

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091118\  
 Data File : VX004471.D  
 Acq On : 11 Sep 2018 17:53  
 Operator : JC/MD  
 Sample : VX0911WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0911WBL01

Quant Time: Sep 12 05:51:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 15:21:13 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 207487   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 314479   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 307099   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 169419   | 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   | 142364   | 53.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.42% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 133878   | 46.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.04%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 459322   | 47.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.18%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 161991   | 47.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04%  |          |

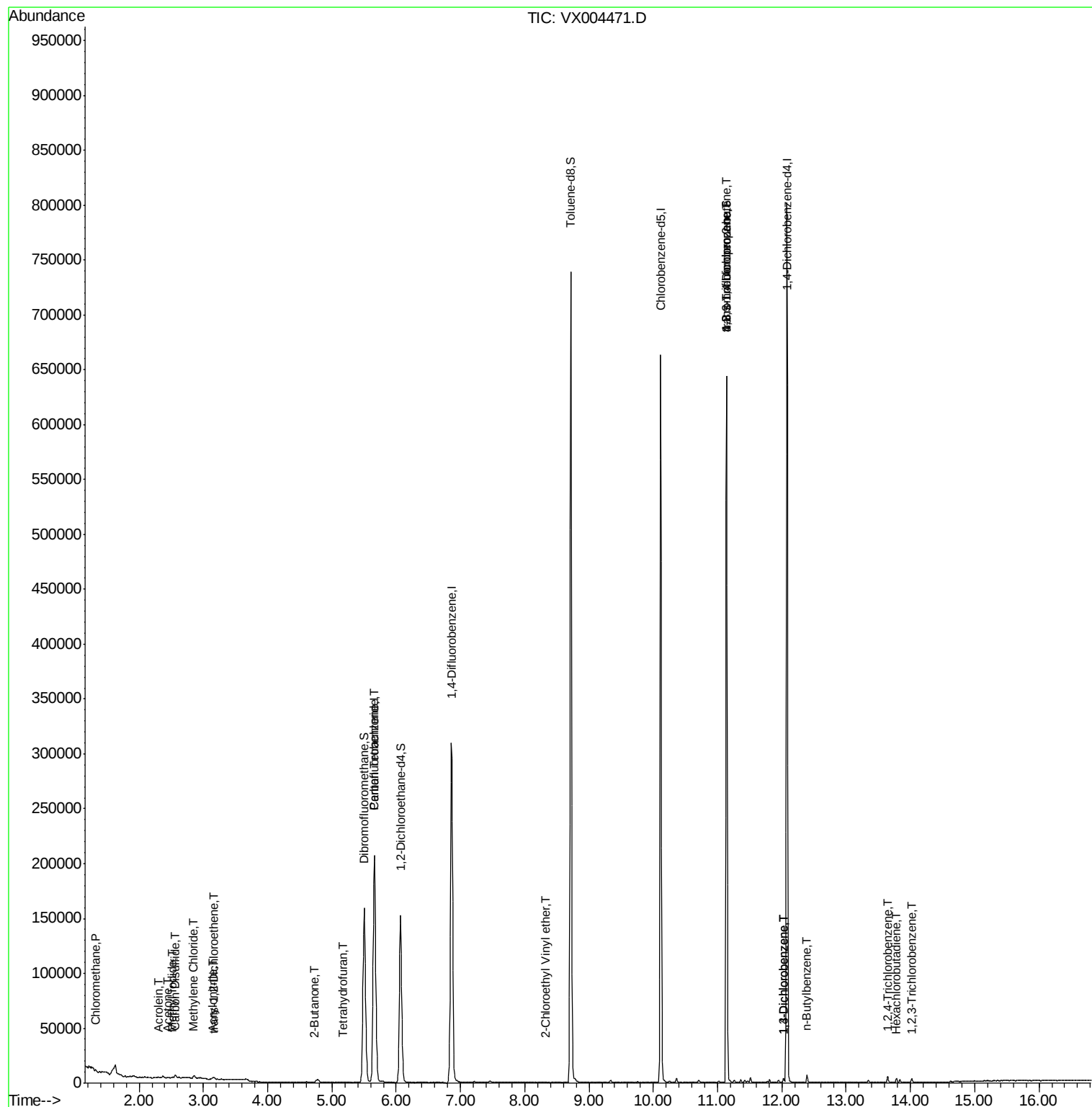
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 790      | 0.30  | ug/l  | # 87   |
| 5) Bromomethane                | 1.64  | 94   | 1332     | Below | Cal   | 91     |
| 10) Methyl Iodide              | 2.51  | 142  | 627      | 4.46  | ug/l  | # 79   |
| 13) Acrolein                   | 2.29  | 56   | 394      | 1.56  | ug/l  | # 63   |
| 15) Acrylonitrile              | 3.14  | 53   | 707      | 0.46  | ug/l  | # 86   |
| 16) Acetone                    | 2.44  | 43   | 861      | 0.66  | ug/l  | # 72   |
| 17) Carbon Disulfide           | 2.57  | 76   | 2807     | 0.45  | ug/l  | 100    |
| 20) Methylene Chloride         | 2.85  | 84   | 1002     | 0.37  | ug/l  | # 77   |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96   | 546      | 0.23  | ug/l  | # 84   |
| 25) 2-Butanone                 | 4.71  | 43   | 454      | 0.22  | ug/l  | # 47   |
| 29) Tetrahydrofuran            | 5.18  | 42   | 672      | 0.54  | ug/l  | # 64   |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 18124    | 4.86  | ug/l  | # 16   |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 233      | 7.38  | ug/l  | # 45   |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 76809    | 23.20 | ug/l  | # 37   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 76809    | 71.83 | ug/l  | # 10   |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 1365     | 0.24  | ug/l  | 94     |
| 88) 1,4-Dichlorobenzene        | 12.03 | 146  | 1365     | 0.23  | ug/l  | 95     |
| 89) n-Butylbenzene             | 12.39 | 91   | 2188     | 0.24  | ug/l  | 98     |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 1602     | 0.39  | ug/l  | 98     |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 682      | 0.32  | ug/l  | 96     |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 1103     | 0.26  | ug/l  | 91     |

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

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Quant Time: Sep 12 05:51:31 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091118W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 15:21:13 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

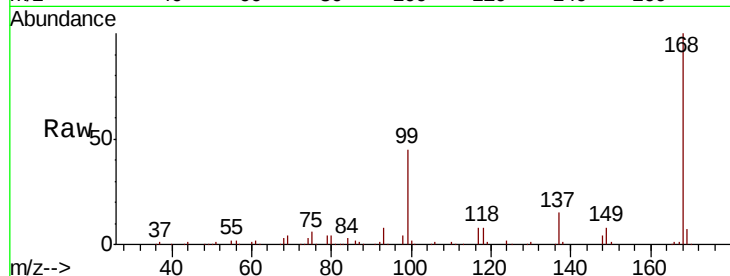
VX0911WBL01

Tot Ion:168 Resp: 207487

Ion Ratio Lower Upper

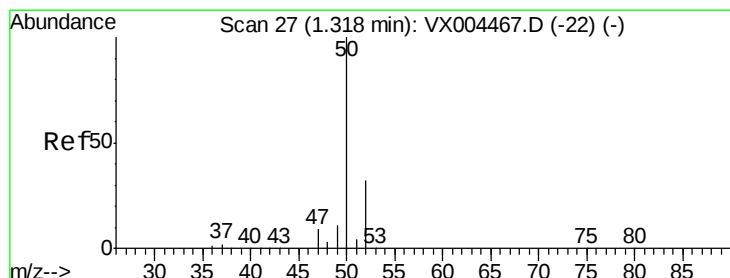
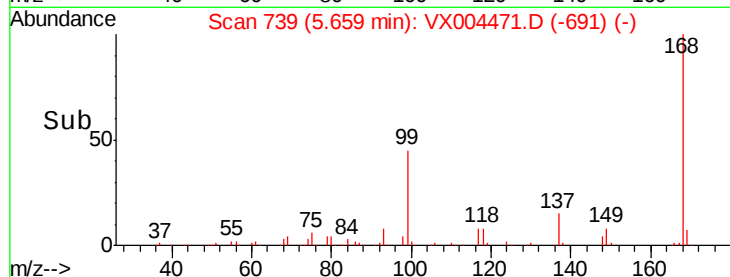
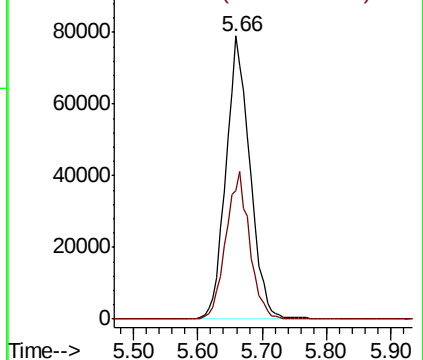
168 100

99 45.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.30 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX004471.D

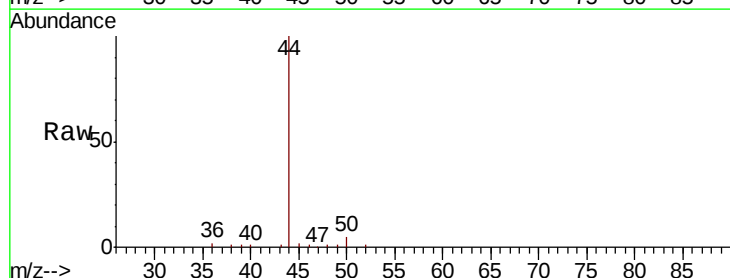
Acq: 11 Sep 2018 17:53

Tgt Ion: 50 Resp: 790

Ion Ratio Lower Upper

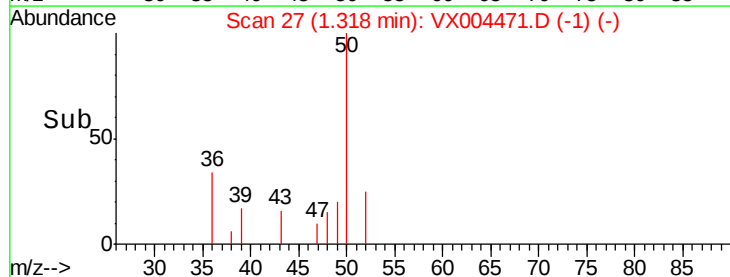
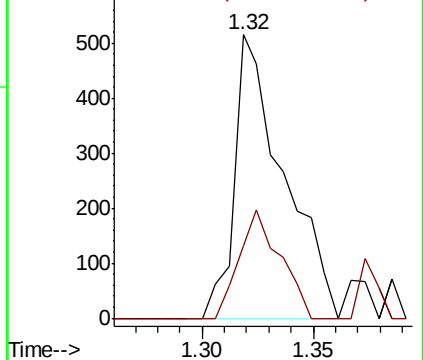
50 100

