

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082119\  
 Data File : VX011723.D  
 Acq On : 21 Aug 2019 11:31  
 Operator : JC/SP  
 Sample : VX0821WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0821WBL01

Quant Time: Aug 21 13:29:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 04:15:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 441261   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 637710   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 576890   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 282881   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 227948   | 55.70  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 111.40% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 176087   | 42.22  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 84.44%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 700091   | 53.87  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.74% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 256273   | 46.72  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 93.44%  |          |

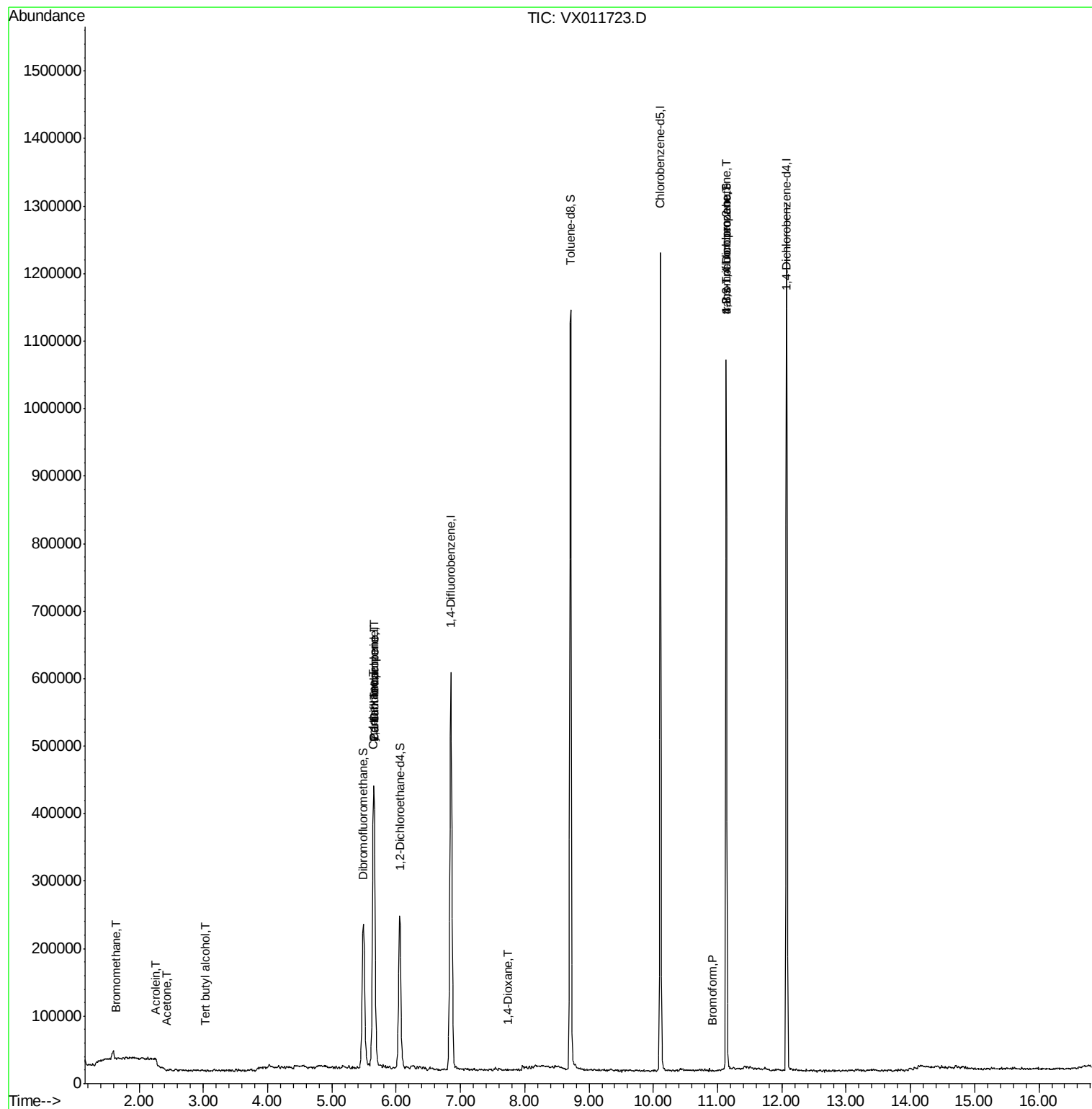
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 368      | 0.202  | ug/l # | 3      |
| 11) Tert butyl alcohol         | 3.04  | 59   | 471      | 0.469  | ug/l # | 23     |
| 13) Acrolein                   | 2.26  | 56   | 453      | 13.579 | ug/l # | 60     |
| 16) Acetone                    | 2.44  | 43   | 1279     | 0.622  | ug/l # | 69     |
| 31) Cyclohexane                | 5.64  | 56   | 7097     | 1.170  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 28403    | 5.209  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 40174    | 6.688  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 116      | 0.900  | ug/l # | 1      |
| 71) Bromoform                  | 10.92 | 173  | 175      | 3.328  | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 123788   | 23.077 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 123788   | 61.392 | ug/l # | 11     |

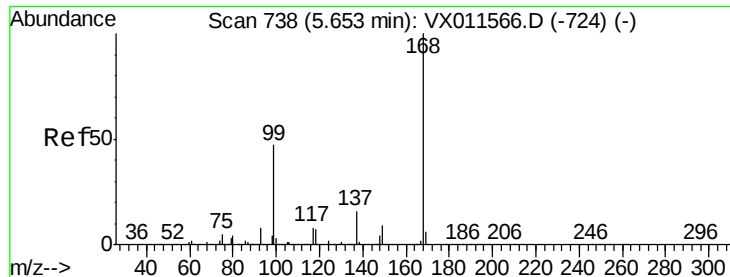
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082119\  
Data File : VX011723.D  
Acq On : 21 Aug 2019 11:31  
Operator : JC/SP  
Sample : VX0821WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

Quant Time: Aug 21 13:29:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X081519W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 16 04:15:26 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

Instrument :

MSVOA\_X

ClientSampleId :

