

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121318\  
 Data File : VX006487.D  
 Acq On : 13 Dec 2018 11:13  
 Operator : JC/MD  
 Sample : VX1213WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1213WBL01

Quant Time: Dec 14 00:11:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 670972   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1050432  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 946724   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 454619   | 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   | 349782   | 51.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.14% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 316763   | 46.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.16%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1219275  | 49.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.58%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 449569   | 48.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.46%  |          |

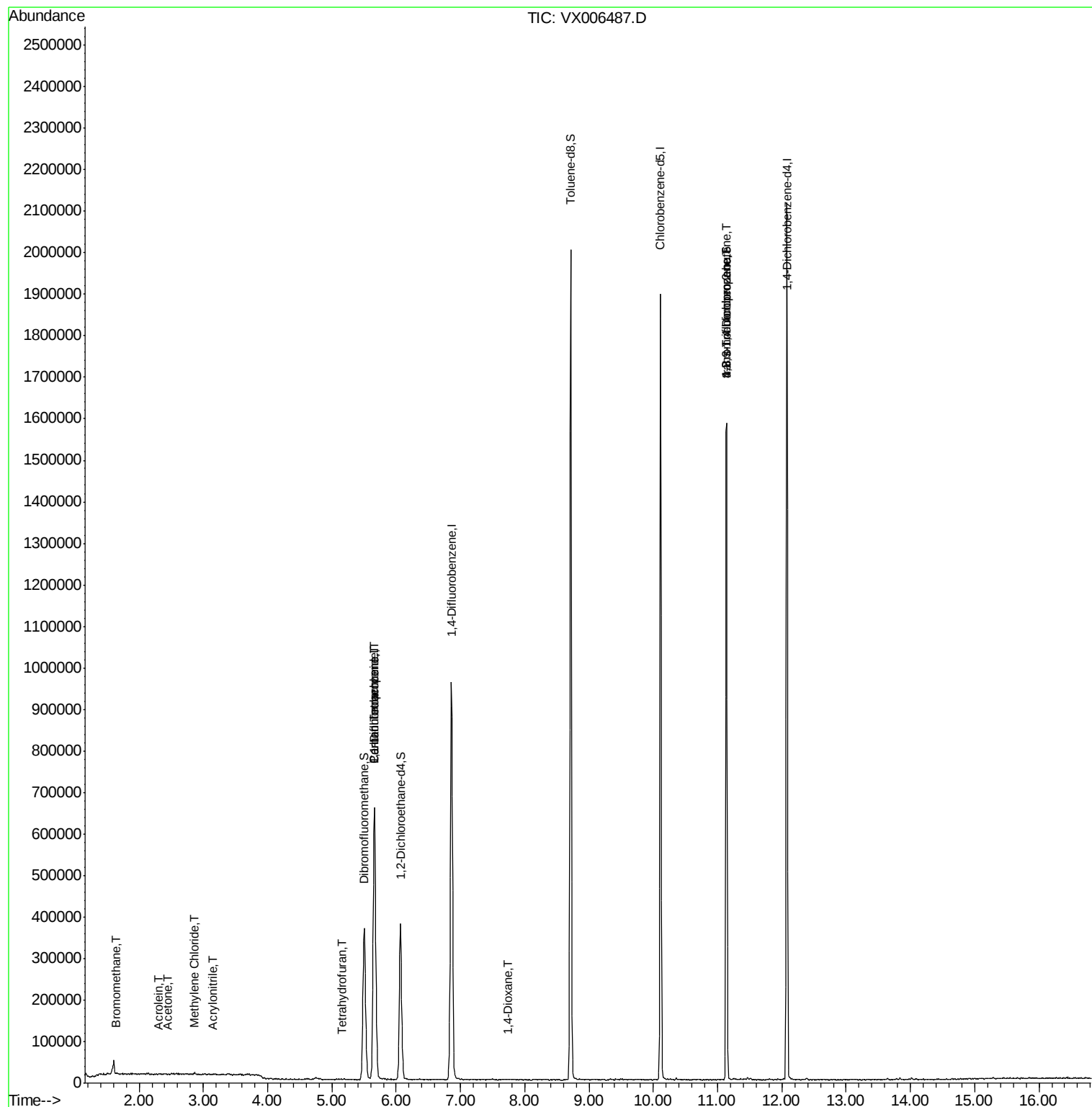
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 1533     | 0.304  | ug/l # | 68     |
| 13) Acrolein                   | 2.29  | 56   | 799      | 0.780  | ug/l   | 85     |
| 15) Acrylonitrile              | 3.15  | 53   | 1853     | 0.474  | ug/l # | 52     |
| 16) Acetone                    | 2.45  | 43   | 1572     | 0.489  | ug/l # | 58     |
| 20) Methylene Chloride         | 2.86  | 84   | 1824     | 0.267  | ug/l # | 91     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 927      | 0.291  | ug/l # | 50     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 40860    | 4.619  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 63592    | 6.111  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 259      | 1.308  | ug/l # | 37     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 203201   | 23.157 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 203201   | 54.343 | ug/l # | 15     |

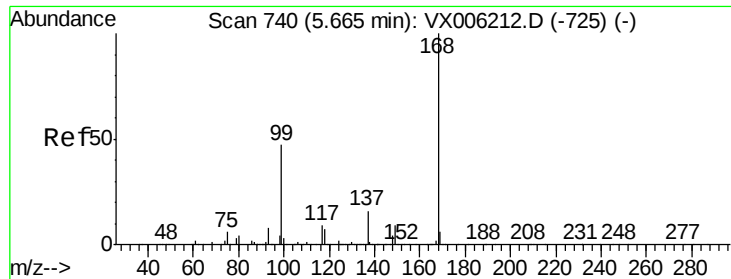
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 30 03:55:33 2018  
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: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