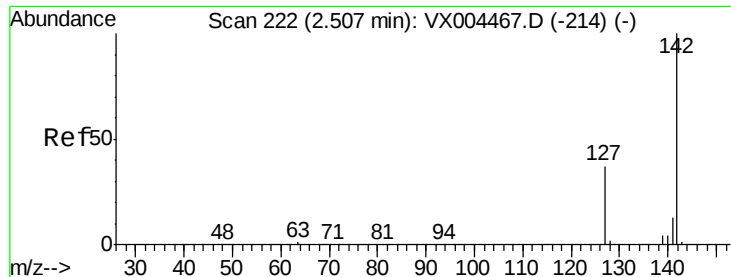
52 25.4 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

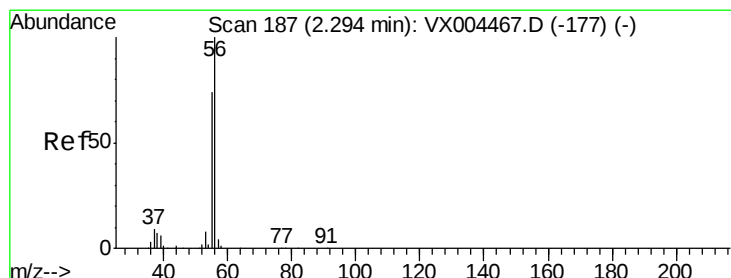
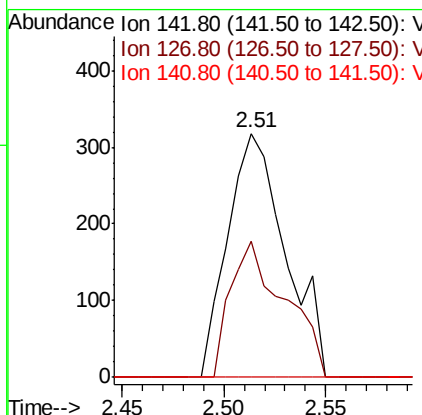
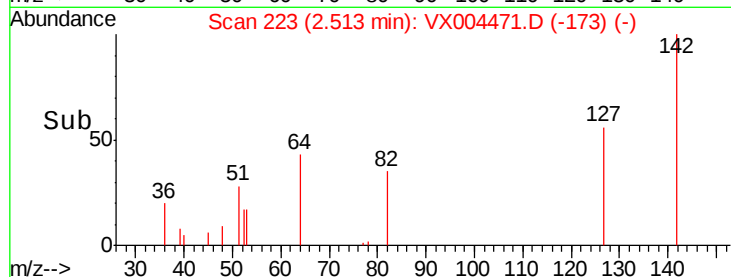
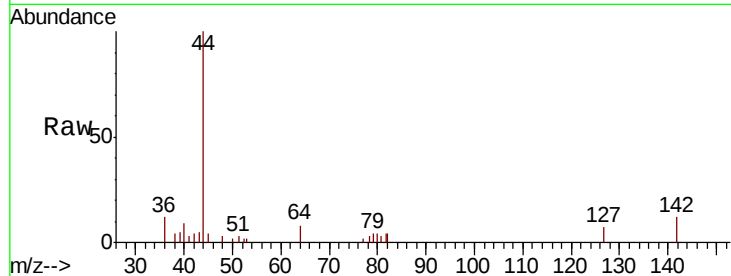




#10  
Methvl Iodide  
Concen: 4.46 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

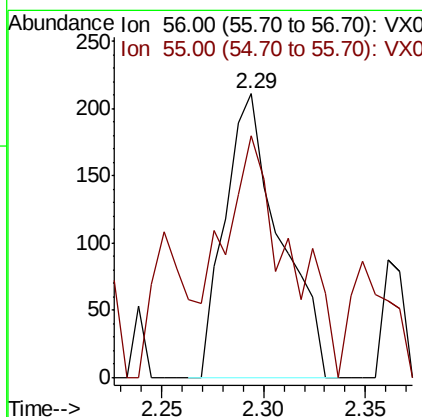
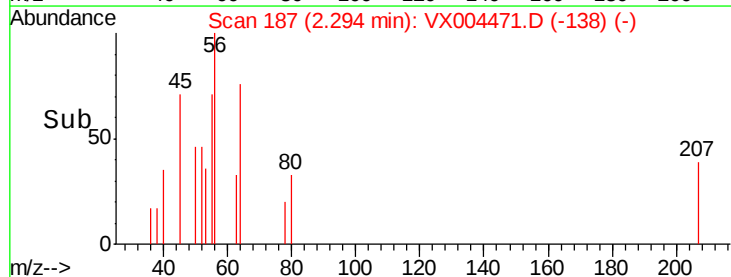
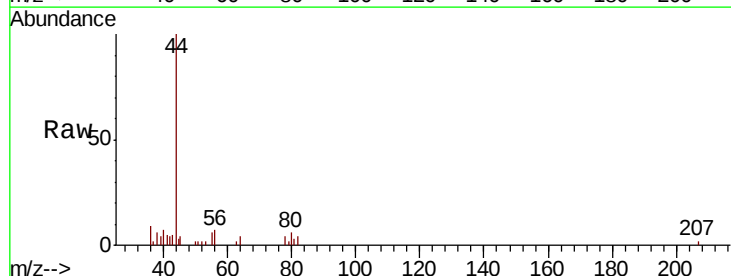
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0911WBL01

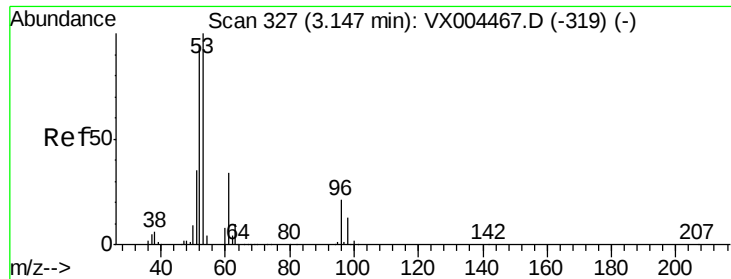
Tot Ion:142 Resp: 627  
Ion Ratio Lower Upper  
142 100  
127 52.5 33.8 50.6#  
141 0.0 11.4 17.0#



#13  
Acrolein  
Concen: 1.56 ug/l  
RT: 2.29 min Scan# 187  
Delta R.T. -0.00 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

Tgt Ion: 56 Resp: 394  
Ion Ratio Lower Upper  
56 100  
55 98.7 54.7 82.1#





#15

Acrylonitrile

Concen: 0.46 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

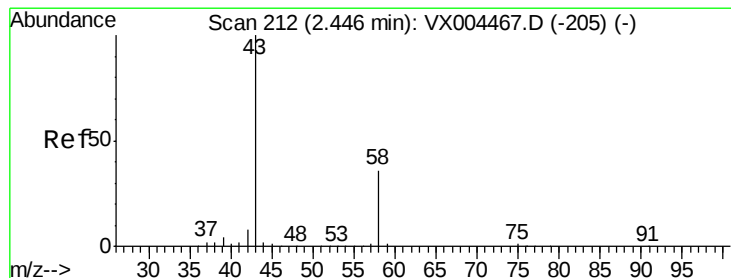
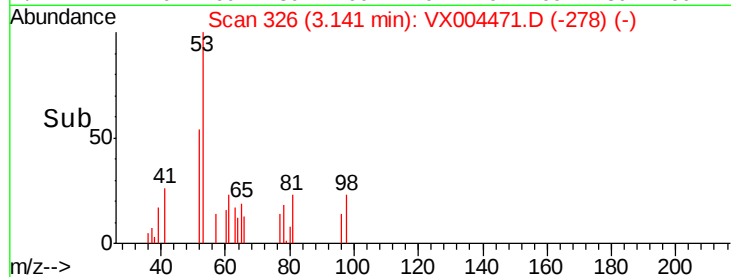
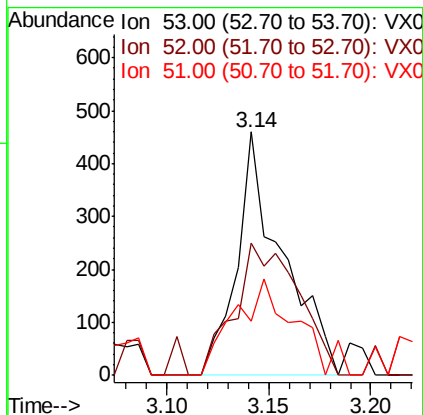
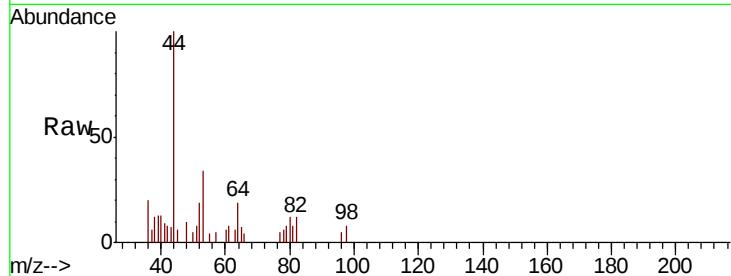
Instrument :

MSVOA\_X

ClientSampled :