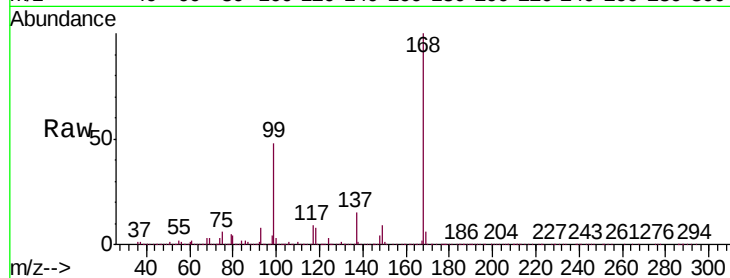
VX0821WBL01

Tot Ion:168 Resp: 441261

Ion Ratio Lower Upper

168 100

99 48.2 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

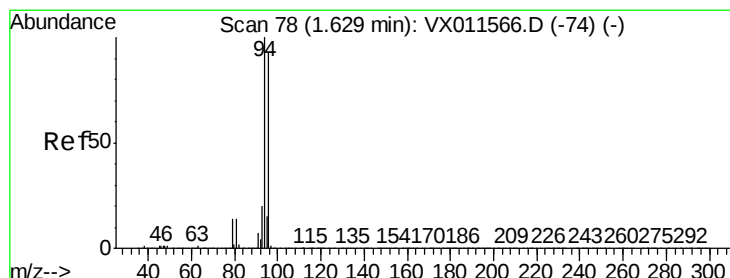
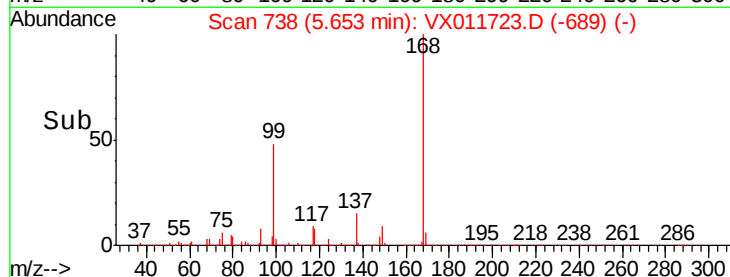
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.202 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011723.D

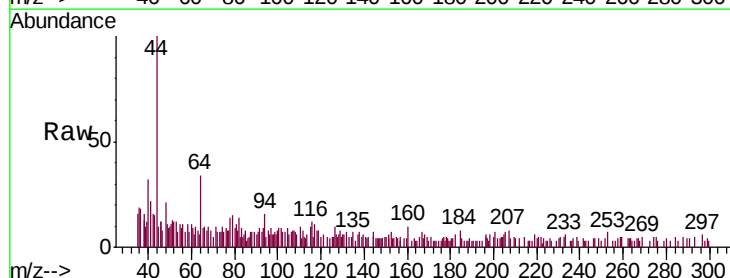
Acq: 21 Aug 2019 11:31

Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

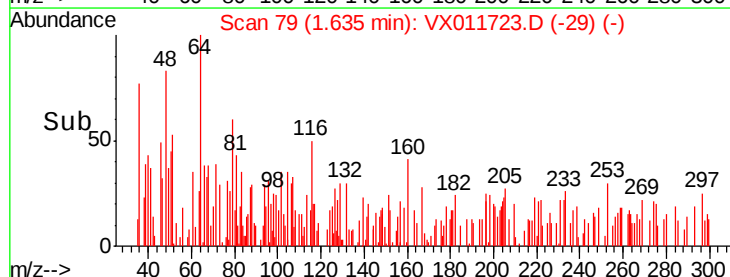
300

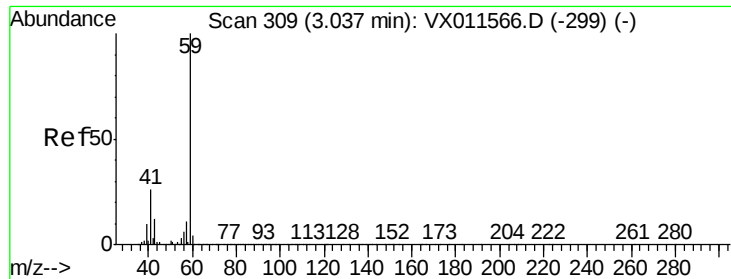
200

100

0

Time-->



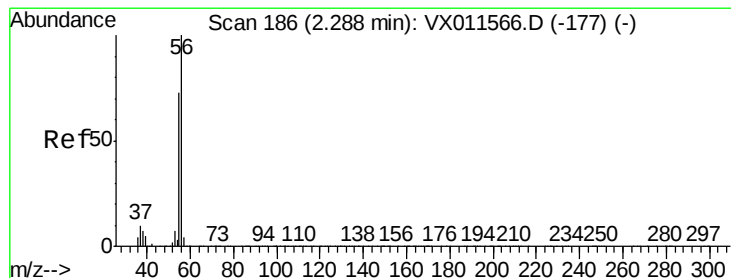
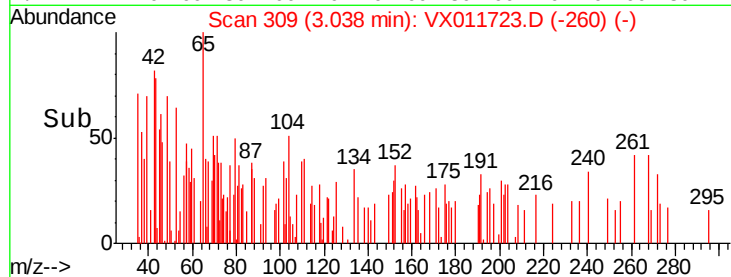
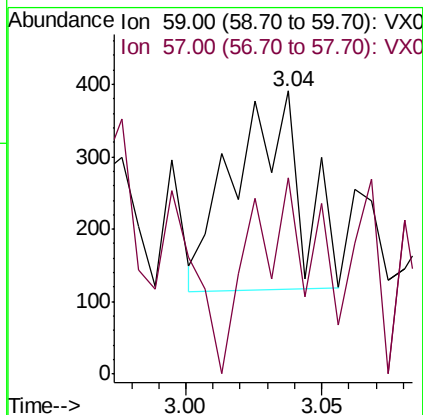
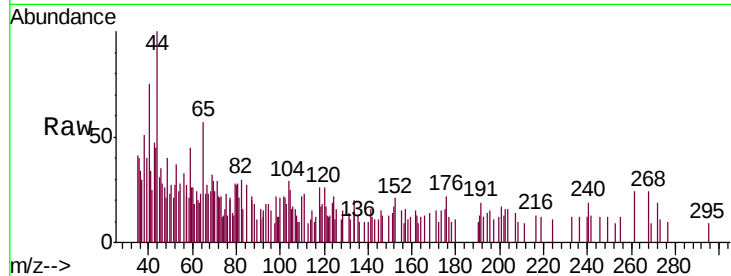


#11

Tert butyl alcohol  
 Concen: 0.469 ug/l  
 RT: 3.04 min Scan# 309  
 Delta R.T. 0.00 min  
 Lab File: VX011723.D  
 Acq: 21 Aug 2019 11:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0821WBL01

