

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121018\  
 Data File : VX006387.D  
 Acq On : 10 Dec 2018 23:45  
 Operator : JC/MD  
 Sample : VX1210WBL02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1210WBL02

Quant Time: Dec 11 04:57:55 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  | 721618   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1123357  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 1021716  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 486653   | 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   | 373760   | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 349363   | 48.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.06%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1305415  | 49.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.68%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 486924   | 48.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.68%  |          |

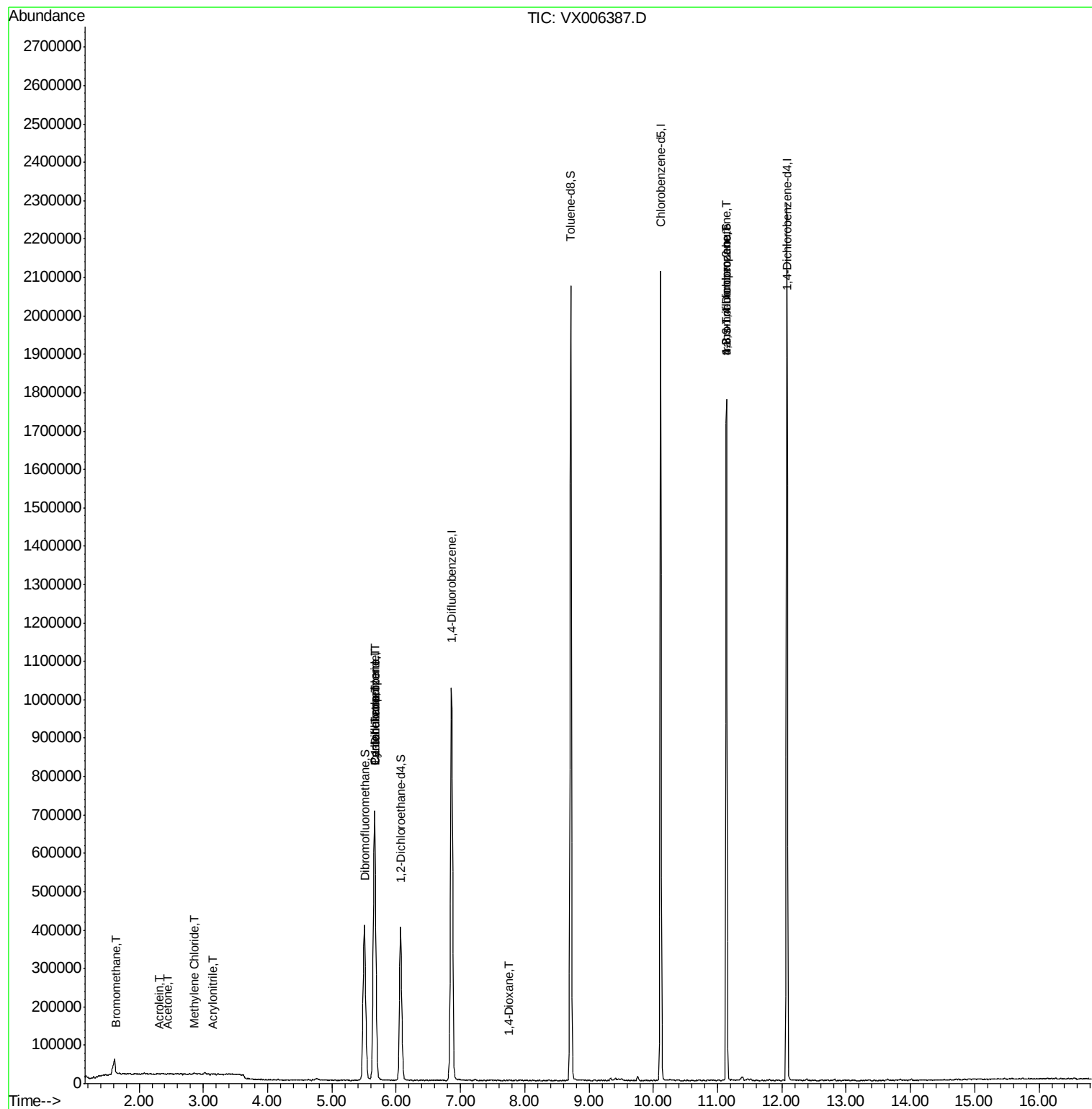
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 1452     | 0.268  | ug/l   | 85     |
| 13) Acrolein                   | 2.31  | 56   | 315      | 0.286  | ug/l # | 53     |
| 15) Acrylonitrile              | 3.15  | 53   | 1148     | 0.273  | ug/l # | 50     |
| 16) Acetone                    | 2.45  | 43   | 1055     | 0.305  | ug/l # | 64     |
| 20) Methylene Chloride         | 2.86  | 84   | 1766     | 0.240  | ug/l # | 57     |
| 31) Cyclohexane                | 5.67  | 56   | 11484    | 1.079  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 46087    | 4.872  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 66921    | 6.013  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 46       | 0.217  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 219323   | 23.349 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 219323   | 54.794 | ug/l # | 15     |

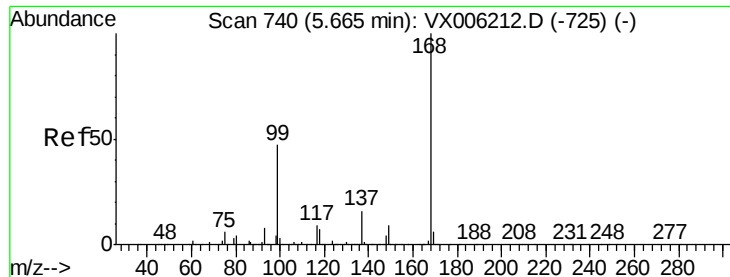
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121018\  
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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: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