VX0911WBL01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 707   |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 76.7  | 65.2  | 97.8  |
| 51       | 54.5  | 28.2  | 42.2# |



#16

Acetone

Concen: 0.66 ug/l

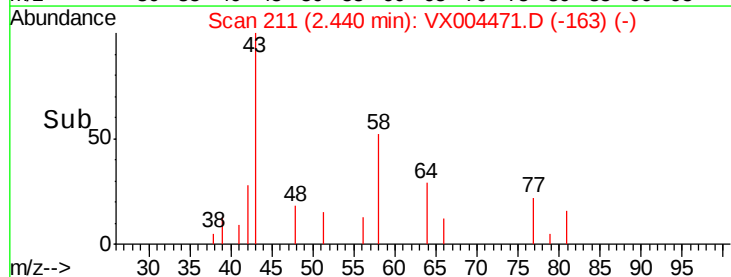
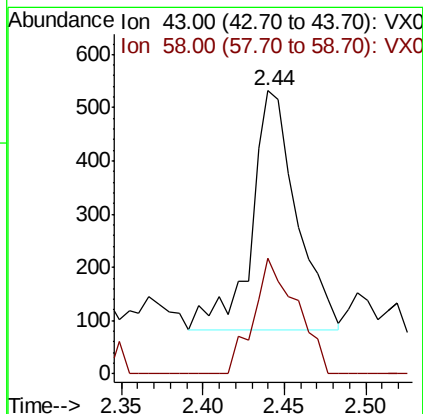
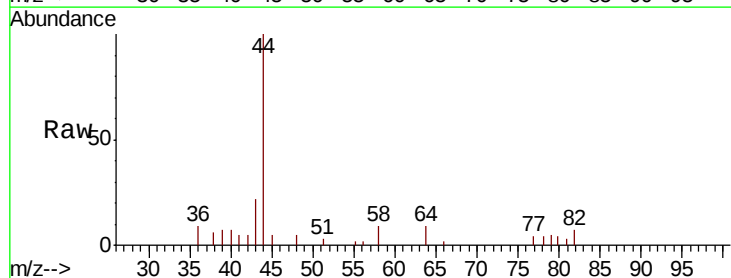
RT: 2.44 min Scan# 211

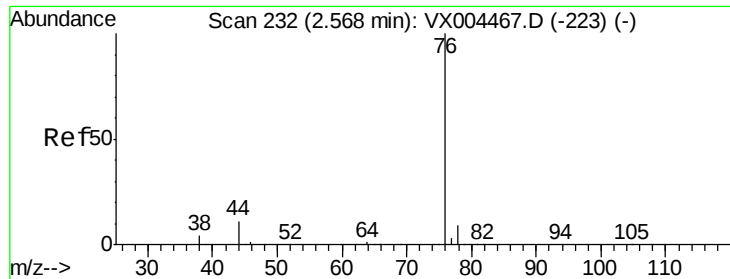
Delta R.T. -0.01 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 861   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 48.3  | 26.2  | 39.4# |





#17

Carbon Disulfide

Concen: 0.45 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

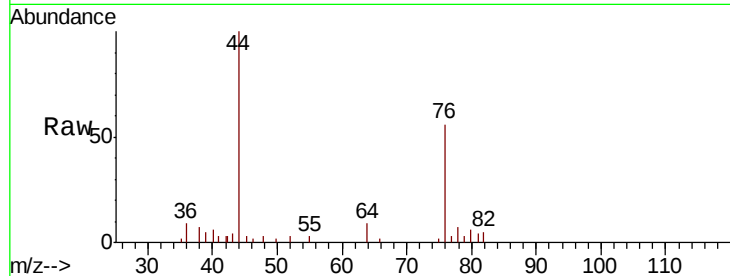
VX0911WBL01

Tot Ion: 76 Resp: 2807

Ion Ratio Lower Upper

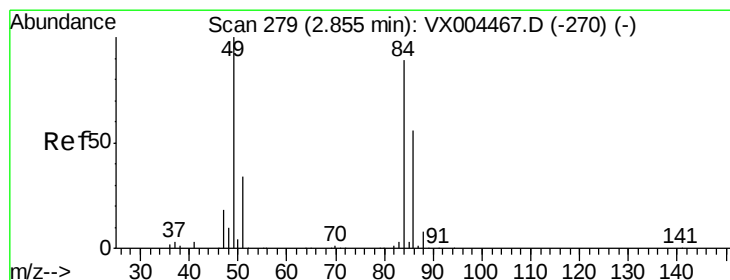
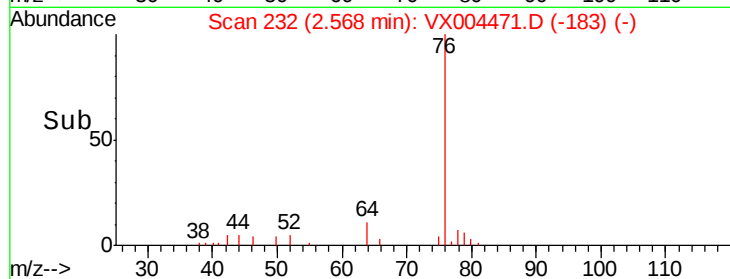
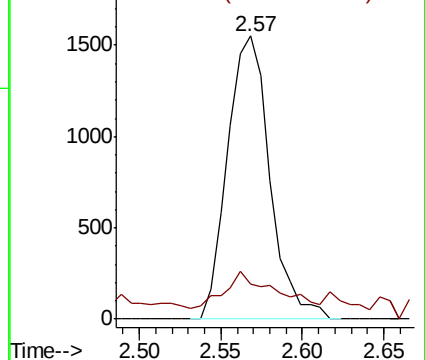
76 100

78 8.8 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.37 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Tgt Ion: 84 Resp: 1002

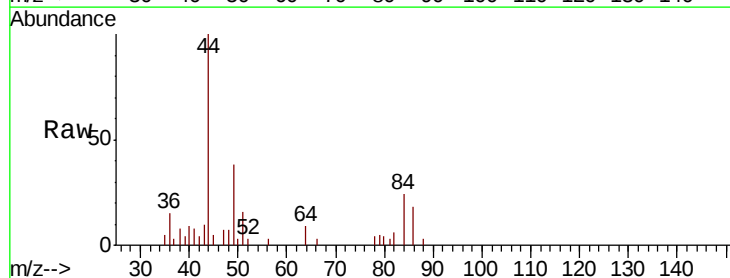
Ion Ratio Lower Upper

84 100

49 159.6 101.2 151.8#

51 50.1 29.5 44.3#

86 74.5 52.3 78.5

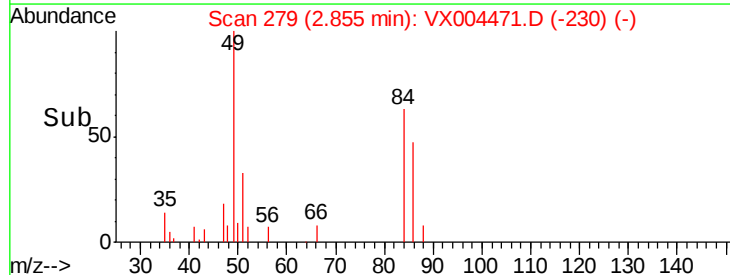
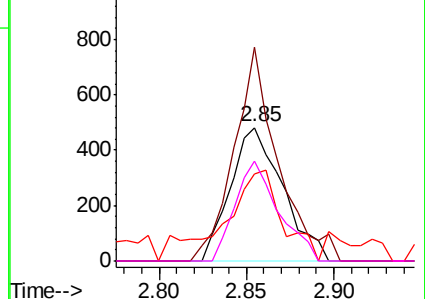


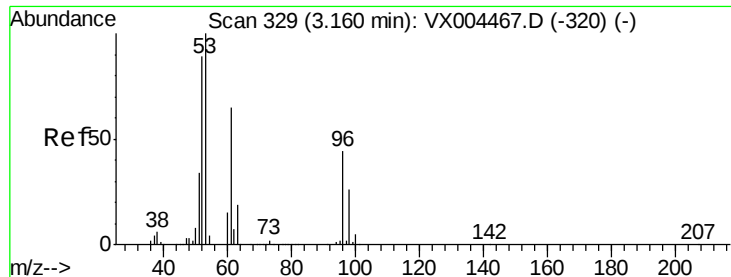
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.23 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampled :

VX0911WBL01

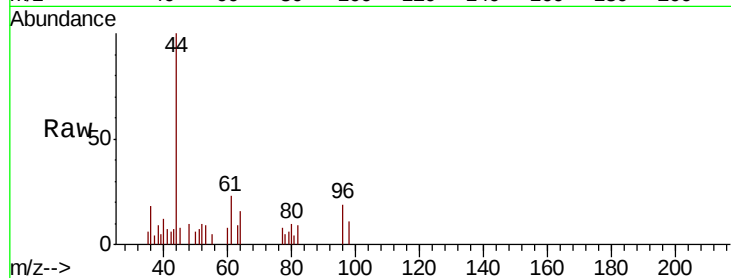
Tot Ion: 96 Resp: 546

Ion Ratio Lower Upper

96 100

61 120.9 113.8 170.6

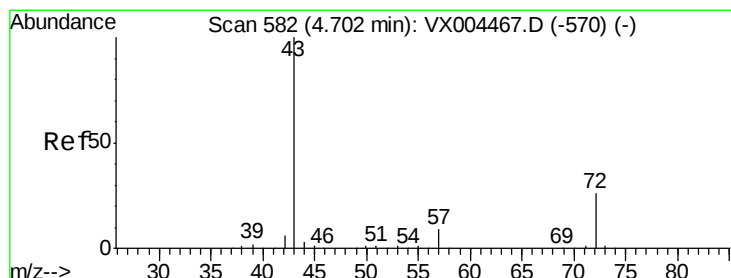
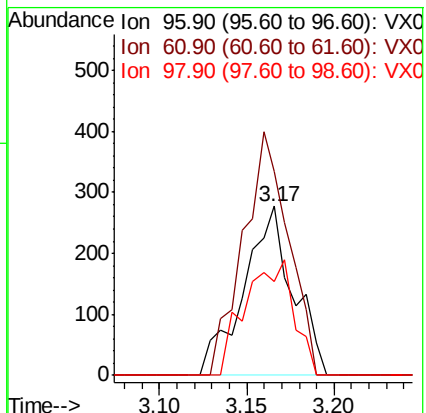
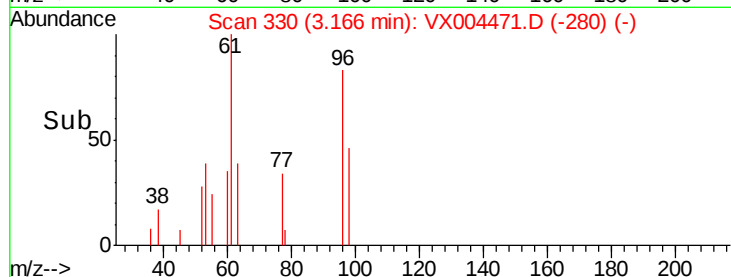
98 55.6 51.8 77.8