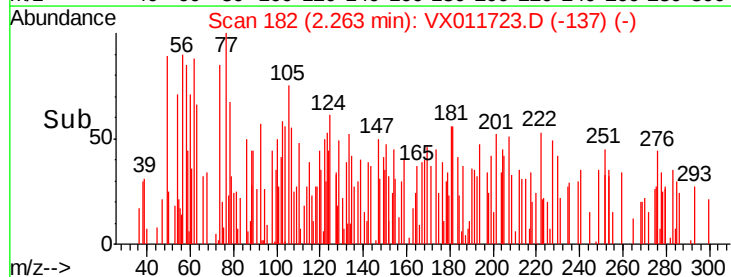
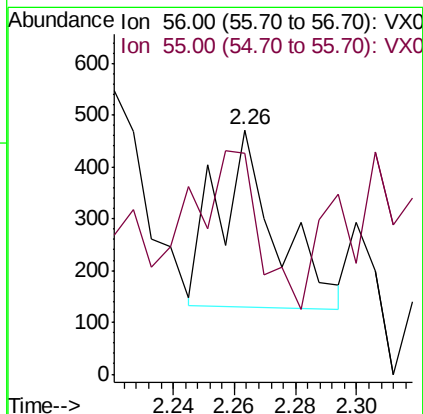
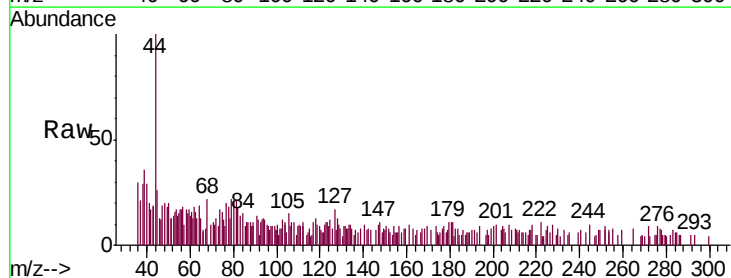
Tot Ion: 59 Resp: 471  
 Ion Ratio Lower Upper  
 59 100  
 57 39.9 8.7 13.1#

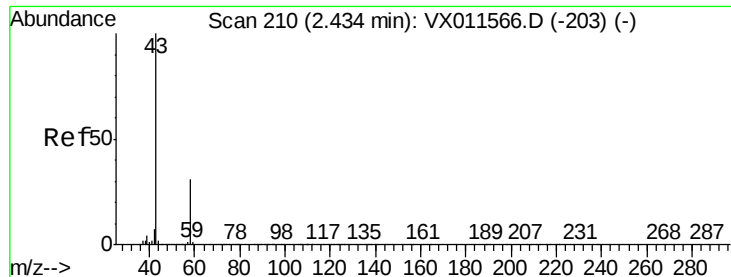


#13

Acrolein  
 Concen: 13.579 ug/l  
 RT: 2.26 min Scan# 182  
 Delta R.T. -0.02 min  
 Lab File: VX011723.D  
 Acq: 21 Aug 2019 11:31

Tgt Ion: 56 Resp: 453  
 Ion Ratio Lower Upper  
 56 100  
 55 101.8 55.5 83.3#

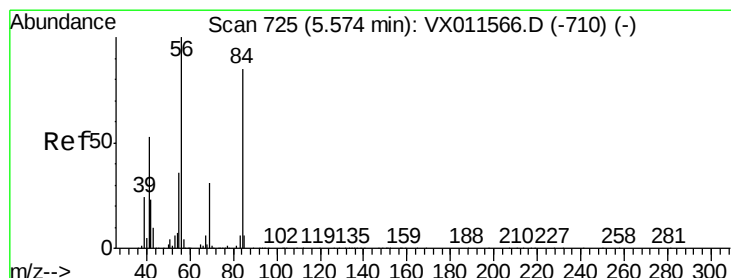
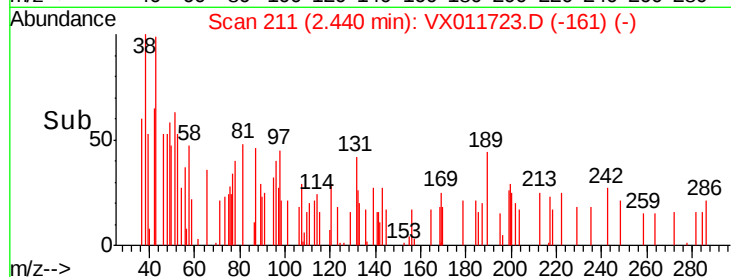
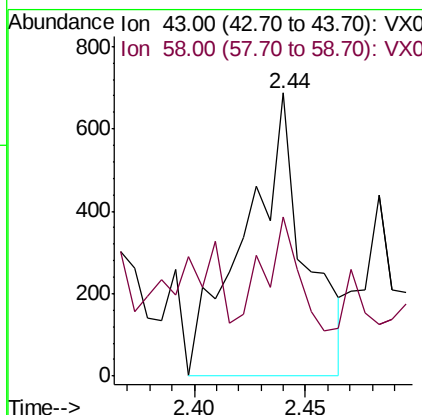
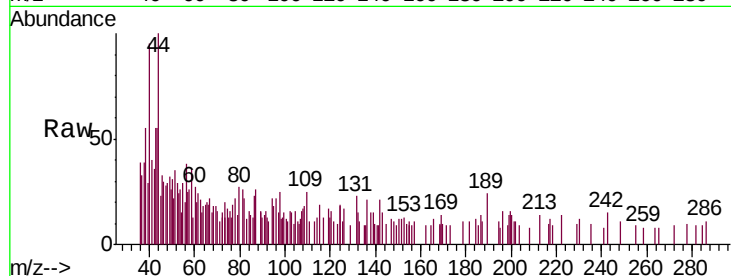




#16  
Acetone  
Concen: 0.622 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. 0.01 min  
Lab File: VX011723.D  
Acq: 21 Aug 2019 11:31

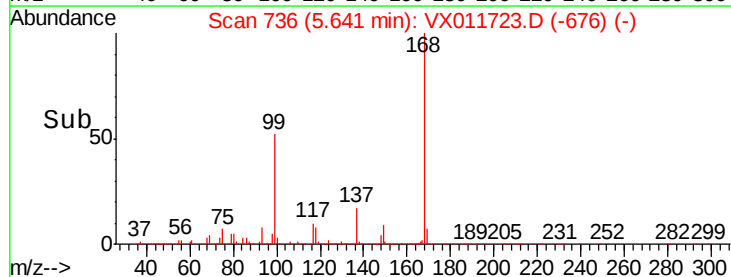
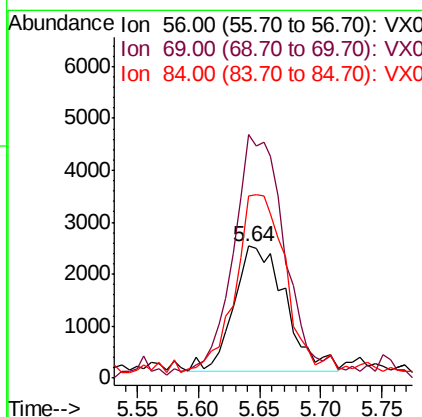
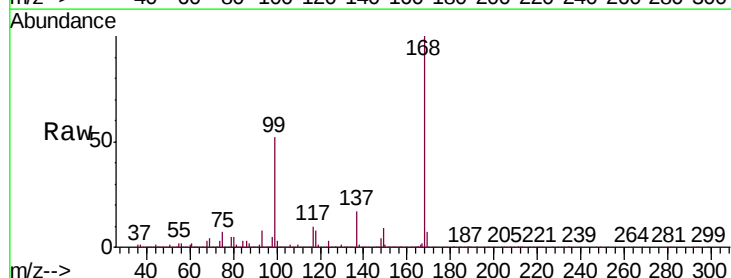
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

