14:56

Tgt Ion: 98 Resp: 392804

Ion Ratio Lower Upper

98 100

100 62.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX007500.D (-1233) (-)

Ion 100.00 (99.70 to 100.70): VX007500.D (-1233) (-)