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



#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004471.D

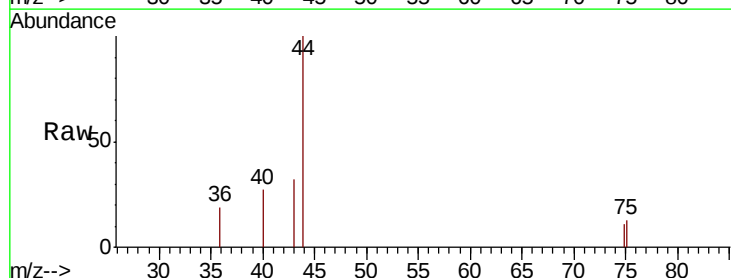
Acq: 11 Sep 2018 17:53

Tgt Ion: 43 Resp: 454

Ion Ratio Lower Upper

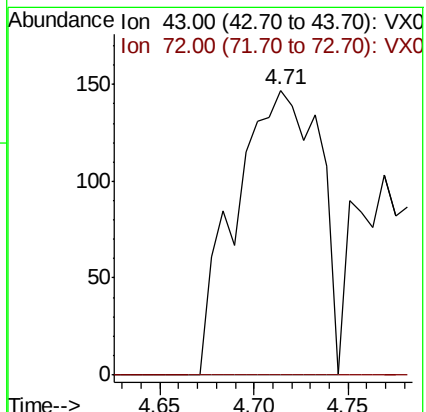
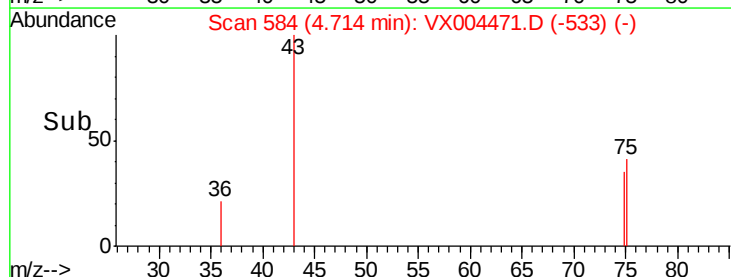
43 100

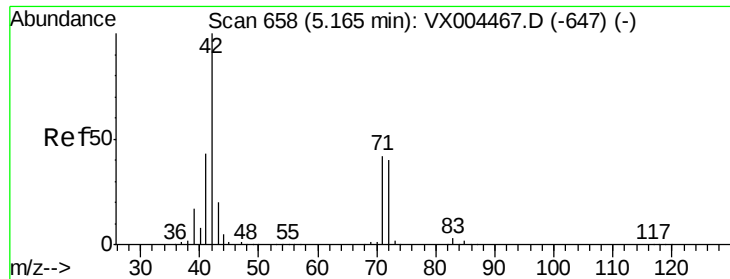
72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.54 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0911WBL01

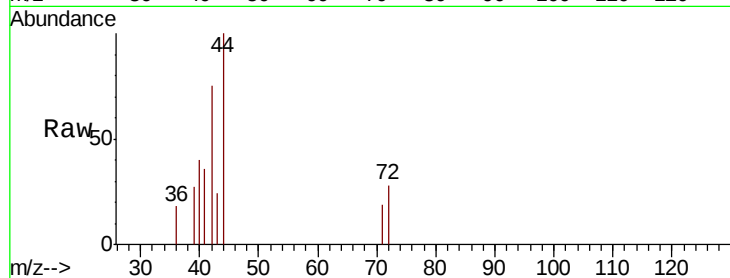
Tot Ion: 42 Resp: 672

Ion Ratio Lower Upper

42 100

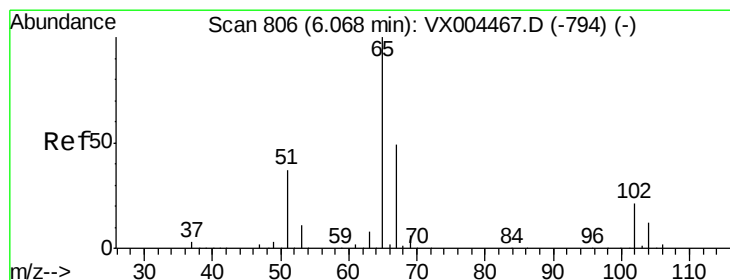
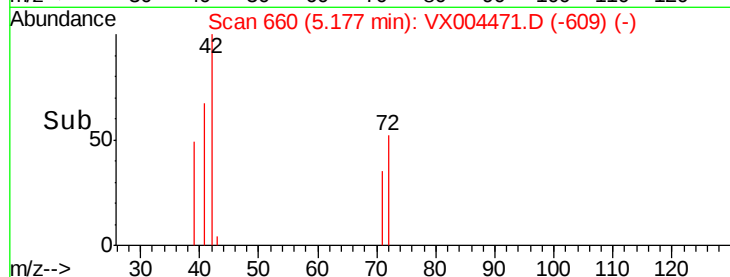
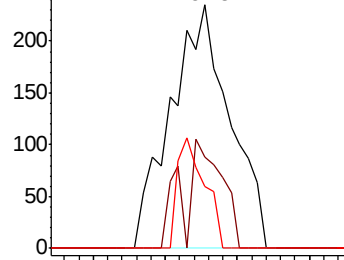
72 21.6 37.4 56.0#

71 21.0 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0  
Ion 71.00 (70.70 to 71.70): VX0

5.18



#33

1,2-Dichloroethane-d4

Concen: 53.21 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004471.D

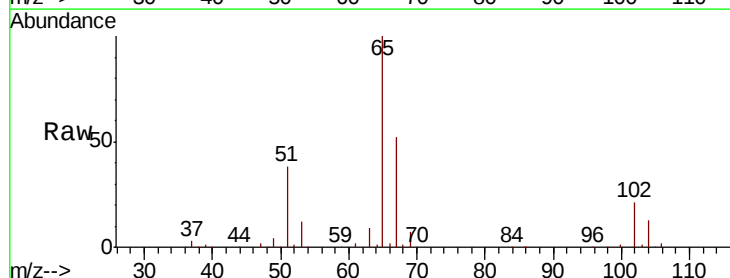
Acq: 11 Sep 2018 17:53

Tgt Ion: 65 Resp: 142364

Ion Ratio Lower Upper

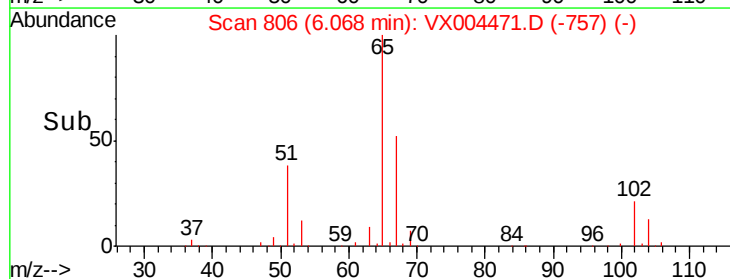
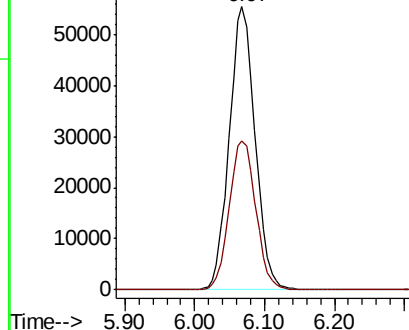
65 100

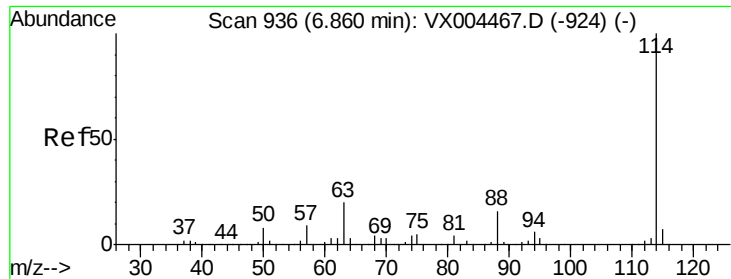
67 54.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

6.07

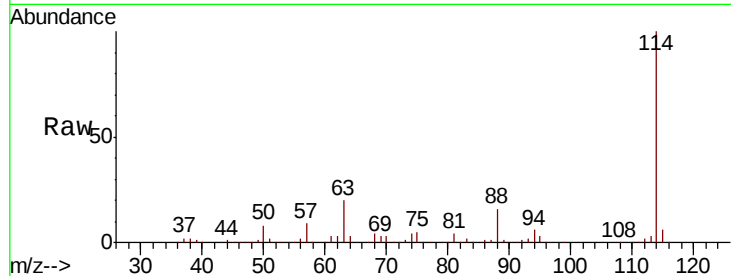




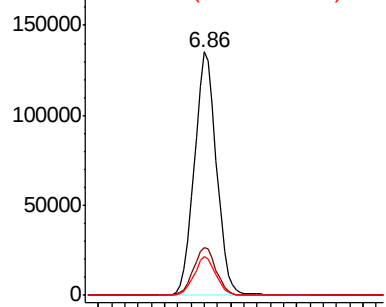
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX004471.D  
 Acq: 11 Sep 2018 17:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0911WBL01