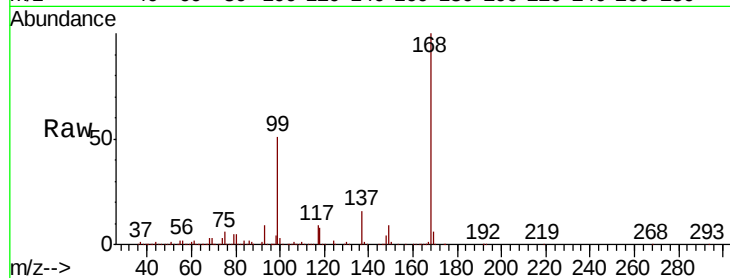
VX1210WBL02

Tot Ion:168 Resp: 721618

Ion Ratio Lower Upper

168 100

99 50.6 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

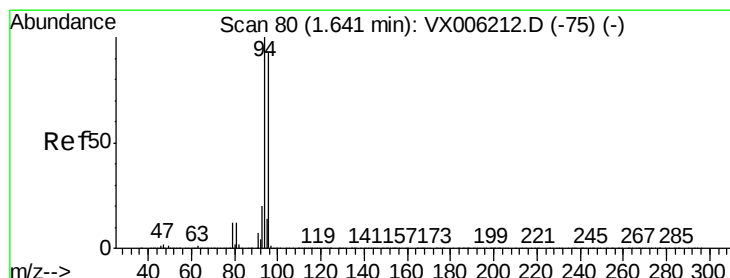
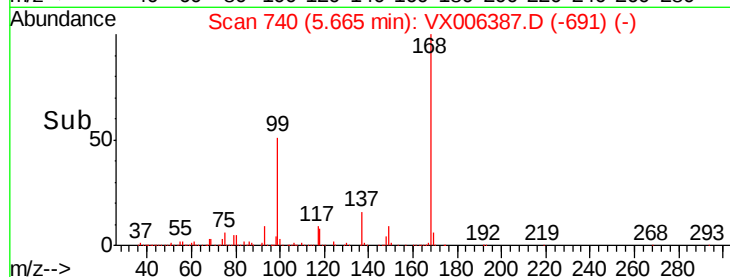
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.268 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006387.D

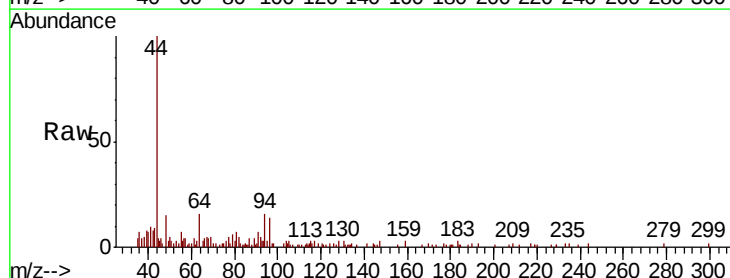
Acq: 10 Dec 2018 23:45

Tgt Ion: 94 Resp: 1452

Ion Ratio Lower Upper

94 100

96 78.5 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

1000

800

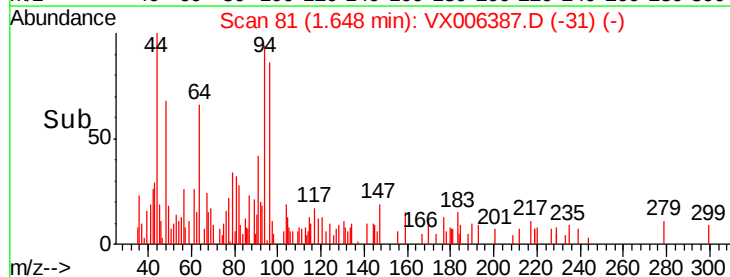
600

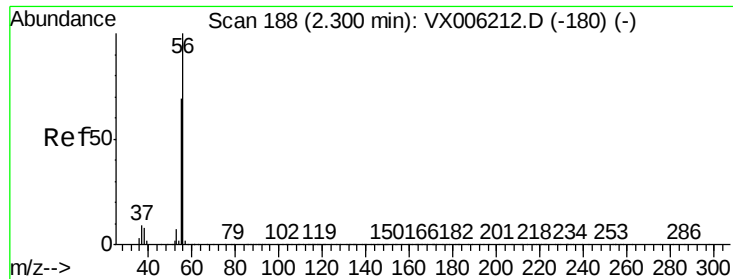
400

200

0

Time--> 1.60 1.65 1.70





#13

Acrolein

Concen: 0.286 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

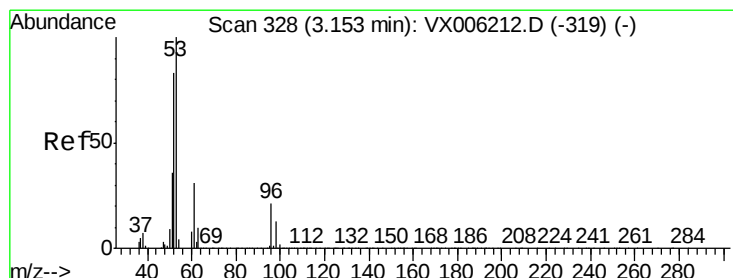
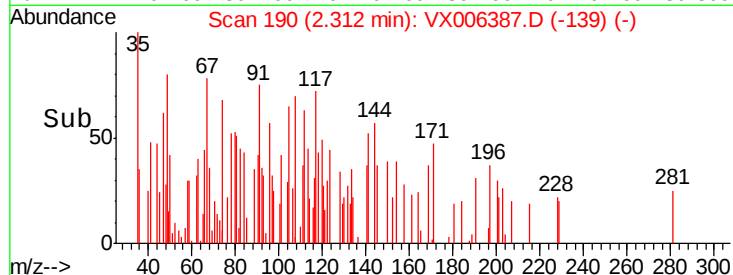
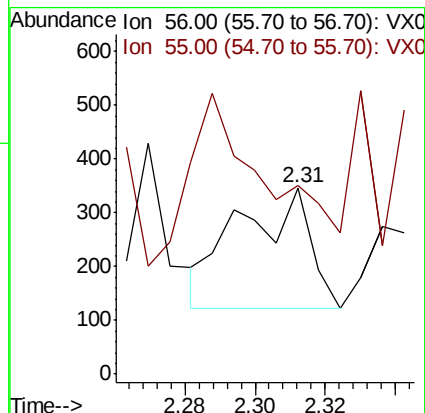
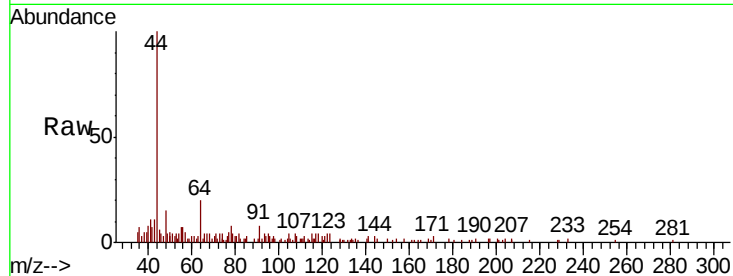
VX1210WBL02