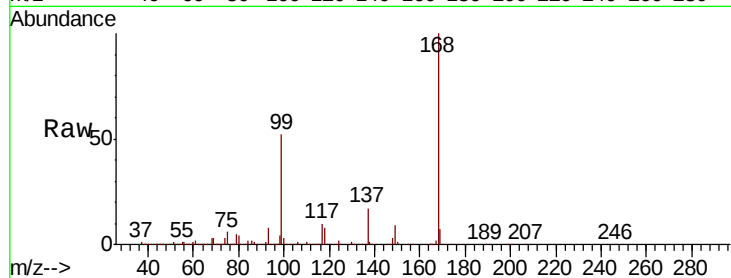
VX1213WBL01

Tot Ion:168 Resp: 670972

Ion Ratio Lower Upper

168 100

99 52.0 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

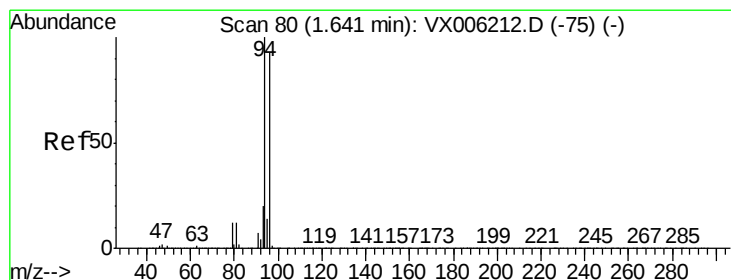
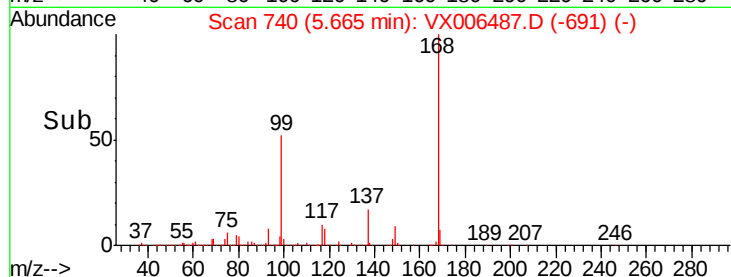
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.304 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006487.D

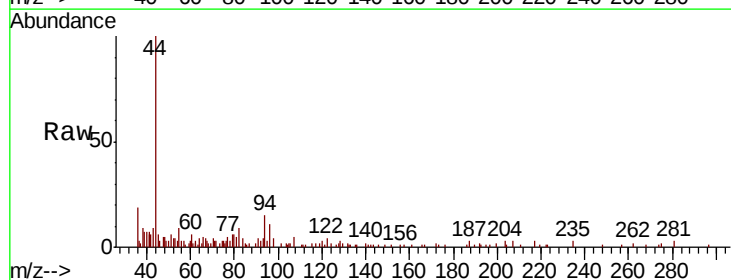
Acq: 13 Dec 2018 11:13

Tgt Ion: 94 Resp: 1533

Ion Ratio Lower Upper

94 100

96 62.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

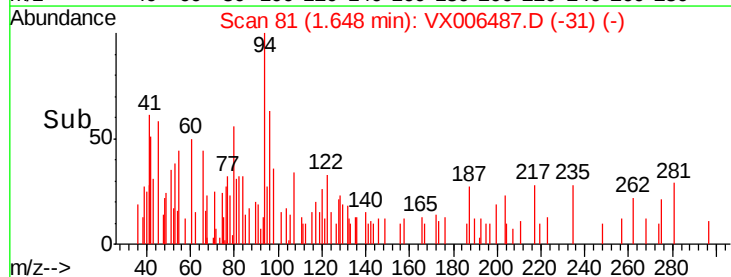
600

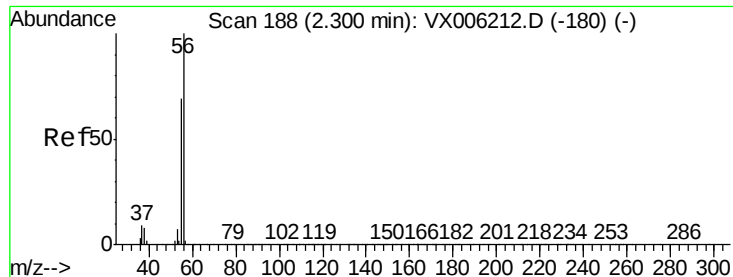
400

200

0

Time--> 1.60 1.65 1.70





#13

Acrolein

Concen: 0.780 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

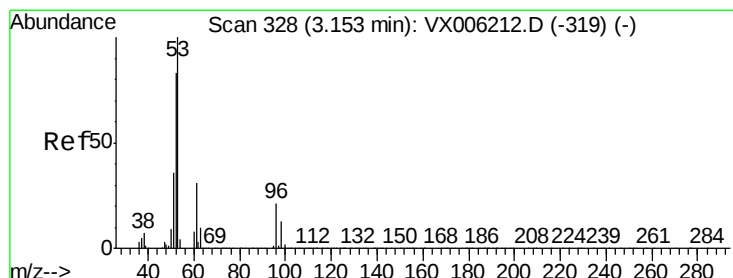
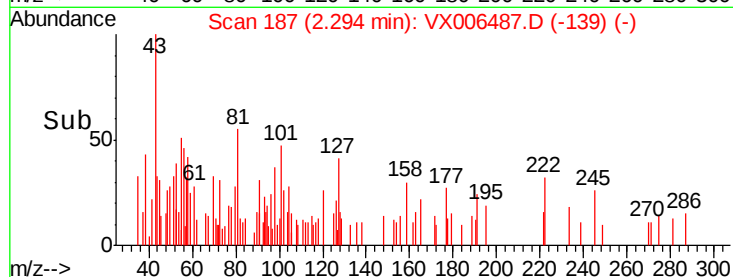
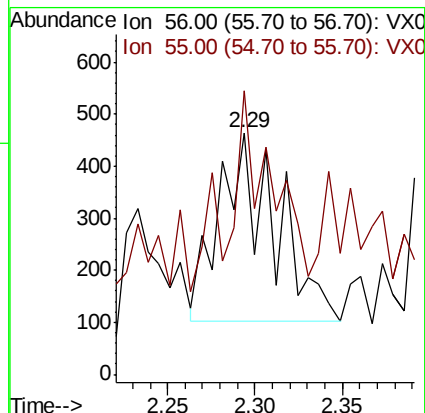
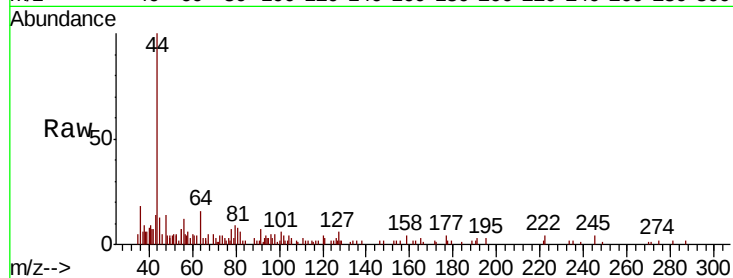
VX1213WBL01