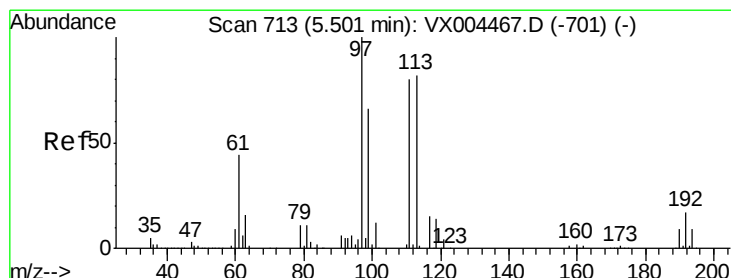
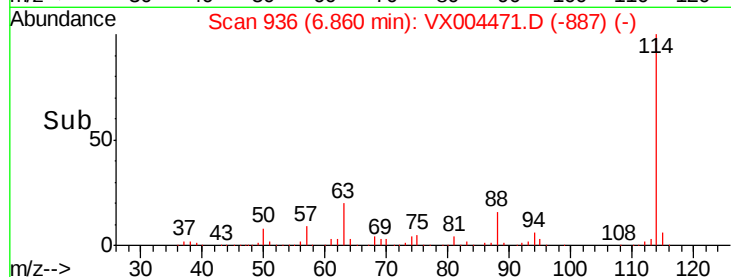
Tot Ion:114 Resp: 314479  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 39.0  
 88 15.8 0.0 30.4



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

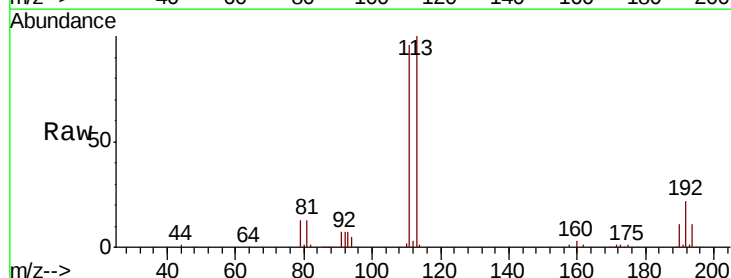


Time--> 6.70 6.80 6.90 7.00 7.10

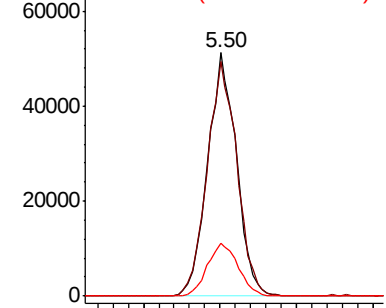


#35  
 Dibromofluoromethane  
 Concen: 46.52 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX004471.D  
 Acq: 11 Sep 2018 17:53

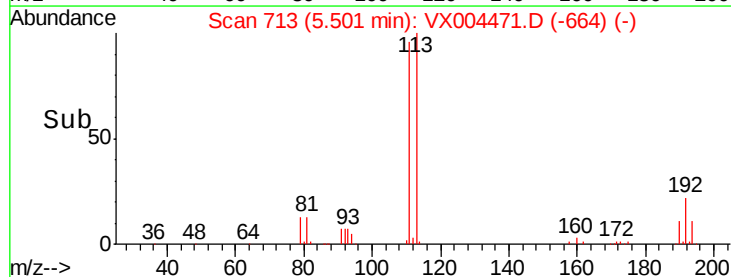
Tgt Ion:113 Resp: 133878  
 Ion Ratio Lower Upper  
 113 100  
 111 99.9 82.4 123.6  
 192 23.2 19.4 29.2

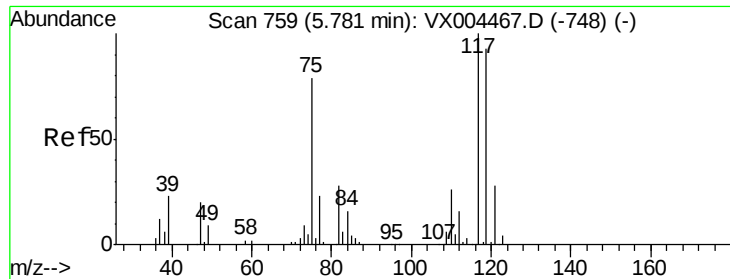


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V



Time--> 5.40 5.50 5.60

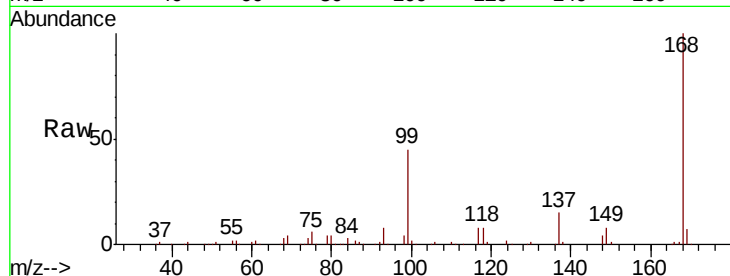




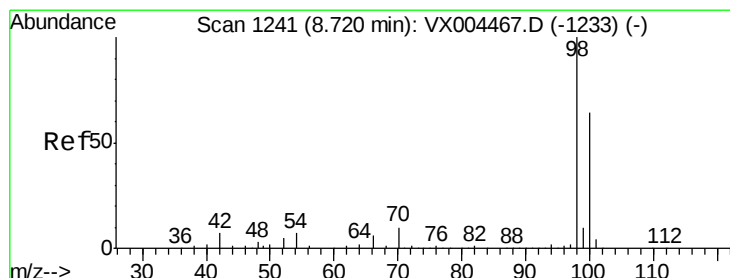
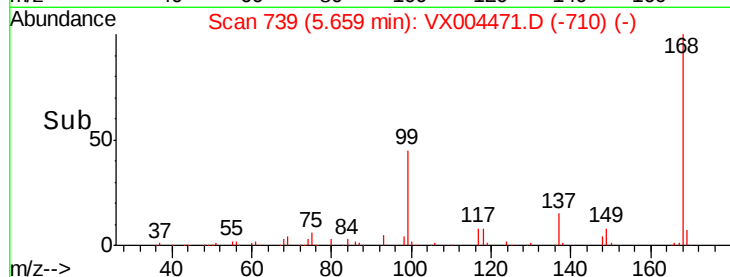
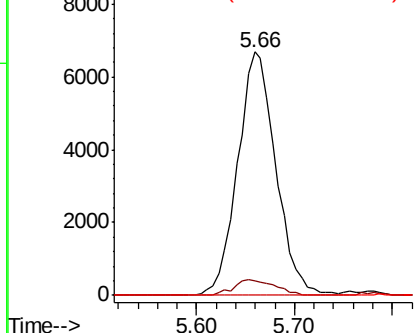
#38  
Carbon Tetrachloride  
Concen: 4.86 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.12 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0911WBL01

Tot Ion:117 Resp: 18124  
Ion Ratio Lower Upper  
117 100  
119 6.1 78.8 118.2#  
121 0.0 24.9 37.3#

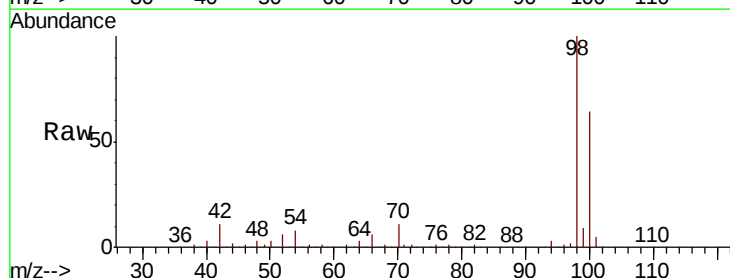


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

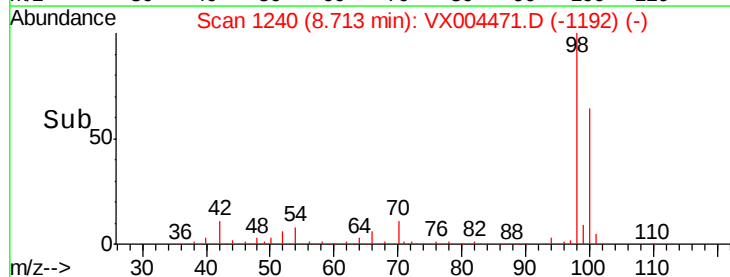
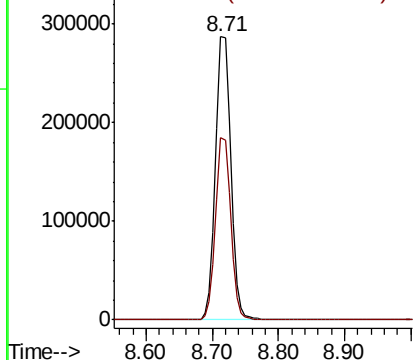


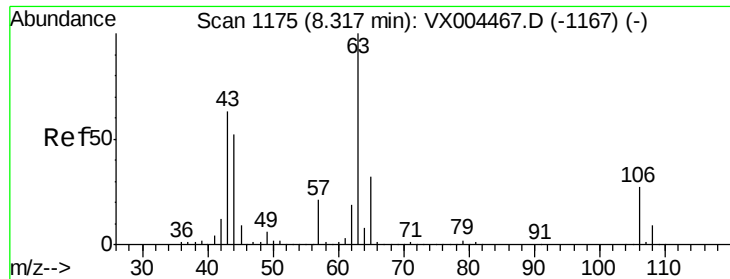
#50  
Toluene-d8  
Concen: 47.59 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.01 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

Tgt Ion: 98 Resp: 459322  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.9 79.3