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

56 100

55 33.3 57.8 86.6#



#15

Acrylonitrile

Concen: 0.273 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

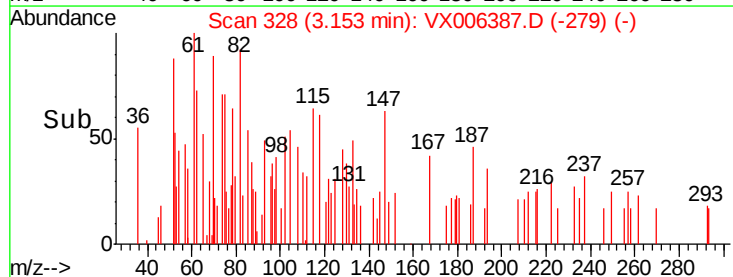
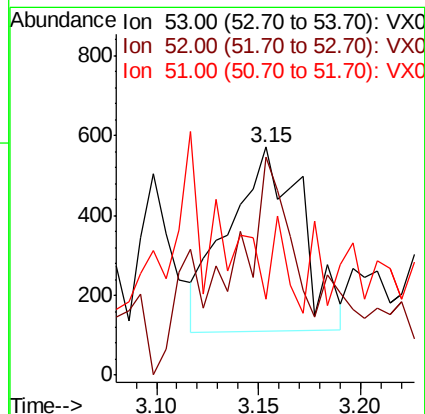
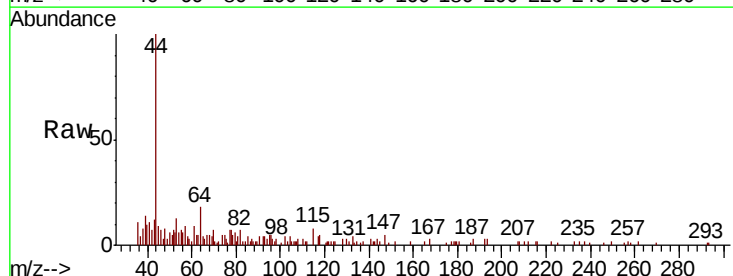
Tgt Ion: 53 Resp: 1148

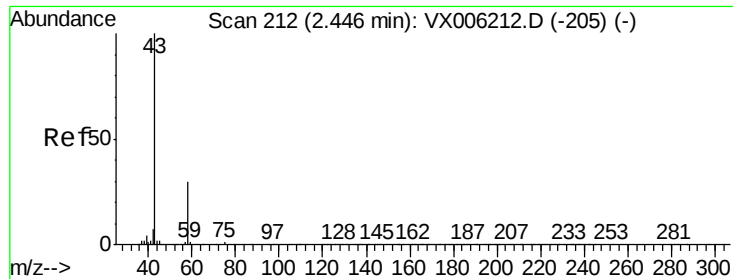
Ion Ratio Lower Upper

53 100

52 42.7 66.2 99.4#

51 0.0 28.7 43.1#

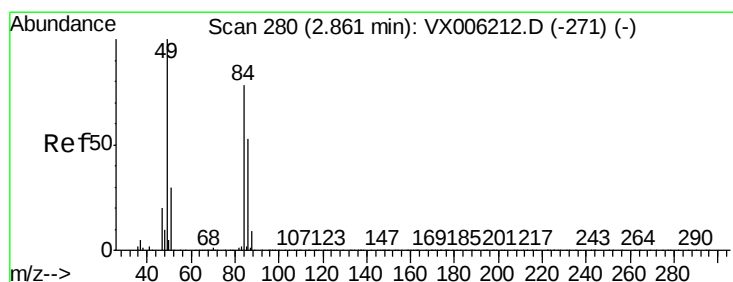
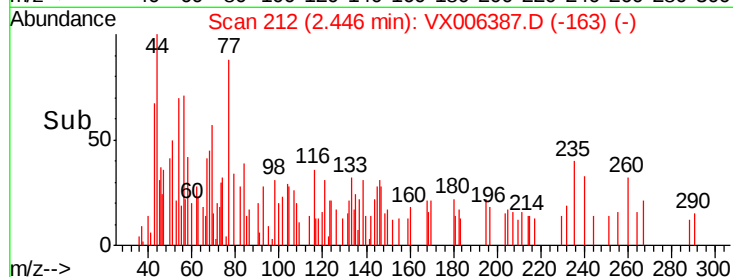
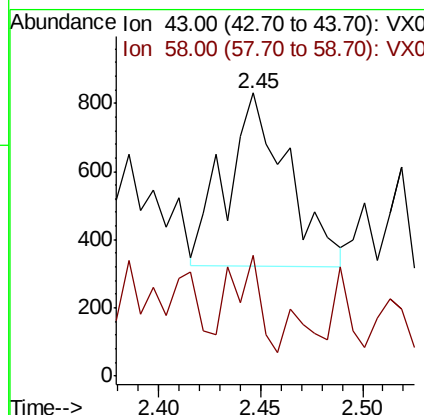
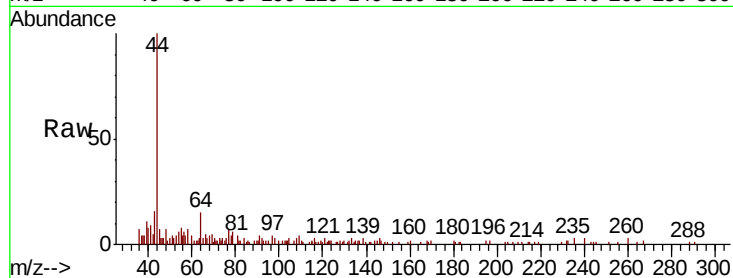




#16  
Acetone  
Concen: 0.305 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX006387.D  
Acq: 10 Dec 2018 23:45

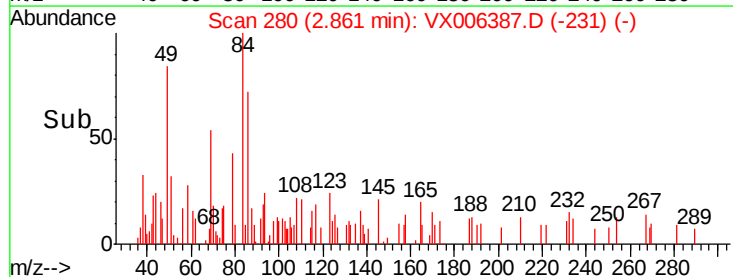
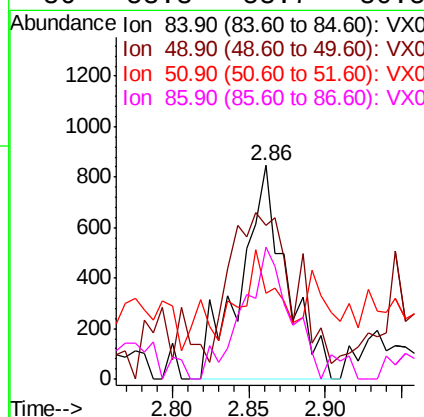
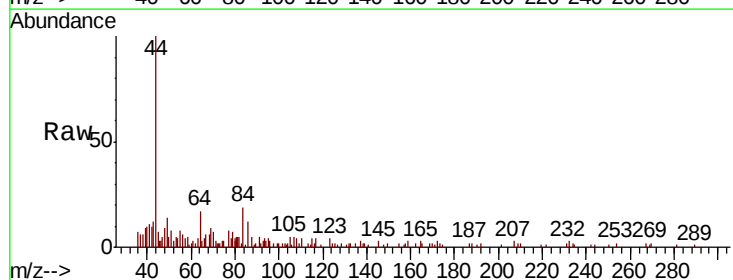
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1210WBL02