Tot Ion: 56 Resp: 799

Ion Ratio Lower Upper

56 100

55 59.8 57.8 86.6



#15

Acrylonitrile

Concen: 0.474 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

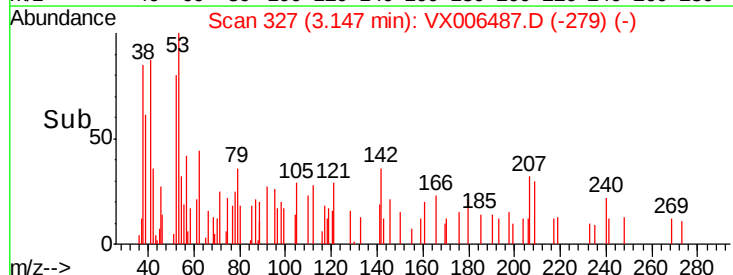
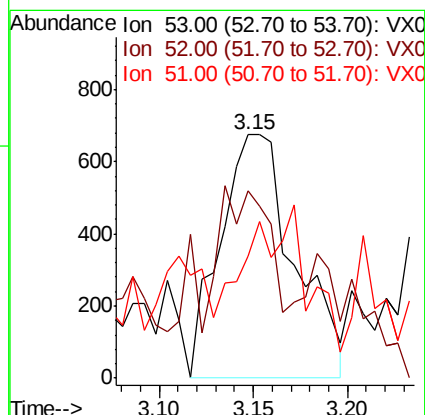
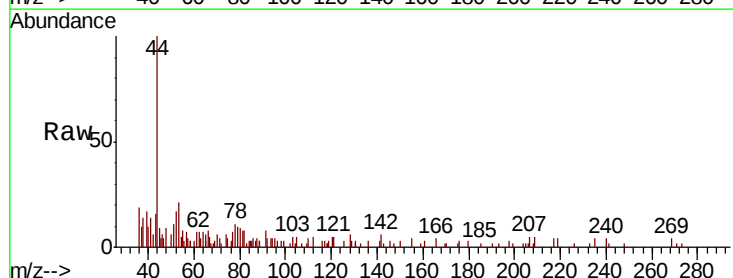
Tgt Ion: 53 Resp: 1853

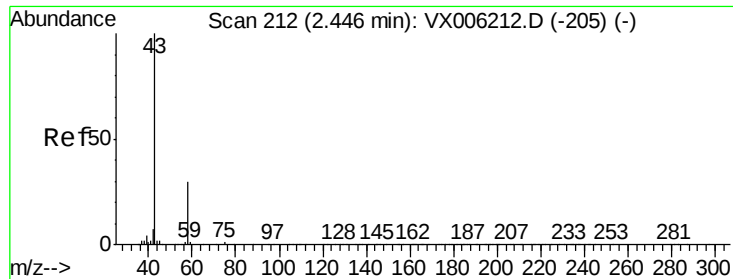
Ion Ratio Lower Upper

53 100

52 45.3 66.2 99.4#

51 0.0 28.7 43.1#





#16

Acetone

Concen: 0.489 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

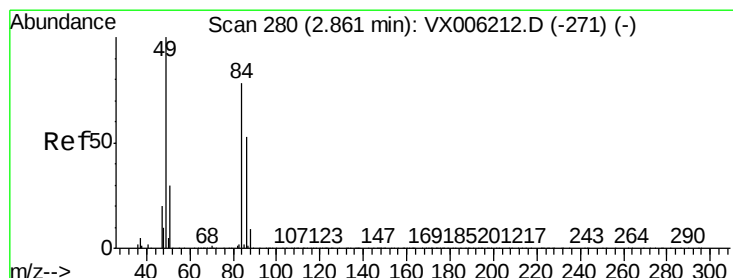
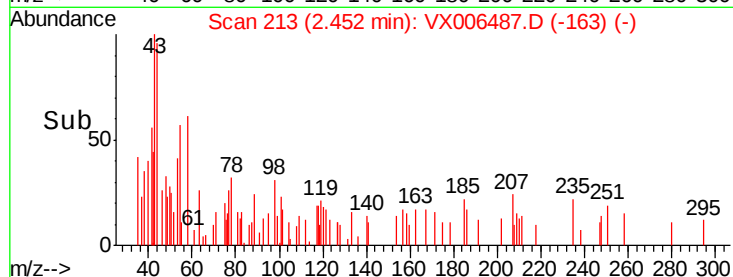
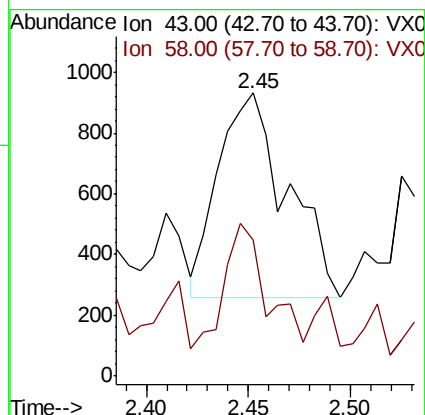
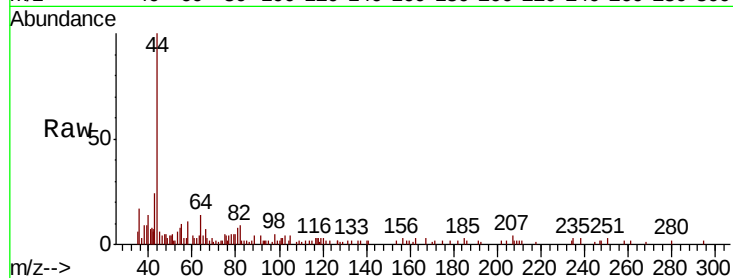
VX1213WBL01

Tot Ion: 43 Resp: 1572

Ion Ratio Lower Upper

43 100

58 52.8 24.0 36.0#



#20

Methylene Chloride

Concen: 0.267 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Tgt Ion: 84 Resp: 1824

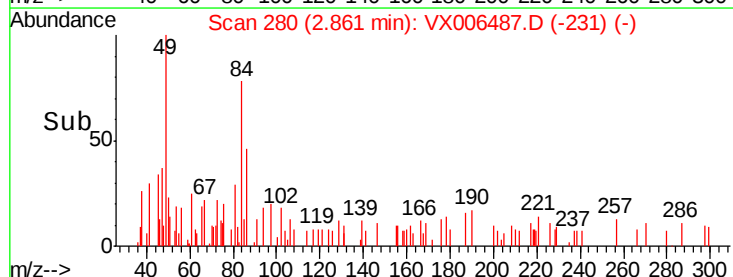
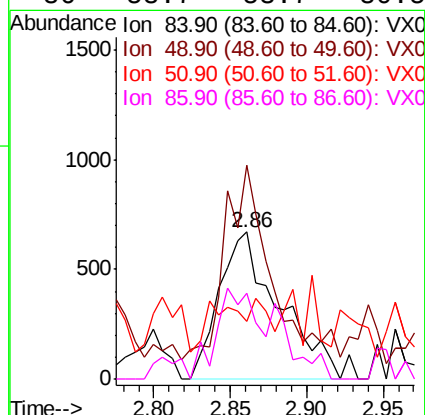
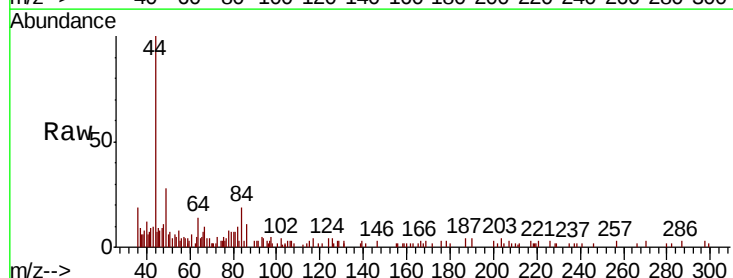
Ion Ratio Lower Upper