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





#58

2-Chloroethyl Vinyl ether

Concen: 7.38 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

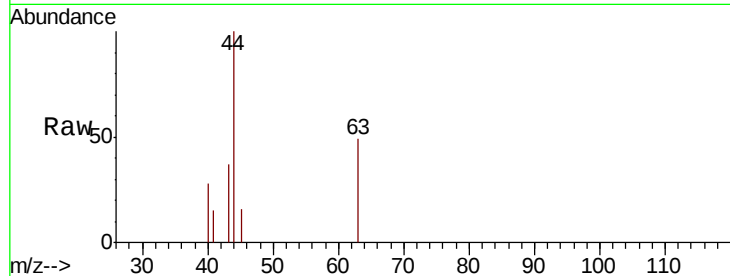
VX0911WBL01

Tot Ion: 63 Resp: 233

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.32

200

150

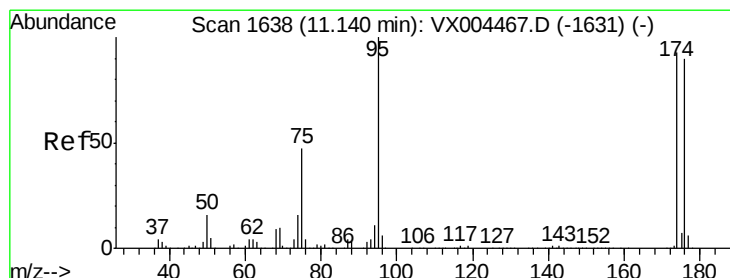
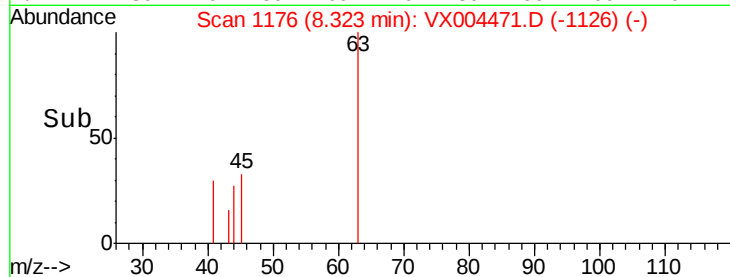
100

50

0

8.28 8.30 8.32 8.34

Time-->



#62

4-Bromofluorobenzene

Concen: 47.02 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

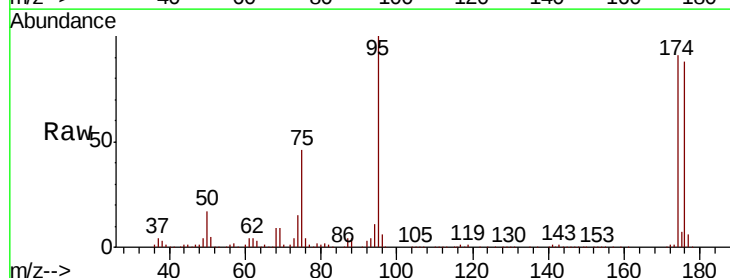
Tgt Ion: 95 Resp: 161991

Ion Ratio Lower Upper

95 100

174 91.7 0.0 185.2

176 88.0 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

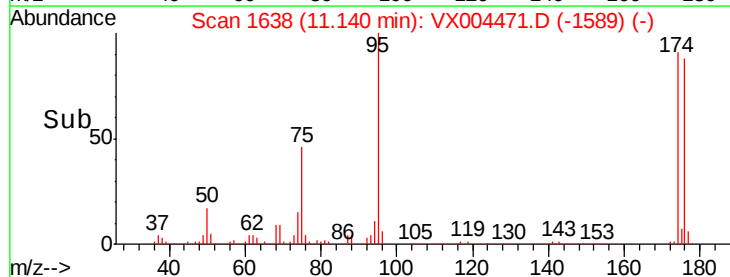
100000

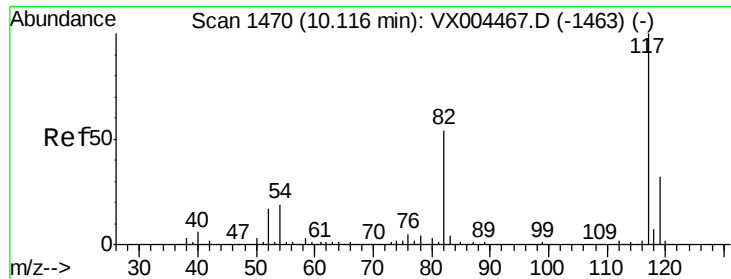
50000

0

11.10 11.14 11.20 11.30

Time-->

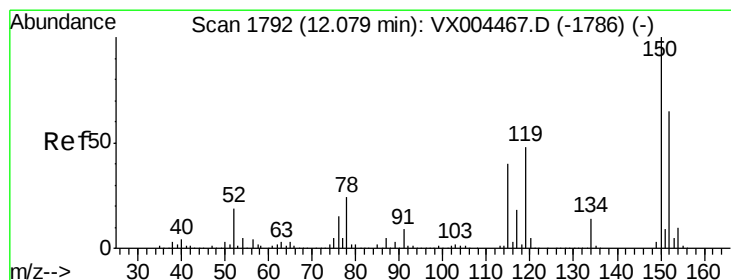
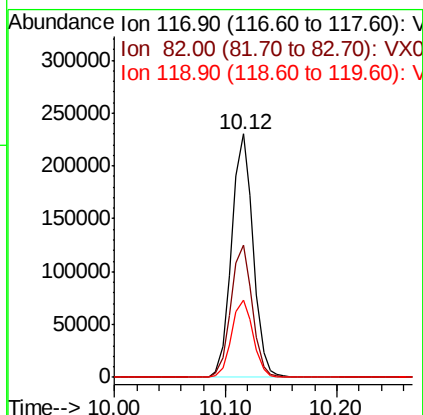
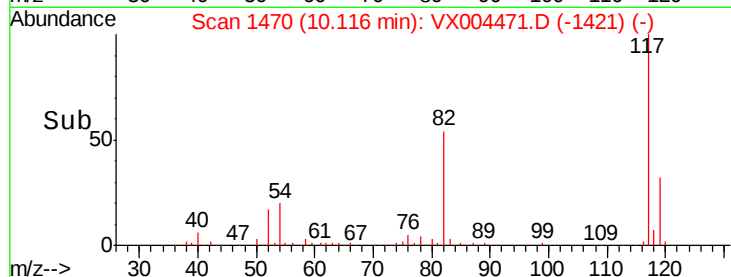
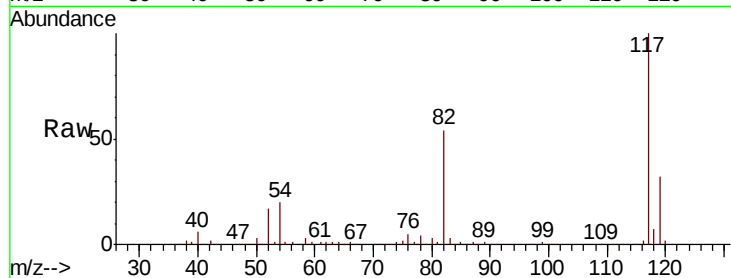




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

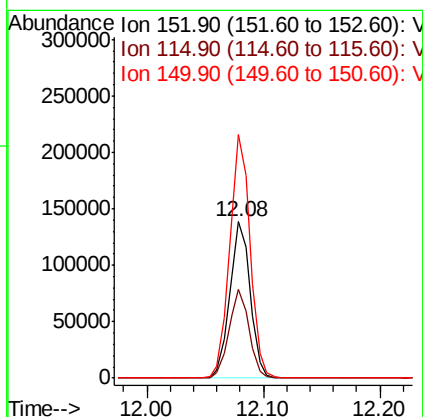
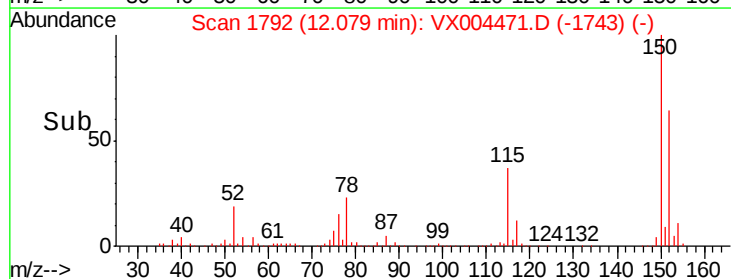
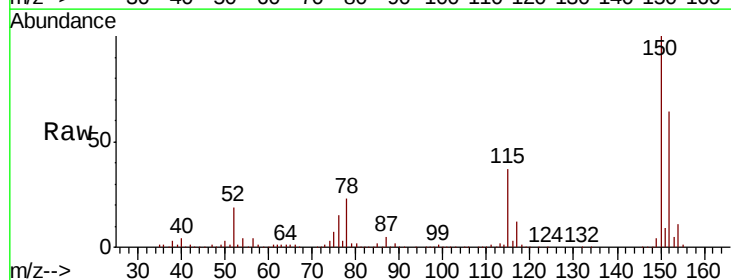
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0911WBL01

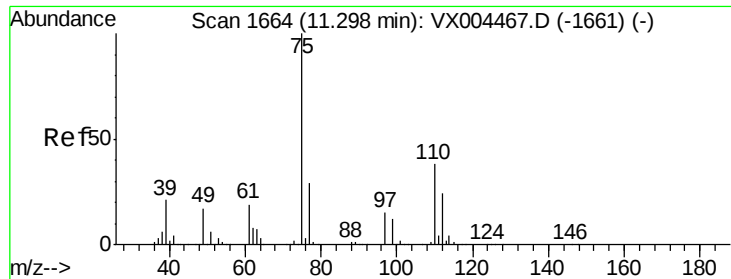
Tot Ion:117 Resp: 307099  
Ion Ratio Lower Upper  
117 100  
82 54.1 47.8 71.6  
119 32.0 29.3 43.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

Tgt Ion:152 Resp: 169419  
Ion Ratio Lower Upper  
152 100  
115 55.5 39.0 117.0  
150 155.2 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 23.20 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