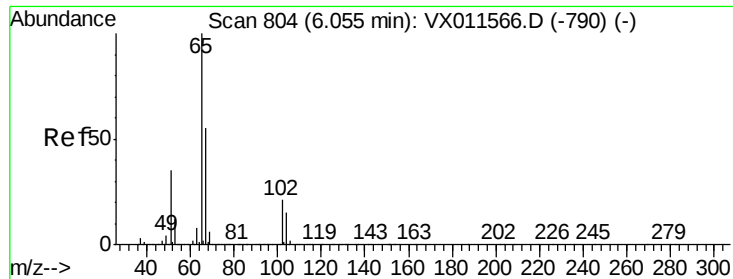
Tot Ion: 43 Resp: 1279  
Ion Ratio Lower Upper  
43 100  
58 14.1 25.2 37.8#



#31  
Cyclohexane  
Concen: 1.170 ug/l  
RT: 5.64 min Scan# 736  
Delta R.T. 0.07 min  
Lab File: VX011723.D  
Acq: 21 Aug 2019 11:31

Tgt Ion: 56 Resp: 7097  
Ion Ratio Lower Upper  
56 100  
69 188.6 24.8 37.2#  
84 138.4 67.9 101.9#

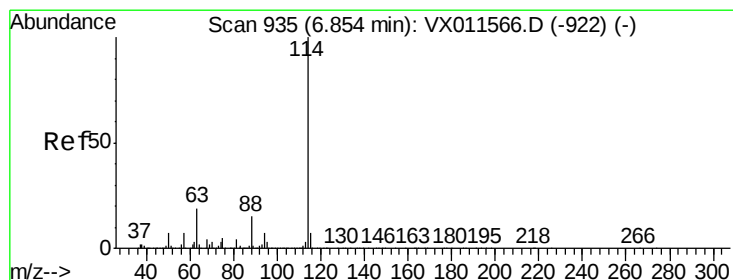
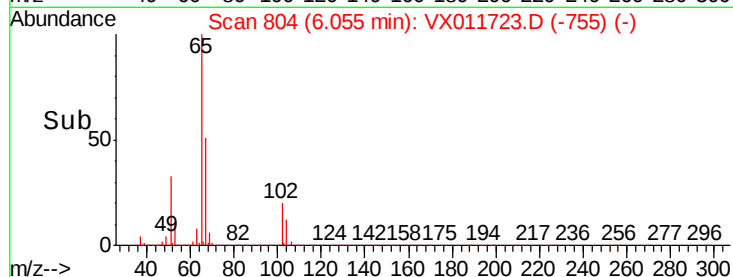
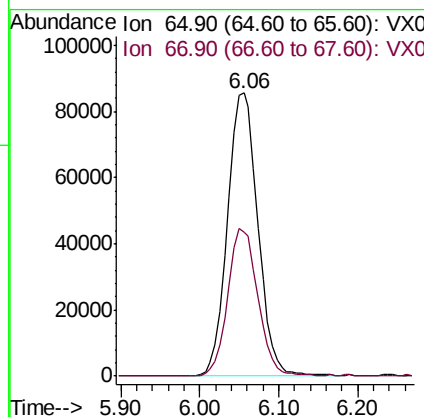
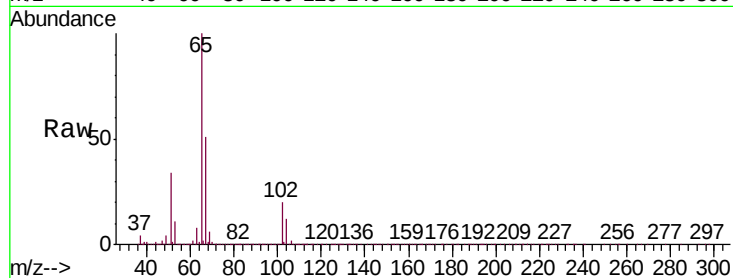




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.704 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: VX011723.D  
 Acq: 21 Aug 2019 11:31

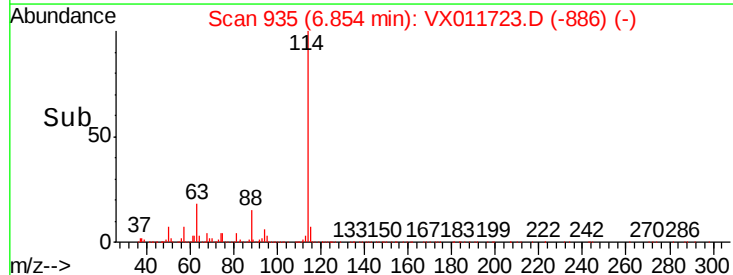
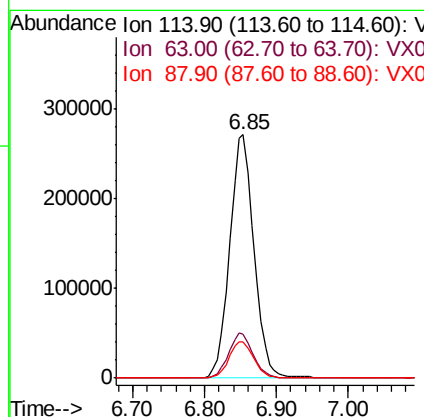
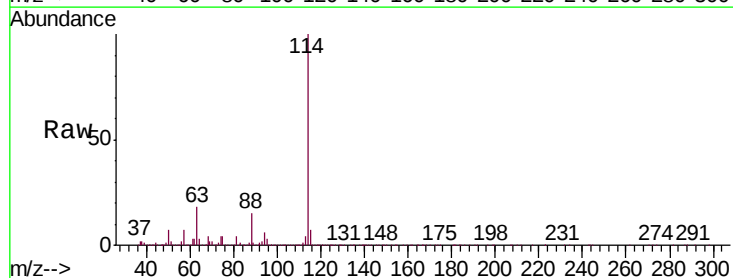
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0821WBL01

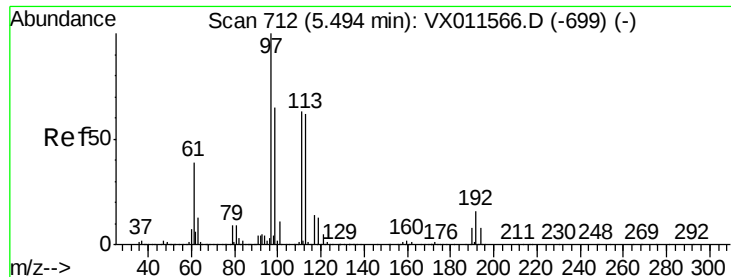
Tot Ion: 65 Resp: 227948  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 107.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011723.D  
 Acq: 21 Aug 2019 11:31

Tgt Ion: 114 Resp: 637710  
 Ion Ratio Lower Upper  
 114 100  
 63 18.0 0.0 37.8  
 88 14.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 42.217 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