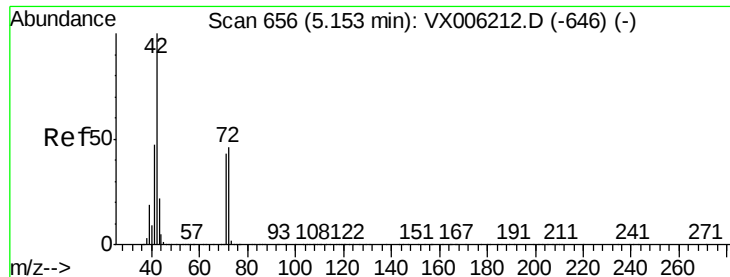
84 100

49 130.9 102.2 153.4

51 20.9 31.1 46.7#

86 58.7 53.7 80.5

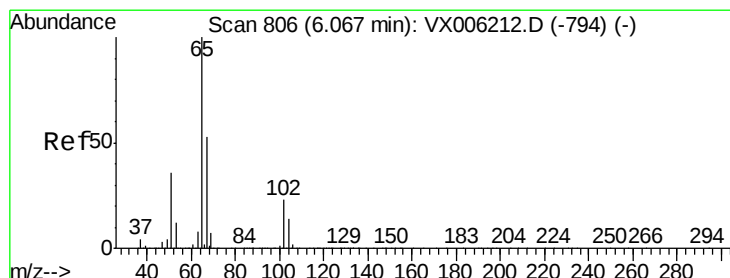
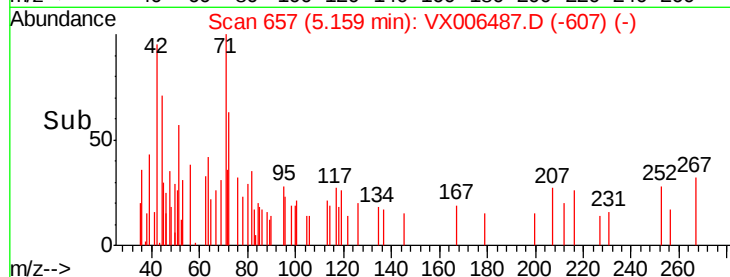
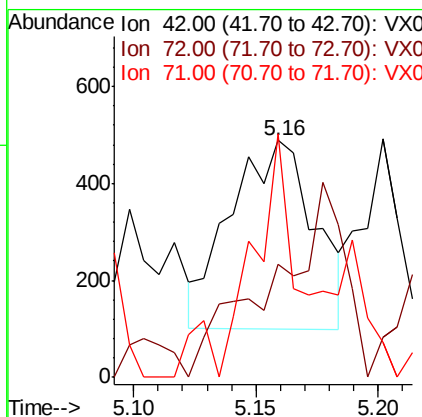
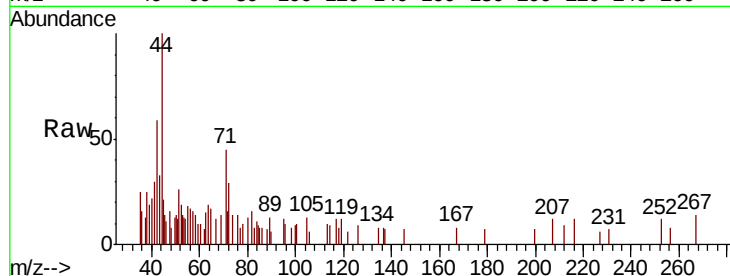




#29  
Tetrahydrofuran  
Concen: 0.291 ug/l  
RT: 5.16 min Scan# 657  
Delta R.T. 0.01 min  
Lab File: VX006487.D  
Acq: 13 Dec 2018 11:13

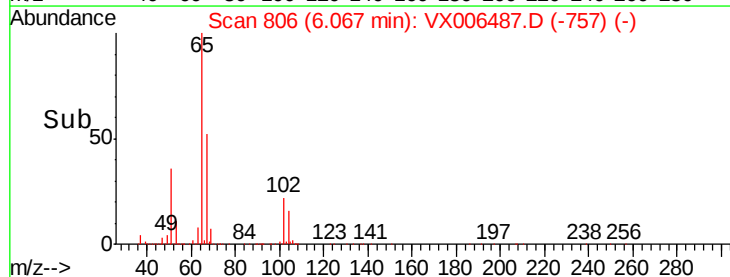
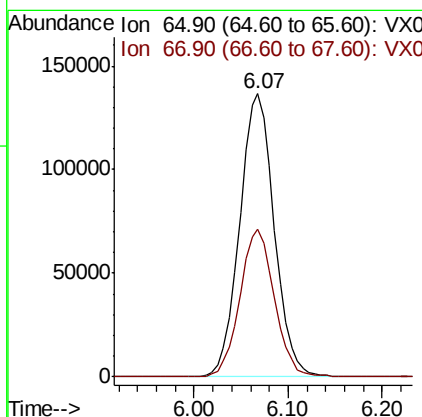
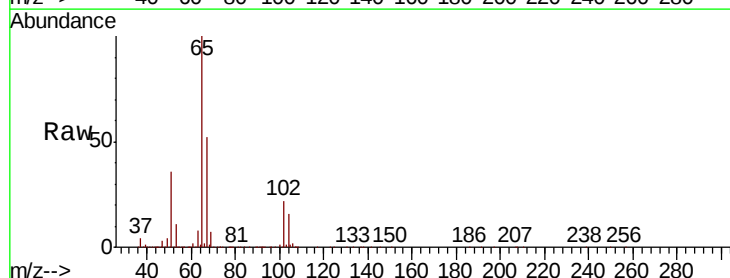
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1213WBL01

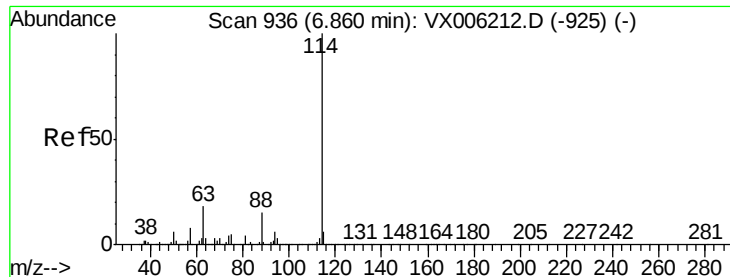
Tot Ion: 42 Resp: 927  
Ion Ratio Lower Upper  
42 100  
72 89.1 37.8 56.8#  
71 67.2 35.2 52.8#



#33  
1,2-Dichloroethane-d4  
Concen: 51.066 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX006487.D  
Acq: 13 Dec 2018 11:13

Tgt Ion: 65 Resp: 349782  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX1213WBL01