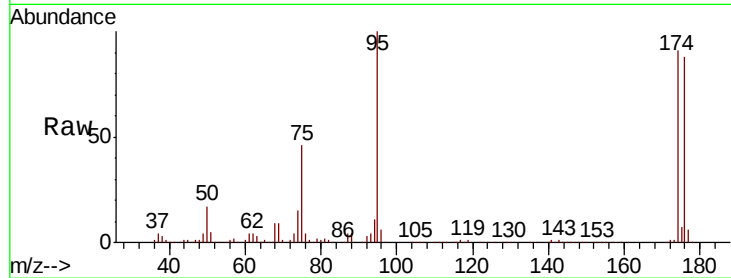
VX0911WBL01

Tot Ion: 75 Resp: 76809

Ion Ratio Lower Upper

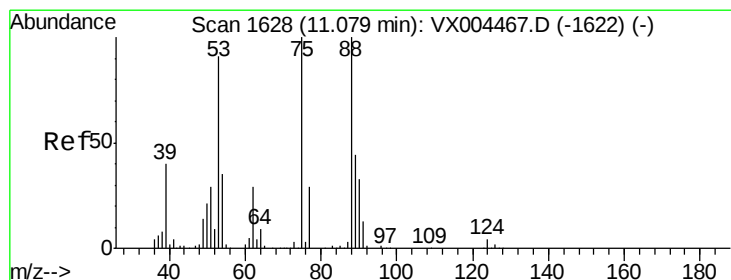
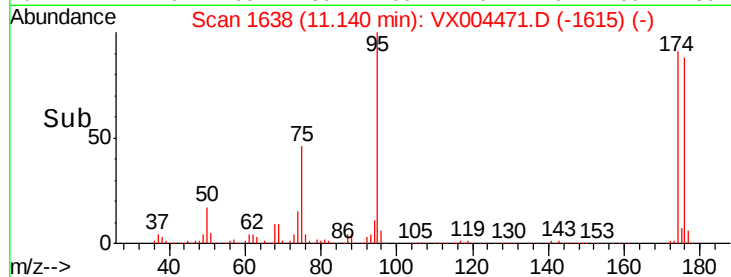
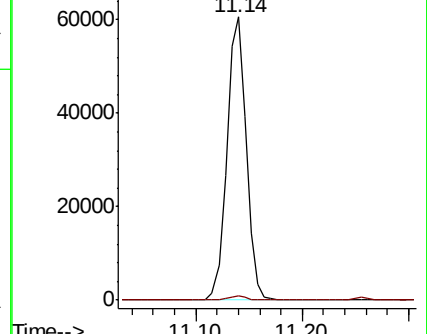
75 100

77 1.4 20.2 60.6#



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: 71.83 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

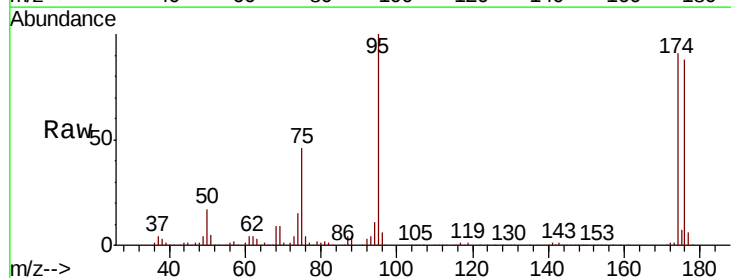
Tgt Ion: 75 Resp: 76809

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

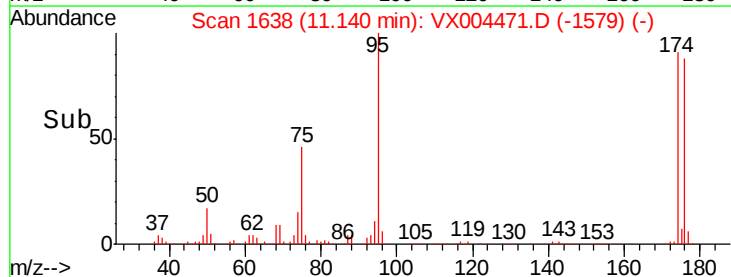
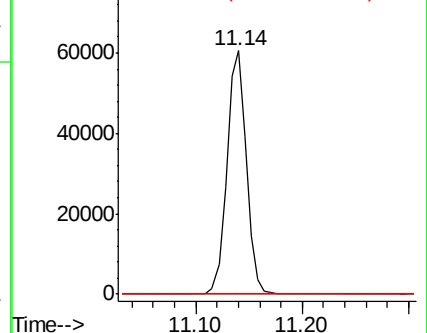
89 0.0 37.2 55.8#

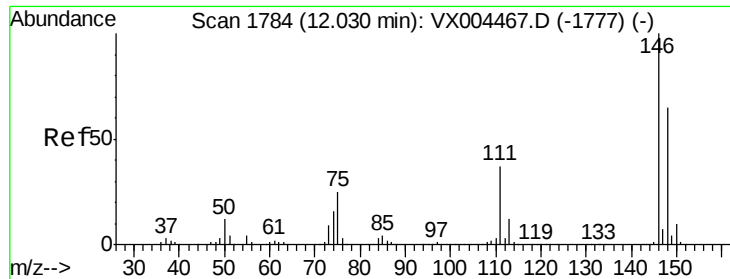


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#87

1,3-Dichlorobenzene

Concen: 0.24 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0911WBL01

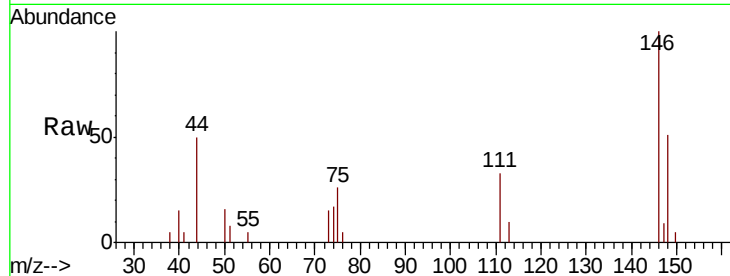
Tot Ion:146 Resp: 1365

Ion Ratio Lower Upper

146 100

111 35.2 18.7 56.1

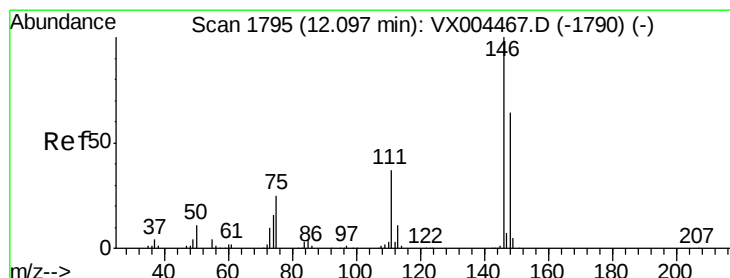
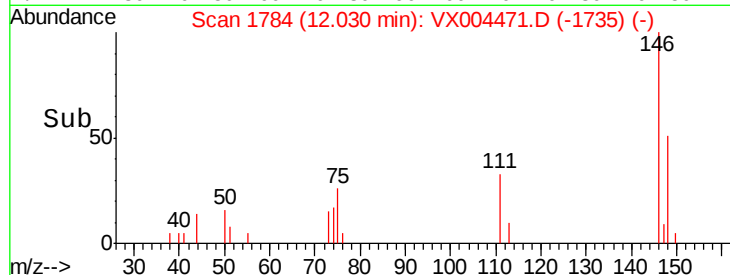
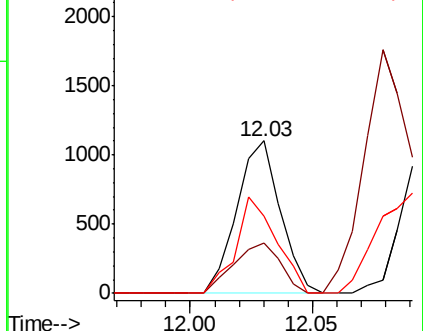
148 58.5 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.23 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. -0.07 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

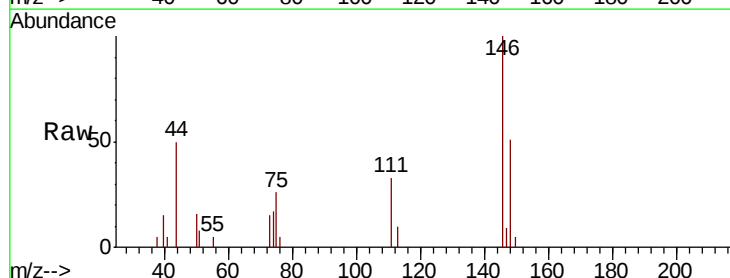
Tgt Ion:146 Resp: 1365

Ion Ratio Lower Upper

146 100

111 35.2 18.1 54.1

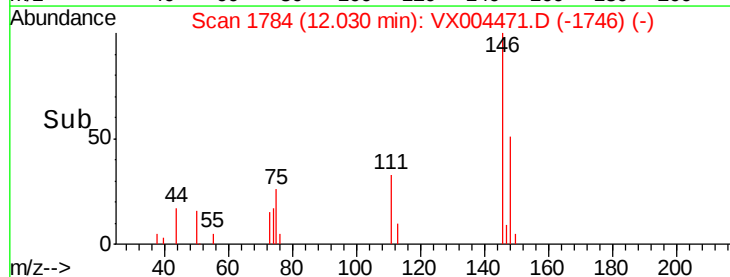
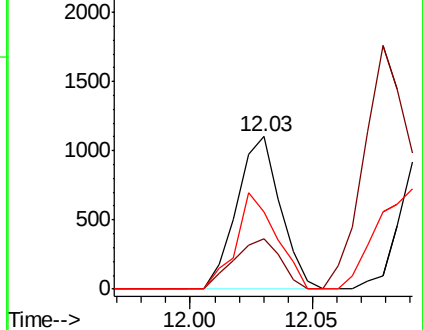
148 58.5 32.0 96.0