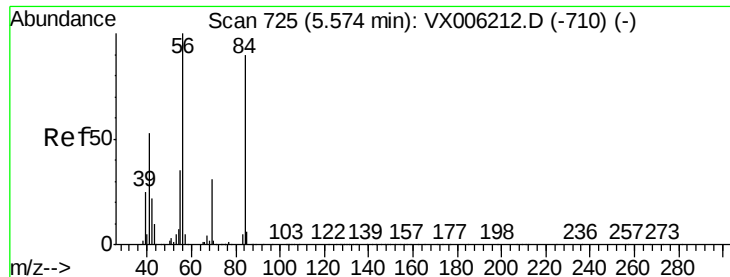
Tot Ion: 43 Resp: 1055  
Ion Ratio Lower Upper  
43 100  
58 10.5 24.0 36.0#



#20  
Methylene Chloride  
Concen: 0.240 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: VX006387.D  
Acq: 10 Dec 2018 23:45

Tgt Ion: 84 Resp: 1766  
Ion Ratio Lower Upper  
84 100  
49 60.9 102.2 153.4#  
51 16.5 31.1 46.7#  
86 53.3 53.7 80.5#

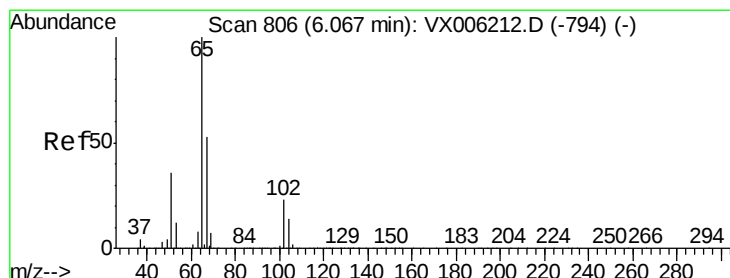
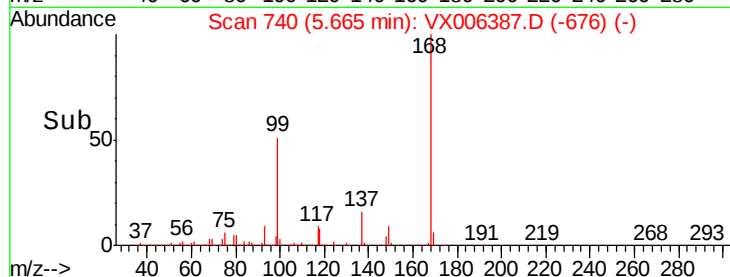
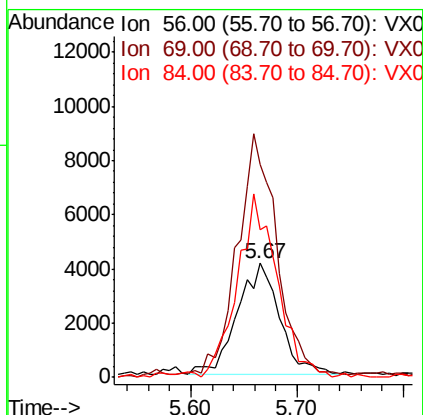
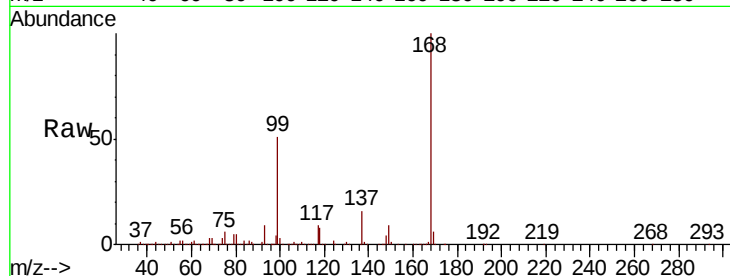




#31  
Cyclohexane  
Concen: 1.079 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX006387.D  
Acq: 10 Dec 2018 23:45

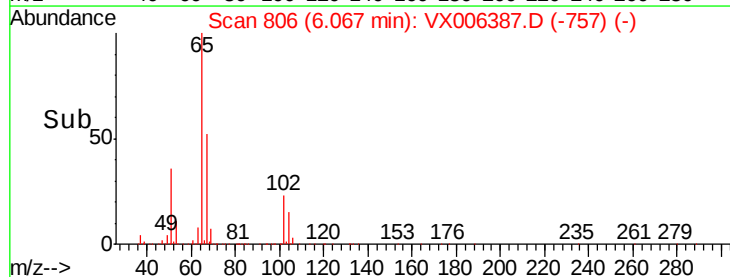
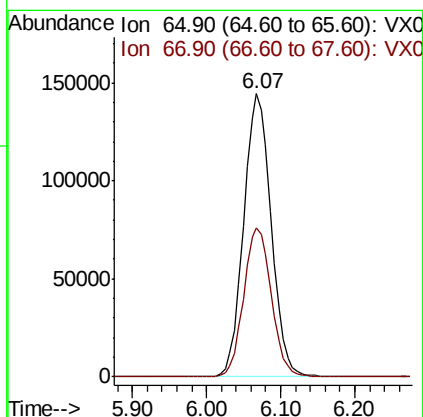
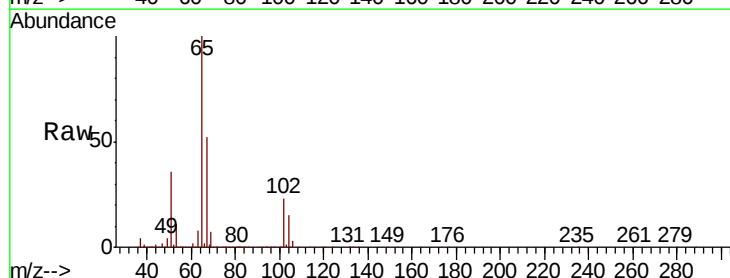
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1210WBL02

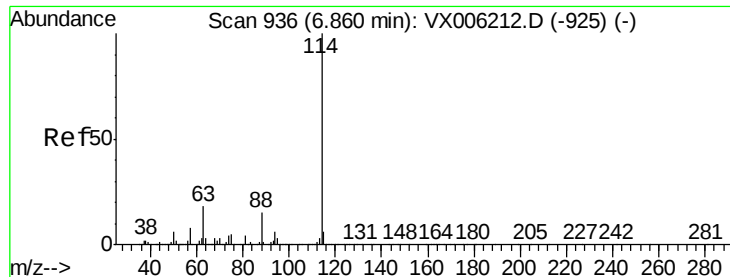
Tot Ion: 56 Resp: 11484  
Ion Ratio Lower Upper  
56 100  
69 187.8 24.5 36.7#  
84 131.1 71.8 107.6#