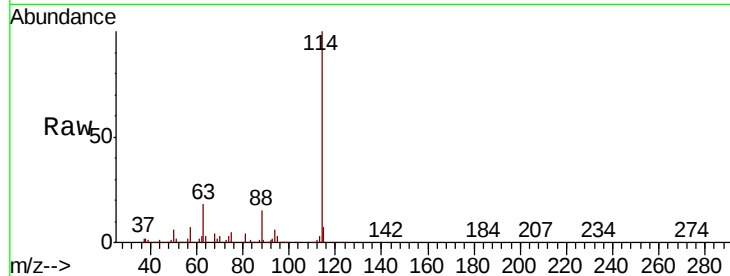
Tot Ion:114 Resp: 1050432

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.6

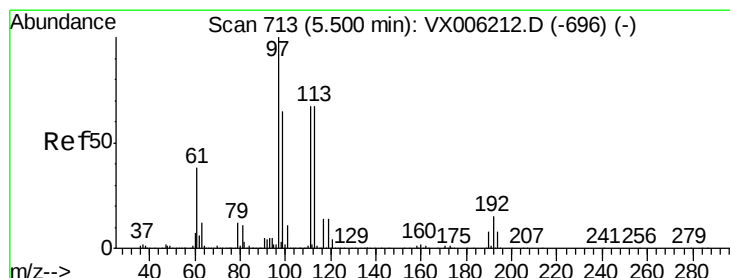
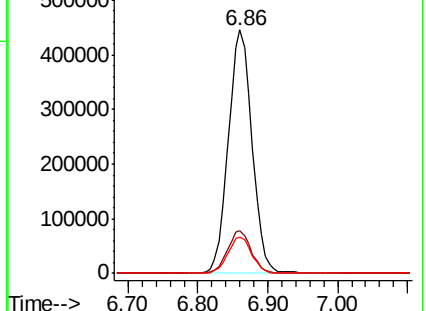
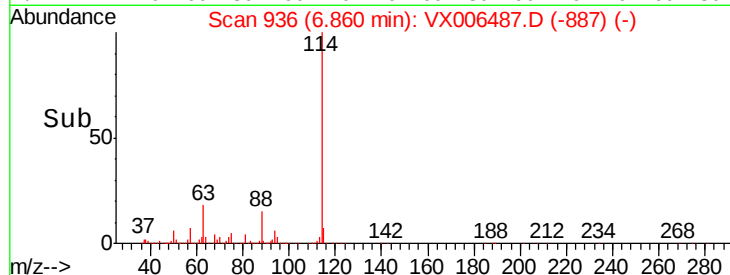
88 15.0 0.0 29.0



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: 46.575 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

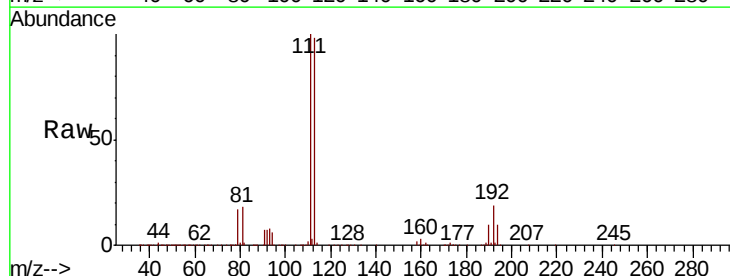
Tgt Ion:113 Resp: 316763

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

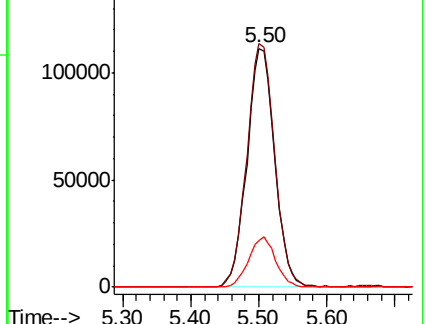
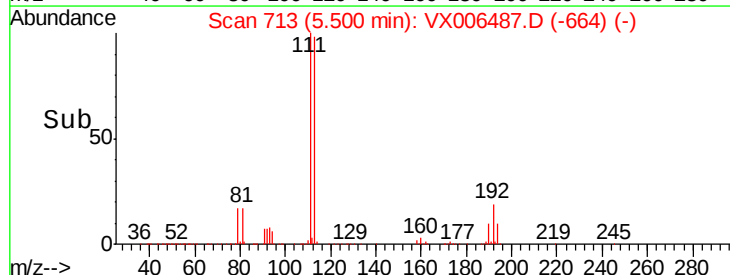
192 20.6 18.2 27.2

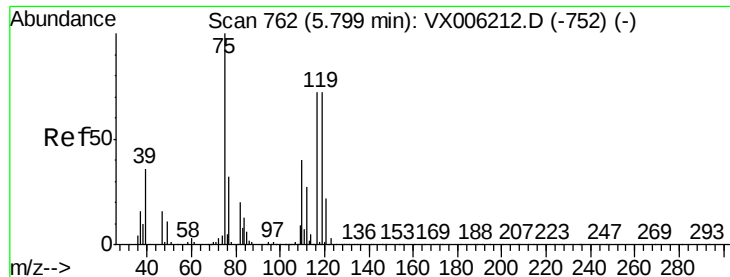


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.619 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX1213WBL01

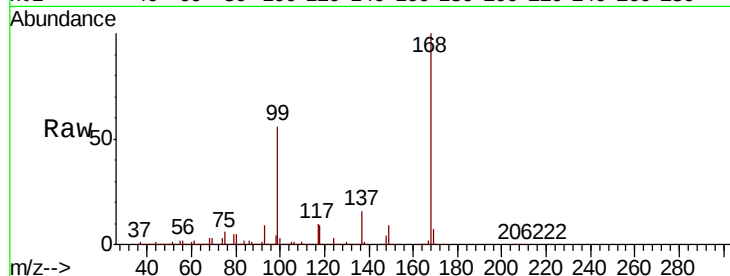
Tot Ion: 75 Resp: 40860

Ion Ratio Lower Upper

75 100

110 10.7 20.4 61.3#

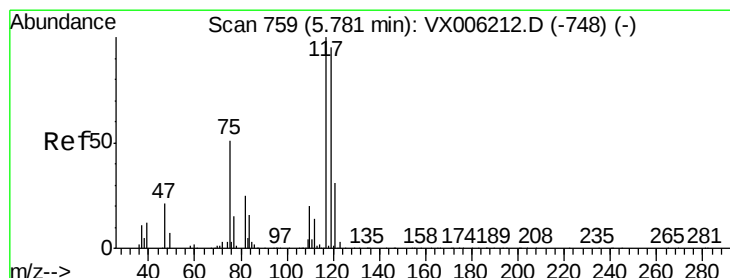
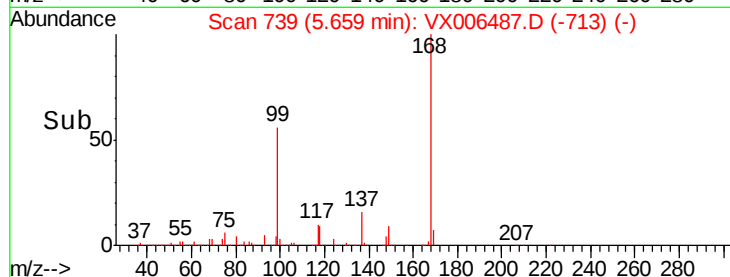
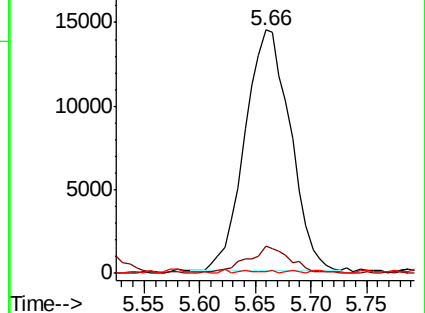
77 0.3 24.9 37.3#