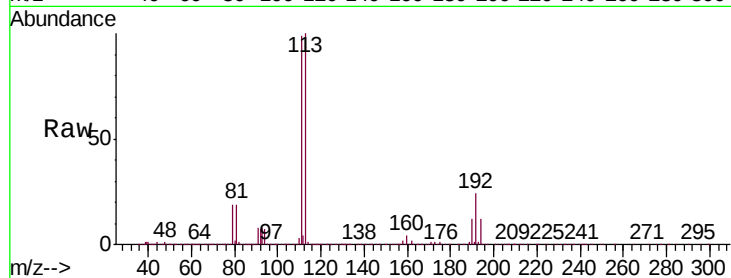
Tot Ion:113 Resp: 176087

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

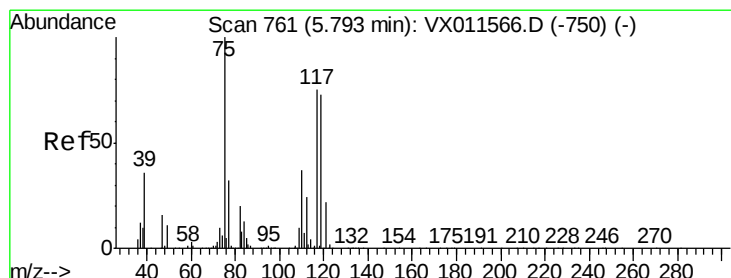
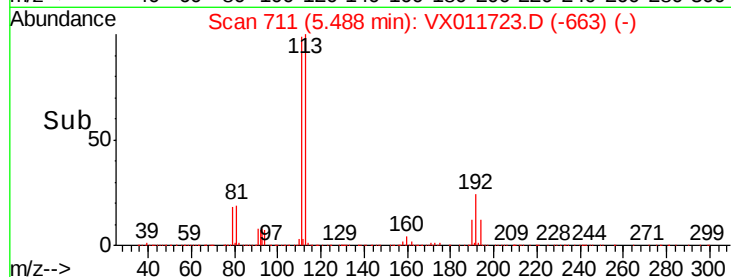
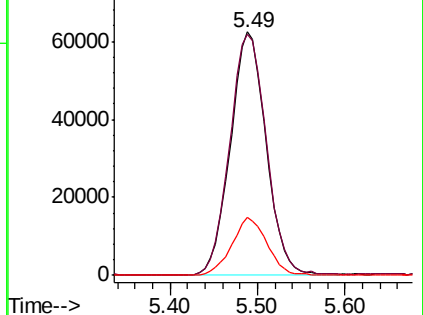
192 23.7 20.8 31.2



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: 5.209 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

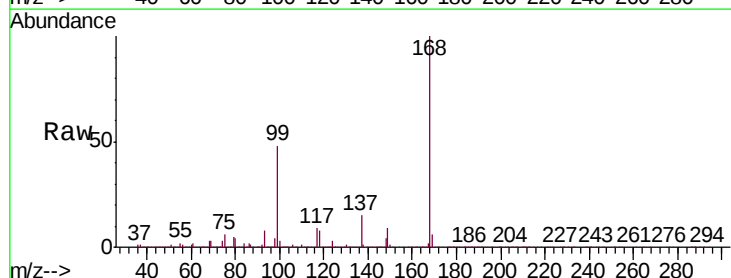
Tgt Ion: 75 Resp: 28403

Ion Ratio Lower Upper

75 100

110 10.1 19.4 58.1#

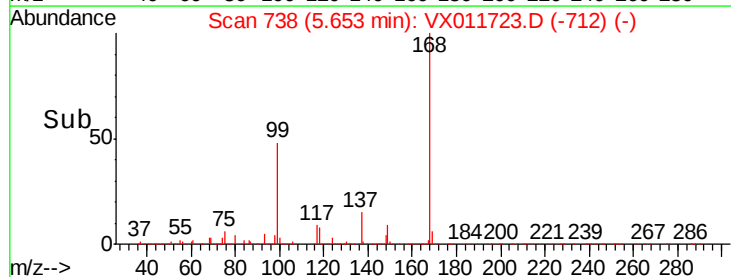
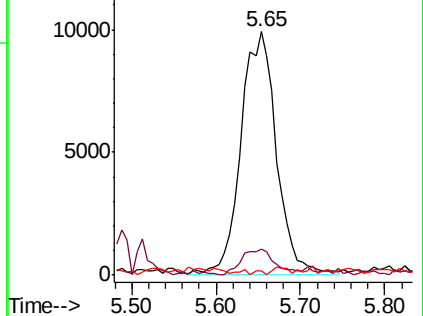
77 0.4 25.1 37.7#

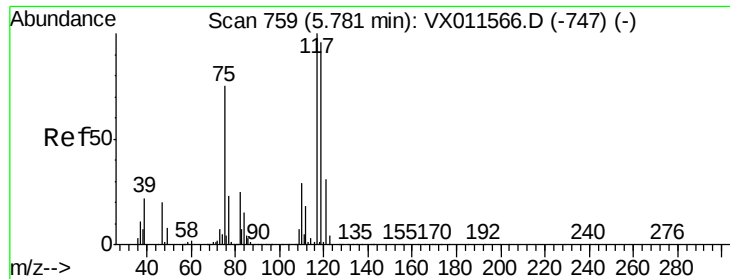


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.688 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

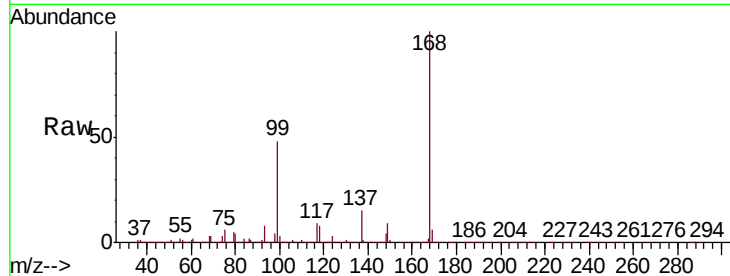
Tot Ion:117 Resp: 40174

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

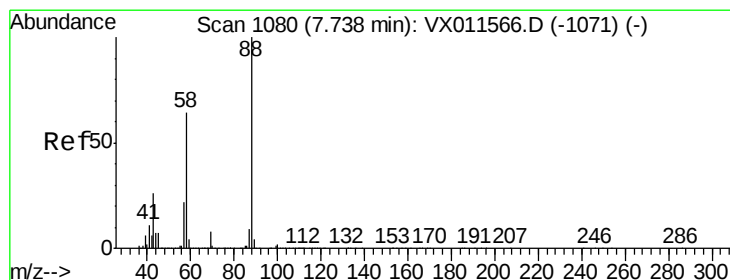
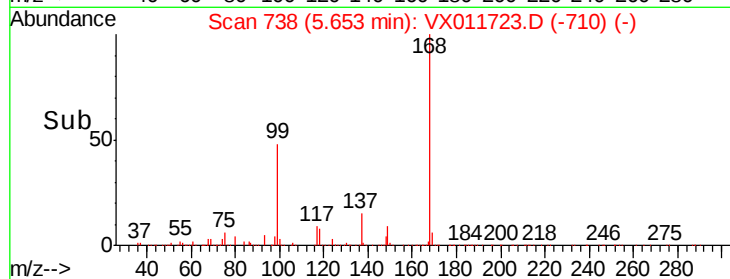
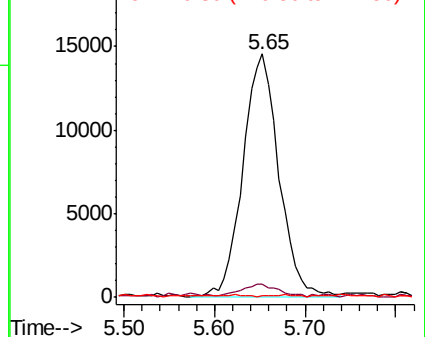
121 0.0 24.8 37.2#