#33  
1,2-Dichloroethane-d4  
Concen: 50.737 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX006387.D  
Acq: 10 Dec 2018 23:45

Tgt Ion: 65 Resp: 373760  
Ion Ratio Lower Upper  
65 100  
67 52.8 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: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

VX1210WBL02

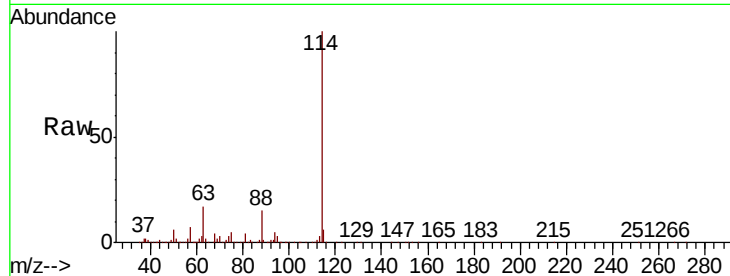
Tot Ion:114 Resp: 1123357

Ion Ratio Lower Upper

114 100

63 16.8 0.0 36.6

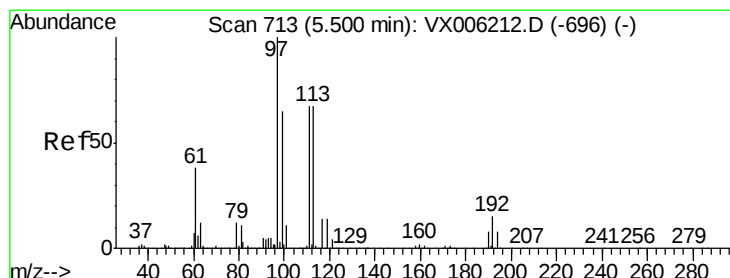
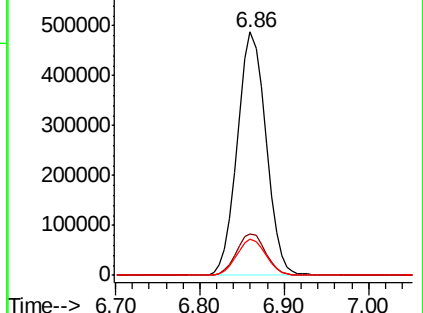
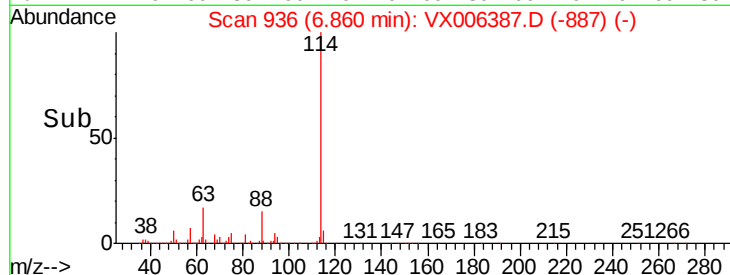
88 14.9 0.0 29.0



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: 48.034 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

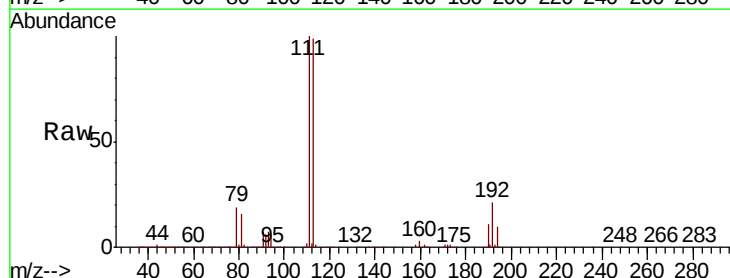
Tgt Ion:113 Resp: 349363

Ion Ratio Lower Upper

113 100

111 100.8 81.1 121.7

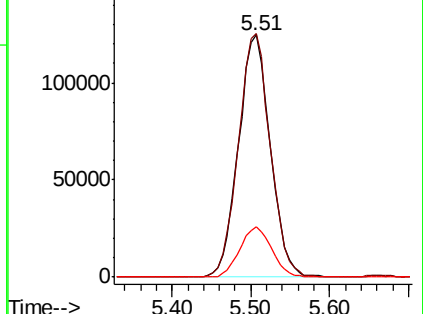
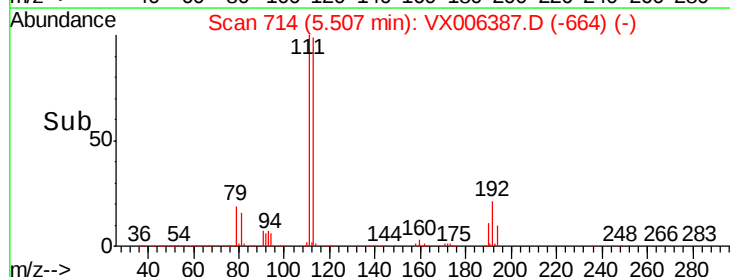
192 20.9 18.2 27.2

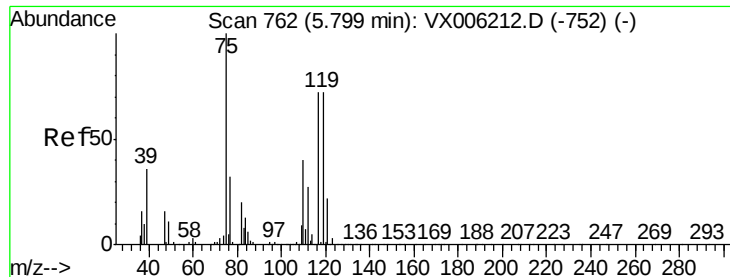


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.872 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