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: 6.111 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

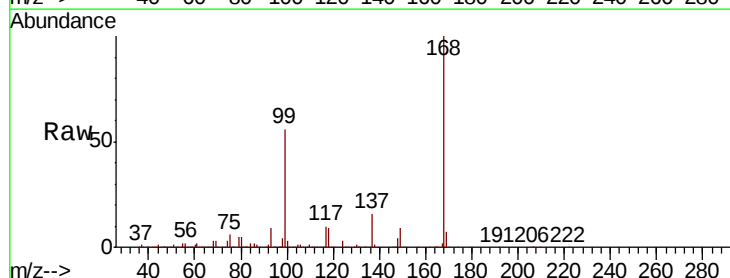
Tgt Ion: 117 Resp: 63592

Ion Ratio Lower Upper

117 100

119 4.2 75.8 113.8#

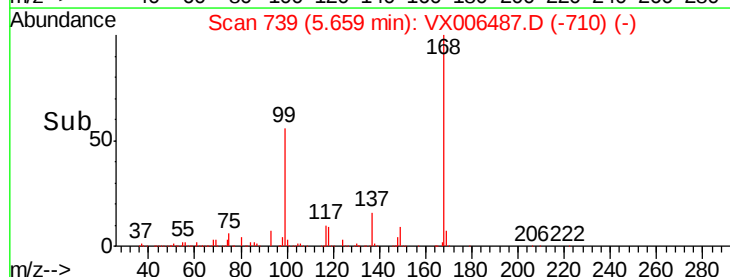
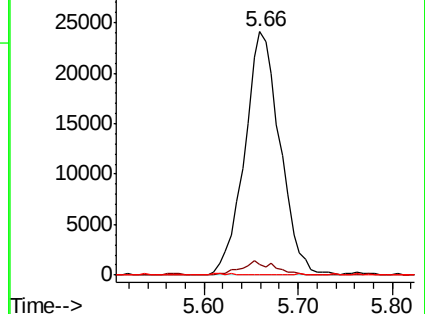
121 0.0 24.6 37.0#

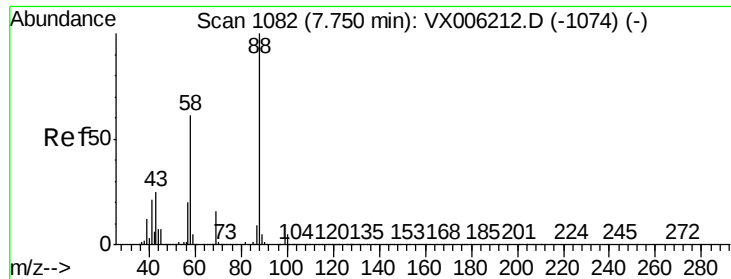


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

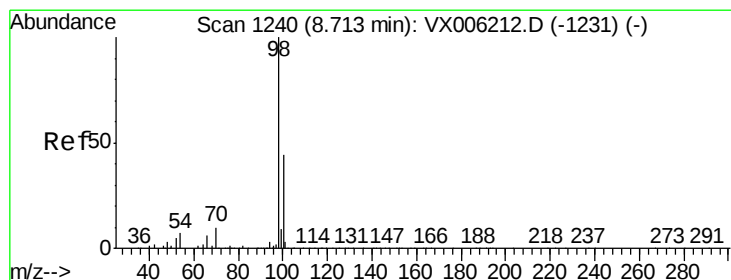
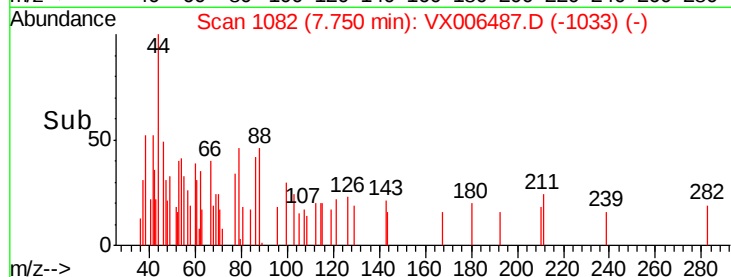
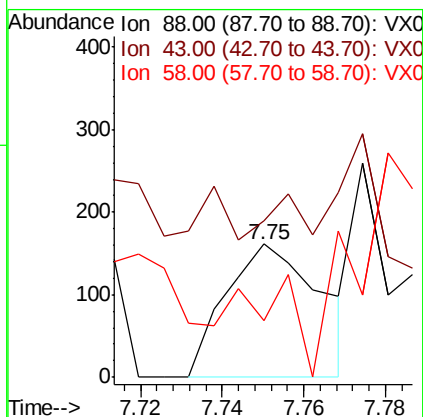
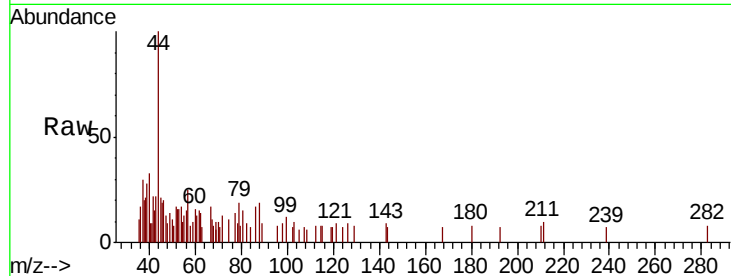




#49  
1,4-Dioxane  
Concen: 1.308 ug/l  
RT: 7.75 min Scan# 1082  
Delta R.T. 0.00 min  
Lab File: VX006487.D  
Acq: 13 Dec 2018 11:13