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: 0.900 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

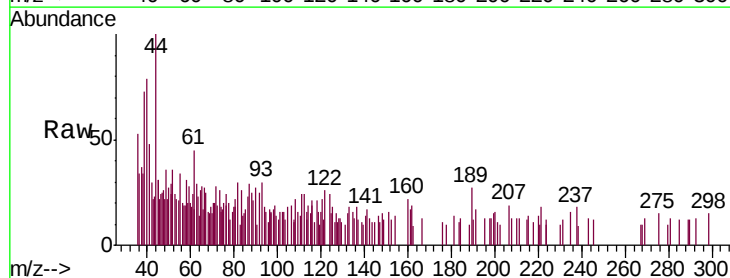
Tgt Ion: 88 Resp: 116

Ion Ratio Lower Upper

88 100

43 121.6 23.4 35.0#

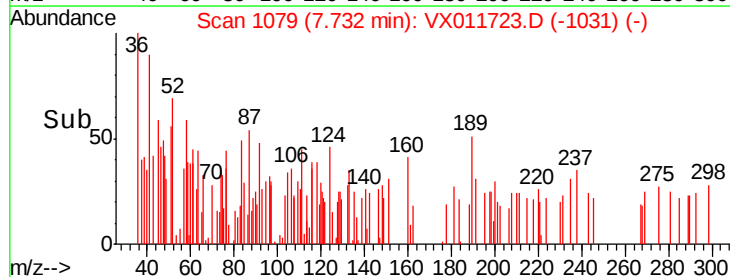
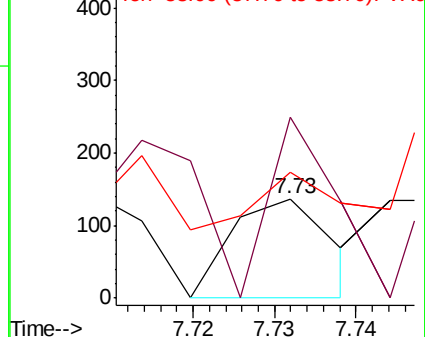
58 0.0 54.3 81.5#

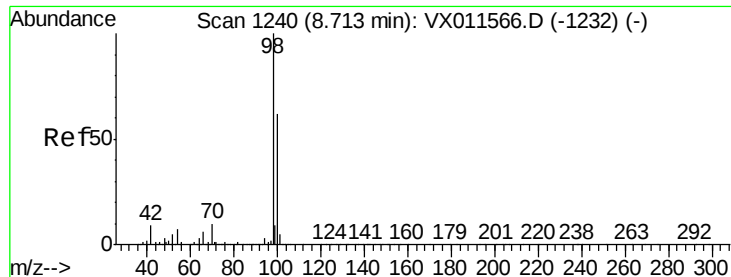


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 53.868 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

Instrument :

MSVOA\_X

ClientSampleId :

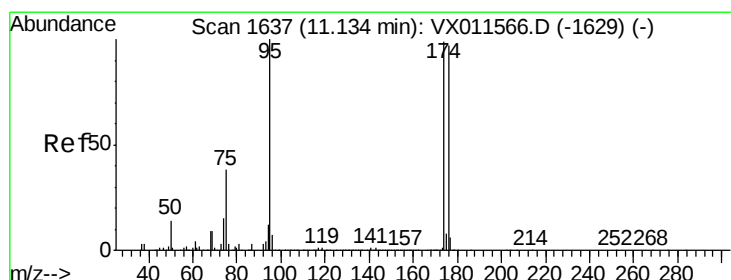
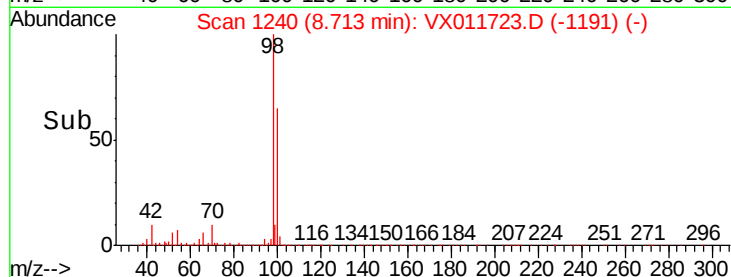
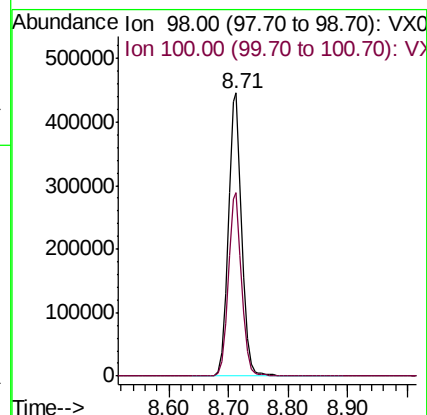
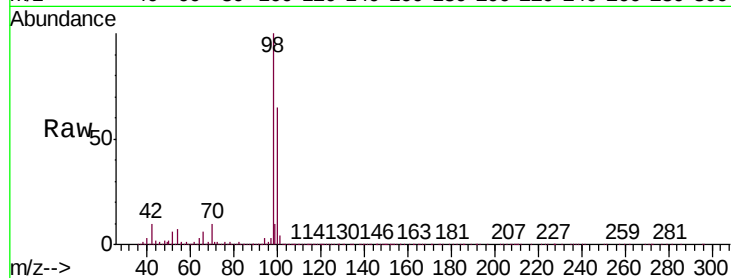
VX0821WBL01

Tot Ion: 98 Resp: 700091

Ion Ratio Lower Upper

98 100

100 64.4 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 46.718 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