VX1210WBL02

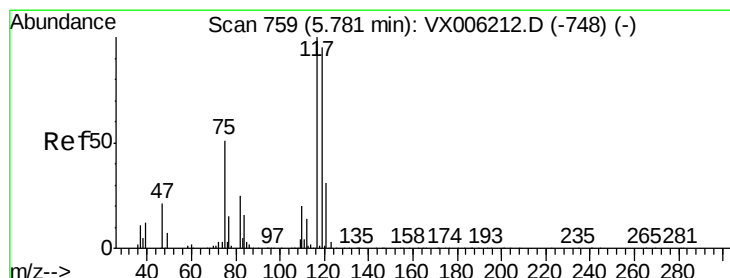
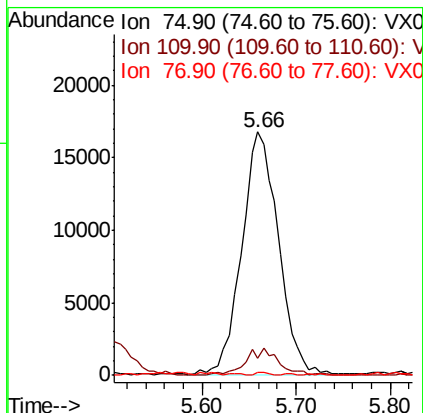
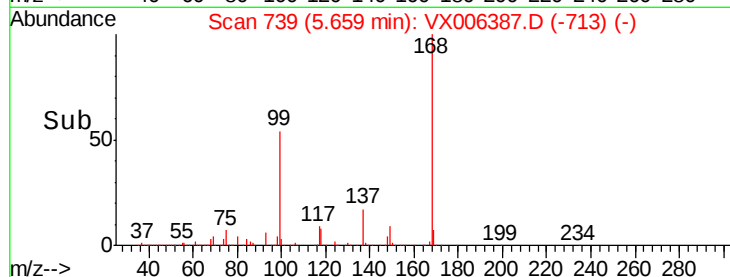
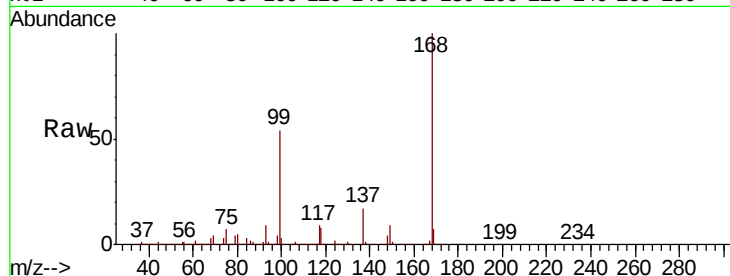
Tot Ion: 75 Resp: 46087

Ion Ratio Lower Upper

75 100

110 9.9 20.4 61.3#

77 0.4 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.013 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

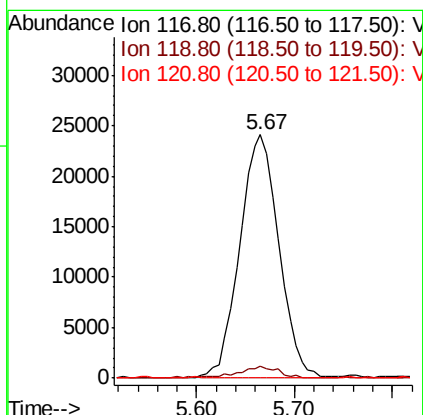
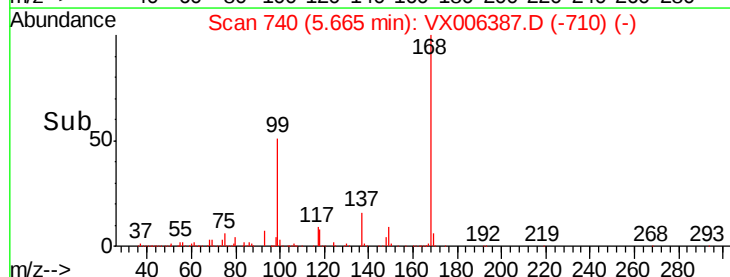
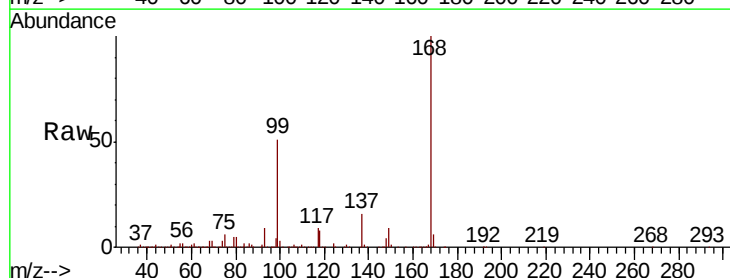
Tgt Ion: 117 Resp: 66921

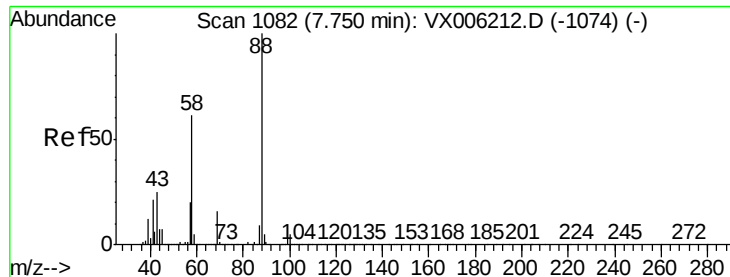
Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.8#

121 0.0 24.6 37.0#

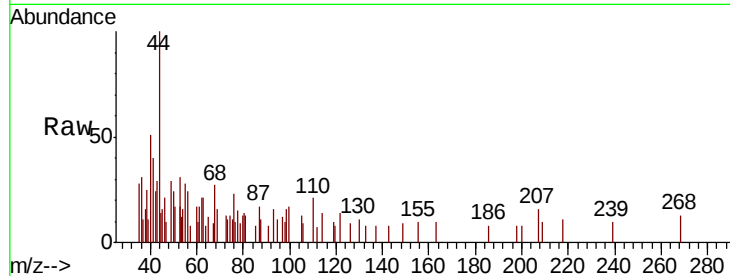




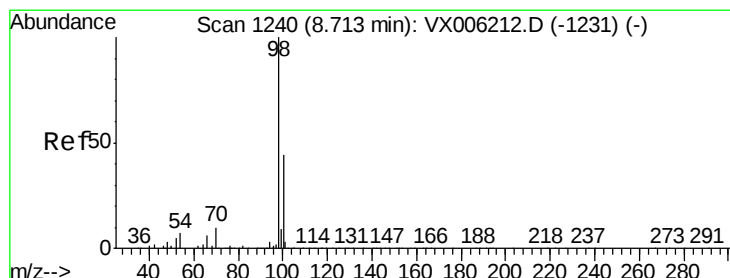
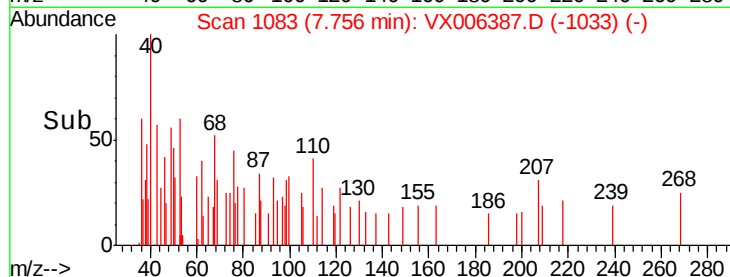
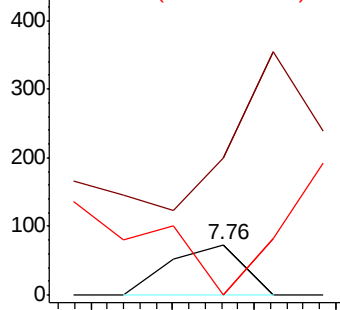
#49  
1,4-Dioxane  
Concen: 0.217 ug/l  
RT: 7.76 min Scan# 1083  
Delta R.T. 0.01 min  
Lab File: VX006387.D  
Acq: 10 Dec 2018 23:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1210WBL02