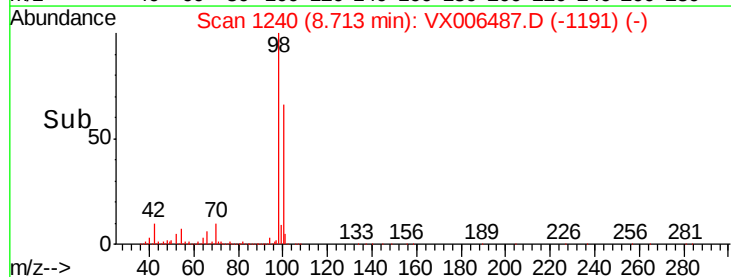
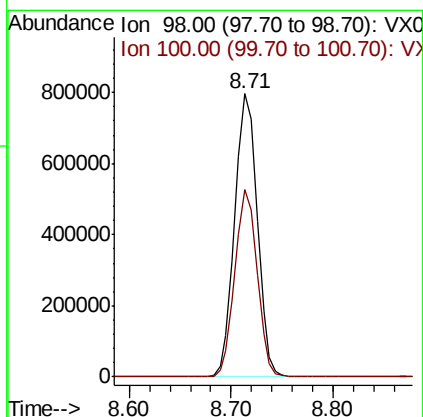
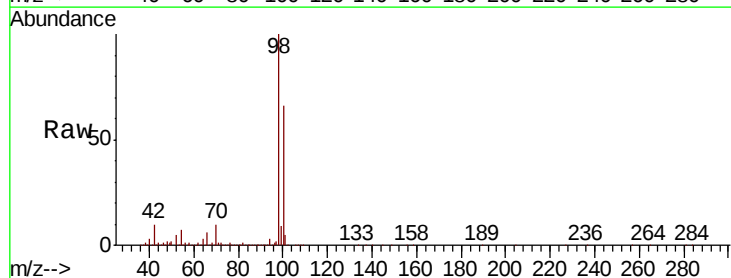
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1213WBL01

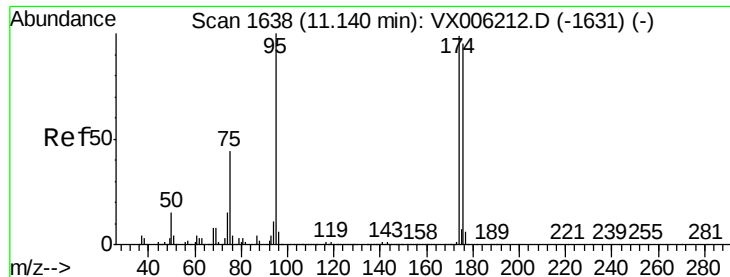
Tot Ion: 88 Resp: 259  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.2 34.8#  
58 11.6 51.4 77.0#



#50  
Toluene-d8  
Concen: 49.286 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006487.D  
Acq: 13 Dec 2018 11:13

Tgt Ion: 98 Resp: 1219275  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.2 78.2





#62

4-Bromofluorobenzene

Concen: 48.226 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX1213WBL01

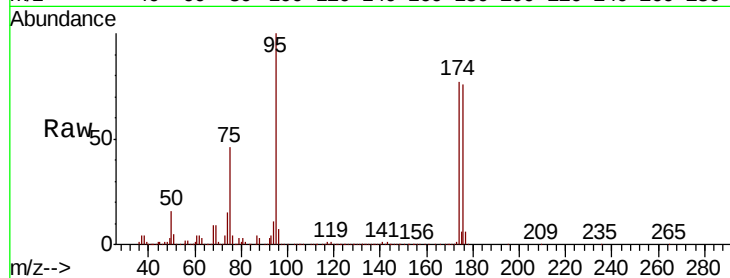
Tot Ion: 95 Resp: 449569

Ion Ratio Lower Upper

95 100

174 86.1 0.0 187.0

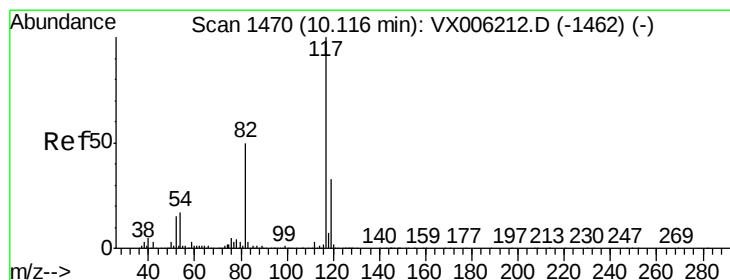
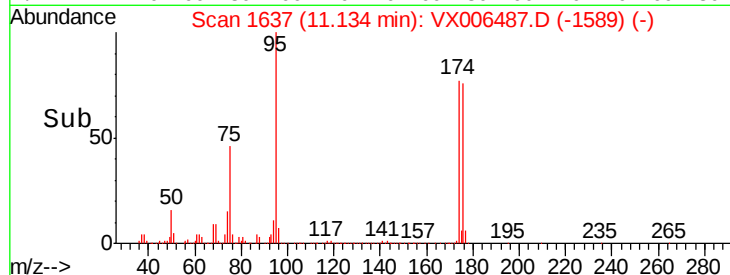
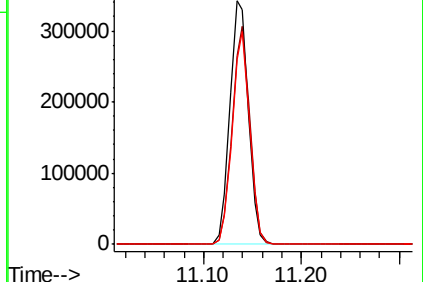
176 82.9 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006212.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006212.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006212.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

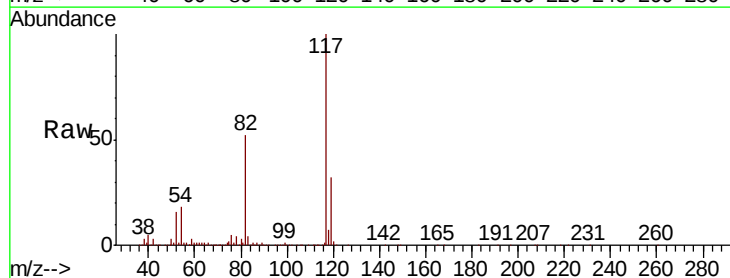
Tgt Ion: 117 Resp: 946724

Ion Ratio Lower Upper

117 100

82 52.1 39.6 59.4

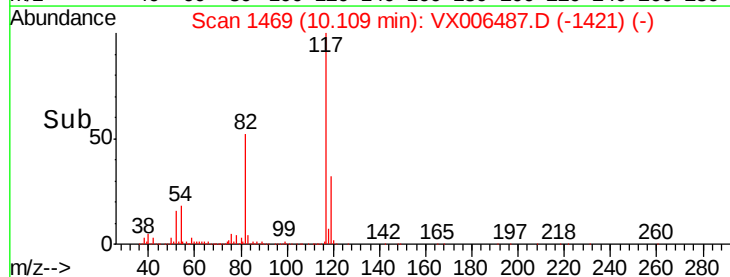
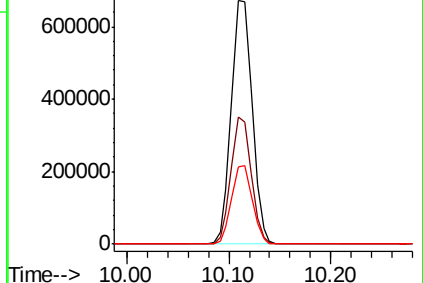
119 31.9 26.3 39.5