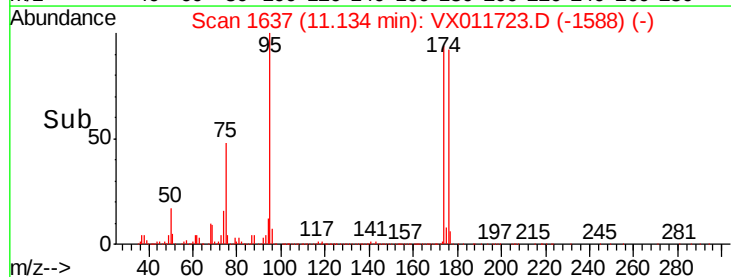
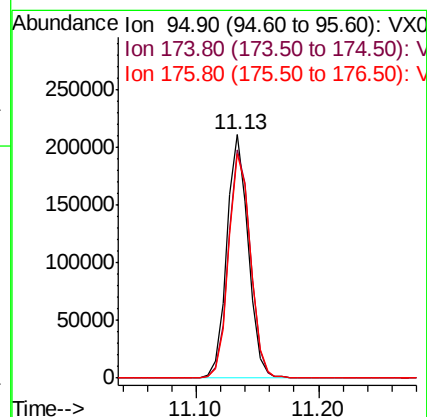
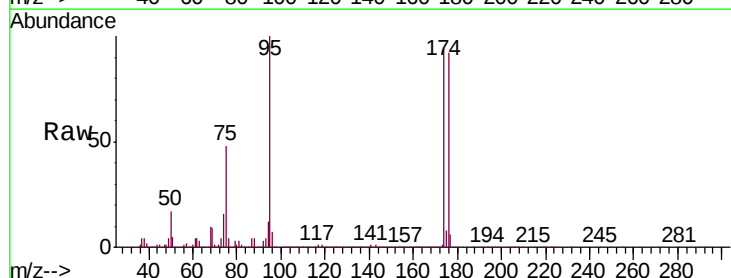
Tgt Ion: 95 Resp: 256273

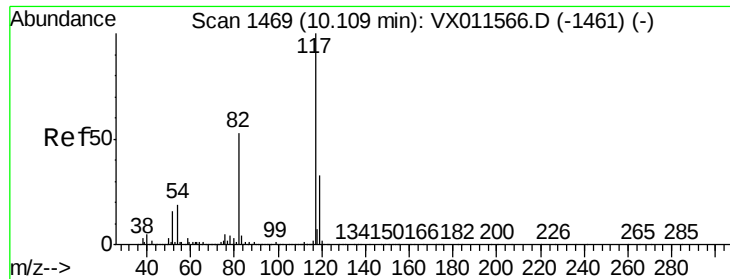
Ion Ratio Lower Upper

95 100

174 95.6 0.0 200.6

176 94.1 0.0 196.6

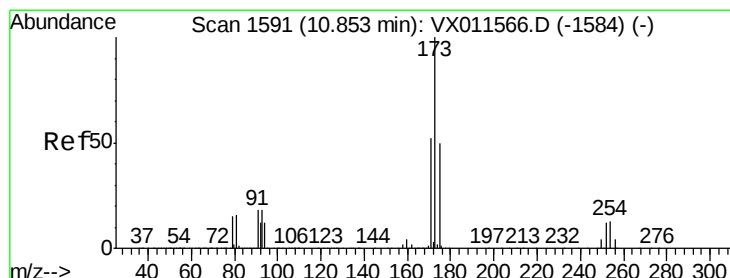
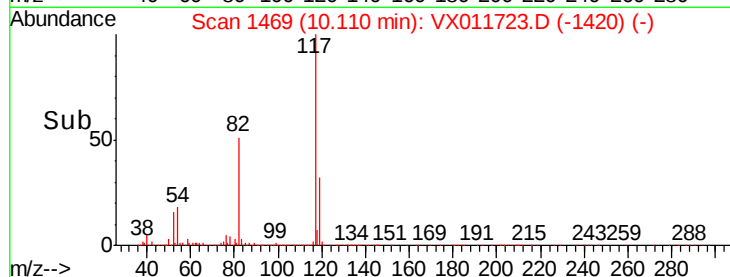
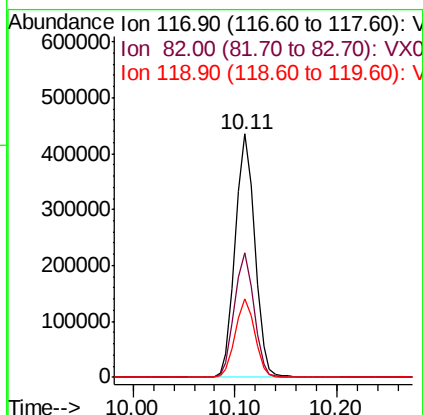
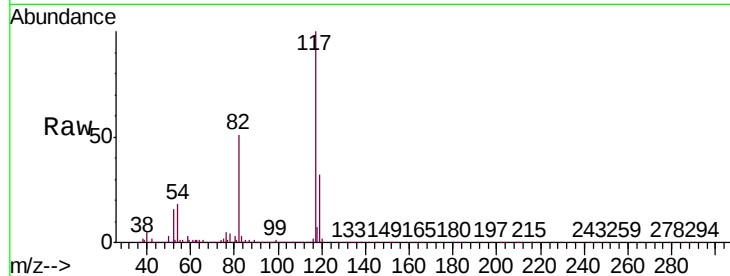




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011723.D  
Acq: 21 Aug 2019 11:31

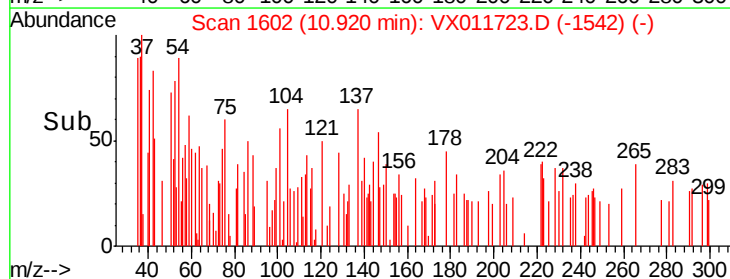
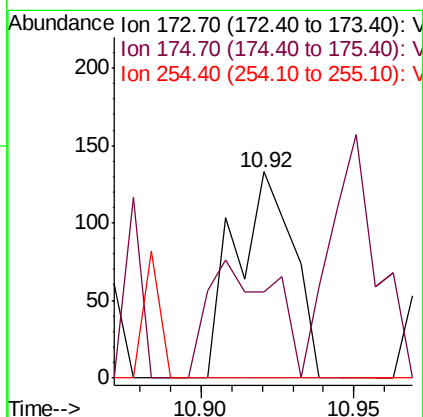
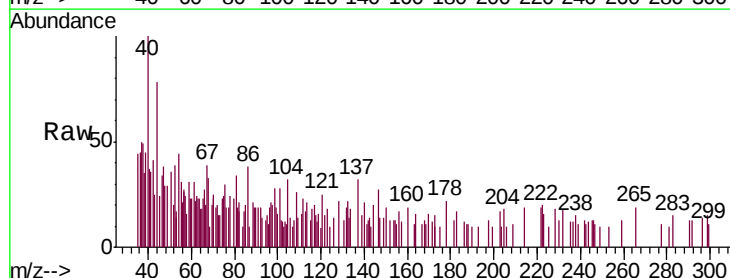
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0821WBL01

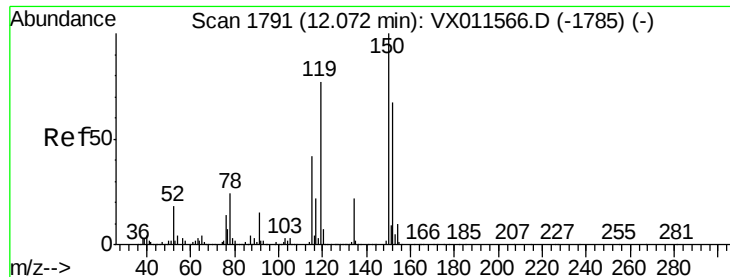
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.1  | 42.0  | 63.0  |
| 119     | 32.4  | 26.5  | 39.7  |