Tot Ion: 88 Resp: 46  
Ion Ratio Lower Upper  
88 100  
43 426.1 23.2 34.8#  
58 219.6 51.4 77.0#

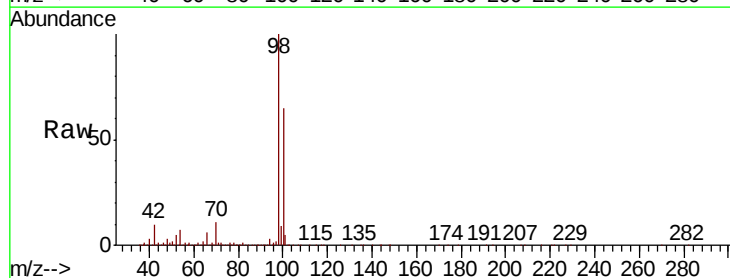


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

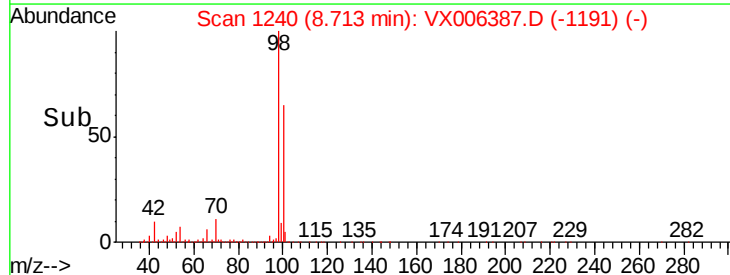
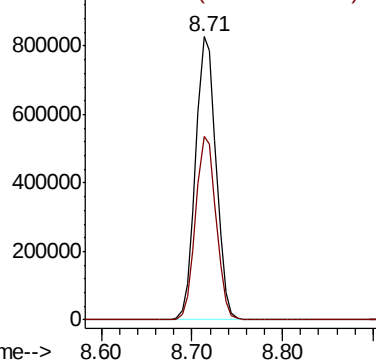


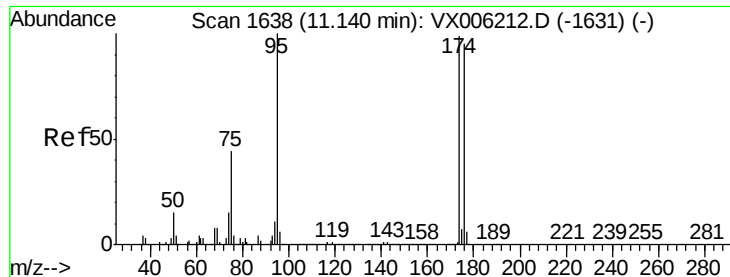
#50  
Toluene-d8  
Concen: 49.343 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006387.D  
Acq: 10 Dec 2018 23:45

Tgt Ion: 98 Resp: 1305415  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 48.842 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

VX1210WBL02

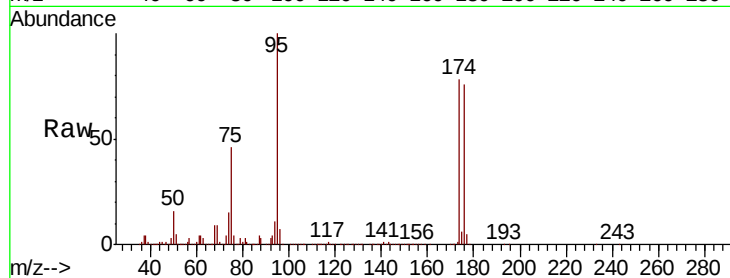
Tot Ion: 95 Resp: 486924

Ion Ratio Lower Upper

95 100

174 86.7 0.0 187.0

176 84.6 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) (-)

11.13

400000

300000

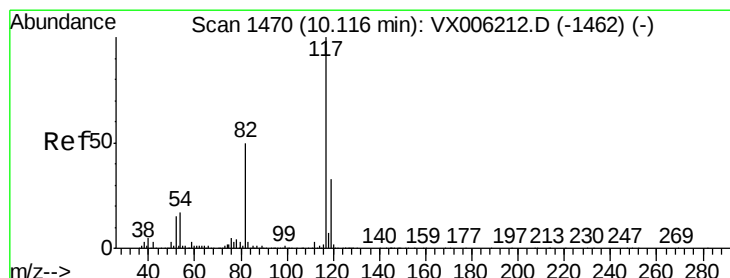
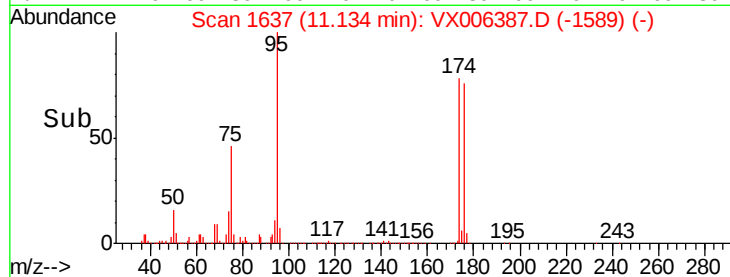
200000

100000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

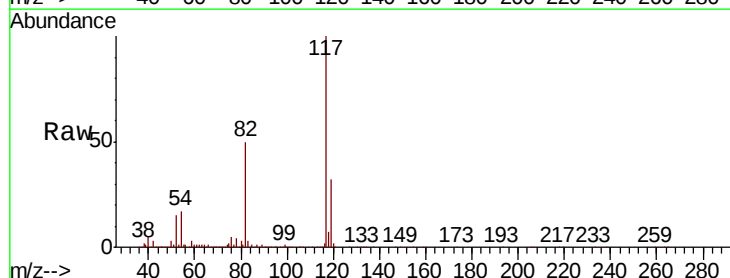
Tgt Ion: 117 Resp: 1021716

Ion Ratio Lower Upper

117 100

82 49.7 39.6 59.4

119 32.2 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) (-)