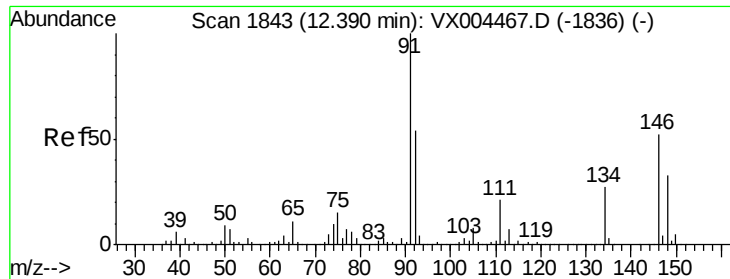


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

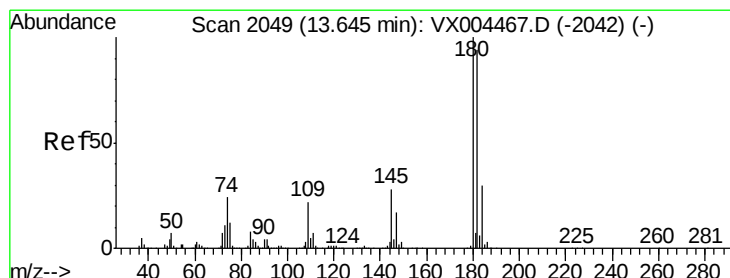
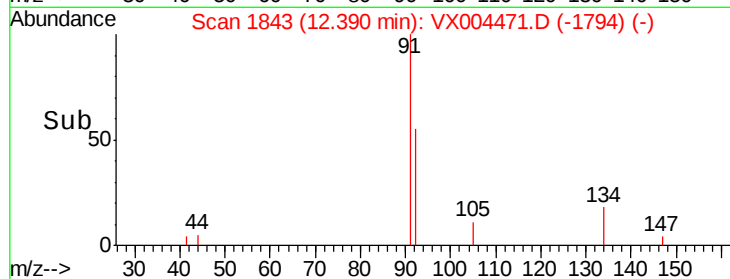
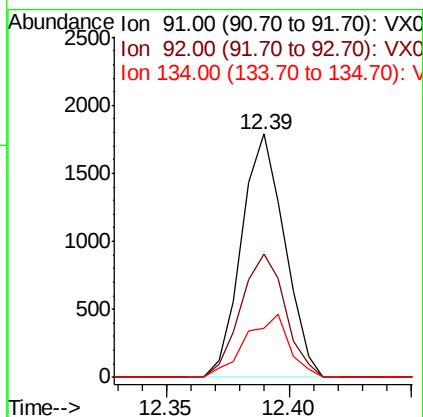
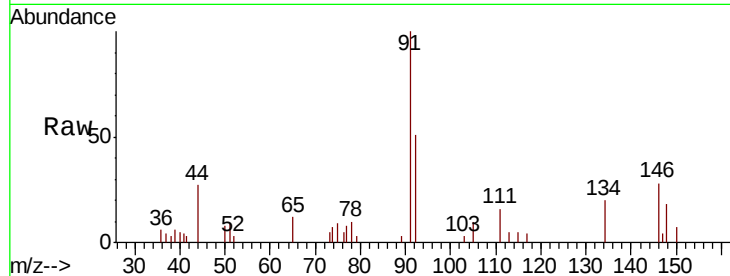




#89  
n-Butylbenzene  
Concen: 0.24 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. -0.00 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

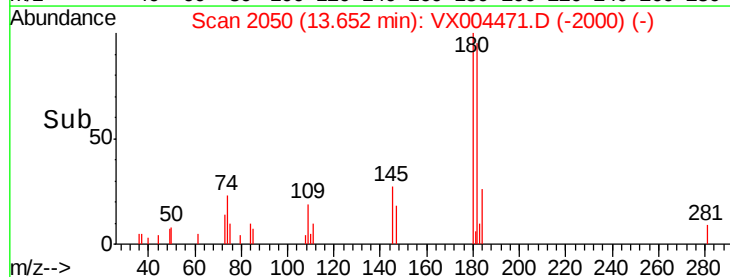
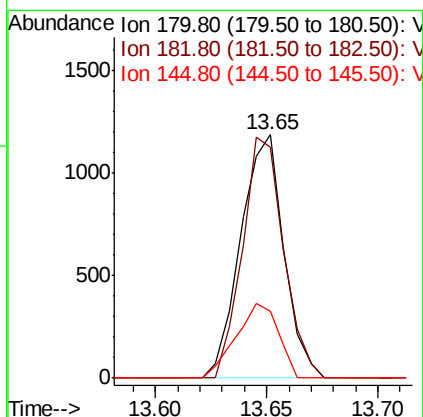
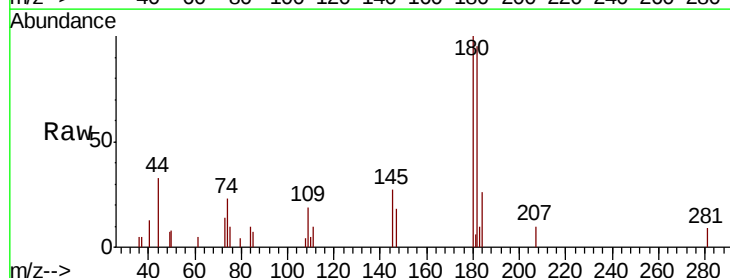
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0911WBL01

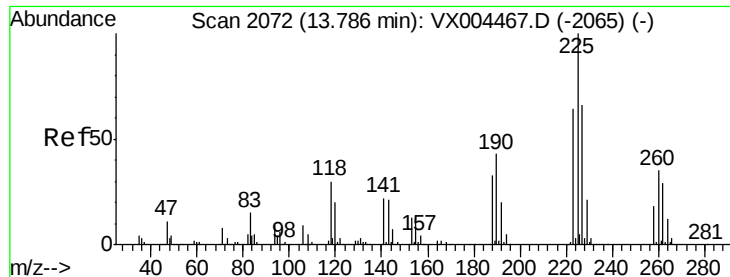
Tot Ion: 91 Resp: 2188  
Ion Ratio Lower Upper  
91 100  
92 52.6 27.3 81.9  
134 26.2 13.6 40.7



#93  
1,2,4-Trichlorobenzene  
Concen: 0.39 ug/l  
RT: 13.65 min Scan# 2050  
Delta R.T. 0.01 min  
Lab File: VX004471.D  
Acq: 11 Sep 2018 17:53

Tgt Ion:180 Resp: 1602  
Ion Ratio Lower Upper  
180 100  
182 94.7 48.4 145.0  
145 30.1 14.3 42.9





#94

Hexachlorobutadiene

Concen: 0.32 ug/l

RT: 13.79 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0911WBL01

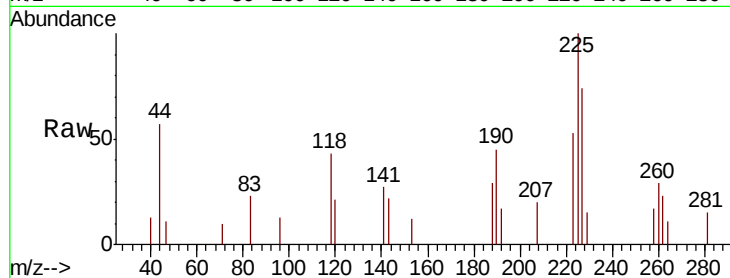
Tot Ion:225 Resp: 682

Ion Ratio Lower Upper

225 100

223 55.0 30.1 90.5

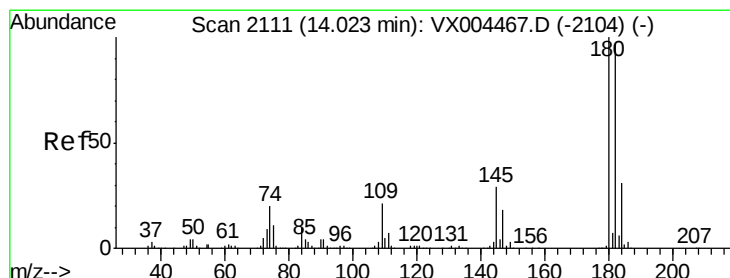
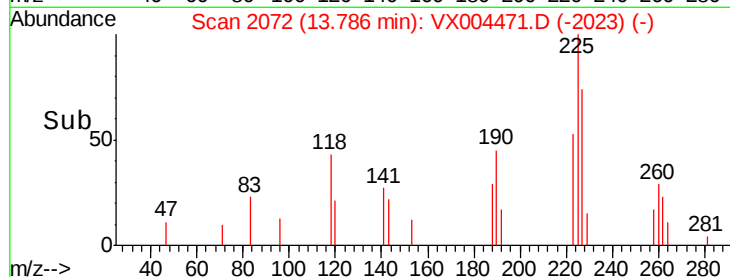
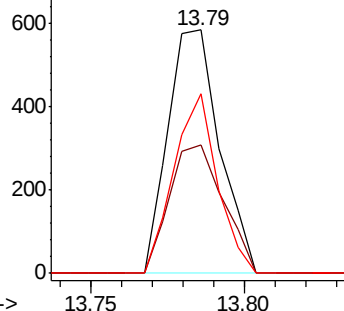
227 62.2 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.26 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VX004471.D

Acq: 11 Sep 2018 17:53

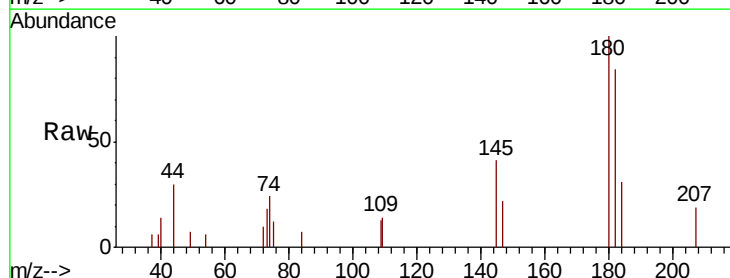
Tgt Ion:180 Resp: 1103

Ion Ratio Lower Upper

180 100

182 87.1 48.5 145.6

145 33.3 14.9 44.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