#71  
Bromoform  
Concen: 3.328 ug/l  
RT: 10.92 min Scan# 1602  
Delta R.T. 0.07 min  
Lab File: VX011723.D  
Acq: 21 Aug 2019 11:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 0.0   | 24.9  | 74.7# |
| 254     | 0.0   | 0.1   | 0.1#  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

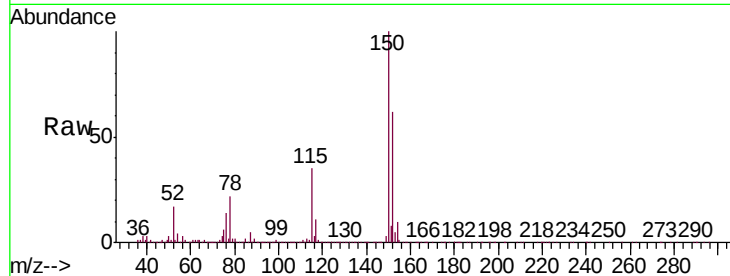
Tot Ion:152 Resp: 282881

Ion Ratio Lower Upper

152 100

115 54.5 37.3 111.9

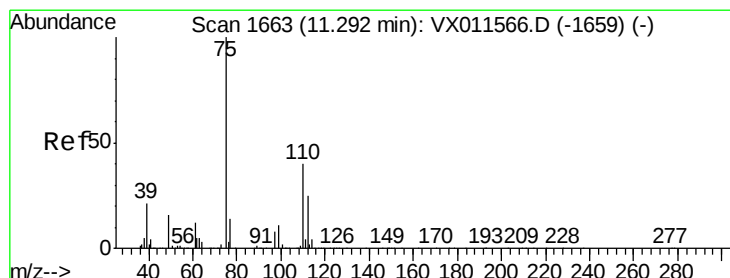
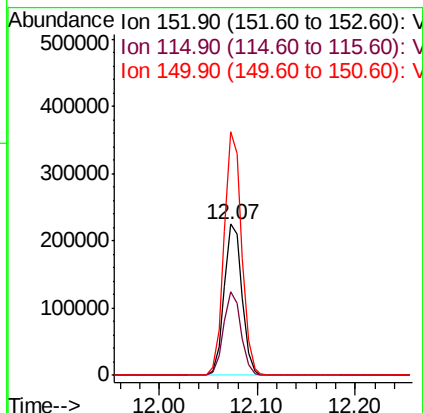
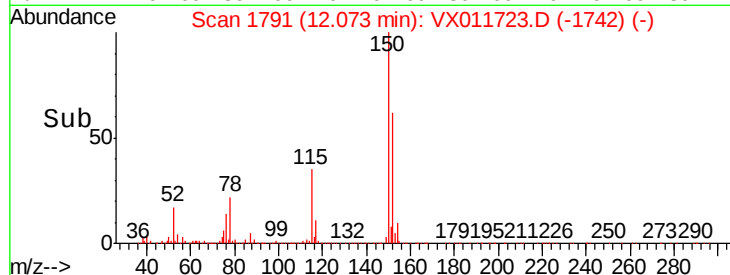
150 158.9 0.0 346.2



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: 23.077 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011723.D

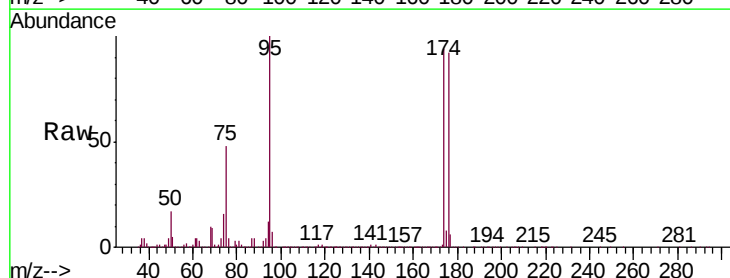
Acq: 21 Aug 2019 11:31

Tgt Ion: 75 Resp: 123788

Ion Ratio Lower Upper

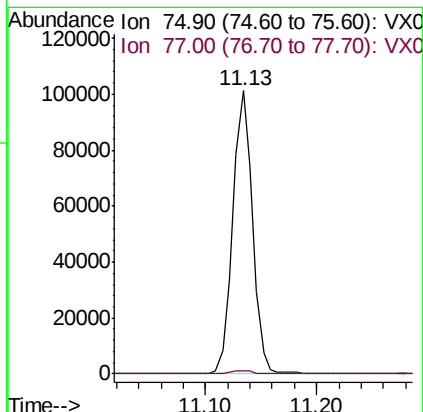
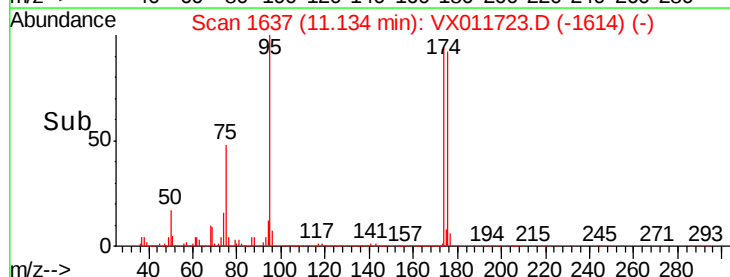
75 100

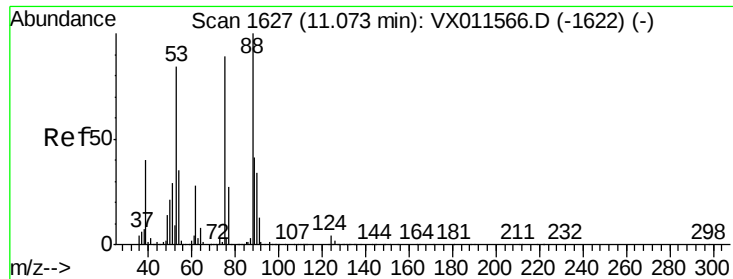
77 1.1 20.9 62.8#



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: 61.392 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011723.D

Acq: 21 Aug 2019 11:31

Instrument :

MSVOA\_X

ClientSampleId :

VX0821WBL01

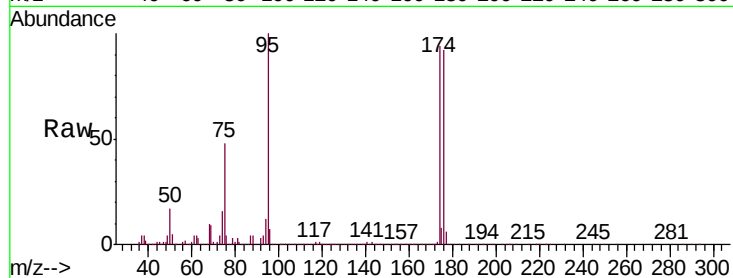
Tot Ion: 75 Resp: 123788

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 37.3 55.9#



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