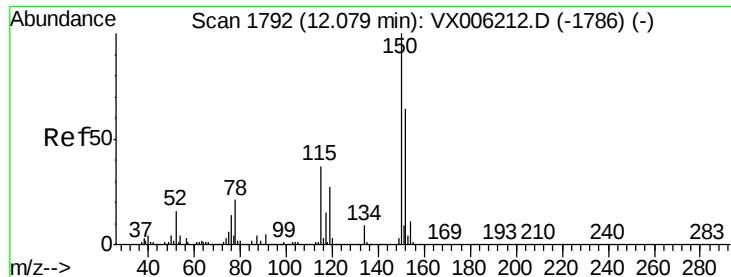


Abundance Ion 116.90 (116.60 to 117.60): VX006212.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006212.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006212.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX1213WBL01

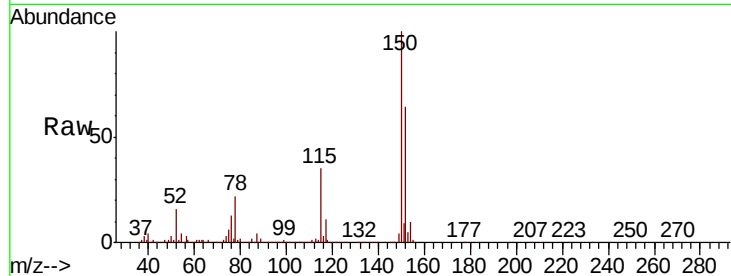
Tot Ion:152 Resp: 454619

Ion Ratio Lower Upper

152 100

115 55.9 39.0 116.9

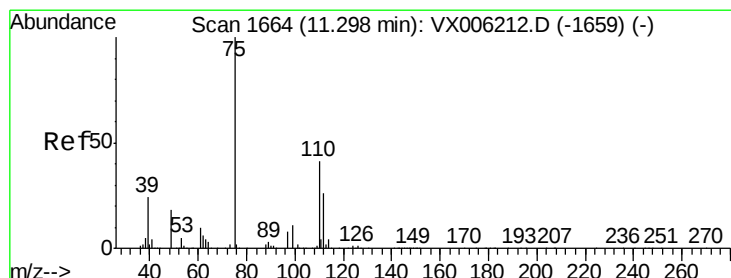
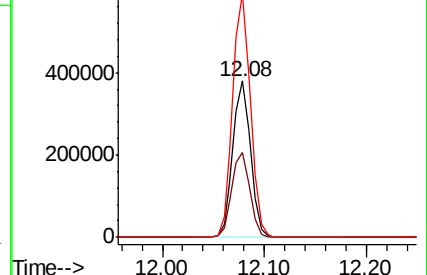
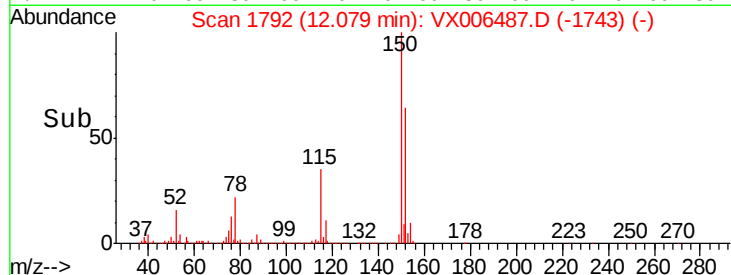
150 155.4 0.0 345.8



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



#76

1,2,3-Trichloropropane

Concen: 23.157 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006487.D

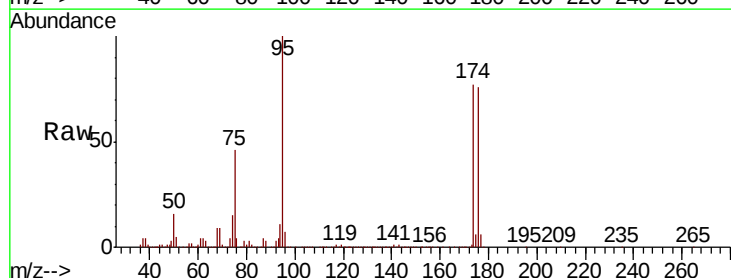
Acq: 13 Dec 2018 11:13

Tgt Ion: 75 Resp: 203201

Ion Ratio Lower Upper

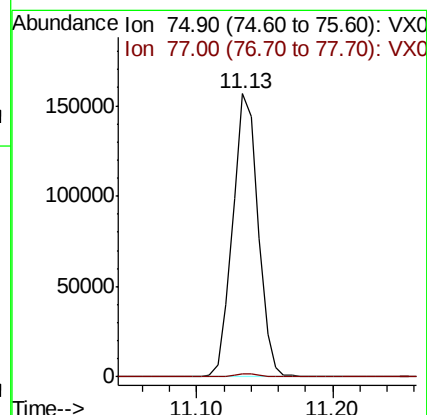
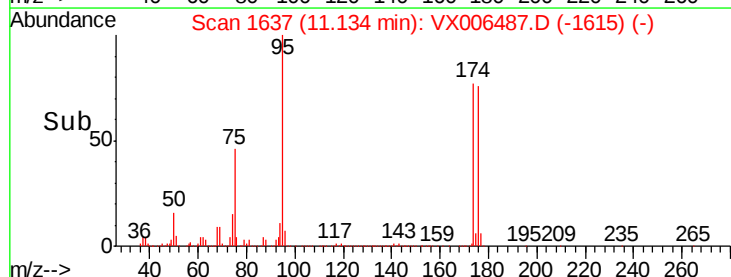
75 100

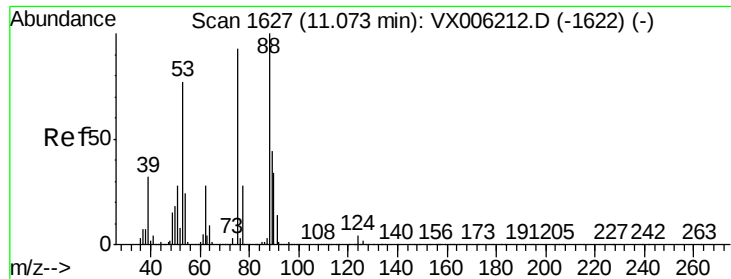
77 1.2 19.9 59.7#



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: 54.343 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006487.D

Acq: 13 Dec 2018 11:13

Instrument :

MSVOA\_X

ClientSampleId :

VX1213WBL01

Tot Ion: 75 Resp: 203201

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 44.2 66.4#