10.12

1000000

800000

600000

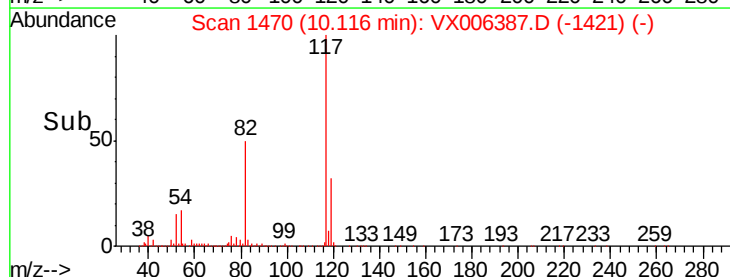
400000

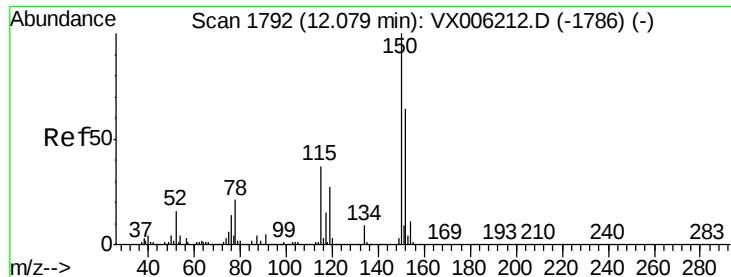
200000

0

10.10 10.20 10.30

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

VX1210WBL02

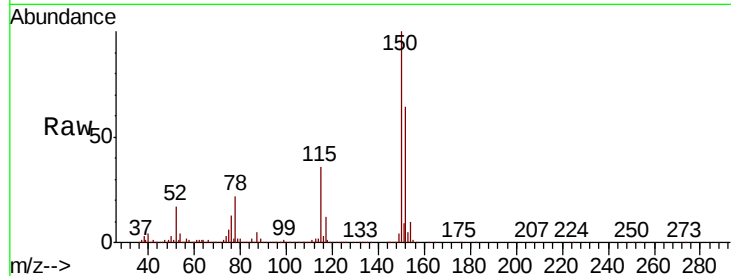
Tot Ion:152 Resp: 486653

Ion Ratio Lower Upper

152 100

115 57.0 39.0 116.9

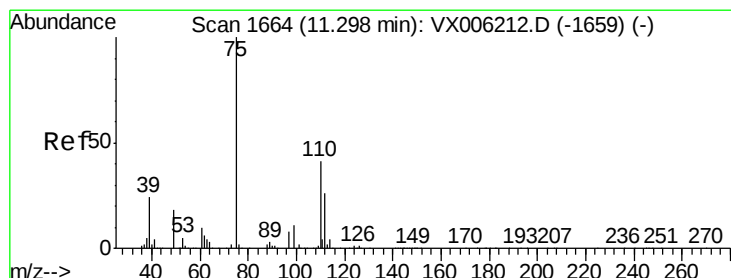
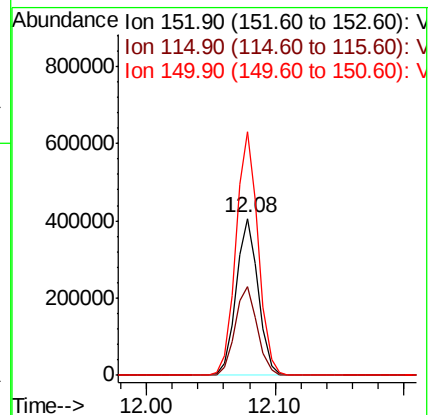
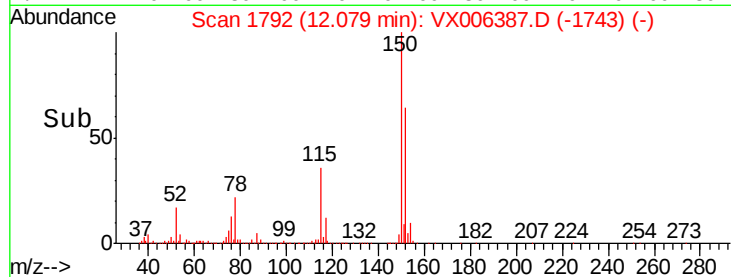
150 156.3 0.0 345.8



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: 23.349 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006387.D

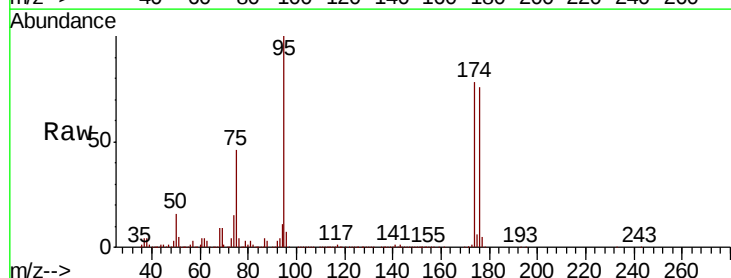
Acq: 10 Dec 2018 23:45

Tgt Ion: 75 Resp: 219323

Ion Ratio Lower Upper

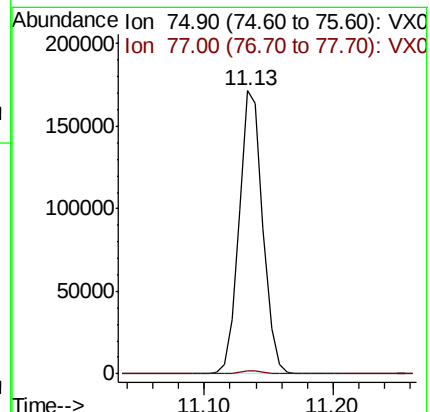
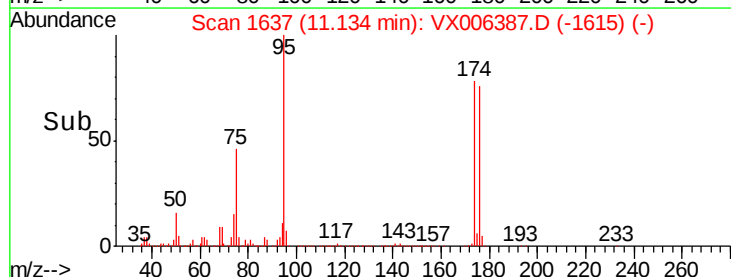
75 100

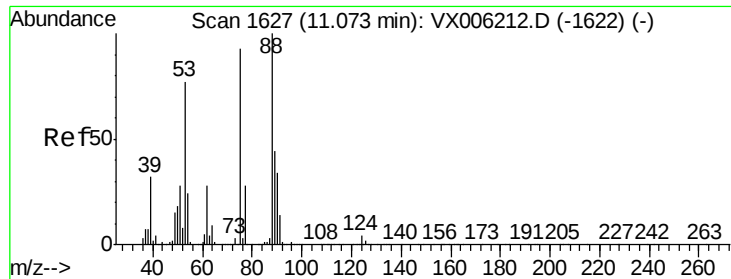
77 1.2 19.9 59.7#



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: 54.794 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006387.D

Acq: 10 Dec 2018 23:45

Instrument :

MSVOA\_X

ClientSampleId :

VX1210WBL02

Tot Ion: 75 Resp: 219323

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.0 44.2 66.4#

